

SECTION A: DEFINITIONS AND INTERPRETATION

A1 DEFINITIONS

A1.1 In this Code, except where the context otherwise requires, the expressions in the left hand column below shall have the meanings given to them in the right hand column below:

Acceptance Testing	means testing of a software release undertaken by Users in order to determine whether the required specification for that software is met.
Accession Agreement	means an accession agreement entered into pursuant to Section B1 (Accession).
Acknowledgement	means, in respect of a communication sent by a User to the DCC over the DCC User Interface, a communication by the DCC to the User via the DCC User Interface acknowledging receipt of the User's communication.
Additional Interface Testing	has the meaning given to that expression in Section T3.34 (Additional Interface Testing).
Additional Interface Testing Objective	has the meaning given to that expression in Section T3.35 (Additional Interface Testing).
Additional Release Services	has the meaning given to that expression in Section X1.17 (Testing in respect of Additional Release Services).
Additional SIT	has the meaning given to that expression in Section T2.25 (Additional Systems Integration Testing).
Additional SIT Objective	has the meaning given to that expression in Section T2.26 (Additional Systems Integration Testing).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Additional SMKI and Repository Testing	has the meaning given to that expression in Section T5.30 (Additional SMKI and Repository Testing).
Additional SR Tests	has the meaning given to that expression in Section X1.17 (Testing in respect of Additional Release Services).
Additional SRT Objective	has the meaning given to that expression in Section T5.31 (Additional SMKI and Repository Testing).
Affected Party	has the meaning given to that expression in the definition of Force Majeure.
Affiliate	means, in relation to any person, any holding company of that person, any subsidiary of that person or any subsidiary of a holding company of that person, in each case within the meaning of section 1159 of the Companies Act 2006.
Agency for the Co-operation of Energy Regulators	means the agency of that name established under Regulation 2009/713/EC of the European Parliament and of the Council of 13 July 2009 establishing an Agency for the Co-operation of Energy Regulators.
Alert	has the meaning given to ‘Alert’ in the GB Companion Specification.
Alt HAN Arrangements	has the meaning given to that expression in condition 22.20(e) (Principal contents within the Smart Energy Code) of the DCC Licence.
Alt HAN Charges	means the Fixed Alt HAN Charges calculated in accordance with Section K5A or K6B (as applicable) taken together with the Explicit Charges in respect of the Explicit Charging Metrics at Section K7.5(t) and (u).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Alt HAN Forum means the body of that name established in accordance with Section Z.1.1 (Establishment of the Alt HAN Forum).

Alt HAN Services has the meaning given to that expression in Section Z6.1 (Definitions).

Alternate has the meaning given to that expression in Section C5.19 (Alternates).

Alternative Proposal has the meaning given to that expression in Section D6.15 (Alternative Proposals).

Anomalous Event means, in relation to any System, an activity or event that is not expected to occur in the course of the ordinary operation of that System.

Anomaly Detection means:

Threshold

(a) in respect of a User, a number of communications within a period of time, where both that number and the period of time are set by the User;

(b) in respect of the DCC, either:

(i) a number of communications within a period of time, where both that number and the period of time are set by the DCC; or

(ii) a maximum or minimum data value within a communication, where that value is set by the DCC,

in each case in accordance with the requirements of Section G6 applying (respectively) to the User or the DCC.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Applicant	has the meaning given to that expression in Section B1.1 (Eligibility for Admission).
Application Fee	has the meaning given to that expression in Section B1.5 (Application Fee).
Application Form	means a form requesting the information set out in Schedule 5 (and which must not request any further information), in such format as the Code Administrator may determine from time to time.
Application Guidance	has the meaning given to that expression in Section B1.4 (Application Form and Guidance).
Application Server	means a software framework that enables software applications to be installed on an underlying operating system, where that software framework and operating system are both generally available either free of charge or on reasonable commercial terms.
Appropriate Permission	<p>means, in respect of a Communication Service or Local Command Service to be provided to a User in respect of a Smart Metering System at a premises that will result in the User obtaining Consumption Data, either:</p> <p>(a) (where that User is the Import Supplier, Export Supplier, Gas Supplier, Electricity Distributor or Gas Transporter for that Smart Metering System) that the User does not need consent to access that Consumption Data in accordance with its Energy Licence, or that the User has consent (whether explicit or implicit) in accordance with the requirements of its Energy Licence; or</p>

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) (where that User is not the Import Supplier, Export Supplier, Gas Supplier, Electricity Distributor or Gas Transporter for that Smart Metering System) that the Energy Consumer has given the User ~~explicit consent~~ Unambiguous Consent to obtain that Consumption Data and such consent has not been withdrawn.

Approved Budget

has the meaning given to that expression in Section C8.13 (Approval of Budgets).

Approved Finance Party

means, in respect of each Communications Hub Finance Facility, the person to whom the DCC accepts payment obligations under the Direct Agreement relating to that facility, and which has (from time to time) been notified by the DCC to the Authority and the Panel as meeting the requirements of this definition.

Associated

means:

- (a) in respect of a Smart Meter, that the Smart Meter is identified in the Smart Metering Inventory as being associated with a Communications Hub Function; and
- (b) in respect of any Device other than a Smart Meter or a Communications Hub Function, that the Device is identified in the Smart Metering Inventory as being associated with a Smart Meter or with a Gas Proxy Function,

and the expression “**Associate**” shall be interpreted accordingly.

Assurance Certificate

has the meaning given to that expression in Section F2.4 (Background to Assurance Certificates).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Assurance Certification Body	has the meaning given to that expression in Section F2.3 (Background to Assurance Certificates).
Authorised Business	in relation to the DCC, has the meaning given in the DCC Licence.
Authorised Subscriber	means SECCo, a Party or an RDP which is an Authorised Subscriber for the purposes of (and in accordance with the meaning given to that expression in) any of the Certificate Policies.
Authority	means the Gas and Electricity Markets Authority as established under section 1 of the Utilities Act 2000.
Back-Up	means, in relation to Data which is held on any System, the storage of a copy of that Data for the purpose of ensuring that the copy may be used (if required) to restore or replace the original Data; and “Backed-Up” is to be interpreted accordingly.
Bank Guarantee	means an on demand bank guarantee in a form reasonably acceptable to the DCC from a bank with the Required Bank Rating which guarantee has not been breached or disclaimed by the provider and has at least one month left until it expires.
Batched Certificate Signing Request	has the meaning given to that expression in Section L8.2 (SMKI Services: Target Response Times).
BCDR Procedure	means the Business Continuity and Disaster Recovery Procedure.
Bilateral Agreement	means an agreement entered into pursuant to Section H7 (Elective Communication Services) between the DCC and a User.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Business Architecture	means the business architecture which is designed to enable Parties to use the Services and/or to enable Parties, Energy Consumers and those acting on behalf of Energy Consumers to access the functionality described in the Technical Specifications.
Business Architecture Document	means a document that describes the Business Architecture.
Business Continuity and Disaster Recovery Procedure	means that part of the Incident Management Policy which describes the business continuity and disaster recovery procedures applicable to the Services.
Cash Deposit	means a deposit of funds by or on behalf of the User into a bank account in the name of the DCC, such that title in such funds transfers absolutely to the DCC.
Certificate	means a Device Certificate, DCA Certificate, Organisation Certificate, OCA Certificate, IKI Certificate or ICA Certificate.
Certificate Policy	means the Device Certificate Policy, the Organisation Certificate Policy, or the IKI Certificate Policy.
Certificate Signing Request	means a request for a Certificate submitted by an Eligible Subscriber in accordance with the SMKI RAPP.
Certified Products List	has the meaning given to that expression in Section F2.1 (Certified Products List).
CESG	means the UK Government's national technical authority for information assurance.
CESG CHECK	means the scheme of that name which is administered by CESG, or any successor to that scheme.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

CESG Listed Advisor Scheme (CLAS)	means the scheme of that name which is administered by CESG, or any successor to that scheme.
CESG Tailored Assurance Service (CTAS)	means the scheme of that name which is administered by CESG, or any successor to that scheme.
CH Batch Fault	has the meaning given to that expression in Section F9.20 (Liquidated Damages for CH Batch Faults).
CH Batch Fault Payment	has the meaning given to that expression in Section F9.21 (Liquidated Damages for CH Batch Faults).
CH Defect	means, in respect of a Communications Hub, any fault or defect in relation to the Communications Hub (including any failure: to conform in all respects with, and be fit for the purposes described in, the CHTS; to be free from any defect in design, manufacture, materials or workmanship; and to comply with all applicable Laws and/or Directives including with respect to product safety), which is not caused by a breach of this Code by a Party other than the DCC.
CH Fault Diagnosis	has the meaning given to that expression in Section F9.7 (CH Fault Diagnosis).
CH Handover Support Materials	means, in respect of each Region, the SEC Subsidiary Document of that name set out in Appendix H and applying to that Region, which document is originally to be developed pursuant to Section X8 (Developing CH Support Materials).
CH Installation and Maintenance Support Materials	means, in respect of each Region, the SEC Subsidiary Document of that name set out in Appendix [TBC] and applying to that Region, which document is originally to be developed pursuant to Section X8 (Developing

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

CH Support Materials).

CH Order Management System	means that part of the CH Ordering System described as the 'Order Management System' in the CH Handover Support Materials.
CH Ordering System	has the meaning given to that expression in Section F5.20 (CH Ordering System).
CH Post-Installation DCC Responsibility	has the meaning given to that expression in Section F9.6 (Categories of Responsibility).
CH Pre-Installation DCC Responsibility	has the meaning given to that expression in Section F9.6 (Categories of Responsibility).
CH Support Materials	means the CH Handover Support Materials and the CH Installation and Maintenance Support Materials.
CH Type Fault	has the meaning given to that expression in Section F9.16 (Liquidated Damages for CH Type Faults).
CH Type Fault Payment	has the meaning given to that expression in Section F9.19 (Liquidated Damages for CH Type Faults).
CH User Responsibility	has the meaning given to that expression in Section F9.6 (Categories of Responsibility).
Change Board	has the meaning given to that expression in Section D8.1 (Establishment of the Change Board).
Change Board Member	has the meaning given to that expression in Section D8.4 (Membership of the Change Board).
Charges	means the charges payable to the DCC pursuant to this Code (including pursuant to Bilateral Agreements).
Charging Methodology	means the methodology for determining the Charges, as set out in Section K (Charging Methodology).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Charging Objectives	has the meaning given to that expression in Section C1 (SEC Objectives).
Charging Statement	means, from time to time, the statement prepared by DCC pursuant to Condition 19 of the DCC Licence that is in force at that time.
Check Cryptographic Protection	<p>means, in respect of any electronic Data, to check the Digital Signature or Message Authentication Code within those Data (as applicable) using:</p> <ul style="list-style-type: none">(a) the Public Key contained in the certificate issued by the relevant Certificate Authority associated with the Private Key of the person or device that those Data identify, or imply has generated the Digital Signature;(b) where applicable, the recipient's relevant Private Key; and(c) the relevant algorithm identified in the certificate policy under which the relevant certificates were issued (or, where such certificate or certificate policy does not exist, the appropriate algorithm).
CHTS	means the Communications Hub Technical Specification.
Citizens Advice	means the National Association of Citizens Advice Bureaux.
Citizens Advice Scotland	means the Scottish Association of Citizens Advice Bureaux.
Code	means this Smart Energy Code (including its Schedules and the SEC Subsidiary Documents).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Code Administration Code of Practice means the document of that name as approved by the Authority from time to time.

Code Administration Code of Practice Principles means the principles set out as such in the Code Administration Code of Practice.

Code Administrator has the meaning given to that expression in Section C7.1 (Code Administrator).

Code Performance Measure means a performance measure set out in either Section H13.1 (Code Performance Measures) or Section L8.6 (Code Performance Measures).

Command means a communication to a Device in the format required by the GB Companion Specification and which incorporates all Digital Signatures and/or Message Authentication Codes required by the GB Companion Specification.

Commercial Activities includes, in particular, Energy Efficiency Services, Energy Management Services, Energy Metering Services, and Energy Price Comparison Services, in each case as defined in the DCC Licence and in relation to the Supply of Energy (or its use) under the Electricity Act and the Gas Act.

Commissioned means, in respect of a Device, that:

- (a) the Device has been commissioned in accordance with the Smart Metering Inventory Enrolment and Withdrawal Procedures; and
- (b) the Device has not subsequently been Decommissioned, Withdrawn or Suspended,

and "**Commission**" is to be interpreted in accordance with (a) above. A Communications Hub shall be

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

considered to be Commissioned where the Communications Hub Function that forms part of that Communications Hub is Commissioned.

Common Test Scenarios Document

means the SEC Subsidiary Document set out in Appendix R, which is originally to be developed pursuant to Section T6 (Development of Enduring Testing Documents).

Communication Services

means the Core Communication Services or the Elective Communication Services.

Communications Hub

means a physical device that includes a Communications Hub Function together with a Gas Proxy Function; save that, when such expression is used in relation to the following provisions, such expression shall be interpreted in accordance with the definition of that expression in the DCC Licence:

- (a) the definitions of "CH Defect" and "Test Communications Hub"; and
- (b) Sections F5 (Communications Hub Forecasts & Orders), F6 (Delivery and Acceptance of Communications Hub Orders) and F10 (Test Communications Hubs).

Communications Hub Auxiliary Equipment

means any additional, replacement or spare equipment or packaging (not forming part of a Communications Hub) that may be required by a Supplier Party in relation to the installation, maintenance or return of a Communications Hub, as listed by the DCC on the CH Ordering System from time to time.

Communications Hub Charges

has the meaning given to the expression 'Fixed CH Charges' in Section K (Charging Methodology).

Communications Hub Finance Acceleration Event means, in respect of each Communications Hub Finance Facility, that:

- (a) an acceleration of repayment of the indebtedness thereunder occurs such that it is immediately due and payable by the borrower in circumstances where the DCC is liable for the same under the Direct Agreement; or
- (b) the DCC becomes liable under the Direct Agreement to immediately pay the unamortised asset value (and any associated finance costs in respect) of the Communications Hubs to which that facility relates.

Communications Hub Finance Charges means, in respect of each Communications Hub Finance Facility, the DCC's charge to recover the applicable Communications Hub Finance Costs (being a subset of the Communications Hub Charges), in an amount each month determined by the DCC at the time it produces an Invoice for that month (having regard to the requirements of Condition 36.5 of the DCC Licence).

Communications Hub Finance Costs means, in respect of each Communications Hub Finance Facility, the costs the DCC incurs in procuring the provision (but not the maintenance) of the tranche of Communications Hubs to which that facility relates.

Communications Hub Finance Facility means a facility arranged by a DCC Service Provider with an Approved Finance Party relating exclusively to the funding of the costs associated with acquiring a tranche of Communications Hubs, including by way of a loan facility, an equity subscription, or an assignment or sale of receivables.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Communications Hub Forecast	has the meaning given to that expression in Section F5.2 (Communications Hub Forecasts).
Communications Hub Function	<p>means that part of a device installed (or to be installed) at a premises, which:</p> <ul style="list-style-type: none">(a) consists of the components or other apparatus identified in; and(b) as a minimum, has the functional capability specified by and complies with the other requirements of, <p>a version of the CHTS (but excluding those provisions that are described as applying only to 'Gas Proxy Functions') which was a Valid Technical Specification on the date on which the device was installed.</p>
Communications Hub Hot Shoe	means equipment, other than a Smart Meter, to which a Communications Hub can be connected (provided the Communications Hub complies with the ICHIS).
Communications Hub Order	has the meaning given to that expression in Section F5.7 (Communications Hub Orders).
Communications Hub Products	means, in respect of a Valid Communications Hub Order, the Communications Hubs of the applicable Device Models that are the subject of that order and/or the Communications Hub Auxiliary Equipment that is the subject of that order.
Communications Hub Services	means those Services described in Sections F5 (Communications Hub Forecasts & Orders), F6 (Delivery and Acceptance of Communications Hub), F7 (Installation and Maintenance of Communications Hubs), F8 (Removal and Return of Communications Hubs), and F9 (Categories of Communications Hub

Responsibility).

Communications Hub

means the document(s) set out in Schedule [TBC].

Technical Specification

Competent Authority

means the Secretary of State, the Authority, and any local or regional or national agency, authority, department, inspectorate, minister, ministry, official or public or statutory person (whether autonomous or not) of the government of the United Kingdom or of the European Union (but only insofar as each has jurisdiction over the relevant Party, this Code or its subject matter).

**Completion of
Implementation**

has the meaning given to that expression in Section X1 (General Provisions Regarding Transition).

Compromised

means:

- (a) in relation to any System, that the intended purpose or effective operation of that System is compromised by the occurrence of any event which has an adverse effect on the confidentiality, integrity or availability of the System or of any Data that are stored on or communicated by means of it;
- (b) in relation to any Device, that the intended purpose or effective operation of that Device is compromised by the occurrence of any event which has an adverse effect on the confidentiality, integrity or availability of the Device or of any Data that are stored on or communicated by means of it;
- (c) in relation to any Data, that the confidentiality, integrity or availability of that Data is

adversely affected by the occurrence of any event;

- (d) in relation to any Secret Key Material, that that Secret Key Material (or any part of it), or any Cryptographic Module within which it is stored, is accessed by, or has become accessible to, a person not authorised to access it;
- (e) in relation to any Certificate, that any of the following Private Keys is Compromised:
 - (i) the Private Key associated with the Public Key that is contained within that Certificate;
 - (ii) the Private Key used by the relevant Certification Authority to Digitally Sign the Certificate; or
 - (iii) where relevant, the Private Key used by the relevant Certification Authority to Digitally Sign the Certification Authority Certificate associated with the Private Key referred to in (ii); and
- (f) in relation to any DCKKI Certificate, that any of the following Private Keys is Compromised:
 - (i) the Private Key associated with the Public Key that is contained within that DCKKI Certificate;
 - (ii) the Private Key used by the DCKKICA to Digitally Sign the DCKKI Certificate; or
 - (iii) where relevant, the Private Key used by

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the DCCKICA to Digitally Sign the DCCKICA Certificate associated with the Private Key referred to in (ii); and

- (g) in relation to any process or to the functionality of any hardware, firmware or software, that the intended purpose or effective operation of that process or functionality is compromised by the occurrence of any event which has an adverse effect on its confidentiality, integrity or availability,

(and “**Compromise**” and “**Compromising**” are to be interpreted accordingly).

Confidential Information

means, in respect of a Party other than DCC, the Data belonging or relating to that Party or that otherwise becomes available to the DCC as a result (whether directly or indirectly) of that Party being a party to this Code.

Confirm Validity

means:

- (a) where the person carrying out the check has not previously done so in relation to a particular certificate, to successfully confirm the certificate path validation by using:
 - (i) the path validation algorithm specified in IETF RFC 5280; or
 - (ii) where the algorithm identified in IETF RFC 5280 is not appropriate for the certificate for which validity is being confirmed, such other certificate path validation as is appropriate in relation to that type of certificate; or

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) where the person carrying out the check has previously carried out the check in paragraph (a) in relation to a particular certificate, that the certificate has not subsequently been revoked, and its validity period has not expired.

Consignment	has the meaning given to that expression in Section F5.9 (Communications Hub Orders).
Consultation Summary	has the meaning given to that expression in Section D6.14 (Working Group Consultation).
Consumer Data	has the meaning given to that expression in Section M5.6 (Consumer Data).
Consumer Member	has the meaning given to that expression in Section C3.1 (Panel Composition).
Consumer Prices Index	means, in respect of any month, the consumer prices index (CPI) published for that month by the Office of National Statistics.
Consumption Data	means, in respect of a premises, the quantity of electricity or gas measured by the Energy Meter as having been supplied to the premises.
Contingency Key Pair	has the meaning given to that expression in Section L10.30(e) (Definitions).
Contingency Private Key	has the meaning given to that expression in Section L10.30(e)(i) (Definitions).
Contingency Public Key	has the meaning given to that expression in Section L10.30(e)(ii) (Definitions).
Core Communication Services	means the provision of the Services set out in the DCC User Interface Services Schedule, but excluding the

Enrolment Services and Local Command Services.

Correlate

means, in respect of one or more Pre-Commands received by a User from the DCC in respect of a Service Request sent by that User, carrying out a process to check that the relevant contents of the Pre-Command is substantively identical to that of the Service Request using either (at the User’s discretion):

- (a) the Parse and Correlate Software; or
- (b) equivalent software procured or developed by the User in accordance with Good Industry Practice,

and “**Correlated**” shall be interpreted accordingly.

CoS Party

means the DCC when performing the tasks ascribed to the CoS Party in the Service Request Processing Document.

**CPA Assurance
Maintenance Plan**

means the document agreed with the CESG that describes the components of a device which, if changed, will require a new CPA Certificate to be issued.

CPA Certificates

has the meaning given to that expression in Section F2.4 (Background to Assurance Certificates).

**CPL Requirements
Document**

means the SEC Subsidiary Document of that name set out as Appendix [TBC].

Credit Assessment Score

means, in respect of a User, a credit assessment score in respect of that User procured from one of the credit assessment companies named in Section J3.8 (User’s Credit Cover Factor). Where more than one credit assessment product is listed in respect of that company, it shall be the score determined in

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

accordance with the listed product that the DCC reasonably considers the most appropriate for the User.

Credit Cover Factor has the meaning given to that expression in Section J3.4 (User’s Credit Cover Factor).

Credit Cover Requirement has the meaning given to that expression in Section J3.2 (Calculation of Credit Cover Requirement).

Credit Cover Threshold means, in respect of each Regulatory Year, £2,000, multiplied by the Consumer Prices Index for the October preceding the start of that Regulatory Year, divided by the Consumer Prices Index for October 2014. The relevant amount will be rounded to the nearest pound.

Credit Support means one or more of a Bank Guarantee, Cash Deposit and/or Letter of Credit procured by a User pursuant to Section J3 (Credit Cover).

CREST means the not-for-profit company registered in the United Kingdom with company number 06024007.

Critical Command has the meaning given to that expression in the GB Companion Specification.

Critical Service Request means a Service Request which is identified as critical in the DCC User Interface Specification (or, in the case of Elective Communication Services, the relevant Bilateral Agreement).

Critical Service Response means a Service Response in respect of a Critical Service Request.

Cryptographic Credential Token means a token compliant with FIPS 140-2 Level 3 (or any equivalent to that Federal Information Processing

Standard which updates or replaces it from time to time) and containing Secret Key Material, as issued in accordance with the SMKI RAPP.

Cryptographic Hash Function

means an algorithm:

- (a) the inputs to which it would be computationally infeasible to determine from knowledge of its outputs; and
- (b) in relation to which it would be computationally infeasible to find an input which generates the same output as any other input.

Cryptographic Module

means a set of hardware, software and/or firmware that is Separated from all other Systems and that is designed for:

- (a) the secure storage of Secret Key Material; and
- (b) the implementation of Cryptographic Processing without revealing Secret Key Material.

Cryptographic Processing

means the generation, storage or use of any Secret Key Material.

CSV file

has the meaning given to that expression in the Threshold Anomaly Detection Procedures.

Data

means any information, data, knowledge, figures, methodologies, minutes, reports, forecasts, images or sounds (together with any database made up of any of these) embodied in any medium (whether tangible or electronic).

Data Protection Act

means the Data Protection Act 1998.

Data Retention Policy

means a document developed and maintained by a Party which sets out, in relation to Data held by that

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Party, the periods for which such Data will be held by it for the purpose of ensuring that it is able to satisfy its legal, contractual and commercial requirements in respect of the Data.

DCA Certificate has the meaning given to that expression in Annex A of the Device Certificate Policy.

DCC means, subject to Section M9 (Transfer of DCC Licence), the holder from time to time of the DCC Licence. In accordance with Section A2.1(l), references to the DCC shall (where applicable) include references to the DCC Service Providers with whom the DCC has contracted in order to secure performance of its obligations under this Code.

DCC Alert has the meaning given to that expression in the DCC User Interface Specification.

DCC Gateway Bandwidth Option means a DCC Gateway HV Connection or a DCC Gateway LV Connection.

DCC Gateway Connection means, for a premises, the physical infrastructure by which a connection is (or is to be) made between that premises and the DCC Systems (and each DCC Gateway Connection shall form part of the DCC Systems).

DCC Gateway Connection Code of Connection means the SEC Subsidiary Document set out in Appendix G.

DCC Gateway Equipment means, for each premises and any DCC Gateway Connection provided at that premises, that part of the DCC Gateway Connection that is (or is to be) located within that premises.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

DCC Gateway HV Connection	means the high-volume technology solution by which the DCC provides DCC Gateway Connections, as further described in the DCC Gateway Connection Code of Connection.
DCC Gateway LV Connection	means the low-volume technology solution by which the DCC provides DCC Gateway Connections, as further described in the DCC Gateway Connection Code of Connection.
DCC Gateway Party	means a Party that is seeking or has been provided with a DCC Gateway Connection at its premises, or to whom the right to use that connection has been transferred in accordance with Section H15.16 (Use of a DCC Gateway Connection).
DCC ID	means each identification number established by the DCC pursuant to Section H4.43 (DCC IDs).
DCC Independent Security Assessment Arrangements	has the meaning given to that expression in Section G9.1 (The DCC Independent Security Assessment Arrangements).
DCC Independent Security Assurance Service Provider	has the meaning given to that expression in Section G9.4 (The DCC Independent Security Assurance Service Provider).
DCC Interfaces	means each and every one of the following interfaces: <ul style="list-style-type: none">(a) the DCC User Interface;(b) the Registration Data Interface;(c) the SMKI Repository Interface;(d) the SMKI Services Interface;

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (e) the Self-Service Interface; and
- (f) the communications interfaces used for the purposes of accessing those Testing Services designed to be accessed via DCC Gateway Connections.

DCC Internal Systems means those aspects of the DCC Total System for which the specification or design is not set out in this Code.

DCC IT Supporting Systems means, with regard to the DCC's duty to Separate parts of the DCC Total System, those parts of the DCC Total System which are used to support the DCC Live Systems and DCC IT Testing and Training Systems.

DCC IT Testing and Training Systems means, with regard to the DCC's duty to Separate parts of the DCC Total System, those parts of the DCC Total System which are used to support the testing and training of DCC Personnel and third parties in relation to the provision of Services by the DCC.

DCC Key Infrastructure (or DCKI) means the public key infrastructure established by DCC to provide, amongst other things, transport layer security across DCC Gateway Connections.

DCC Licence means the licences granted under section 6(1A) of the Electricity Act and section 7AB(2) of the Gas Act.

DCC Live Systems means, with regard to the DCC's duty to Separate parts of the DCC Total System, those parts of the DCC Total System which are used for the purposes of:

- (a) (other than to the extent to which the activities fall within paragraph (b), (c) or (f) below) processing Service Requests, Pre-Commands,

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Commands, Service Responses and Alerts, holding or using Registration Data for the purposes of processing Service Requests and Signed Pre-Commands, and providing the Repository Service;

- (b) Threshold Anomaly Detection and (other than to the extent to which the activity falls within paragraph (d) or (f) below) Cryptographic Processing relating to the generation and use of a Message Authentication Code;
- (c) discharging the obligations placed on the DCC in its capacity as CoS Party;
- (d) providing SMKI Services;
- (e) the Self-Service Interface; and
- (f) discharging the DCC's obligations under the SMKI Recovery Procedure,

each of which shall be treated as an individual System within the DCC Live Systems.

DCC Member has the meaning given to that expression in Section C3.1 (Panel Composition).

DCC Personnel means those persons who are engaged by the DCC, in so far as such persons carry out, or are authorised to carry out, any activity in relation to the Authorised Business.

DCC Release Management Policy has the meaning given to that expression in Section H8.9 (Release Management).

DCC Security Assessment Report has the meaning given to that expression in Section G9.7(a) (DCC Security Assessment Reports and Responses).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

DCC Security Assessment Response	has the meaning given to that expression in Section G9.7(b) (DCC Security Assessment Reports and Responses).
DCC Service Provider	means an External Service Provider, as defined in the DCC Licence (but always excluding the DCC itself).
DCC Service Provider Contract	means, as between the DCC and each DCC Service Provider, any arrangement (however described) pursuant to which the DCC procures services for the purpose of providing the Services.
DCC Systems	means the DCC Total System, including the SM WAN but excluding all Communications Hubs.
DCC Total System	means the Systems used by the DCC and/or the DCC Service Providers in relation to the Services and/or this Code, including the DCC User Interface, SM WAN and Communications Hubs except for those Communications Hubs which are: (a) neither installed nor in the possession of the DCC; or (b) installed, but are not Commissioned.
DCC User Interface	means the communications interface designed to allow the communications referred to in Section H3.3 (Communications to be sent via the DCC User Interface) to be sent between the DCC and Users.
DCC User Interface Code of Connection	means the SEC Subsidiary Document of that name set out in Appendix [TBC].
DCC User Interface Services	means the Services described in the DCC User Interface Services Schedule.
DCC User Interface	means the SEC Subsidiary Document of that name set

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Services Schedule	out in Appendix [TBC].
DCC User Interface Specification	means the SEC Subsidiary Document set out in Appendix [TBC].
DCC Website	means the DCC’s publicly available website (or, where the Panel and the DCC so agree, the Website).
DCCKI Authorised Subscriber	means a Party or RDP which is a DCCKI Authorised Subscriber for the purposes of (and in accordance with the meaning given to that expression in) the DCCKI Certificate Policy.
DCCKI Authority Revocation List (or DCCKI ARL)	has the meaning given to that expression in the DCCKI Certificate Policy.
DCCKICA Certificate	has the meaning given to that expression in the DCCKI Certificate Policy.
DCCKI Certificate	has the meaning given to that expression in the DCCKI Certificate Policy.
DCCKI Certificate Policy	means the SEC Subsidiary Document of that name set out in Appendix [TBD].
DCCKI Certificate Revocation List (or DCCKI CRL)	has the meaning given to that expression in the DCCKI Certificate Policy.
DCCKI Certificate Signing Request	means a request for a DCCKI Certificate submitted by a DCCKI Eligible Subscriber in accordance with the DCCKI Certificate Policy and the DCCKI RAPP.
DCCKI Certification Authority (or DCCKICA)	has the meaning given to that expression in the DCCKI Certificate Policy.
DCCKI Certification	has the meaning given to that expression in Section

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Practice Statement (or DCCKI CPS)	L13.37 (the DCCKI Certification Practice Statement).
DCCKI Code of Connection	means the SEC Subsidiary Document of that name set out in Appendix [TBD], which: <ul style="list-style-type: none">(a) has the purpose described in Section L13.14 (DCCKI Code of Connection); and(b) is originally to be developed pursuant to Sections L13.15 to L13.16 (DCCKI Interface Document Development).
DCCKI Document Set	has the meaning given to that expression in Section L13.33 (the DCCKI Document Set).
DCCKI Eligible Subscriber	has the meaning given to that expression in Section L13.8 (DCCKI Eligible Subscribers).
DCCKI Infrastructure Certificate	has the meaning given to that expression in the DCCKI Certificate Policy.
DCCKI Interface Design Specification	means the SEC Subsidiary Document of that name set out in Appendix [TBD], which: <ul style="list-style-type: none">(a) has the purpose described in Section L13.13 (DCCKI Interface Design Specification); and(b) is originally to be developed pursuant to Sections L13.15 to L13.16 (DCCKI Interface Document Development).
DCCKI Participants	means the DCC (acting in its capacity as the provider of the DCCKI Services), all DCCKI Subscribers and all DCCKI Relying Parties.
DCCKI PMA Functions	has the meaning given to that expression in Section L13.54 (the DCCKI PMA Functions).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

DCCKI Registration Authority	means the DCC, acting in its capacity as such for the purposes of (and in accordance with the meaning given to that expression in) the DCCKI Certificate Policy.
DCCKI Registration Authority Policies and Procedures (or DCCKI RAPP)	means the SEC Subsidiary Document of that name set out in Appendix [TBD], which is originally to be developed pursuant to Sections L13.35 to L13.36 (the DCCKI Registration Authority Policies and Procedures: Document Development).
DCCKI Relying Party	means a person who, pursuant to the Code, receives and relies upon a DCCKI Certificate.
DCCKI Repository	has the meaning given to that expression in Section L13.17 (the DCCKI Repository).
DCCKI Repository Code of Connection	means the SEC Subsidiary Document of that name set out in Appendix [TBD], which: (a) has the purpose described in Section L13.28 (DCCKI Repository Code of Connection); and (b) is originally to be developed pursuant to Sections L13.29 to L13.30 (DCCKI Repository Interface Document Development).
DCCKI Repository Interface	has the meaning given to that expression in Section L13.26 (the DCCKI Repository Interface).
DCCKI Repository Interface Design Specification	means the SEC Subsidiary Document of that name set out in Appendix [TBD], which: (a) has the purpose described in Section L13.27 (DCCKI Repository Interface Design Specification); and (b) is originally to be developed pursuant to

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Sections L13.29 to L13.30 (DCCKI Repository Interface Document Development).

DCCKI Repository Service has the meaning given to that expression in Section L13.18 (the DCCKI Repository Service).

DCCKI SEC Documents has the meaning given to that expression in Section L13.34 (the DCCKI SEC Documents).

~~**DCCKI Services** has the meaning given to that expression in Section L13.1 (the DCCKI Services).~~

DCCKI Service Interface has the meaning given to that expression in Section L13.12 (the DCCKI Service Interface).

~~**DCCKI Services** has the meaning given to that expression in Section L13.1 (the DCCKI Services).~~

DCCKI Subscriber means, in relation to any DCCKI Certificate, a Party or RDP which has been Issued with and accepted that Certificate, acting in its capacity as the holder of the Certificate.

~~**DCCKICA Certificate** has the meaning given to that expression in the DCCKI Certificate Policy.~~

Decommissioned means, in respect of a Device that has previously been Commissioned, that the Device has been decommissioned in accordance with Section H6.1 (Decommissioning).

Default Interest Rate means, for any day, 8% above the base lending rate of the Bank of England at 13.00 hours on that day.

Defaulting Party has the meaning given to that expression in Section M8.1 (Events of Default).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Delivery Batch	means all the Communications Hubs that were delivered pursuant to Section F6 (Delivery and Acceptance of Communications Hubs) to a single location during a month (regardless of whether they were delivered pursuant to more than one Communications Hub Order by more than one Party).
Delivery Date	has the meaning given to that expression in Section F5.8 (Communications Hub Orders).
Delivery Location	has the meaning given to that expression in Section F5.8 (Communications Hub Orders).
Delivery Month	has the meaning given to that expression in Section F5.8 (Communications Hub Orders).
Delivery Quantity	has the meaning given to that expression in Section F5.8 (Communications Hub Orders).
Delivery Window	means, for each delivery of Communications Hub Products to a Delivery Location, the time period on the applicable Delivery Date within which the DCC is to deliver the Communications Hub Products, as established in accordance with the CH Handover Support Materials.
Denial of Service Event	means any unauthorised attempt to make any part of a System wholly or partially unavailable for use for a period of time.
Designated Premises	means Non-Domestic Premises defined as Designated Premises within the meaning given to that expression in the Electricity Supply Licences or the Gas Supply Licences.
Detailed Evaluation	has the meaning given to that expression in Section

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H7.7 (Detailed Evaluation of Elective Communication Services).

Device	means one of the following individual devices: (a) an Electricity Smart Meter; (b) a Gas Smart Meter; (c) a Communications Hub Function; (d) a Gas Proxy Function; (e) a Pre-Payment Meter Interface Device; (f) a HAN Connected Auxiliary Load Control Switch; and (g) any Type 2 Device.
Device Alert	has the meaning given to that expression in the DCC User Interface Specification.
Device and User System Tests	has the meaning given to that expression in Section H14.31 (Device and User System Tests).
Device Certificate	has the meaning given to that expression in Annex A of the Device Certificate Policy.
Device Certificate Policy	means the SEC Subsidiary Document of that name set out in Appendix A.
Device Certification Authority (or DCA)	has the meaning given to that expression in Annex A of the Device Certificate Policy.
Device Certification Practice Statement (or Device CPS)	has the meaning given to that expression in Section L9.8 (the Device Certification Practice Statement).
Device ID	means the unique number by which an individual Device can be identified, as allocated to that Device in accordance with the applicable Technical Specification.
Device Log	means, in respect of a Device (excluding Type 2 Devices), the electronic record within that Device which records the other Devices from which that

Device can receive Data via the HAN.

Device Model	means, in respect of a Communications Hub or a Device (other than a Communications Hub Function or a Gas Proxy Function), the Manufacturer, the model, the hardware version and the firmware version of the Communications Hub or Device.
Device Security Credentials	means, in respect of any Device (other than a Type 2 Device), the Device's active Device Certificates and the electronic record within that Device of information from any other Certificates required to be held on the Device in order to execute the functionality of that Device specified in the GB Companion Specification.
Device Selection Methodology	has the meaning given to that expression in Section T1.3 (Device Selection Methodology).
Device Type	means, in respect of a Device, a generic description of the category of Devices into which the Device falls.
Digital Signature	means, in respect of any electronic Data, a digital signature generated using: <ul style="list-style-type: none">(a) the entirety of those Data (excluding the digital signature itself and, to the extent specified in the code, any other parts of those Data);(b) a Private Key; and(c) the signature algorithm defined in the certificate profile in the certificate policy under which the certificate associated with that Private Key was issued or (where such certificate policy does not exist) the signature algorithm relevant to that certificate.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Digitally Signed	means, in respect of any electronic Data, that such Data have had the necessary Digital Signatures applied to them (and “ Digitally Sign ” and “ Digitally Signing ” are to be interpreted accordingly).
Direct Agreement	means, in respect of each Communications Hub Finance Facility, any agreement entered into by the DCC in relation to that facility under which the DCC owes direct payment obligations.
Disaster	means an event that causes one or more of the 'DCC Disaster Impacts' listed in the BCDR Procedure.
Dispute	means any dispute or difference (of whatever nature) arising under, out of or in connection with this Code and/or any Bilateral Agreement.
DLMS Certificates	has the meaning given to that expression in Section F2.4 (Background to Assurance Certificates).
DLMS User Association	means the association of that name located in Switzerland (see - www.dlms.com).
Domestic Premises	means premises at which a Supply of Energy is or will be taken wholly or mainly for domestic purposes, which is to be interpreted in accordance with Condition 6 of the relevant Energy Supply Licence.
Draft Budget	has the meaning given to that expression in Section C8.11 (Preparation of Draft Budgets).
Due Date	has the meaning given to that expression in Section J1.5 (Payment of Charges).
EII DCCKICA Certificate	has the meaning given to that expression in the DCCKI Certificate Policy.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Elected Members	has the meaning given to that expression in Section C3.1 (Panel Composition).
Elective Communication Services	means the provision of communication services that are (or are to be) defined in a Bilateral Agreement (rather than the DCC User Interface Services Schedule) in a manner that involves communication via the SM WAN (provided that such services must relate solely to the Supply of Energy or its use).
Electricity Act	means the Electricity Act 1989.
Electricity Distribution Licence	means a licence granted, or treated as granted, under section 6(1)(c) of the Electricity Act.
Electricity Distributor	means, for a Smart Metering System or a Device, the holder of the Electricity Distribution Licence for the network to which the relevant premises are connected.
Electricity Meter	means any meter that conforms to the requirements of paragraph 2 of schedule 7 to the Electricity Act and is used for the purpose of measuring the quantity of electricity that is supplied to premises.
Electricity Network Party	means a Party that holds an Electricity Distribution Licence.
Electricity Smart Meter	means a device installed (or to be installed) at a premises, which: (a) consists of the components or other apparatus identified in; and (b) as a minimum, has the functional capability specified by and complies with the other requirements of, the part(s) of the SMETS identified as applying to

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

'Electricity Smart Metering Equipment' (and, where applicable, the part(s) relevant to the Physical Device Type in question) in a version of the SMETS which was the Valid Technical Specification on the date on which the device was installed. Devices that meet the requirements of the version of the SMETS that was designated on 18 December 2012 (and amended and restated on 31 March 2014) are not currently included within this definition.

Electricity Supplier Party	means a Party that holds an Electricity Supply Licence (regardless of whether that Party also holds a Gas Supply Licence).
Electricity Supply Licence	means a licence granted, or treated as granted, pursuant to section 6(1)(d) of the Electricity Act.
Eligible Subscriber	has the meaning given to that expression in Section L3.15 (Eligible Subscribers).
Eligible User	means, in respect of a Service set out in the DCC User Interface Services Schedule or an Elective Communication Service and (in either case) a Smart Metering System (or a Device forming, or to form, part of a Smart Metering System), one of the Users eligible to receive that Service in respect of that Smart Metering System (or such a Device), as further described in Section H3.8 (Eligibility for Services).
Eligible User Role	means, in respect of a Service set out in the DCC User Interface Services Schedule or an Elective Communication Service, one of the User Roles that is capable of being an Eligible User in respect of that Service (determined without reference to a particular Smart Metering System or Device).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Enabling Services	means one or more of the Enrolment Service, the Communications Hub Service, and the Other Enabling Services.
Encrypt	means, in respect of Section H4 (Processing Service Requests), the process of encoding Data using the methods set out for that purpose in the GB Companion Specification; and “ Encrypted ” shall be interpreted accordingly.
End-to-End Security Architecture	means a document that describes how the security controls in respect of smart metering relate to the architecture of the End-to-End Smart Metering System.
End-to-End Smart Metering System	means the DCC Total System, all Enrolled Smart Metering Systems, all User Systems and all RDP Systems.
End-to-End Technical Architecture	means the DCC Systems and the Smart Metering Systems together, including as documented in the Technical Code Specifications.
End-to-End Testing	means the testing described in Section T4 (End-to-End Testing).
End-to-End Testing Approach Document	has the meaning given to that expression in Section T4.4 (End-to-End Testing Approach Document).
Enduring Testing Approach Document	means the SEC Subsidiary Document set out in Appendix J, which is originally to be developed pursuant to Section T6 (Development of Enduring Testing Documents).
Energy Code	means a multilateral code or agreement maintained pursuant to one or more of the Energy Licences.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Energy Consumer	means a person who receives, or wishes to receive, a Supply of Energy at any premises in Great Britain.
Energy Licence	means a licence that is granted, or treated as granted, under section 6 of the Electricity Act or under section 7, 7A or 7AB of the Gas Act.
Energy Meter	means an Electricity Meter or a Gas Meter.
Energy Supply Licence	means an Electricity Supply Licence or a Gas Supply Licence.
Enrolment	means, in respect of a Smart Metering System, the act of enrolling that Smart Metering System in accordance with the Enrolment Service (and the words “ Enrol ” and “ Enrolled ” will be interpreted accordingly). Enrolment of a Smart Metering System ends on its Withdrawal.
Enrolment Service	means the Service described in Section H5 (Enrolment Services and the Smart Metering Inventory).
EU Regulations	means: <ul style="list-style-type: none">(a) Regulation 2009/714/EC of the European Parliament and of the Council of 13 July 2009 on conditions for access to the network for cross-border exchange in electricity and repealing Regulation 2003/1228/EC; and(b) Regulation 2009/715/EC of the European Parliament and of the Council of 13 July 2009 on conditions for access to the national gas transmission networks and repealing Regulation 2005/1775/EC, as amended by Commission Decision 2010/685/EU of 10 November 2010 amending Chapter 3 of Annex I to Regulation

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

2009/715/EC of the European Parliament and of the Council on conditions for access to the natural gas transmission networks.

EUI-64 Compliant means a 64-bit globally unique identifier governed by the Institute of Electrical and Electronics Engineers.

Event of Default has the meaning given to that expression in Section M8.1 (Events of Default).

Export MPAN means an MPAN for a Metering Point relating to the export of electricity from a premises.

Export Supplier means, for a Smart Metering System or a Device and any period of or point in time, the Supplier Party Registered during that period of or at that point in time in respect of the Export MPAN relating to that Smart Metering System or Device (but excluding Smart Metering Systems or Devices for which there is no related Import MPAN, in which circumstance such Registered Supplier Party is deemed to be the Import Supplier in accordance with the definition thereof).

Fast-Track Modifications has the meaning given to that expression in Section D2.8 (Fast-Track Modifications).

File Signing Certificate has the meaning given to that expression in the IKI Certificate Policy.

File Signing Software means software provided by the DCC for the purposes of enabling a Party to apply a Digital Signature to a CSV File.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Firmware Hash	means the result of the application of a hash function, such function being a repeatable process to create a fixed size and condensed representation of a message using the SHA-256 algorithm as specified in the US Government’s Federal Information Processing Standards document 180-4.
Fixed Charges	has the meaning given to that expression in the Charging Methodology.
Follow-up Security Assessment	has the meaning given to that expression in Section G8.19 (Categories of Security Assurance Assessment).
Force Majeure	means, in respect of any Party (the Affected Party), any event or circumstance which is beyond the reasonable control of the Affected Party, but only to the extent such event or circumstance (or its consequences) could not have been prevented or avoided had the Affected Party acted in accordance with Good Industry Practice. Neither lack of funds nor strikes or other industrial disturbances affecting only the employees of the Affected Party and/or its contractors shall be interpreted as an event or circumstance beyond the Affected Party’s control.
Forum Sub-Group	has the meaning given to that expression in Section Z6.1 (Definitions).
Framework Agreement	means an agreement in the form set out in Schedule 1.
Full Privacy Assessment	has the meaning given to that expression in Section I2.12 (Categories of Assessment).
Full User Security Assessment	has the meaning given to that expression in Section G8.16 (Categories of Security Assurance Assessment).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Future-Dated Services	has the meaning given to that expression in Section H3.11 (Categories of Services).
Gas Act	means the Gas Act 1986.
Gas Meter	means a meter that conforms to the requirements of section 17(1) of the Gas Act for the purpose of registering the quantity of gas supplied through pipes to premises.
Gas Network Party	means a Party that holds a Gas Transporter Licence.
Gas Proxy Function	<p>means that part of a device installed (or to be installed) at a premises, which:</p> <ul style="list-style-type: none">(a) consists of the components or other apparatus identified in; and(b) as a minimum, has the functional capability specified by and complies with the other requirements of, <p>a version of the CHTS (but only those provisions that are described as applying to 'Gas Proxy Functions') which was a Valid Technical Specification on the date on which the device was installed.</p>
Gas Smart Meter	<p>means a device installed (or to be installed) at a premises, which:</p> <ul style="list-style-type: none">(a) consists of the components or other apparatus identified in; and(b) as a minimum, has the functional capability specified by and complies with the other requirements of, <p>the part(s) of the SMETS identified as applying to 'Gas Smart Metering Equipment' in a version of the SMETS</p>

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

which was a Valid Technical Specification on the date on which the device was installed. Devices that meet the requirements of the version of the SMETS that was designated on 18 December 2012 (and amended and restated on 31 March 2014) are not currently included within this definition.

Gas Supplier	means, for a Smart Metering System or a Device and any period of or point in time, the Supplier Party Registered during that period of or at that point in time in respect of the MPRN relating to that Smart Metering System or Device.
Gas Supplier Party	means a Party that holds a Gas Supply Licence (regardless of whether that Party also holds an Electricity Supply Licence).
Gas Supply Licence	means a licence granted, or treated as granted, pursuant to section 7A(1) of the Gas Act.
Gas Transporter	means, for a Smart Metering System or a Device, the holder of the Gas Transporter Licence for the network to which the relevant premises are connected.
Gas Transporter Licence	means a licence granted, or treated as granted, under section 7 of the Gas Act (but not the licence in respect of the National Transmission System, as defined in the UNC).
GB Companion Specification (or “GBCS”)	means the document of that name set out in Schedule [TBC].
GBCS Payload	means the content of a Pre-Command, Signed Pre-Command, Service Response or Device Alert which is set out in the format required by the GB Companion Specification.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

General SEC Objectives has the meaning given to that expression in Section C1 (SEC Objectives).

Good Industry Practice means, in respect of a Party, the exercise of that degree of skill, diligence, prudence and foresight which would reasonably and ordinarily be expected from a skilled and experienced person engaged in a similar type of undertaking as that Party under the same or similar circumstances.

Greenhouse Gas Emissions means emissions of Greenhouse Gases, as defined in section 92 of the Climate Change Act 2008.

Hash ~~means the result of the application of a hash function, such function being a repeatable process to create a fixed size and condensed representation of a message using the SHA-256 algorithm as specified in the US Government's Federal Information Processing Standards document 180-4.~~

HAN means, for each Smart Metering System, the home area network created by the Communications Hub Function forming part of that Smart Metering System.

HAN Connected Auxiliary Load Control Switch means a device installed (or to be installed) at a premises, which:

- (a) consists of the components or other apparatus identified in; and
- (b) as a minimum, has the functional capability specified by and complies with the other requirements of,

a version of the HCALCS Technical Specification which was a Valid Technical Specification on the date on which the device was installed.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

HAN Requirements means the requirements with respect to the HAN provided for in the Energy Licences and this Code.

HAN Variants means the variations of Communications Hub that are necessary to enable communication via each HAN Interface (as defined in the CHTS).

Hash means the result of the application of a hash function, such function being a repeatable process to create a fixed size and condensed representation of a message using the SHA-256 algorithm as specified in the US Government's Federal Information Processing Standards document 180-4.

HCALCS means a HAN Connected Auxiliary Load Control Switch.

HCALCS Technical Specification means the part(s) of the SMETS identified as applying to 'HAN Connected Auxiliary Load Control Switches'.

ICA Certificate has the meaning given to that expression in the IKI Certificate Policy.

ICHIS means the Intimate Communications Hub Interface Specifications.

ID Allocation Procedure means the document of that name developed and maintained in accordance with Section B2.2 (ID Allocation Procedure).

IETF RFC 5280 has the meaning given to that expression in the GB Companion Specification.

IHD means a device provided (or to be provided) at a premises, which:

- (a) consists of the components or other apparatus

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

identified in; and

(b) as a minimum, has the functional capability specified by and complies with the other requirements of,

a version of the IHD Technical Specification which was a Valid Technical Specification on the date on which the device was provided, and which a User acting in the role of Import Supplier or Gas Supplier has joined, or is seeking to join, to an Electricity Smart Meter or Gas Proxy Function (as applicable).

IHD Technical Specification means the part(s) of the SMETS identified as applying to 'IHDs'.

IKI Authority Revocation List (or IKI ARL) has the meaning given to that expression in the IKI Certificate Policy.

IKI Certificate has the meaning given to that expression in the IKI Certificate Policy.

IKI Certificate Policy means the SEC Subsidiary Document of that name set out in Appendix Q.

IKI Certificate Revocation List (or IKI CRL) has the meaning given to that expression in the IKI Certificate Policy.

IKI Certification Practice Statement (or IKI CPS) has the meaning given to that expression in Section L9.20 (the IKI Certification Practice Statement).

Import MPAN means an MPAN for a Metering Point relating to the import of electricity to a premises.

Import Supplier means, for a Smart Metering System or a Device and any period of or point in time:

(a) the Supplier Party Registered during that period of or at that point in time in respect of the

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Import MPAN relating to that Smart Metering System or Device; or

- (b) where there is no related Import MPAN for that Smart Metering System or Device, the Supplier Party Registered during that period of or at that point in time in respect of the Export MPAN relating to that Smart Metering System or Device.

Incident	means an actual or potential interruption to (or reduction in the quality or security of) the Services, as further described in the Incident Management Policy.
Incident Category	has the meaning given to that expression in Section H9.1 (Incident Management Policy).
Incident Management	means a framework of processes designed to identify, raise, allocate responsibility for, track and close Incidents.
Incident Management Log	has the meaning given to that expression in Section H9.3 (Incident Management Log).
Incident Management Policy	means the SEC Subsidiary Document of that name set out in Appendix [TBC].
Incident Parties	has the meaning given to that expression in Section H9.1 (Incident Management Policy).
Independent Assurance Scheme	has the meaning given to that expression in Part 2.1 of the SMKI Compliance Policy (DCC: Duty to Submit to an Independent Assurance Scheme).
Independent Privacy Auditor	has the meaning given to that expression in Section I2.1 (Procurement of the Independent Privacy Auditor).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Independent SMKI Assurance Service Provider has the meaning given to that expression in Part 3.1 of the SMKI Compliance Policy (DCC: Duty to Procure Independent Assurance Services).

Independent Time Source has the meaning given to that expression in Section G2.3845(b) (Network Time).

Information Classification Scheme means a methodology for:

- (a) the appropriate classification of all Data that are processed or stored on a System by reference to the potential impact of those Data being Compromised; and
- (b) determining the controls to be applied to the processing, storage, transfer and deletion of each such class of those Data.

Information Commissioner means the Commissioner, as defined in the Data Protection Act.

Infrastructure Key Infrastructure (or IKI) means the public key infrastructure established by the DCC for the purpose, among other things, of authenticating communications between:

- (a) Parties and the OCA and DCA; and
- (b) Parties and the DCC, where those Parties are required in accordance with this Code to provide files to the DCC that have been Digitally Signed using the Private Key associated with the Public Key that is contained within a File Signing Certificate.

Insolvency Type Event means, in respect of a Party, that that Party:

- (a) is unable to pay its debts as they fall due, or is deemed to be unable to pay its debts within the

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

meaning of section 123 of the Insolvency Act 1986 (but as if the reference in such section to “£750” was replaced with “£10,000”);

- (b) calls a meeting for the purpose of passing a resolution for its winding-up, or such a resolution is passed;
- (c) presents, or has presented in respect of it, a petition for a winding-up order;
- (d) has an application to appoint an administrator made in respect of it, or a notice of intention to appoint an administrator is filed in respect of it;
- (e) has an administrator, administrative receiver, or receiver appointed over all or a substantial part of its business, undertaking, property or assets;
- (f) takes any steps in connection with proposing a company voluntary arrangement or a company voluntary arrangement is passed in relation to it; or
- (g) suffers or undergoes any procedure analogous to any of those specified above, including in respect of a Party who is a natural person or in any jurisdiction outside the UK in which a Party is incorporated.

Intellectual Property Rights means patents, trade marks, trade names, service marks, rights in designs, copyright (including rights in computer software), logos, rights in internet domain names, and moral rights, database rights, rights in know-how, and other intellectual property rights (in each case, whether registered or unregistered or subject to an application for registration), and includes any and all rights or forms of protection having

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

equivalent or similar effect anywhere in the world.

Interface Testing	means the testing described in Section T3 (Interface Testing).
Interface Testing Approach Document	has the meaning given to that expression in Section T3.8 (Interface Testing Approach Document).
Interface Testing Objective	has the meaning given to that expression in Section T3.2 (Interface Testing Objective).
Interim Election	has the meaning given to that expression in Section C4.2 (Election of Elected Members).
Intimate Communications Hub Interface Specifications	means the specifications described as such and originally developed by the DCC pursuant to schedule 3 of the DCC Licence, as amended from time to time in accordance with Section H12.9 (Amendments to the ICHIS).
Inventory Enrolment and Withdrawal Procedures	means the SEC Subsidiary Document of that name set out as Appendix [TBC].
Invoice	has the meaning given to that expression in Section J1.2 (Invoicing of Charges).
Issue	in relation to: <ul style="list-style-type: none">(a) a Device Certificate or DCA Certificate, has the meaning given to that expression in Annex A of the Device Certificate Policy;(b) an Organisation Certificate or OCA Certificate, has the meaning given to that expression in Annex A of the Organisation Certificate Policy;(c) an IKI Certificate or ICA Certificate has the meaning given to that expression in the IKI

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Certificate Policy;

(d) a DCKKI Certificate (including any DCKKICA Certificate) has the meaning given to that expression in the DCKKI Certificate Policy.

Issuing DCA has the meaning given to that expression in Annex A of the Device Certificate Policy.

Issuing DCA Certificate has the meaning given to that expression in Annex A of the Device Certificate Policy.

Issuing ICA has the meaning given to that expression in the IKI Certificate Policy.

Issuing ICA Certificate has the meaning given to that expression in the IKI Certificate Policy.

Issuing OCA has the meaning given to that expression in Annex A of the Organisation Certificate Policy.

Issuing OCA Certificate has the meaning given to that expression in Annex A of the Organisation Certificate Policy.

Key Pair means a Private Key and its mathematically related Public Key, where the Public Key may be used to Check Cryptographic Protection in relation to a communication that has been Digitally Signed using the Private Key.

Known Remote Party has the meaning given to that expression in the GB Companion Specification.

Large Supplier Party means a Supplier Party that is not a Small Supplier Party.

Laws and Directives means any law (including the common law), statute, statutory instrument, regulation, instruction, direction,

rule, condition or requirement (in each case) of any Competent Authority (or of any authorisation, licence, consent, permit or approval of any Competent Authority).

Lead Supplier

means, in respect of a Communications Hub:

- (a) where there is only one Responsible Supplier for the Communications Hub Function which forms part of that Communications Hub, that Responsible Supplier; or
- (b) where there is more than one Responsible Supplier for the Communications Hub Function which forms part of that Communications Hub, the Import Supplier for the Communications Hub Function.

Letter of Credit

means an unconditional irrevocable standby letter of credit in substantially the form set out in Schedule 6 from a bank with the Required Bank Rating which letter of credit has not been breached or disclaimed by the provider.

Liability

includes any loss, liability, damages, costs (including legal costs), expenses and claims.

Local Command Services

means the sending of Commands to a User via the DCC User Interface where the User has opted in the Service Request for the Command to be sent in that way.

Maintenance

includes repair, replacement, upgrade or modification.

Major Incident

means an Incident that is categorised as a major incident in accordance with the Service Management Standards, as further described in the Incident

Management Policy.

Major Security Incident means, in relation to any System, any event which results, or was capable of resulting, in that System being Compromised to a material extent.

Malicious Software means any software program or code intended to destroy, interfere with, corrupt, or cause undesired effects on Data, software, files, programs or codes (whether or not its operation is immediate or delayed, and whether it is introduced wilfully, negligently or without knowledge of its existence).

Manufacturer means, in respect of any Device Model, the person:

- (a) that manufactures some or all of the Devices of that Device Model; or
- (b) on whose behalf some or all of those Devices are manufactured for onward sale or other provision.

Manufacturer Image has the meaning given to that expression in the GB Companion Specification.

~~**Manufacturer Release Notes** means, in respect of any hardware version or firmware version in a Device Model, the Manufacturer's notes regarding the description of the features provided by that hardware version or firmware version (and, where relevant, how and why this differs from other Device Models where this difference arises only by virtue of having newer versions of hardware and/or firmware). Such description of differences shall include the reasons for the newer version(s), a description of any enhancements to the features provided by the newer version(s), a description of any fixes to existing features, and a statement on backwards~~

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

~~and forwards compatibility of any new firmware version.~~

MA-S Registry Entry means a publicly registered 36-bit identifier of that name issued by the Institute of Electrical and Electronics Engineers Standards Association.

Material Risk means, in respect of any Maintenance of the DCC Systems, that such Maintenance poses either: (a) a material risk of disruption ~~to the Services~~; or (b) a risk of material disruption ~~to the Services~~.

Mesh Communications Hub ~~has the meaning given to that expression in the CH Support Materials.~~

Message Authentication Code has the meaning given to that expression in the GB Companion Specification (or, where used in the context of a communication not specified by the GB Companion Specification, the meaning associated with the relevant cryptographic algorithm used to generate it).

Message Mapping Catalogue means the SEC Subsidiary Document of that name set out in Appendix [TBC].

Meter Asset Manager has the meaning given to that expression in the SPAA.

Meter Operator has the meaning given to that expression in the MRA.

Metering Point has the meaning given to that expression in the MRA.

Minimum Monthly Charge means, in respect of each Regulatory Year, £25.00, multiplied by the Consumer Prices Index for the October preceding the start of that Regulatory Year, divided by the Consumer Prices Index for October 2014. The relevant amount will be rounded to the

nearest pound.

Minimum Service Level	means, in respect of each Performance Measure, the number or percentage intended to represent the minimum level of performance for the activity which is the subject of the Performance Measure, as set out in: (a) Section H13.1 (Code Performance Measures); (b) the Reported List of Service Provider Performance Measures; or (c) Section L8.6 (Code Performance Measures).
Modification Proposal	has the meaning given to that expression in Section D1.2 (Modifications).
Modification Register	has the meaning given to that expression in Section D1.8 (Modification Register).
Modification Report	has the meaning given to that expression in Section D7.1 (Modification Report).
Modification Report Consultation	has the meaning given to that expression in Section D7.8 (Modification Report Consultation).
Monthly Service Metric	has the meaning set out in the DCC User Interface Services Schedule.
Monthly Service Threshold	has the meaning set out in the DCC User Interface Services Schedule.
MPAN	means, in respect of a Smart Metering System (or Electricity Meter), the Supply Number (or each of the Supply Numbers) allocated under the MRA to the Metering Point(s) at which the import or export of electricity is recorded by that Smart Metering System

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(or Electricity Meter).

MPRN means, in respect of a Smart Metering System (or Gas Meter), the Supply Meter Point Reference Number allocated by the relevant Gas Network Party to the Supply Meter Point at which the supply of gas is recorded by that Smart Metering System (or Gas Meter).

MRA means the Master Registration Agreement established pursuant to the Electricity Distribution Licences.

Network Enhancement Plan means a plan by the DCC to undertake works to improve SM WAN connectivity for a cohort of Communications Hubs installed within a particular geographic area (in either the south Region or the central Region), where the DCC has obtained reasonable evidence to justify that the works are required in order to improve SM WAN connectivity.

Network Party means a Party that is either an Electricity Network Party or a Gas Network Party.

Network Time has the meaning given to that expression in Section G2.3845(a) (Network Time).

New Party means a Party that is a Party pursuant to an Accession Agreement.

Non-Critical Service Request means a Service Request which is not identified as critical in the DCC User Interface Services Schedule (or, in the case of Elective Communication Services, the relevant Bilateral Agreement).

Non-Critical Service Response means a Service Response in respect of a Non-Critical Service Request.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Non-Default Interest Rate	means, for any day, the base lending rate of the Bank of England at 13.00 hours on that day.
Non-Device Service Request	means a Service Request in respect of a Service identified as a non-device service in the DCC User Interface Services Schedule (or, in the case of Elective Communication Services, the relevant Bilateral Agreement).
Non-Domestic Premises	means premises other than Domestic Premises.
Notification	means, in respect of a Modification Proposal, notification of that modification to the EU Commission pursuant to EU Directive 98/34/EC.
NSA Suite B Cryptographic Algorithm	means a cryptographic algorithm that meets the standards required by the US National Security Agency's suite B cryptography standards (www.nsa.gov/ia/programs/suiteb_cryptography/).
OCA Certificate	has the meaning given to that expression in Annex A of the Organisation Certificate Policy.
On-Demand Services	has the meaning given to that expression in Section H3.11 (Categories of Services).
Organisation Authority Revocation List (or Organisation ARL)	has the meaning given to that expression in Annex A of the Organisation Certificate Policy.
Organisation Certificate	has the meaning given to that expression in Annex A of the Organisation Certificate Policy.
Organisation Certificate Policy	means the SEC Subsidiary Document of that name set out in Appendix B.
Organisation Certificate	has the meaning given to that expression in Annex A

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Revocation List (or Organisation CRL)	of the Organisation Certificate Policy.
Organisation Certification Authority (or OCA)	has the meaning given to that expression in Annex A of the Organisation Certificate Policy.
Organisation Certification Practice Statement (or Organisation CPS)	has the meaning given to that expression in Section L9.14 (the Organisation Certification Practice Statement).
Original Party	means a Party that is a Party pursuant to the Framework Agreement.
OTA Header	has the meaning given to that expression in the GB Companion Specification.
Other Enabling Services	means the Services other than the Enrolment Services, the Communications Hub Services and the Communication Services.
Other SEC Party	means a Party that is not the DCC, is not a Network Party, and is not a Supplier Party.
Other User	means, for a Smart Metering System or a Device and any period of or point in time, a User that is not acting in the User Role of Import Supplier, Export Supplier, Gas Supplier, Electricity Distributor, Gas Transporter or Registered Supplier Agent (regardless of whether in fact that User is a Responsible Supplier or the Electricity Distributor or the Gas Transporter or the Registered Supplier Agent during that period of or at that point in time).
Panel	means the body established as such in accordance with Section C2.1 (Establishment of the Panel).
Panel Chair	has the meaning given to that expression in Section

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C3.1 (Composition of the Panel).

Panel Member has the meaning given to that expression in Section C3.1 (Composition of the Panel).

Panel Objectives has the meaning given to that expression in Section C2.2 (Panel Objectives).

Panel Release Management Policy has the meaning given to that expression in Section D10.7 (Release Management).

Parent Company Guarantee means a guarantee in such form as the DCC may reasonably approve from an Affiliate of the User in question which guarantee has not been breached or disclaimed by the guarantor and has at least one month left until it expires. Where the guarantor is incorporated outside of the United Kingdom, the guarantee will only be validly given where supported by a legal opinion regarding capacity and enforceability in a form reasonably satisfactory to the DCC.

Parse and Correlate Software has the meaning given to that expression in Section H11.1 (Provision of Parse and Correlate Software).

Party means, from time to time, a person that has agreed to be bound by this Code (either pursuant to the Framework Agreement or an Accession Agreement), and (without prejudice to Section M8.14 (Consequences of Ceasing to be a Party)) that has not at that time ceased to be so bound in accordance with Section M8 (but excluding SECCo).

Party Category means, as the context requires, one of the following categories:

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the Large Supplier Parties collectively;
- (b) the Small Supplier Parties collectively;
- (c) the Electricity Network Parties collectively;
- (d) the Gas Network Parties collectively; and
- (e) the Other SEC Parties collectively.

Party Data has the meaning given to that expression in Section M5.10 (Party Data).

Party Details means, in respect of each Party, the information relating to that Party and corresponding to the heads of information set out in the Application Form from time to time.

Party Signifier means an identification number allocated to a Party **(or SECCo)** by the Code Administrator pursuant to Section B1.17 (Party Signifiers), which uniquely identifies that Party **(or SECCo)** under the Code.

Path 1 Modification has the meaning given to that expression in Section D2.4 (Path 1 Modification: Authority-led).

Path 2 Modification has the meaning given to that expression in Section D2.6 (Path 2 Modification: Authority Determination).

Path 3 Modification has the meaning given to that expression in Section D2.7 (Path 3 Modification: Self-Governance).

Performance Measurement Methodology means a documented methodology for establishing the performance against each Performance Measure, which may include sampling and/or test communications.

Performance Measurement Period means, in respect of each Performance Measure, the applicable period over which the Service Level for that

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Performance Measure is to be measured, as set out in:

- (a) Section H13.1 (Code Performance Measures);
- (b) the Reported List of Service Provider Performance Measures; or
- (c) Section L8.6 (Code Performance Measures).

Performance Measures

means the Code Performance Measures and such Service Provider Performance Measures as are specified in the Reported List of Service Provider Performance Measures.

Permitted Communication Service

means, in respect of a User and a Smart Metering System (or a Device forming, or to form, part of that Smart Metering System):

- (a) a service that results in the sending of a Command to a Device (other than the Communications Hub Function) for which the User is the Responsible Supplier (except where, were the Command to be sent as a Core Communication Service, it would be a Critical Command requiring another User's Digital Signature);
- (b) a service that only results in the sending of a Command to a Device which is the same as a Command which results from a Service listed in the DCC User Interface Services Schedule for which that User is an Eligible User; or
- (c) a service which the Panel has (on the application of the User) approved as a permitted communication service.

Personal Data

means personal data, as defined in the Data Protection

Act.

Physical Device Type	means, in respect of a device, its type which may be only one of: a Communications Hub; a Single Element Electricity Metering Equipment (as defined in SMETS); a Twin Element Electricity Metering Equipment (as defined in SMETS); a Polyphase Electricity Metering Equipment (as defined in SMETS), a Gas Smart Meter; a Pre-Payment Meter Interface Device; a HAN Connected Auxiliary Load Control Switch; an IHD; or a Type 2 Device (Other).
Planned Maintenance	means, in respect of a month, Maintenance of the DCC Systems planned prior to the start of that month and which will disrupt, or poses a Material Risk of disruption to, provision of the Services (and, where it will disrupt, or poses a Material Risk of disruption to, the provision of the Services in relation to Devices associated with Communications Hubs, at least 100,000 Communications Hubs are affected).
Point-to-Point Alt HAN Equipment	has the meaning given to that expression in accordance with standard condition 55 of the Electricity Supply Licence (Smart Metering – The Alt HAN Arrangements) and standard condition 49 of the Gas Supply Licence (Smart Metering – The Alt HAN Arrangements).
Post Commissioning Information	has the meaning given to that expression in the Inventory Enrolment and Withdrawal Procedures.
PPMID	means a Prepayment Meter Interface Device.
PPMID Technical Specification	means the part(s) of the SMETS identified as applying to 'Pre-Payment Meter Interface Devices'.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Pre-Command	means a communication (other than a Service Response or Device Alert) to be sent from the DCC to a User or to the CoS Party that includes a GBCS Payload and which has been Digitally Signed by the DCC in accordance with the DCC User Interface Specification.
Preliminary Assessment	has the meaning given to that expression in Section H7.4 (Preliminary Assessment of Elective Communication Services).
Pre-Payment Meter Interface Device	means a device installed (or to be installed) at a premises, which: (a) consists of the components or other apparatus identified in; and (b) as a minimum, has the functional capability specified by and complies with the other requirements of, a version of the PPMID Technical Specification which was a Valid Technical Specification on the date on which the device was installed.
Principal User Security Obligations	has the meaning given to that expression in Section G1.7 (Obligations on Users).
Privacy Assessment	means a Full Privacy Assessment, Random Sample Privacy Assessment or User Privacy Self-Assessment.
Privacy Assessment Report	has the meaning given to that expression in Section I2.19 (The Privacy Assessment Report).
Privacy Assessment Response	has the meaning given to that expression in Section I2.21 (The Privacy Assessment Response).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Privacy Controls Framework	means the document of that name developed and maintained by the Panel in accordance with Section I2.15 (The Privacy Controls Framework).
Privacy Self-Assessment	has the meaning given to that expression in Section I2.14 (Categories of Assessment).
Privacy Self-Assessment Report	has the meaning given to that expression in Section I2.26 (The User Privacy Self-Assessment Report).
Private Key	means the private part of an asymmetric Key Pair used for the purposes of public key encryption techniques
Privileged Person	means a member of DCC Personnel who is authorised to carry out activities which involve access to resources, or Data held, on the DCC Total System and which are capable of being a means by which the DCC Total System, any User Systems, any RDP Systems or any Device are Compromised to a material extent.
Problem	means the underlying cause of one or more Incidents, as further described in the Incident Management Policy.
Process	means, in respect of any Personal Data, to ‘process’ that Personal Data, as defined in the Data Protection Act (and “ Processing ” shall be interpreted accordingly).
Product Recall or Technology Refresh	has the meaning given to that expression in Section F9.6 (Categories of Responsibility).
Projected Operational Service Levels	[TBC] [<i>For a discussion of this term, please refer to the SEC3 Consultation Document.</i>]
Proposer	has the meaning given to that expression in Section D1.3 (Persons Entitled to Propose Modification

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Proposals).

Prototype Communications Hub	means a device that as closely achieves compliance with the CHTS as is reasonably practicable from time to time, which is provided (or to be provided) for the purpose of testing as described in Section F10 (Test Communications Hubs).
Public Key	means the public part of an asymmetric Key Pair used for the purposes of public key encryption techniques.
Random Sample Privacy Assessment	has the meaning given to that expression in Section I2.13 (Categories of Assessment).
RDP	means Registration Data Provider.
RDP ID	means, in respect of an RDP acting in its capacity as such (including a Network Party where it is deemed to have nominated itself for that role), one of the unique identification numbers accepted by the DCC in respect of that RDP under Section E2.16 (Security Obligations and RDP IDs).
RDP Signifier	means an identification number allocated to an RDP by the Code Administrator pursuant to Section B1.19 (RDP Signifiers), which uniquely identifies that RDP under the Code.
RDP Systems	means any Systems: <ul style="list-style-type: none">(a) which are operated by or on behalf of an Electricity Distributor or Gas Transporter responsible for providing (or procuring the provision of) Registration Data in respect of a particular MPAN or MPRN; and(b) which are used in whole or in part for:

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (i) the collection, storage, Back-Up, processing or communication of that Registration Data prior to, or for the purposes of, its provision to the DCC over the Registration Data Interface;
- (ii) generating Data for communication to the OCA, DCA, ICA or DCCKICA, or receiving Data from the OCA, DCA, ICA or DCCKICA (including any Systems which store or use Secret Key Material for such purposes); and/or
- (iii) generating Data for the purposes of lodging in the SMKI Repository or DCCKI Repository, or retrieving Data from the SMKI Repository or DCCKI Repository,

and any other Systems from which the Systems described in paragraphs (a) and (b) are not Separated.

Recoverable Costs	has the meaning given to that expression in Section C8.2 (SEC Costs and Expenses).
Recovery Certificate	has the meaning given to that expression in Section L10.30(d)(ii) (Definitions).
Recovery Costs	has the meaning given to that expression in Section L10.17 (Recovery Costs).
Recovery Event	has the meaning given to that expression in Section L10.14 (Recovery Events).
Recovery Key Pair	has the meaning given to that expression in Section L10.30(d) (Definitions).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Recovery Private Key has the meaning given to that expression in Section L10.30(d)(i) (Definitions).

Refinement Process has the meaning given to that expression in Section D6 (Refinement Process).

Region means each of the regions of Great Britain that are subject to different DCC Service Provider Contracts, and the region into which a premises (or future potential premises) falls shall be:

- (a) identified insofar as reasonably practicable in a document published by the DCC (or the Panel on behalf of the DCC) from time to time; or
- (b) where a premises (or future potential premises) is not so identified, confirmed by the DCC on application of any Party or in response to the resolution of an Incident regarding the fact that a premises (or future potential premises) is not so identified,

and once a premises has been identified by the DCC as being in a particular region, the DCC shall not identify that premises as being in a different region (unless agreed by the Supplier Party or Supplier Parties Registered for the MPAN and/or MPRN at the premises and the Network Party or Network Parties for the network(s) to which the premises is, or is intended to be, connected).

Registered means Registered, as defined in the MRA or the SPAA, as applicable (and “**Registration**” shall be interpreted accordingly).

Registered Supplier Agent means, for a Smart Metering System or a Device and

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

any period of or point in time, the User that is:

- (a) in the case of electricity, appointed as the Meter Operator in respect of the MPAN relating to that Smart Metering System or Device; or
- (b) in the case of gas, appointed as the Meter Asset Manager in respect of the MPRN relating to that Smart Metering System or Device,

(in either case) during that period of or at that point in time.

Registration Authority means the DCC, acting in its capacity as such for the purposes of (and in accordance with the meaning given to that expression in any) of the Certificate Policies.

Registration Data has the meaning given to that expression in Section E1 (Reliance on Registration Data).

Registration Data Interface means the communications interface designed to allow the communications referred to in Section E (Registration Data) to be sent between the DCC and the Registration Data Providers.

Registration Data Interface Code of Connection means the SEC Subsidiary Document of that name to be incorporated into this Code pursuant to Section X5 (Incorporation of Certain Documents into this Code).

Registration Data Interface Documents means the Registration Data Interface Code of Connection and Registration Data Interface Specification.

Registration Data Interface Specification means the SEC Subsidiary Document of that name to be incorporated into this Code pursuant to Section X5 (Incorporation of Certain Documents into this Code).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Registration Data Provider means, in respect of each Network Party, the person nominated as such in writing to the DCC from time to time by that Network Party, on the basis that more than one Party may specify the same Registration Data Provider, and that the Network Party shall be deemed to have so nominated itself in the absence of any other nomination.

Regulatory Year means a period of twelve months beginning at the start of 1 April in any calendar year and ending at the end of 31 March in the next following calendar year.

Related Person means, in relation to an individual, that individual's spouse, civil partner, parent, grandparent, sibling, child, grandchild or other immediate family member; any partner with whom that individual is in partnership; that individual's employer; any Affiliate of such employer; any person by whom that individual was employed in the previous 12 months; and any company (or Affiliate of a company) in respect of which that individual (individually or collectively with any member of his immediate family) controls more than 20% of the voting rights.

Release Management means the process adopted for planning, scheduling and controlling the build, test and deployment of releases of IT updates, procedures and processes.

Relevant Device has the meaning given to that expression in Section L10.30(a) (Definitions).

Relevant Instruments means:

- (a) the Electricity Act and the Gas Act;
- (b) the Data Protection Act;

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(c) the Energy Licences; and

(d) the Energy Codes.

Relevant Private Key has the meaning given to that expression in Section L10.30(c) (Definitions).

Relevant Subscriber has the meaning given to that expression in Section L10.30(b).

Relying Party means a person who, pursuant to the Code, receives and relies upon a Certificate.

Relying Party Obligations means the provisions in respect of Relying Parties set out at Section L12 of the Code (the Relying Party Obligations).

Remote Party Role has the meaning given to that expression, and comprises the values allowed for the ASN.1 type RemotePartyRole identified, in the GB Companion Specification.

Report Phase has the meaning given to that expression in Section D7.1 (Modification Report).

Reported List of Service means the document which:

Provider Performance

Measures

(a) is initially provided to Parties, the Panel and the Authority by the Secretary of State, bears the title 'Reported List of Service Provider Performance Measures' and identifies itself as being produced for the purposes of Section H13 (Performance Standards and Reporting); and

(b) specifies a number of Service Provider Performance Measures together (in each case) with the applicable Service Level Requirement, Target Service Level, Minimum Service Level

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

and Performance Measurement Period,

as it may be modified from time to time in accordance with Section H13.2 (Service Provider Performance Measures).

Required Bank Rating

means that a person has one or more long-term Recognised Credit Ratings of at least (based, where the person has more than one such rating, on the lower of the ratings):

- (a) “A-” by Standard & Poor’s Financial Services LLC;
- (b) “A3” by Moody’s Investors Services Inc; and/or
- (c) “A-” by Fitch Ratings Limited; and/or
- (d) “A(low)” by DBRS Ratings Limited.

Response

has the meaning given to that expression in the GB Companion Specification.

Responsible Supplier

means, in respect of a Smart Metering System (or any Device forming, or intended to form, part of a Smart Metering System) which relates to:

- (a) an MPAN, the Import Supplier for that Smart Metering System; and/or
- (b) an MPRN, the Gas Supplier for that Smart Metering System.

Restricted Communication Service

means, in respect of any User requesting an Elective Communication Service, a service which is not a Permitted Communication Service.

Risk Treatment Plan

has the meaning given to that expression in Section G7.16(e) (Duties and Powers of the Security Subcommittee).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Root DCA	has the meaning given to that expression in Annex A of the Device Certificate Policy.
Root DCA Certificate	has the meaning given to that expression in Annex A of the Device Certificate Policy.
Root DCCKICA Certificate	has the meaning given to that expression in the DCCKI Certificate Policy
Root ICA	has the meaning given to that expression in the IKI Certificate Policy.
Root ICA Certificate	has the meaning given to that expression in the IKI Certificate Policy.
Root OCA	has the meaning given to that expression in Annex A of the Organisation Certificate Policy.
Root OCA Certificate	has the meaning given to that expression in Annex A of the Organisation Certificate Policy.
Scheduled Election	has the meaning given to that expression in Section C4.2 (Election of the Elected Members).
Scheduled Services	has the meaning given to that expression in Section H3.11 (Categories of Services).
SEC Arrangements	has the meaning given to that expression in the DCC Licence.
SEC Materials	has the meaning given to that expression in Section M5.1 (SEC Materials).
SEC Objectives	means, in respect of the Charging Methodology only, the Charging Objectives and, in all other cases, the General SEC Objectives.
SEC Subsidiary Documents	means each of the documents set out as such in the

appendices to this Code.

SECCo has the meaning given to that expression in Schedule 4.

Secret Key Material means any Private Key, Shared Secret, Symmetric Key or other functionally equivalent cryptographic material (and any associated input parameter) that is generated and maintained by a Party or RDP for the purposes of complying with its obligations under, or in relation to, this Code, but excluding:

- (a) any such material (and associated input parameters) to the extent that it is maintained on Devices;
- (b) any Digital Signature; and
- (c) any output of a Cryptographic Hash Function operating on an input communication.

Secretariat has the meaning given to that expression in Section C7.6 (Secretariat).

Secretary of State has the meaning given to that expression in the Interpretation Act 1978.

Security Check means the vetting of personnel, carried out to a level that is identified by that name, under and in accordance with the HMG National Security Vetting Procedures.

Security Controls Framework has the meaning given to that expression in Section G7.16(a) (Duties and Powers of the Security Subcommittee).

Security Obligations and Assurance Arrangements means:

- (a) in the case of the DCC Total System, those

requirements set out in Sections G2, G4 to G7 and G9;

- (b) in the case of User Systems, those requirements set out in Sections G3 to G8;
- (c) in the case of Smart Metering Systems, those requirements set out in the Security Characteristics (as defined in the relevant Technical Specification); and
- (d) in the case of RDP Systems, those requirements set out in Section E2.14 (Security Obligations).

Security Requirements

means a document that:

- (a) identifies the security controls that are considered appropriate to mitigate the security risks relating to the End-to-End Smart Metering System; and
- (b) indicates those provisions having effect (or being proposed to have effect) in or under the Security Obligations and Assurance Arrangements or any Energy Licences which require that such security controls are established and maintained.

Security Risk Assessment

means a document that identifies, analyses and evaluates the security risks which relate to the End-to-End Smart Metering System.

Security Sub-Committee

means the Sub-Committee established pursuant to Section G7 (Security Sub-Committee).

Security Sub-Committee (Network) Members

has the meaning given to that expression in Section G7.8 (Membership of the Security Sub-Committee).

Security Sub-Committee

has the meaning given to that expression in Section

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(Other User) Member	G7.10 (Membership of the Security Sub-Committee)
Security Sub-Committee (Supplier) Members	has the meaning given to that expression in Section G7.6 (Membership of the Security Sub-Committee).
Security Sub-Committee Chair	has the meaning given to that expression in Section G7.5 (Membership of the Security Sub-Committee).
Security Sub-Committee Member	has the meaning given to that expression in Section G7.3 (Membership of the Security Sub-Committee).
Self-Service Interface	has the meaning given to that expression in Section H8.15 (Self-Service Interface).
Self-Service Interface Code of Connection	means the SEC Subsidiary Document of that name set out in Appendix [TBC].
Self-Service Interface Design Specification	means the SEC Subsidiary Document of that name set out in Appendix [TBC].
Separate	means, in relation to any System, software or firmware, to establish controls which are appropriately designed to ensure that no communication may take place between it and any other System, software or firmware (as the case may be) except to the extent that such communication is for a necessary purpose having regard to the intended operation of the System, software or firmware (and " Separated " and " Separation " are to be interpreted accordingly).
Sequenced Services	has the meaning given to that expression in Section H3.13 (Sequenced Services).
Service Desk	has the meaning given to that expression in Section H8.19 (Service Desk).
Service Level	means, in respect of each Performance Measure and

each Performance Measurement Period:

- (a) where that Performance Measure relates to an activity that is performed on a number of separate occasions:
 - (i) the number of occasions during the Performance Measurement Period on which that activity was performed in accordance with the relevant Service Level Requirement,
expressed as a percentage of, or a number in relation to:
 - (ii) the total number of occasions during the Performance Measurement Period on which that activity was performed;
- (b) where that Performance Measure relates to an activity that is performed over a period of time:
 - (i) the period of time during the Performance Measurement Period on which that activity was performed,
expressed as a percentage of:
 - (ii) the period of time during the Performance Measurement Period on which that activity would have been performed if it had been performed in accordance with the relevant Service Level Requirement,

provided that in each case the DCC may establish the Service Level for a Performance Measure in accordance with the Performance Measurement Methodology.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Service Level Requirements	means: <ul style="list-style-type: none">(a) in respect of each Code Performance Measure, the Target Response Time, Target Resolution Time or Target Availability Time (applicable in accordance with the table at Section H13.1 (Code Performance Measures) or at Section L8.6 (Code Performance Measures)); or(b) in respect of each Service Provider Performance Measure, the standard to which the relevant DCC Service Provider is obliged by its DCC Service Provider Contract to perform the activity that is the subject of the Service Provider Performance Measure.
Service Management Standards	means the Information Technology Infrastructure Library (ITIL®) standards for IT services management, as issued and updated by the Cabinet Office from time to time.
Service Provider Performance Measures	means the performance measures (however described and from time to time) for each DCC Service Provider under each DCC Service Provider Contract.
Service Request	means a request for one of the Services listed in the DCC User Interface Services Schedule (or, in the case of Elective Communication Services, provided for in the relevant Bilateral Agreement).
Service Request Processing Document	means the SEC Subsidiary Document of that name set out in Appendix [TBC].
Service Response	means, in respect of a Service Request sent by a User, one or more communications in response to that Service Request from the DCC to the User (not being

a Pre-Command).

Services

means the services provided, or to be provided, by the DCC pursuant to Sections F5 (Communications Hub Forecasts and Orders) to F10 (Test Communications Hubs), Section H (DCC Services), or Section L (Smart Metering Key Infrastructure and DCC Key Infrastructure), including pursuant to Bilateral Agreements.

Services FM

means, in respect of any Services, the occurrence of any of the following:

- (a) war, civil war, riot, civil commotion or armed conflict;
- (b) terrorism (being the use or threat of action designed to influence the government or intimidate the public or for the purpose of advancing a political, religious or ideological cause and which involves serious violence against a person or serious damage to property, endangers a person's life, creates a serious risk to the public or is designed to seriously interfere with or disrupt an electronic system);
- (c) nuclear, chemical or biological contamination;
- (d) earthquakes, fire, storm damage or severe flooding (if in each case it affects a significant geographical area); and/or
- (e) any blockade or embargo (if in each case it affects a significant geographical area).

Services IPR

has the meaning given to that expression in Section M5.14 (Services IPR).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Shared Resources	in relation to any User Systems, has the meaning given to that expression in Section G5.25 (Shared Resources).
Shared Secret	means a parameter that is (or may be) derived from a Private Key and a Public Key which are not from the same Key Pair in accordance with the GB Companion Specification.
Shared Solution Alt HAN Equipment	has the meaning given to that expression in accordance with standard condition 55 of the Electricity Supply Licence (Smart Metering – The Alt HAN Arrangements) and standard condition 49 of the Gas Supply Licence (Smart Metering – The Alt HAN Arrangements).
Signed Pre-Command	means a communication containing the Digitally Signed GBCS Payload of a Pre-Command that has been Digitally Signed by a User or the CoS Party.
Significant Code Review	<p>means a review of one or more matters by the Authority which the Authority considers is:</p> <ul style="list-style-type: none">(a) related to this Code (whether on its own or together with other Energy Codes); and(b) likely to be of significance in relation to the Authority’s principal objective and/or general duties (as set out in section 3A of the Electricity Act and section 4AA of the Gas Act), statutory functions and/or relevant obligations arising under EU law, <p>and concerning which the Authority has issued a notice that the review will constitute a significant code review.</p>

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Significant Code Review Phase means, in respect of each Significant Code Review, the period from the date on which the Authority issues the notice stating that the matter is to constitute a Significant Code Review, and ending on the earlier of:

- (a) the date on which the DCC submits a Modification Proposal in respect of any variations arising out of a Significant Code Review that the DCC is directed to submit by the Authority;
- (b) the date on which the Authority issues a conclusion that no modification is required to this Code as a result of the Significant Code Review; or
- (c) the date 28 days after the date on which the Authority issues its conclusion document in respect of the Significant Code Review.

SIMCH Aerial means an aerial and any other equipment required to enable a Special Installation Mesh Communications Hub to connect to the SM WAN.

SIT Approach Document has the meaning given to that expression in Section T2.5 (SIT Approach Document).

SIT Objective has the meaning given to that expression in Section T2.2 (SIT Objective).

SM WAN means the means by which the DCC sends, receives and conveys communications to and from Communications Hub Functions.

SM WAN Coverage Database means the information made available via the SSI pursuant to Section H8.16(f) (and which is also available via the CH Ordering System).

Small Supplier Party	means a Supplier Party which, at the time at which it is necessary to assess the status of the Party, supplies electricity and/or gas to fewer than 250,000 (two hundred and fifty thousand) Domestic Premises.
Smart Meter	means either an Electricity Smart Meter or a Gas Smart Meter (as the context requires).
Smart Metering Equipment Technical Specification	means the document(s) set out in Schedule [TBC].
Smart Metering Inventory	<p>means an electronic database of Devices which records (as a minimum) the following information in respect of each Device:</p> <ul style="list-style-type: none">(a) its Device Type;(b) its Device ID;(c) its Device Model (provided that no firmware version is needed for Type 2 Devices);(d) for Devices other than Type 2 Devices, its SMI Status, and the date from which that status has applied;(e) for Devices other than Type 2 Devices, its SMI Status history;(f) where it is a Smart Meter which has been installed, the related MPAN or MPRN and the Communications Hub Function with which that Smart Meter is associated; and(g) where it is a Device (other than a Smart Meter or a Communications Hub Function), the Smart Meter or Gas Proxy Function with which that Device is associated.

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Smart Metering Key Infrastructure (or SMKI) means the public key infrastructure established by DCC for the purpose, among other things, of providing secure communications between Devices and Users.

Smart Metering System means either:

- (a) an Electricity Smart Meter together with the Communications Hub Function with which it is Associated, together with the Type 1 Devices (if any) that may from time to time be Associated with that Electricity Smart Meter; or
- (b) a Gas Smart Meter together with the Communications Hub Function with which it is Associated and an Associated Gas Proxy Function, together with the Type 1 Devices (if any) that may from time to time be Associated with that Gas Proxy Function.

SMETS means the Smart Metering Equipment Technical Specification.

SMI Status means the status indicator of each Device recorded within the Smart Metering Inventory, which indicator may (as a minimum) be set to any one of the following:

- (a) ‘pending’, indicating that the Device has not yet been Commissioned;
- (b) ‘installed not commissioned’, indicating that the Device is ready to be Commissioned, but has not yet been Commissioned;
- (c) ‘commissioned’, indicating that the Device has been Commissioned;
- (d) ‘decommissioned’, indicating that the Device has

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

been Decommissioned;

- (e) ‘withdrawn’, indicating that the Device has been Withdrawn;
- (f) ‘suspended’, indicating that the Device has been Suspended; or
- (g) ‘whitelisted’, indicating that a Device has been added to the Device Log of a Communications Hub Function but that communications between the Device and the Communications Hub Function may not yet have been established.

SMKI and Repository Entry Process Tests means the tests described in Section H14.22 (SMKI and Repository Entry Process Tests).

SMKI and Repository Test Scenario Document means the SEC Subsidiary Document of that name set out in Appendix K, which is originally to be developed pursuant to Section T6 (Development of Enduring Testing Documents).

SMKI and Repository Testing means the testing described in Section T5 (SMKI and Repository Testing).

SMKI Code of Connection means the SEC Subsidiary Document of that name set out in Appendix N, which:

- (a) has the purpose described in Section L4.5 (SMKI Code of Connection); and
- (b) is originally to be developed pursuant to Sections L4.6 to L4.7 (SMKI Interface Document Development).

SMKI Compliance Policy means the SEC Subsidiary Document of that name set out in Appendix C.

SMKI Document Set has the meaning given to that expression in Section

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L9.3 (the SMKI Document Set).

SMKI Independent Assurance Scheme	has the meaning given to that expression in Part 2.1 of the SMKI Compliance Policy (DCC: Duty to Submit to an SMKI Independent Assurance Scheme).
SMKI Interface Design Specification	means the SEC Subsidiary Document of that name set out in Appendix M, which: (a) has the purpose described in Section L4.4 (SMKI Interface Design Specification); and (b) is originally to be developed pursuant to Sections L4.6 to L4.7 (SMKI Interface Document Development).
SMKI Participants	means the DCC (acting in its capacity as the provider of the SMKI Services), all Authorised Subscribers and all Relying Parties.
SMKI PMA	means the Sub-Committee of that name established pursuant to Section L1 (SMKI Policy Management Authority).
SMKI PMA (Network) Member	has the meaning given to that expression in Section L1.8 (Membership of the SMKI PMA).
SMKI PMA (Supplier) Members	has the meaning given to that expression in Section L1.6 (Membership of the SMKI PMA).
SMKI PMA Chair	has the meaning given to that expression in Section L1.5 (Membership of the SMKI PMA).
SMKI PMA Member	has the meaning given to that expression in Section L1.3 (Membership of the SMKI PMA).
SMKI Recovery Key Guidance	has the meaning given to that expression in Section L10.9 (The SMKI Recovery Key Guidance).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

SMKI Recovery Procedure means the SEC Subsidiary Document of that name set out in Appendix [TBC], which:

- (a) has the purpose described in Section L10.1 (The SMKI Recovery Procedure); and
- (b) is originally to be developed pursuant to Sections L10.7 to L10.8 (SMKI Recovery Procedure: Document Development).

SMKI Registration Authority Policies and Procedures (or SMKI RAPP) means the SEC Subsidiary Document of that name set out in Appendix D, which is originally to be developed pursuant to Sections L9.5 to L9.6 (the Registration Authority Policies and Procedures: Document Development).

SMKI Repository has the meaning given to that expression in Section L5.1 (the SMKI Repository).

SMKI Repository Code of Connection means the SEC Subsidiary Document of that name set out in Appendix P, which:

- (a) has the purpose described in Section L6.5 (SMKI Repository Code of Connection); and
- (b) is originally to be developed pursuant to Sections L6.6 to L6.7 (SMKI Repository Interface Document Development).

SMKI Repository Interface has the meaning given to that expression in Section L6.3 (the SMKI Repository Interface).

SMKI Repository Interface Design Specification means the SEC Subsidiary Document of that name set out in Appendix O, which:

- (a) has the purpose described in Section L6.4 (SMKI Repository Interface Design Specification); and

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(b) is originally to be developed pursuant to Sections L6.6 to L6.7 (SMKI Repository Interface Document Development).

SMKI Repository Service has the meaning given to that expression in Section L5.2 (the SMKI Repository Service).

SMKI SEC Documents has the meaning given to that expression in Section L9.4 (the SMKI SEC Documents).

SMKI Service Interface has the meaning given to that expression in Section L4.3 (the SMKI Service Interface).

SMKI Services has the meaning given to that expression in Section L3.1 (the SMKI Services).

SMKI Specialist means an individual (rather than a body corporate, association or partnership) to be appointed and remunerated under a contract with SECCo, who:

(a) has experience and expertise in public key infrastructure arrangements;

(b) is sufficiently independent of any particular Party or RDP, or class of Parties or RDPs, and of the Independent SMKI Assurance Service Provider; and

(c) is chosen by the SMKI PMA Chair from time to time.

SOC2 means the Service Organisation Control 2 standard, as defined by the American Institute of Certified Public Accountants.

Solution Architecture Information means a description of the overall technical architecture of the DCC Systems (or any part thereof) in more detail than the Technical Architecture

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Document so as to describe the individual components of the DCC Systems (including hardware and software) and how they interface with the User Systems.

SPAA

means the Supply Point Administration Agreement established pursuant to the Gas Supply Licences.

Special Installation Mesh

Communications Hub

means a WAN Variant (in the central Region and the south Region) which is distinguishable from a standard Mesh Communications Hub by the existence of an additional external aerial port.

**Special Second-Fuel
Installation**

means, in the case of a premises for which there is both an Electricity Smart Meter and a Gas Smart Meter, where on the installation of the second of those two meters to be installed it was necessary to replace the Communications Hub relating to the first of those two meters to be installed because that Communications Hub was not able to serve the second of those two meters to be installed (with the consequence that the Communications Hub that is replaced is removed from the premises and returned to the DCC).

**Special WAN-Variant
Installation**

means that the DCC requests (in accordance with the Incident Management Policy) that a Supplier Party replaces an installed Communications Hub with a Communications Hub of a different WAN Variant to the installed Communications Hub, with the consequence that the Communications Hub that is replaced is removed from the premises and returned to the DCC.

Specimen Accession

means the specimen form of agreement set out in

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Agreement	Schedule 2.
Specimen Bilateral Agreement	means the specimen form of agreement set out in Schedule 3.
Specimen Enabling Services Agreement	means the form of specimen agreement set out in Schedule 7 (Specimen Enabling Services Agreement).
SRT Approach Document	has the meaning given to that expression in Section T5.5 (SRT Approach Document).
SRT Objective	has the meaning given to that expression in Section T5.2 (SRT Objective).
Stage 1 Assurance Report	has the meaning given to that expression in Part 4.4 of the SMKI Compliance Policy (Nature of the Initial Assessment).
Stage 2 Assurance Report	has the meaning given to that expression in Part 4.6 of the SMKI Compliance Policy (Nature of the Initial Assessment).
Statement of Service Exemptions	means a statement of that name developed by the DCC in accordance with Condition 17 of the DCC Licence.
Sub-Committee	has the meaning given to that expression in Section C6 (Sub-Committees).
Subject	in relation to a Certificate, has the meaning given to that expression in the relevant Certificate Policy.
Subscriber	means, in relation to any Certificate, SECCo, a Party or an RDP which has been Issued with and accepted that Certificate, acting in its capacity as the holder of the Certificate.
Subscriber Obligations	means the provisions in respect of Subscribers set out at Section L11 of the Code (the Subscriber Agreement

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Obligations).

Successfully Executed

means:

- (a) in respect of a Command and a Device, that the action that a Command of the relevant type is designed to effect in respect of a Device of the relevant Device Type has been effected on the Device; or
- (b) in respect of a Service Request and a Device, that the associated Command has been Successfully Executed on the Device as described in (a) above (or, in the case of Service Requests that are not designed to result in a Command, that the action that a Service Request of the relevant type is designed to effect has been effected).

Successor Licensee

has the meaning given to that expression in Section M9.2 (Application and Interpretation of Section M9).

Supplementary Remote Party

has the meaning given to that expression in the GB Companion Specification.

Supplier Party

means a Party that is an Electricity Supplier Party and/or a Gas Supplier Party.

Supply Meter Point

has the meaning given to that expression in the UNC.

Supply Meter Point Reference Number

has the meaning given to that expression in the UNC.

Supply Number

has the meaning given to that expression in the MRA.

Supply of Energy

means either or both of the supply of gas pursuant to the Gas Act and the supply of electricity pursuant to

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the Electricity Act (in each case within the meaning that is given to the expression “supply” in the respective Act).

Supply Sensitive Check

means a check carried out by a User in relation to a Supply Sensitive Service Request in order to confirm the intention of the User that the associated Command should be executed on the relevant Device, having regard to the reasonably foreseeable effect that the Command could have on the quantity of gas or electricity that is supplied to a consumer at premises.

Supply Sensitive Service Request

means any Service Request in respect of which it is reasonably foreseeable that the associated Command, if it were to be executed on the relevant Device, could affect (either directly or indirectly) the quantity of gas or electricity that is supplied to a consumer at premises.

Suspended

means, in respect of a Device, that the Device has been suspended (or deemed suspended) in accordance with Section H6.10 (Suspension); and the word “**Suspension**” shall be interpreted accordingly.

Symmetric Key

means any key derived from a Shared Secret in accordance with the GB Companion Specification

System

means a system for generating, sending, receiving, storing (including for the purposes of Back-Up), manipulating or otherwise processing electronic communications, including all hardware, software, firmware and Data associated therewith.

System Development Lifecycle

means, in relation to any System, the whole of the life of that System from its initial concept to ultimate disposal, including the stages of development, design,

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

build, testing, configuration, implementation, operation, maintenance, modification and decommissioning.

Systems Integration Testing means the testing described in Section T2 (Systems Integration Testing).

Target Availability Period means, in relation to the Self-Service Interface, a period of time in respect of each month, expressed in minutes and calculated as:

- (a) the total number of minutes in that month, minus
- (b) the number of minutes during which the relevant DCC Service Provider has, acting in compliance with Sections H8.2 and H8.3 (Maintenance of the DCC Systems), arranged for the Self-Service Interface to be unavailable during that month for the purposes of Planned Maintenance.

Target Resolution Time has the meaning given to that expression in Section H9.1 (Incident Management Policy).

Target Response Time has the meaning given to that expression in Section H3.14 (Target Response Times) or L8 (SMKI Performance Standards and Demand Management).

Target Service Level means, in respect of each Performance Measure, the number or percentage intended to represent a reasonable level of performance for the activity which is the subject of the Performance Measure, as set out in:

- (a) Section H13.1 (Code Performance Measures);
- (b) the Reported List of Service Provider

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Performance Measures; or

(c) Section L8.6 (Code Performance Measures).

TCH Participant	has the meaning given to that expression in Section F10.5 (Provision of Test Communications Hubs).
Technical Architecture and Business Architecture Sub-Committee	means the Sub-Committee established pursuant to Section F1 (Technical Architecture and Business Architecture Sub-Committee).
Technical Architecture Document	means a document setting out a representation of the End-to-End Technical Architecture.
Technical Code Specifications	means the Technical Specifications, the DCC Gateway Connection Code of Connection, the DCC User Interface Code of Connection, the DCC User Interface Specification, the Self-Service Interface Design Specification, the Self-Service Interface Code of Connection, the Registration Data Interface Documents, the Message Mapping Catalogue, the Incident Management Policy, the DCC Release Management Policy, the Panel Release Management Policy, the SMKI Interface Design Specification, the SMKI Code of Connection, the SMKI Repository Interface Design Specification and the SMKI Repository Code of Connection.
Technical Specification	means each of the CHTS and the SMETS.
Test Certificate	means a certificate that simulates the function of a Certificate for the purpose of testing pursuant to this Code.
Test Communications Hub	means: (a) until such date as the DCC may determine (or

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

such earlier date as the Secretary of State may designate for the purposes of this definition), a Prototype Communications Hub; and

- (b) after such date, a device that is equivalent to a Communications Hub but which contains such variations in functionality as the DCC reasonably considers appropriate to enable the device to be used for the purposes of testing, which device is provided (or to be provided) for the purpose of testing as described in Section F10 (Test Communications Hubs).

Test Repository

means a repository that simulates the function of the SMKI Repository for the purpose of testing pursuant to this Code.

Test Stubs

means Systems and actions which simulate the behaviour of Devices and User Systems.

Testing Issue

means, in respect of any tests:

- (a) anything that is preventing the execution of the tests; or
- (b) once commenced or executed, the test has an unexpected or unexplained outcome or response.

Testing Objectives

means one or more of the SIT Objective and the Interface Testing Objective.

Testing Participant

means, in respect of each Testing Service, the persons (whether or not they are Parties) who are entitled to undertake such tests, as described in Section H14 (Testing Services), together with any other persons identified as such in Section T (Testing During Transition).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Testing Service has the meaning given to that expression in Section H14.1 (General Testing Requirements).

Threshold Anomaly means the DCC processes which:

Detection

- (a) in respect of any User, detect whether the total number of communications (in general or of a particular type) sent, received or processed by the DCC in relation to that User exceeds the relevant Anomaly Detection Threshold;
- (b) in respect of the DCC, detect whether:
 - (i) the total number of communications of a particular type sent, received or processed by the DCC in relation to all Users and the CoS Party exceeds the relevant Anomaly Detection Threshold; and
 - (ii) a data value within a communication of a particular type sent, received or processed by the DCC in relation to a User exceeds or is less than the relevant Anomaly Detection Threshold; and
- (c) quarantine those communications that, in the case of paragraph (a) or (b)(i) above, are in excess of the relevant Anomaly Detection Threshold or, in the case of paragraph (b)(ii) above, contain a data value that exceeds or is less than the relevant Anomaly Detection Threshold.

Threshold Anomaly means the SEC Subsidiary Document of that name set
Detection Procedures out in Appendix [TBC], which:

- (a) has the purpose described in Section G6.1 (Threshold Anomaly Detection Procedures); and

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(b) is originally to be developed pursuant to Section X10 (Threshold Anomaly Detection Procedures).

Transform

means, in respect of a Service Request in relation to a Device, the conversion of that Service Request into one or more corresponding Commands (less any required Message Authentication Code or Digital Signatures), where such correspondence is identified in the DCC User Interface Specification in respect of particular types of Service Request and particular Device Types; and “**Transformed**” shall be interpreted accordingly.

Transition Objective

has the meaning given to that expression in Section X1 (General Provisions Regarding Transition).

Type 1 Device

means a HAN Connected Auxiliary Load Control Switch or a Pre-Payment Meter Interface Device.

Type 2 Device

has the meaning given to that expression in the SMETS.

Type 2 Device (Other)

means a Type 2 Device that is not an IHD.

UKAS

means the United Kingdom Accreditation Service

Unambiguous Consent

means the explicit and informed consent of an Energy Consumer given to a User to undertake a specified action, and that consent shall not be treated as having been given explicitly unless the Energy Consumer has:

(a) of his or her own volition, communicated to the User a request for it to undertake that action; or

(b) in response to a specific request by the User

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

for him or her to indicate consent to it
undertaking that action, taken a positive step
amounting to a clear communication of that
consent.

UNC means the Uniform Network Code established pursuant to the Gas Transporter Licences.

Unique Transaction Reference Number has the meaning given to that expression in the GB Companion Specification.

Unknown Remote Party has the meaning given to that expression in the GB Companion Specification.

Unplanned Maintenance means, in respect of a month, Maintenance of the DCC Systems that was not planned prior to the start of that month and which disrupts, will disrupt, or poses a Material Risk of disruption to, provision of the Services (and, where it disrupts, will disrupt, or poses a Material Risk of disruption to, the provision of the Services in relation to Devices associated with Communications Hubs, at least 100,000 Communications Hubs are affected).

UPRN means the unique property reference number (if any) recorded in respect of a premises so as to link the MPAN(s) and MPRN for that premises.

Urgent Proposal has the meaning given to that expression in Section D4.6 (Urgent Proposals).

User means a Party that has completed the User Entry Process (and, in respect of Services available in accordance with this Code to Users acting only in one or more User Roles, a Party that has completed the

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

User Entry Process for that User Role).

User Entry Process	means the process described in Section H1 (User Entry Process).
User Entry Process Tests	means the tests described in Section H14.13 (User Entry Process Tests).
User ID	means, in respect of a User and a User Role, one of the unique identification numbers accepted by the DCC in respect of that User and that User Role under Section H1.6 (User Roles and User IDs).
User Independent Security Assurance Service Provider	has the meaning given to that expression in Section G8.1 (Procurement of the Independent Security Assurance Service Provider).
User Personnel	means those persons who are engaged by a User, in so far as such persons carry out, or are authorised to carry out, any activity in relation to the business of the User in the exercise of rights and compliance with obligations under this Code.
User Privacy Self-Assessment	has the meaning given to that expression in Section I2.12 (Categories of Assessment).
User Privacy Self-Assessment Report	has the meaning given to that expression in Section I2.24 (The User Privacy Self-Assessment Report).
User Role	means, in respect of the Service set out in the DCC User Interface Services Schedule and Elective Communication Services, one of the categories of User that is capable of being an Eligible User in respect of those Services (determined without reference to a particular Smart Metering System), and which comprise the following categories (construed

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

without reference to a particular Smart Metering System): Import Supplier, Export Supplier, Gas Supplier, Electricity Distributor, Gas Transporter, Registered Supplier Agent and Other User.

User Security Assessment means either a Full User Security Assessment or a Verification User Security Assessment.

User Security Assessment Methodology means a methodology to be applied (as the case may be):

- (a) by the User Independent Security Assurance Service Provider in carrying out any User Security Assessment; or
- (b) by a User, in carrying out any User Security Self-Assessment,

in each case in accordance with the provisions of the Security Controls Framework applicable to the relevant category of security assurance assessment.

User Security Assessment Report has the meaning given to that expression in Section G8.22 (User Security Assessments: General Procedure).

User Security Assessment Response has the meaning given to that expression in Section G8.24 (User Security Assessments: General Procedure).

User Security Self-Assessment has the meaning given to that expression in Section G8.18 (Categories of Security Assurance Assessment).

User Systems means any Systems (excluding any Devices) which are operated by or on behalf of a User and used in whole or in part for:

- (a) constructing Service Requests;

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) sending Service Requests over the DCC User Interface;
- (c) receiving, sending, storing, using or otherwise carrying out any processing in respect of any Pre-Command or Signed Pre-Command;
- (d) receiving Service Responses or Alerts over the DCC User Interface;
- (e) generating Data for communication to the OCA, DCA, ICA or DCCKICA, or receiving Data from the OCA, DCA, ICA or DCCKICA (including any Systems which store or use Secret Key Material for such purposes); and/or
- (f) generating Data for the purposes of lodging in the SMKI Repository or DCCKI Repository, or retrieving Data from the SMKI Repository or DCCKI Repository; and/or
- (g) generating any Unique Transaction Reference Number,

and any other Systems from which the Systems used in whole or in part for the purposes set out in paragraphs (a) to (g) are not Separated.

Valid Communications Hub Order

means the Consignment or Consignments which arise from a Communications Hub Order that has been accepted by the DCC under Section F5.16 or F5.17 (DCC: Duties in relation to Communications Hub Orders), and which have not been cancelled by the ordering Party in accordance with Section F5.19 (Non-Standard Cancellation of Consignments).

Valid Technical Specification

means, in respect of a Technical Specification and a device which was installed at a particular point in

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

time, one of the versions of that Technical Specification that has (or had) a validity period including that point in time (where validity period is the period identified as such within that version of the Technical Specification).

~~**Valid Communications Hub Order** means the Consignment or Consignments which arise from a Communications Hub Order that has been accepted by the DCC under Section F5.16 or F5.17 (DCC: Duties in relation to Communications Hub Orders), and which have not been cancelled by the ordering Party in accordance with Section F5.19 (Non-Standard Cancellation of Consignments).~~

Validity Period has the meaning given to that expression in any of the Certificate Policies or the DCCKI Certificate Policy.

Value at Risk has the meaning given to that expression in Section J3.3 (User's Value at Risk).

VAT means VAT, as defined in the Value Added Tax Act 1994, and any tax of a similar nature which may be substituted for or levied in addition to it.

Verification User Security Assessment has the meaning given to that expression in Section G8.17 (Categories of Security Assurance Assessment).

Verify means, in respect of a Service Request, to confirm that it meets all the applicable requirements of the DCC User Interface Specification.

Volume Scenarios means the capacity levels to which the DCC Systems will be tested.

Voting Group means, in respect of each Party Category, each Party that falls into that Party Category collectively with that

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Party’s Affiliates (if any) who also fall into that Party Category.

WAN Variants

means the variations of Communications Hub that are necessary to enable communications via the SM WAN in each Region (and each part thereof that is not subject to the Statement of Service Exemptions).

Website

means a dedicated website established at the direction of the Panel for the purposes of this Code.

Withdrawal

means, in respect of a Smart Metering System (or a Device), the act of ending that Smart Metering System’s Enrolment (or, in the case of a Device, of ending the Enrolment of the Smart Metering System of which that Device forms part) in accordance with Section H6.7 (Withdrawal); and the words “**Withdraw**” and “**Withdrawn**” shall be interpreted accordingly.

Working Day

means any day other than a Saturday, a Sunday, Christmas Day, Good Friday, or a day that is a bank holiday within the meaning of the Banking and Financial Dealings Act 1971.

Working Group

has the meaning given to that expression in Section D6.2 (Establishment of a Working Group).

Zigbee Alliance

means the association of that name administered by ZigBee Alliance Inc (2400 Camino Ramon, Suite 375, San Ramon, CA 94583, USA) (see - www.zigbee.org).

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

A2 INTERPRETATION

A2.1 In this Code, unless the context otherwise requires, any reference to:

- (a) a “person” includes a reference to an individual, a body corporate, an association, a partnership or a Competent Authority;
- (b) the singular includes the plural, and vice versa;
- (c) a gender includes every gender;
- (d) a Section or Schedule is a reference (respectively) to the section of, or schedule to, this Code which bears the relevant letter, number or letter and number;
- (e) a numbered Paragraph or a numbered Clause is a reference to the paragraph or clause of the Schedule or Appendix in which such reference occurs;
- (f) a numbered Condition (with or without a letter) is a reference to the licence condition bearing that number (and, where relevant, letter) in the Energy Licence indicated (and, save in the case of the DCC Licence, is a reference to the standard licence conditions of that Energy Licence);
- (g) writing (or similar) includes all methods of reproducing words in a legible and non-transitory form (including email);
- (h) a day, week or month is a reference (respectively) to a calendar day, a week starting on a Monday, or a calendar month;
- (i) a time is a reference to that time in the UK;
- (j) any statute or statutory provision includes any subordinate legislation made under it, any provision which it has modified or re-enacted, and any provision which subsequently supersedes or re-enacts it (with or without modification);
- (k) an agreement, code, licence or other document is to such agreement, code, licence or other document as amended, supplemented, novated or replaced from time to time;

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (l) a Party shall include reference to that Party's respective successors, (in the case of the DCC) to the person to whom the DCC may novate its rights and obligations pursuant to Section M9 (Transfer of DCC Licence), and (as the context permits) reference to the respective persons to whom that Party may sub-contract or otherwise delegate its rights and/or obligations under this Code in accordance with Section M11.8 and M11.9 (which shall include, in the case of the DCC, reference to the DCC Service Providers);
- (m) any premises of a Party shall include references to any premises owned or occupied by that Party and (as the context permits) by the respective persons to whom that Party may sub-contract or otherwise delegate its rights and/or obligations under this Code in accordance with Section M11.8 and M11.9 (which shall include, in the case of the DCC, reference to the DCC Service Providers);
- (n) a Competent Authority or other public organisation includes a reference to its successors, or to any organisation to which some or all of its functions and responsibilities have been transferred; and
- (o) an expression that is stated to have the meaning given to it in an Energy Licence (other than the DCC Licence) is a reference to that expression as defined in the standard licence conditions for the Energy Licence indicated.

A2.2 The headings in this Code are for ease of reference only and shall not affect its interpretation.

A2.3 In this Code, the words preceding "include", "including" or "in particular" are to be construed without limitation to the generality of the words following those expressions.

A2.4 The language of this Code is English. All notices and other communications sent between any of the Parties, the Panel, SECCo, the Code Administrator and the Secretariat shall be in English.

A2.5 Except where expressly stated to the contrary, in the event of any conflict between the provisions of this Code, the following order of precedence shall apply:

SEC – Section A: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the Sections, as among which Section X (Transition) shall take precedence; then
- (b) the Schedules; then
- (c) the SEC Subsidiary Documents.

A2.6 Except to the extent that any provision of Section T (Testing During Transition) otherwise provides (in which case that provision shall take precedence), Section A2.7 shall apply, during the period prior to Completion of Implementation, where initial capital letters are used for any expression in this Code that either is not defined in this Code or the definition of which cannot be given effect by reference to the provisions of this Code.

A2.7 Any expression of the type referred to in Section A2.6 shall be interpreted as having the meaning given to that expression in the decision or consultation document concerning the intended future definition of such expression most recently published by the Secretary of State prior to the date on which this Section A2.7 comes into force.

A2.8 Where no time period is specified for performance of any obligation under this Code, the obligation shall be performed as soon as reasonably practicable.

SECTION B: ACCESSION

B1 ACCESSION

Eligibility for Admission

B1.1 Any person who applies to be admitted as a Party (an **Applicant**) shall be entitled to be admitted as a Party, subject to and in accordance with the provisions of this Section B1.

B1.2 An Applicant may not be admitted as a Party if:

- (a) it is already a Party; or
- (b) it was expelled from this Code in accordance with Section M8 (Suspension, Expulsion and Withdrawal) within the 12 months preceding the date of its application (or such shorter period as the Panel may determine from time to time).

Application Form and Guidance

B1.3 The Code Administrator shall create an Application Form, and publish such form on the Website.

B1.4 The Code Administrator shall establish and publish on the Website a guide for Applicants describing, and providing guidance in respect of, the process set out in this Section B1 (the **Application Guidance**).

Application Fee

B1.5 The Panel shall determine (and publish on the Website) a fee from time to time (the **Application Fee**) to be payable by Applicants to SECCo. The Panel shall set the Application Fee at a level intended to recover the reasonable costs incurred by or on behalf of the Panel (including amounts payable to the Code Administrator) in administering the process set out in this Section B1.

B1.6 The Code Administrator shall include within the Application Guidance details of the methods by which the Application Fee may be paid.

SEC – Section B: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Accession Process

- B1.7 An Applicant shall submit to the Code Administrator a duly completed Application Form (together with any supporting documents required by that form), and the Application Fee (by a method of payment provided for in the Application Guidance).
- B1.8 As soon as reasonably practicable following receipt of an Application Form and the Application Fee from an Applicant, the Code Administrator shall:
- (a) notify the Applicant if it is ineligible to be admitted as a Party in accordance with Section B1.2;
 - (b) where the Applicant is not ineligible, check that the Application Form has been duly completed and that any supporting documentation requested has been provided, and notify the Applicant of any omissions; and
 - (c) where there are no such omissions, notify the Applicant and the Panel that the Applicant is to be admitted as a Party subject to execution of an Accession Agreement.

Accession Agreement

- B1.9 Where an Applicant is to be admitted as a Party in accordance with Section B1.8(c), the Code Administrator shall prepare two counterparts of the Accession Agreement for the Applicant (in substantially the form of the Specimen Accession Agreement), and send them to the Applicant.
- B1.10 An Applicant that wishes to proceed with its accession to this Code should sign (but not date) both counterparts of the Accession Agreement, and return them to the Code Administrator.
- B1.11 Upon return to the Code Administrator of the two counterparts of the Accession Agreement as envisaged by Section B1.10, the Panel shall procure that (as soon as reasonably practicable thereafter) SECCo:
- (a) signs each counterpart on behalf of itself and all the Parties (as it is authorised to do under Section B1.14); and

SEC – Section B: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(b) dates each counterpart with the date of such execution.

B1.12 The Code Administrator shall return one signed and dated counterpart of the Accession Agreement to the Applicant, and retain the other counterpart for the Panel's records.

Accession

B1.13 An Applicant will accede to this Code and become a Party with effect from the date of its executed Accession Agreement. The Code Administrator shall give notice of each Applicant's accession to the Applicant, to each other Party and to the Authority. Such notice will confirm the Applicant's Party Details.

SECCo Authority to enter into Accession Agreements

B1.14 Subject to and in accordance with this Section B1, each Party hereby irrevocably and unconditionally authorises SECCo to execute and deliver, on behalf of such Party, any and all Accession Agreements that are substantially in the form of the Specimen Accession Agreement and that have been signed by an Applicant.

Disputes Regarding Admission

B1.15 Where an Applicant disagrees with any decision of the Code Administrator pursuant to Section B1.8, the Applicant may refer the matter to the Panel for determination.

B1.16 Where an Applicant disagrees with any decision of the Panel made pursuant to Section B1.15, the Applicant may refer the matter to the Authority for its determination, which shall be final and binding for the purposes of this Code.

Party Signifiers

B1.17 On an Applicant acceding to this Code and becoming a Party, the Panel shall as soon as reasonably practicable thereafter issue to it a Party Signifier.

B1.18 The Code Administrator shall notify the DCC of each Party Signifier issued to a Party in accordance with Section B1.17.

RDP Signifiers

SEC – Section B: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

B1.19 The Panel shall issue to a Registration Data Provider (other than a Gas Network Party or Electricity Network Party which is deemed to be an RDP, acting in its capacity as such) an RDP Signifier:

- (a) as soon as reasonably practicable after receipt of a request from that RDP for it to do so; or
- (b) in any event prior to issuing an RDP ID, following receipt of an application from that RDP for it to do so.

B1.20 The Code Administrator shall notify the DCC of each RDP Signifier issued to an RDP in accordance with Section B1.19.

MRA and UNC Identifiers

B1.21 The Panel shall, as soon as reasonably practicable after a person becomes a Party, notify the DCC of the unique identifiers (if any) by which such person is identified under the MRA or the UNC, as set out in the Party Details contained in the relevant Accession Agreement. The Panel shall, as soon as reasonably practicable after a Party notifies any change or addition to such unique identifiers under Section M6 (Party Details), notify the DCC of such change or addition.

SECCo

B1.22 The provisions of Sections B1.17 and B1.18 (Party Signifiers) shall apply to SECCo as if it was a Party and as if it had been an Applicant.

SEC – Section B: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

B2 DCC, USER AND RDP IDENTIFIERS

Panel: Duty to Obtain MA-S Registry Entries

B2.1 The Panel shall obtain one or more MA-S Registry Entries to the extent necessary for the purpose of establishing and issuing EUI-64 Compliant identifiers for use as User IDs, RDP IDs and/or DCC IDs in accordance with the provisions of this Section B2.

ID Allocation Procedure

B2.2 The Panel shall develop and maintain a document to be known as the "**ID Allocation Procedure**", which shall:

- (a) make provision for the Panel to establish and issue Party and RDP Signifiers, each of which must be unique under this Code but which need not be EUI-64 Compliant;
- (b) make provision for the Panel to establish EUI-64 Compliant identifiers by the concatenation of:
 - (i) the assigned value of an MA-S Registry Entry obtained by it; and
 - (ii) a unique extension identifier created by it;
- (c) describe the numbering convention to be used by the Panel for the purpose of creating those unique extension identifiers;
- (d) set out the application procedure to be followed by any Party which wishes to be issued with an EUI-64 Compliant identifier for use as a User ID or DCC ID, or by any RDP which wishes to be issued with an EUI-64 Compliant identifier for use as an RDP ID; and
- (e) set out the procedure to be followed by the Panel in issuing an EUI-64 Compliant identifier to any Party or RDP for such purposes.

B2.3 In developing the ID Allocation Procedure, the Panel shall act in conjunction with the DCC and such other Parties and RDPs as have indicated a wish to be involved, and shall consult with and have regard to the views of all Parties and RDPs.

B2.4 The Panel shall keep the ID Allocation Procedure under review from time to time, and

SEC – Section B: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

in particular when requested to do so by any Party or RDP, in order to ensure that it remains fit for purpose. Before making any change to the ID Allocation Procedure the Panel shall consult with and have regard to the views of all Parties and RDPs.

Issue of DCC, User and RDP IDs

B2.5 Where:

- (a) the DCC wishes to be issued with an EUI-64 Compliant identifier for use as a DCC ID;
- (b) another Party wishes to be issued with an EUI-64 Compliant identifier for use as a User ID; or
- (c) an RDP wishes to be issued with an EUI-64 Compliant identifier for use as an RDP ID,

it shall, in accordance with the provisions of the ID Allocation Procedure, apply to the Panel for the issue of that identifier.

B2.6 No Party or RDP may apply to the Panel for the issue of an EUI-64 Compliant identifier other than for one of the purposes specified in Section B2.5.

B2.7 On receiving an application from a Party or RDP in accordance with Section B2.5, the Panel shall issue an EUI-64 Compliant identifier in accordance with the provisions of the ID Allocation Procedure.

Issue of Party and RDP Signifiers

B2.8 The Panel shall issue Party and RDP Signifiers to the Code Administrator from time to time, in accordance with the provisions of the ID Allocation Procedure, for their allocation by the Code Administrator to new Parties pursuant to Section B1.17 (Party Signifiers) and to RDPs pursuant to Section B1.19 (RDP Signifiers).

Record of Signifiers and IDs Issued

B2.9 The Panel shall:

- (a) maintain an up to date record of the Party and RDP Signifiers and the EUI-64

SEC – Section B: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Compliant identifiers issued by it pursuant to this Section B2 (and, where applicable, the mapping between them), and make that record available to all Parties and RDPs; and

- (b) notify the DCC of any EUI-64 Compliant identifier that it has issued to:
 - (i) a Party for use as a User ID and the corresponding Party Signifier of that Party; or
 - (ii) an RDP for use as an RDP ID and the corresponding RDP Signifier of that RDP.

SECTION C – GOVERNANCE

C1 SEC OBJECTIVES

General SEC Objectives

C1.1 The objectives of this Code otherwise than in respect of the Charging Methodology are set out in Condition 22 of the DCC Licence (such objectives being the **General SEC Objectives**). For ease of reference, the General SEC Objectives are set out below using the terminology of this Code (but in the case of any inconsistency with the DCC Licence, the DCC Licence shall prevail):

- (a) the first General SEC Objective is to facilitate the efficient provision, installation, and operation, as well as interoperability, of Smart Metering Systems at Energy Consumers' premises within Great Britain;
- (b) the second General SEC Objective is to enable the DCC to comply at all times with the General Objectives of the DCC (as defined in the DCC Licence), and to efficiently discharge the other obligations imposed upon it by the DCC Licence;
- (c) the third General SEC Objective is to facilitate Energy Consumers' management of their use of electricity and gas through the provision to them of appropriate information by means of Smart Metering Systems;
- (d) the fourth General SEC Objective is to facilitate effective competition between persons engaged in, or in Commercial Activities connected with, the Supply of Energy;
- (e) the fifth General SEC Objective is to facilitate such innovation in the design and operation of Energy Networks (as defined in the DCC Licence) as will best contribute to the delivery of a secure and sustainable Supply of Energy;
- (f) the sixth General SEC Objective is to ensure the protection of Data and the security of Data and Systems in the operation of this Code;
- (g) the seventh General SEC Objective is to facilitate the efficient and transparent

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

administration and implementation of this Code;

- (h) the eighth General SEC Objective is to facilitate the establishment and operation of the Alt HAN Arrangements.

Transition Objective

C1.2 As provided for in Condition 22 of the DCC Licence, during the period prior to the Completion of Implementation, the General SEC Objectives must be read and given effect (so far as it is possible to do so) in a way that is compatible with achieving the Transition Objective.

Charging Objectives

C1.3 The objectives of this Code in respect of the Charging Methodology only (such objectives being the **Charging Objectives**) comprise the “**First Relevant Policy Objective**”, the “**Second Relevant Policy Objective**” and the “**Third Relevant Policy Objective**” as set out in Condition 18 of the DCC Licence. For ease of reference, the First Relevant Policy Objective, the Second Relevant Policy Objective and the Third Relevant Policy Objective are set out in Sections C1.4, C1.5 and C1.6 using the terminology of this Code (but in the case of any inconsistency with the DCC Licence, the DCC Licence shall prevail).

C1.4 The First Relevant Policy Objective:

- (a) applies in relation to Smart Metering Systems installed (or to be installed) at Domestic Premises; and
- (b) requires the Charging Methodology to ensure that Charges (other than Charges for Elective Communication Services) in respect of such Smart Metering Systems do not distinguish (whether directly or indirectly) between Energy Consumers at Domestic Premises in different parts of Great Britain.

C1.5 The Second Relevant Policy Objective applies in relation to SMETS1 Meters. The Second Relevant Policy Objective is that, subject to compliance with the First Relevant Policy Objective, the Charging Methodology must (other than in respect of Elective Communication Services) (in each of the following cases, as far as is reasonably practicable in all of the circumstances of the case, having regard to the

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

costs of implementing the Charging Methodology):

- (a) result in Charges that are the same for SMETS1 Meters as they are for Smart Metering Systems, save that no Charges for Communications Hub Services will apply to SMETS1 Meters;
- (b) notwithstanding (a) above (where the Costs of Communications for a SMETS1 Meter exceeds the Costs of Communications for a Smart Metering System, and where an Original Supplier for the Energy Supplier Contract relating to that SMETS1 Meter is (and has at all times since the adoption of the Energy Supplier Contract been) a supplier of electricity and/or gas to the premises at which that SMETS1 Meter is installed), result in Charges that ensure that the excess Costs of Communications are recovered from the Original Supplier from time to time (in addition to the Charges referred to in (a) above),

and, for the purposes of this Section C1.5, the terms “**SMETS1 Meters**”, “**Costs of Communications**”, “**Original Supplier**” and “**Energy Supplier Contract**” shall have the meaning given to those terms in the DCC Licence.

C1.6 The Third Relevant Policy Objective is that, subject to compliance with the First and Second Relevant Policy Objectives, the Charging Methodology must result in Charges that:

- (a) facilitate effective competition in the Supply of Energy (or its use) under the Electricity Act and the Gas Act;
- (b) do not restrict, distort, or prevent competition in Commercial Activities that are connected with the Supply of Energy under the Electricity Act and the Gas Act;
- (c) do not deter the full and timely installation by Energy Suppliers of Smart Metering Systems at Energy Consumers’ premises in accordance with their obligations under the Energy Supply Licence; and
- (d) do not unduly discriminate in their application and are reflective of the costs incurred by the DCC, as far as is reasonably practicable in all of the circumstances of the case, having regard to the costs of implementing the

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Charging Methodology.

C1.7 The Charging Methodology will achieve the Third Relevant Policy Objective if it is compliant with the provisions of Section C1.6 in the round, weighing them as appropriate in each particular case.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C2 PANEL

Establishment of the Panel

C2.1 The Panel is hereby established. The Panel shall:

- (a) pursue the objectives, undertake the duties, and have the powers, set out in Sections C2.2 to C2.4;
- (b) be composed of the Panel Members described in Section C3 (Panel Members), some of whom will be elected in accordance with Section C4 (Elected Members); and
- (c) conduct its activities in accordance with the procedures set out in Section C5 (Proceedings of the Panel).

Panel Objectives

C2.2 The Panel shall, in all its activities, always act in a manner designed to achieve the following objectives (the **Panel Objectives**):

- (a) that this Code is given full and prompt effect in accordance with its terms and conditions;
- (b) that this Code is given effect in such a manner as will facilitate achievement of the SEC Objectives;
- (c) that this Code is given effect in a fair manner without undue discrimination between the Parties or any classes of Party; and
- (d) that the Panel conducts its affairs in an open and transparent manner.

Panel Duties

C2.3 Without prejudice to any other tasks, duties or obligations imposed on the Panel in this Code, the Panel shall, subject to and in accordance with the other provisions of this Code:

- (a) oversee the process by which Applicants apply to become a Party, as set out in Section B (Accession);

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) manage the Code Administrator and Secretariat, and oversee their performance;
- (c) develop, consult upon, and report upon its performance against three-year budgets and work plans in accordance with Section C8 (Panel Costs and Budgets);
- (d) oversee and co-ordinate the process for assessing Modification Proposals, and implement successful Modification Proposals, each as set out in Section D (Modification Process);
- (e) manage and co-ordinate arrangements for the resolution of certain Disputes under or in relation to this Code, as set out in Section M7.3 (Reference to the Panel or its Sub-Committees);
- (f) manage and co-ordinate the suspension of Parties' rights under this Code, as set out in Section M8 (Suspension, Expulsion and Withdrawal);
- (g) manage and co-ordinate the withdrawal or expulsion of Parties from this Code, as set out in Section M8 (Suspension, Expulsion and Withdrawal);
- (h) by no later than 30 Working Days following the end of each Regulatory Year prepare and publish a report on the implementation of this Code and the activities of the Panel during that Regulatory Year, including so as to evaluate whether this Code continues to meet the SEC Objectives (and in respect of the Alt HAN Arrangements the Panel shall be entitled to rely on and report any information provided to it by the Alt HAN Forum for that purpose);
- (i) at the written request of the Authority at any time, undertake a review of such parts of this Code as the Authority may specify to evaluate whether this Code continues to meet the SEC Objectives;
- (j) at the written request of the Authority, collect and provide to the Authority (or publish in such manner as the Authority may direct) such information regarding the SEC Arrangements as the Authority may reasonably request (and each Party shall provide to the Panel such information as the Panel reasonably requires in order to enable the Panel to comply with any such

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

request of the Authority);

- (k) hold a general meeting during the month of July each year, which each Panel Member will (subject to unforeseen circumstances) attend, at which a representative of each Party shall be entitled to attend and speak, and at which the Panel will endeavour to answer any reasonable questions submitted to the Secretariat in advance of the meeting;
- (l) establish (and, where appropriate, revise from time to time) joint working arrangements with the panels, committees and administrators responsible for the governance and operation of other Energy Codes, in order to facilitate the timely:
 - (i) identification, co-ordination, making and implementation of changes to other Energy Codes consequent on a Modification Proposal (and vice versa); and
 - (ii) identification and coordinated resolution of Disputes and disputes under other Energy Codes (in circumstances where there is an interaction between the Dispute and one or more disputes under the other Energy Codes);
- (m) establish joint working arrangements with the Information Commissioner pursuant to which the Panel shall notify the Information Commissioner of matters in which the Panel believes the Information Commissioner may have an interest; and
- (n) periodically commission a review of the effectiveness of the End-to-End Technical Architecture and the Business Architecture by the Technical Architecture and Business Architecture Sub-Committee, as further described in Section F1 (Technical Architecture and Business Architecture Sub-Committee).

Panel Powers

C2.4 Without prejudice to any other rights or powers granted to the Panel in this Code, the Panel shall, subject to and in accordance with the other provisions of this Code, have

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the power to:

- (a) appoint and remove the Code Administrator and the Secretariat in accordance with Section C7 (Code Administrator, Secretariat and SECCo);
- (b) appoint and remove professional advisers;
- (c) consider, approve and authorise the entering into by SECCo of contracts in accordance with Section C7 (Code Administrator, Secretariat and SECCo);
- (d) constitute Sub-Committees in accordance with Section C6 (Sub-Committees);
- (e) consider, approve and authorise the licensing, sub-licensing, or any other manner of dealing with the Intellectual Property Rights in the SEC Materials, for any use which does not hinder, delay or frustrate, in any way whatsoever, the SEC Objectives;
- (f) direct SECCo to become a Subscriber for IKI Certificates, on behalf of the Panel and for the purpose of Digitally Signing the Certified Products List; and
- (g) do anything necessary for, or reasonably incidental to, the discharge of its duties under this Code.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C3 PANEL MEMBERS

Panel Composition

C3.1 The Panel shall be composed of the following categories of persons (each a **Panel Member**, and the Panel Members referred to in Sections C3.1(a) to (e) being the **Elected Members**):

- (a) two persons elected by the Large Supplier Parties;
- (b) two persons elected by the Small Supplier Parties;
- (c) one person elected by the Electricity Network Parties;
- (d) one person elected by the Gas Network Parties;
- (e) two persons elected by the Other SEC Parties;
- (f) one person nominated by the DCC in accordance with Section C3.3 (the **DCC Member**);
- (g) two persons nominated in accordance with Section C3.4 (the **Consumer Members**);
- (h) one person appointed in accordance with Section C3.5 (the **Panel Chair**); and
- (i) any additional person appointed by the Panel Chair in accordance with Section C3.6.

C3.2 Each Panel Member must be an individual (and cannot be a body corporate, association or partnership). No one person can hold more than one office as a Panel Member.

DCC Member

C3.3 The DCC Member shall be one person nominated by the DCC by notice to the Secretariat. The DCC may replace such person from time to time by prior notice to the Secretariat.

Consumer Members

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C3.4 The Consumer Members shall be two persons nominated by Citizens Advice or Citizens Advice Scotland by notice to the Secretariat from time to time. Citizens Advice or Citizens Advice Scotland may replace each such person from time to time by prior notice to the Secretariat.

Appointment of the Panel Chair

C3.5 The first Panel Chair to be appointed following the designation of this Code shall be appointed in accordance with the appointment process developed in accordance with Section X (Transition). Thereafter, each Panel Chair shall be appointed in accordance with the same process, as modified from time to time by the Panel; provided that such process as modified must be designed to ensure that:

- (a) the candidate selected is sufficiently independent of any particular Party or class of Parties;
- (b) the appointment is conditional on the Authority approving the candidate;
- (c) the Panel Chair is appointed for a three-year term (following which he or she can apply to be re-appointed);
- (d) the Panel Chair is remunerated at a reasonable rate;
- (e) the Panel Chair's appointment is subject to Section C3.8 and terms equivalent to those set out in Section C4.6 (Removal of Elected Members); and
- (f) provision is made for the Panel Chair to continue in office for a reasonable period following the end of his or her term of office in the event of any delay in appointing his or her successor.

Panel Chair Appointee

C3.6 Where at any time:

- (a) no person is currently appointed as a Panel Member pursuant to this Section C3.6; and
- (b) the Panel Chair (having consulted with the other Panel Members) considers that there is a class or category of person having an interest in the SEC

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Arrangements whose interests are not adequately represented in the composition of the Panel at that time, and whose interests would be better represented if a particular person were appointed as an additional Panel Member,

the Panel Chair may (having consulted with the other Panel Members) appoint that particular person as a Panel Member by notice to the Secretariat. The Panel Chair may (having consulted with the other Panel Members), at any time thereafter by notice to the Secretariat, remove that person from the office of Panel Member.

Duties of Panel Members

- C3.7 A person appointed as Panel Member, when acting in that capacity, shall:
- (a) act independently, not as a delegate, and without undue regard to the interests, of any Related Person;
 - (b) exercise reasonable skill and care to the standard reasonably expected of a director of a company under the Companies Act 2006; and
 - (c) act in a manner designed to facilitate the performance by the Panel of its duties under this Code.

Panel Member Confirmation

- C3.8 Each Panel Member must confirm in writing to SECCo (for the benefit of SECCo and each Party) that that person:
- (a) agrees to act as a Panel Member in accordance with this Code, including the requirements of Section C3.7; and
 - (b) agrees to accept appointment as a director of SECCo, and to act in such capacity in accordance with this Code; and
 - (c) will be available as reasonably required throughout his or her term of office, both to attend Panel meetings and to undertake work outside those meetings as may reasonably be required,

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

and must further complete any and all forms required to be completed by law in order for that person to become a director of SECCo.

C3.9 The appointment of a person who would otherwise be a Panel Member shall lapse (and the relevant office shall become vacant) if that person does not comply with the requirements of Section C3.8 within 20 Working Days after a request from the Secretariat to do so.

Notification of Related Persons

C3.10 Each Panel Member shall, at the time of his appointment and upon any relevant change in circumstance, disclose, in writing to the Panel, the name of each Related Person who is a Party, a DCC Service Provider or is otherwise likely to be materially affected by the SEC Arrangements (other than in the capacity of Energy Consumer).

C3.11 Without prejudice to the generality of Section C3.10, where a Panel Member changes employer, the Panel Member shall (as soon as reasonably practicable after such change) notify the Secretariat of such change in writing. The Secretariat shall then notify the Parties of such change in employer.

Protections for Panel Members and Others

C3.12 SECCo shall indemnify, and keep indemnified:

- (a) each Panel Member (whether as a Panel Member or as a director of SECCo);
- (b) each Reserve (whether acting as an Alternate or otherwise);
- (c) each person who serves on a Sub-Committee or Working Group; and
- (d) each Party, or an Affiliate of a Party, as employer of any person referred to in Sections C3.12(a) to (c),

from and against any and all costs (including legal costs), charges, expenses, damages or other liabilities properly incurred or suffered by that person or employer in relation to the exercise of the person's powers duties or responsibilities under this Code, including where such powers duties or responsibilities are exercised

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

negligently. The persons and employers shall be entitled to enforce their rights under this Section C3.12 pursuant to Section M11.5 (Third Party Rights).

C3.13 The indemnity set out in Section C3.12 shall not apply to any costs, charges, expenses, damages or other liabilities that are:

- (a) costs and expenses expressly stated to be incapable of recovery by the Panel under Section C8 (Panel Costs and Budgets); or
- (b) suffered or incurred or occasioned by the wilful default, fraud or bad faith of ~~or breach of contract by~~ the relevant person.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C4 **ELECTED MEMBERS**

Elected Members

C4.1 The first Elected Members to be appointed on the designation of this Code shall be appointed in accordance with Section X (Transition). All other Elected Members shall be elected in accordance with the process set out in Section C4.2. Each Elected Member shall serve as a Panel Member until his or her retirement in accordance with Section C4.4, or until he or she is removed from office in accordance with Section C3.9, C4.5 or C4.6.

Election of Elected Members

C4.2 The process set out in this Section C4.2 shall apply in respect of the election of each Elected Member. This process shall apply in respect of Elected Member vacancies arising by virtue of a Panel Member's retirement in accordance with Section C4.4 (a **Scheduled Election**), or a Panel Member being removed from office in accordance with Section C3.9, C4.5 or C4.6 (an **Interim Election**). In each case, the following process shall apply:

- (a) each Elected Member is to be elected by a Party Category as described in Section C3.1;
- (b) each Voting Group within a Party Category is entitled to cast one vote in the election of the Panel Member(s) to be elected by that Party Category;
- (c) the Secretariat shall publish on the Website and send to each Party within the relevant Party Category an invitation for nominations for candidates for the role of Elected Member for that Party Category;
- (d) in the case of Scheduled Elections, the invitation for nomination of candidates shall be published and sent by the Secretariat at least 35 Working Days ahead of the date on which the relevant Panel Member's term of office expires;
- (e) in the case of Interim Elections, the invitation for nomination of candidates shall be published and sent by the Secretariat by no later than 5 Working Days after the date on which the relevant Panel Member was removed from office;

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (f) the invitation for nomination of candidates shall request nominations within 15 Working Days after the date of the invitation;
- (g) the eligible candidates for election shall be those persons who are (at the time of their nomination) capable of becoming and remaining Panel Members in accordance with Sections C3.2 and C4.6, and whose nominations (whether nominated by themselves or a third party) are received by the Secretariat within the period of time set out in the request for nominations;
- (h) where the Secretariat receives a nomination for a candidate that the Secretariat does not consider to be an eligible candidate in accordance with Section C4.2(g), the Secretariat shall notify that person that this is the case as soon as reasonably practicable after receipt of the nomination (and, in any event, by no later than 2 Working Days following the expiry of the period of time set out in the request for nominations);
- (i) where a candidate disputes the Secretariat's notification under Section C4.2(h), the candidate shall have 2 Working Days following receipt of such notification to refer the matter to the Panel Chair for final determination (which determination shall be made by the Panel Chair by no later than 5 Working Days following the expiry of the period of time set out in the request for nominations);
- (j) 6 Working Days following the expiry of the period of time set out in the request for nominations, the Secretariat shall give notice to each Party within the relevant Party Category of the names of each eligible candidate (together with any supporting information provided to the Secretariat with his or her nomination);
- (k) at the same time as the Secretariat issues such notice, where there are more eligible candidates for a Party Category than there are positions to be filled as Elected Members for that Party Category, the Secretariat shall invite the Voting Groups comprising that Party Category to vote for their preferred eligible candidate;
- (l) each such Voting Group shall be entitled to cast one vote, and shall cast such

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

vote by means of a system established by the Panel which ensures that each Voting Group casts only one vote, and which allows 10 Working Days following the invitation pursuant to Section C4.2(k) for such vote to be cast;

- (m) the successful candidate or candidates elected as a result of the votes cast in accordance with this Section C4.2 shall be determined in accordance with Section C4.3;
- (n) the Secretariat shall not publish details of the votes cast by each Voting Group, but shall disclose such details to the Panel Chair for scrutiny;
- (o) as soon as reasonably practicable following the election of an Elected Member in accordance with this Section C4.2, the Secretariat shall publish on the Website and notify each Party of the identity of the person who has been so elected; and
- (p) each person elected as a Panel Member in accordance with this Section C4.2 shall commence his or her office as a Panel Member: (i) in the case of Scheduled Elections, simultaneously with the retirement of the relevant Panel Member; or (ii) in the case of Interim Elections, simultaneously with the notification by the Secretariat pursuant to Section C4.2(o).

C4.3 As a result of the process set out in Section C4.2:

- (a) where there are the same number of eligible candidates for a Party Category as there are positions to be filled as Elected Members for that Party Category, all of the eligible candidates shall be elected as Elected Members;
- (b) where there are more eligible candidates for a Party Category than there are positions to be filled as Elected Members for that Party Category, the eligible candidate(s) that received the most votes in accordance with Section C4.2(l) shall be elected as Elected Members (and, in the case of a tie, the Secretariat shall determine the Elected Member by drawing lots, to be witnessed by the Panel Chair); or
- (c) where there are fewer eligible candidates for a Party Category than there are positions to be filled as Elected Members for that Party Category (including

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

where there are no eligible candidates), the Authority will (at its discretion) be entitled to nominate an Elected Member for that Party Category. Where this Section C4.3(c) applies, the Panel shall be entitled (at any time thereafter) to determine that a further Interim Election should be held in accordance with Section C4.2 in respect of that Party Category.

Retirement of Elected Members

C4.4 Subject to earlier removal from office of an Elected Member in accordance with Section C3.9, C4.5 or C4.6 and without prejudice to his or her ability to stand for re-election, each Elected Member shall retire (at which point his or her office shall become vacant) as follows:

- (a) the Elected Members elected in accordance with Section X (Transition) shall retire in accordance with that Section;
- (b) the Elected Members elected in accordance with this Section C4.2, shall retire two years after the date on which they first took office; and
- (c) any Elected Member nominated by the Authority pursuant to Section C4.3(c), shall retire on the Authority determining (at its discretion) that such person should be removed from office, or on the successful election of a replacement Elected Member in an election pursuant to Section C4.3(c).

Removal of Elected Members

C4.5 An Elected Member may:

- (a) resign his or her office by 10 Working Days' notice in writing to the Panel Chair;
- (b) be removed from office by the Panel Chair on notice to the Panel if the Elected Member fails to attend (either in person or via his or her Alternate) at least 50% of the Panel meetings held in any period of 12 months; or
- (c) be removed from office by the other Panel Members (acting unanimously) if such other Panel Members consider that the Elected Member is in breach of the confirmation given by that Elected Member pursuant to Section C3.8

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(Panel Member Confirmation).

C4.6 An Elected Member shall automatically be removed from office if he or she:

- (a) dies;
- (b) is admitted to hospital in pursuance of an application under the Mental Health Act 1983 or the Mental Health (Care and Treatment) (Scotland) Act 2003, or an order is made by a court with competent jurisdiction in matters concerning mental disorder for his detention or for the appointment of a receiver, curator bonis or other person with respect to his property or affairs;
- (c) becomes bankrupt or makes any arrangement or composition with his creditors;
- (d) becomes prohibited by law from being a director of a company under the Companies Act 2006; and/or
- (e) is convicted of an indictable criminal offence.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C5 PROCEEDINGS OF THE PANEL

Meetings of the Panel

- C5.1 The Panel shall hold meetings with such frequency as it may determine or the Panel Chair may direct, but in any event shall meet when necessary to meet its responsibilities under Section D (Modification Process) and at least once every two months.
- C5.2 The location and timing of each meeting shall be determined by the Panel. Panel Members shall endeavour to attend each meeting in person, but attendance by telephone conference or other technological means shall be permitted (provided that each of the Panel Members attending the meeting acknowledges that he or she can communicate with each other).
- C5.3 Subject to the other provisions of this Code, the Panel may regulate the conduct of its meetings as it sees fit.

Quorum

- C5.4 No business shall be transacted at any meeting of the Panel unless a quorum is present at that meeting. The quorum for each Panel meeting shall be one half of all Panel Members appointed at the relevant time, at least one of whom must be the Panel Chair.

Meeting Notice and Papers

- C5.5 Each meeting that the Panel determines, or the Panel Chair directs, is to be held shall be convened by the Secretariat. Such meeting shall be convened on at least 5 Working Days' advance notice (or such shorter period as the Panel may approve). Such notice must be given to:
- (a) the Panel Members (and any appointed Alternates);
 - (b) each of the persons referred to in Section C5.13;
 - (c) the Parties; and
 - (d) any other person that the Panel determines, or the Panel Chair directs, should

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

be invited to the meeting.

C5.6 The notice of each Panel meeting shall contain or be accompanied by the following:

- (a) the time, date and location of the meeting;
- (b) the arrangements for those wishing to attend the meeting by telephone conference or other technological means; and
- (c) an agenda and supporting papers.

C5.7 The accidental omission to give notice of a meeting to, or the non-receipt of notice of a Panel meeting by, a person entitled to receive notice shall not invalidate the proceedings of that meeting.

Panel Chair

C5.8 The Panel Chair shall preside at every meeting of the Panel. If the Panel Chair is unable to attend a Panel meeting, the Panel Chair shall ensure that his or her Alternate attends the meeting as Panel Chair.

C5.9 The Panel Chair shall not be entitled to vote unless there is a deadlock, in which case the Panel Chair shall have the casting vote.

Voting

C5.10 Subject to Section C5.9, each Panel Member shall be entitled to attend, and to speak and vote at, every meeting of the Panel.

C5.11 All decisions of the Panel shall be by resolution. In order for a resolution of the Panel to be passed at a meeting, a simple majority of those Panel Members voting at that meeting must vote in favour of that resolution.

C5.12 A resolution in writing signed by or on behalf of all the Panel Members shall be as valid and effective as if it had been passed at a meeting of the Panel duly convened and held. Such a resolution may be signed in any number of counterparts.

Attendance by other persons

C5.13 One representative from each of the following persons shall be entitled to attend and

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Speak (but not vote) at any meeting of the Panel:

- (a) the Secretary of State;
- (b) the Authority; and
- (c) any other person that the Panel determines, or the Panel Chair directs, should be invited to attend.

C5.14 Any Party shall be entitled to send a representative to attend a Panel meeting provided that Party gives the Secretariat at least 3 Working Days' notice in advance of such meeting (or such shorter period of notice as the Panel Chair may approve). Such a representative shall be entitled to attend and (at the Panel Chair's invitation) speak at (but in no circumstances vote at) the meeting.

C5.15 The Panel Chair may (at his or her discretion on grounds of confidentiality) exclude from any part of a Panel meeting persons admitted pursuant to Section C5.13(c) or C5.14.

Minutes of Panel Meetings

C5.16 The Secretariat shall, following each Panel meeting (and in any event at or before the next Panel meeting), circulate copies of the minutes of that meeting to each person who was entitled to receive a notice of that meeting. The Panel may determine that certain parts of a meeting are confidential, in which case those matters will not be included in the minutes circulated to persons other than the Panel, the Secretary of State and the Authority.

C5.17 If any Panel Member disagrees with any item of the minutes, he shall notify the Secretariat of those items with which he or she disagrees, and the Secretariat shall incorporate those items upon which there is disagreement into the agenda for the next following meeting of the Panel.

C5.18 The Secretariat shall maintain a record of all resolutions voted on by the Panel, indicating how each Panel Member voted on each resolution, and shall make such record available on request to any Party.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Alternates

C5.19 Each Panel Member may, from time to time by notice in writing to the Secretariat, appoint another natural person to act as his or her alternate (an **Alternate**). The Panel Chair must appoint a person to act as his or her Alternate.

C5.20 Each such Alternate must, before his or her appointment as such can become valid, have provided the confirmations referred to in Sections C3.8(a) and (c) (Panel Member Confirmation).

C5.21 Where a Panel Member does not attend at a Panel meeting, the Panel Member's Alternate shall be entitled to attend (and count, in his capacity as Alternate, towards the quorum at) that meeting, and to exercise and discharge all the functions, powers and duties of the Panel Member at that meeting.

C5.22 Each Panel Member may, by notice in writing to the Secretariat, remove or replace the person appointed from time to time by that Panel Member as his or her Alternate. An Alternate shall immediately cease to be an Alternate on the occurrence of any of the events set out in Section C4.5 (Removal of Elected Members) in respect of the Alternate. Where an Alternate's appointor ceases to be a Panel Member for any reason, the Alternate's role as such shall also cease.

C5.23 Unless the context otherwise requires, any reference in this Code to a Panel Member shall be construed as including a reference to that Panel Member's Alternate.

Conflicts of interest

C5.24 Given the duty of each Panel Member to act independently, as set out in C3.7 (Duties of the Panel), conflicts of interest should not regularly arise.

C5.25 Notwithstanding Section C5.24, where a decision of the Panel will have particular consequences for a particular Party or class of Parties, each Panel Member shall consider whether that decision presents a conflict of interest (whether because such Party or Parties comprise Related Persons of the Panel Member or otherwise).

C5.26 Where a Panel Member considers that a decision does present a conflict of interest, the Panel Member shall absent him or herself from the Panel meeting for that decision and abstain from the vote regarding that decision. Furthermore, where the Panel Chair

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

considers that a decision does present a conflict of interest for a Panel Member, the Panel Chair may require the Panel Member to absent him or herself from the Panel meeting for that decision and to abstain from the vote regarding that decision.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C6 SUB-COMMITTEES

Sub-Committees

- C6.1 The Panel may establish committees (**Sub-Committees**) for the purposes of doing or assisting the Panel in doing anything to be done by the Panel pursuant to this Code. The Panel shall establish those Sub-Committees expressly provided for in this Code.
- C6.2 The Panel may establish a Sub-Committee on a standing basis or for a fixed period or a finite purpose.
- C6.3 The Panel may decide that any Sub-Committee (other than one whose establishment is expressly provided for in this Code) is to be dissolved. Those Sub-Committees expressly provided for in this Code are to remain established for so long as they are provided for in this Code.
- C6.4 Subject to Section C6.5, the Panel may delegate to any Sub-Committee such of the duties, powers and functions of the Panel as the Panel may specify. The Panel shall delegate to any Sub-Committee expressly provided for in this Code all of the duties, powers, and functions of the Panel relating to the functions of that Sub-Committee described in this Code.

Working Groups

- C6.5 The Panel may not establish Sub-Committees to undertake the functions expressly reserved to Working Groups under Section D (Modification Process). Working Groups are to be subject to the requirements of Section D6 (Refinement Process), which may impose requirements by reference to this Section C6.

Membership

- C6.6 Each Sub-Committee expressly provided for in this Code shall be composed of such persons as are determined in accordance with the provisions of this Code (if any) that prescribe such membership (and otherwise in accordance with Section C6.7).
- C6.7 Subject to Section C6.6:
- (a) each Sub-Committee shall be composed of such persons of suitable experience

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

and qualifications as the Panel shall decide and as are willing to serve thereon, and which may include any Panel Member;

- (b) before establishing each Sub-Committee, the Panel shall invite (by such means as it considers appropriate) applications from individuals who wish to serve on that Sub-Committee;
- (c) once a Sub-Committee has been established, the Panel may admit such additional persons to, or remove any person from, that Sub-Committee as the Panel considers appropriate (including on the application of any Party or any member of the Sub-Committee).

C6.8 Each person serving on a Sub-Committee shall, when acting in that capacity:

- (a) act independently, not as a delegate, and without undue regard to the interests, of any Related Person; and
- (b) act in a manner designed to facilitate the performance by the Panel of its duties under this Code.

Member Confirmation

C6.9 Unless the Panel otherwise directs, a person who is to serve on a Sub-Committee shall not do so unless he or she has first provided a written confirmation to SECCo (for the benefit of SECCo and each Party) that that person:

- (a) agrees to serve on the Sub-Committee in accordance with this Code, including the requirements of Section C6.8; and
- (b) will be available as reasonably required throughout his or her term of office, both to attend Sub-Committee meetings and to undertake work outside those meetings as may reasonably be required.

Terms of Reference and Procedural Requirements

C6.10 The Panel shall set out in writing the duties, powers, and functions of the Panel that it has delegated to each Sub-Committee. The Panel shall also specify in the same document the terms of reference and procedural rules that are to be followed by the

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Sub-Committee (which may be revised from time to time by the Panel); provided that, in the case of Sub-Committees expressly provided for in this Code, the Panel must specify terms of reference and procedural rules consistent with the requirements (if any) expressly set out in this Code.

C6.11 Save to the extent otherwise specified by the Panel in accordance with Section C6.10, each Sub-Committee shall conduct its business in accordance with the requirements applying to the Panel in accordance with Section C5 (Proceedings of the Panel).

C6.12 No Sub-Committee may further delegate any of its duties, powers and functions unless expressly authorised to do so by the terms of reference and procedural rules specified in accordance with Section C6.10.

Decisions of Sub-Committees

C6.13 Resolutions of Sub-Committees shall only have binding effect as decisions of the Panel if the Panel has formally delegated the decision-making powers to the Sub-Committee.

C6.14 The Panel shall be deemed to have delegated its decision-making powers to each Sub-Committee expressly provided for in this Code, insofar as such decision-making powers relate to the functions of the Sub-Committee. The delegation of decision-making powers to any other Sub-Committee shall require the unanimous agreement of all Panel Members at the meeting at which the decision to delegate such powers is agreed.

C6.15 For the avoidance of doubt, the delegation to a Sub-Committee of any duties, powers and functions of the Panel shall not relieve the Panel of its general responsibility to ensure that such duties, powers and functions are exercised in accordance with this Code.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C7 CODE ADMINISTRATOR, SECRETARIAT AND SECCO

Code Administrator

C7.1 The Panel may, from time to time, appoint and remove, or make arrangements for the appointment and removal of, one or more persons to be known as the **Code Administrator**.

C7.2 The Code Administrator shall perform those tasks and functions expressly ascribed to it under this Code, and any other tasks and functions as the Panel may assign to the Code Administrator from time to time. In particular, the Code Administrator shall:

- (a) comply with the Code Administration Code of Practice and perform its tasks and functions in a manner consistent with the Code Administration Code of Practice Principles (provided that the requirements of this Code shall apply in the event of any inconsistencies between this Code and the requirements of the Code Administration Code of Practice);
- (b) in conjunction with the other persons named as code administrators in the Code Administration Code of Practice, review and where appropriate propose to the Authority that amendments be made to the Code Administration Code of Practice (subject always to the Authority's approval of those amendments);
- (c) report to the Panel on any inconsistencies between this Code and the requirements of the Code Administration Code of Practice;
- (d) support the process by which Applicants apply to become a Party, as set out in Section B (Accession);
- (e) support the process for Modifications, as set out in Section D (Modification Process);
- (f) facilitate a process whereby Parties can submit a potential Modification Proposal to the Code Administrator to have that potential variation developed, refined and discussed prior to the Party deciding whether to formally submit a Modification Proposal (whether through the Change Board or another forum);
- (g) support the process by which Parties become Users, as set out in Section H1

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(User Entry Process);

- (h) act as a critical friend in providing assistance and support to Parties (and prospective Parties) in relation to the other tasks and functions to be performed by the Code Administrator, with a view to providing particular assistance and support to small Parties and the Consumer Members;
- (i) without prejudice to the generality of Section C7.2(i), provide support and assistance to the Proposer of a Modification Proposal, including assistance in understanding this Code so as to properly frame the Modification Proposal;
- (j) advise the Panel (and Sub-Committees and Working Groups) as to, and in respect of, the matters of which it is necessary or appropriate that the Panel (or the Sub-Committee or Working Group) should be aware in order to discharge their functions in accordance with this Code; and
- (k) provide or procure such information in connection with the implementation of this Code as the Panel may require.

C7.3 The Panel shall be responsible for ensuring that the Code Administrator undertakes its tasks and functions in respect of this Code. In particular, the Panel shall ensure that the arrangements under which the Code Administrator is appointed oblige the Code Administrator to undertake such tasks and functions on terms no less onerous than those provided for by this Code.

C7.4 Subject to the other requirements of this Section C7, the Code Administrator shall be appointed by the Panel on such terms and conditions and in return for such remuneration as the Panel sees fit.

C7.5 In no event shall the Code Administrator be a Party, an Affiliate of a Party, an employee of a Party, an employee of an Affiliate of a Party, a DCC Service Provider, an Affiliate of a DCC Service Provider, an employee of a DCC Service Provider, or an employee of an Affiliate of a DCC Service Provider.

Secretariat

C7.6 The Panel may, from time to time, appoint and remove, or make arrangements for the appointment and removal of, one or more persons to be known as the **Secretariat**.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C7.7 The Secretariat shall perform those tasks and functions expressly ascribed to it under this Code, and any other tasks and functions as the Panel may assign to the Secretariat from time to time. In particular, the Secretariat shall:

- (a) support the election of Elected Members, as set out in Section C4 (Elected Members);
- (b) support the proceedings of the Panel (and Sub-Committees and Working Groups), as set out in Section C5 (Proceedings of the Panel);
- (c) provide or procure such facilities and services in connection with the operation of the Panel (and Sub-Committees and Working Groups) as the Panel may require;
- (d) maintain each Party's Party Details, as set out in Section M6 (Party Details);
- (e) procure the creation, hosting and maintenance of the Website; and
- (f) make an accurate and up-to-date copy of this Code available on the Website.

C7.8 The Panel shall be responsible for ensuring that the Secretariat undertakes its tasks and functions in respect of this Code. In particular, the Panel shall ensure that the arrangements under which the Secretariat is appointed oblige the Secretariat to undertake such tasks and functions on terms no less onerous than those provided for by this Code.

C7.9 Subject to the other requirements of this Section C7, the Secretariat shall be appointed by the Panel on such terms and conditions and in return for such remuneration as the Panel sees fit.

C7.10 In no event shall the Secretariat be a Party, an Affiliate of a Party, an employee of a Party, an employee of an Affiliate of a Party, a DCC Service Provider, and Affiliate of a DCC Service Provider, an employee of a DCC Service Provider, or an employee of an Affiliate of a DCC Service Provider.

SECCo

C7.11 SECCo shall be established in accordance with Schedule 4.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C7.12 SECCo shall act as a corporate vehicle in relation to the business of the Panel, including:

- (a) entering into any contractual arrangements in order to give effect to any resolution of the Panel which it is necessary or desirable to implement by means of a binding contract; and
- (b) becoming a Subscriber for IKI Certificates as directed by the Panel for the purpose of exercising any function of the Panel under this Code.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C8 PANEL COSTS AND BUDGETS

General

C8.1 The costs and expenses incurred by (or on behalf of) the Panel in exercising its powers and performing its duties in respect of this Code shall be incurred by SECCo, and the DCC shall provide SECCo with the funds necessary to meet such costs and expenses.

SEC Costs and Expenses

C8.2 The costs and expenses capable of recovery under this Section C8 (the **Recoverable Costs**) shall be all the reasonable costs and expenses incurred:

- (a) subject to Section C8.3, by the Panel Members in their capacity as such (including in their capacity as directors of SECCo);
- (b) subject to Section C8.3, by those serving on Sub-Committees (but not, for the avoidance of doubt, Working Groups) in their capacity as such;
- (c) by SECCo under or in connection with this Code; or
- (d) by SECCo under or in connection with contracts that SECCo has entered into in accordance with this Code, including the contracts for:
 - (i) the appointment of the Code Administrator and the Secretariat;
 - (ii) the appointment of the Panel Chair;
 - (iii) the appointment of any person serving on a Sub-Committee expressly provided for in this Code where that person is expressly stated to be remunerated; and
 - (iv) the appointment of advisers,

(in each case) provided that such costs or expenses are provided for in, or otherwise consistent with, an Approved Budget.

C8.3 Subject to the terms of those contracts referred to in Sections C8.2(d):

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) each Panel Member and each person serving on a Sub-Committee shall be entitled to recover all reasonable travel expenses properly incurred by them in their roles as such (and the Panel shall establish a policy that sets out guidelines regarding what constitutes reasonable travel expenses); and
- (b) no Panel Member or person serving on a Sub-Committee shall be entitled to a salary in respect of their role as such, or to any payment in respect of time they incur in their role as such.

Reimbursing Panel Members

C8.4 Where a Panel Member or person serving on a Sub-Committee wishes to recover any Recoverable Costs, he or she shall submit evidence of the Recoverable Costs in question to the Panel (or a named person approved by the Panel) for approval. The cost or expense in question shall only be approved to the extent that it is a Recoverable Cost, and only if the evidence is submitted in a timely manner (and in any event on or before the 20th Working Day following the end of the relevant Regulatory Year). Once approved, the evidence of the Recoverable Cost shall be submitted to SECCo for payment.

C8.5 Within 20 Working Days following receipt of evidence of a Recoverable Cost that has been approved in accordance with Section C8.4, SECCo shall pay the relevant amount to the relevant person.

SEC Costs to be Reimbursed by DCC

C8.6 The Recoverable Costs incurred by SECCo shall be reimbursed to SECCo by the DCC.

C8.7 SECCo may periodically invoice the DCC for the Recoverable Costs incurred, or reasonably expected to be incurred, by SECCo; provided that SECCo shall deduct from such Recoverable Costs amounts that SECCo has received by way of Application Fee payments and any amounts that represent previous overpayments by the DCC (due to the inaccuracy of SECCo estimates, or otherwise).

C8.8 The DCC shall pay each invoice submitted by SECCo in accordance with Section C8.7 within 10 Working Days of receipt of such invoice by the DCC.

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

C8.9 It is acknowledged that the DCC is entitled to recover amounts paid by it to SECCo in accordance with this Section C8 through the Charges (subject to the requirements of the DCC Licence).

C8.10 In the event that the DCC does not pay SECCo in accordance with Section C8.8, and subject to prior approval from the Authority, SECCo may invoice the Parties who hold Energy Licences for the unpaid amount (and those Parties shall pay the invoiced amounts to SECCo as if they were Charges). Where this Section C8.10 applies, the amount to be paid by each Party shall be determined in accordance with a methodology approved by the Authority, and all amounts paid shall be reimbursed by SECCo to the relevant Party (plus interest at the Non-Default Interest Rate) at such time as the Authority may determine.

Draft Budgets and Work Plans

C8.11 The Panel shall, during January of each year, prepare and circulate to all the Parties a draft budget for the next three Regulatory Years commencing thereafter (a **Draft Budget**).

C8.12 Each Draft Budget shall set out the Panel's good-faith estimate of the Recoverable Costs that it anticipates will be incurred (or committed to) during the relevant Regulatory Years, and shall be accompanied by a detailed work plan showing the activities and projects to which the relevant costs and expenses relate. Each Draft Budget must provide for limits (both individually and in the aggregate) on costs and expenses not expressly provided for in the budget which can be incurred without having to amend the budget.

Approval of Budgets

C8.13 In respect of the Draft Budget circulated in January for the next Regulatory Year commencing thereafter, the Panel shall:

(a) arrange for the circulation to all the Parties of the comments received from the Parties regarding the Draft Budget in the 20 Working Days following its circulation;

(b) consider and respond to those comments, and circulate its responses to all the

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Parties;

- (c) to the extent that it considers it appropriate to do so, amend the Draft Budget and/or the accompanying work plan in the light of those comments;
- (d) approve the Draft Budget (subject to any such amendments) and publish that budget and the accompanying work plan on the Website; and
- (e) specify a date in such publication (being not less than 15 Working Days following the date of publication) from which such budget will (subject to Section C8.14) become the **Approved Budget** for the relevant Regulatory Year.

Appeal of Budget

C8.14 Each of the Parties or Citizens Advice or Citizens Advice Scotland may appeal to the Authority the Panel's approval of a budget as the Approved Budget for a Regulatory Year. Any such appeal will only be validly made if notified to the Authority within 10 Working Days following the publication of such Draft Budget pursuant to Section C8.13(e), and if copied to the Panel. In the event an appeal is validly made, the Panel shall arrange for a copy of the appeal to be circulated to all the Parties, and:

- (a) the Authority may give notice that it dismisses the appeal where it considers that the appeal is trivial or vexatious or has no reasonable prospect of success, in which case the budget approved by the Panel shall remain the Approved Budget; or
- (b) the Authority may give notice that it will further consider the appeal, in which case the budget approved by the Panel shall remain the Approved Budget pending and subject to any interim directions issued by the Authority, and:
 - (i) where the Authority determines that the budget approved by the Panel is consistent with the General SEC Objectives, then such budget shall remain the Approved Budget; or
 - (ii) where the Authority determines that the budget approved by the Panel is not consistent with the General SEC Objectives, then either (as directed by the Authority):

SEC – Section C: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (A) such budget shall be amended in such manner as the Authority may direct, and such budget as so amended will be Approved Budget; or
- (B) the Panel shall produce a further Draft Budget and re-commence the process set out in Section C8.13.

Amendments to Budgets

C8.15 The Approved Budget relating to each Regulatory Year may be amended by the Panel from time to time (whether before during or after that Regulatory Year, and including in respect of Recoverable Costs already incurred), provided that the Panel has first:

- (a) circulated and invited comments on the proposed amendments in accordance with Section C8.13 as if it were a Draft Budget; and
- (b) circulated and considered any comments received on the proposed amendments within 20 Working Days of such circulation on the same basis as is referred to in Section C8.13.

Reports

C8.16 The Panel shall, as soon as is reasonably practicable following the end of each Regulatory Year, produce and circulate to Parties a report on the costs and expenses incurred (or committed to) during that Regulatory Year and the activities and projects to which those costs and expenses relate.

Audit

C8.17 The Panel shall arrange for the monies paid by and to SECCo pursuant to this Section C8 during each Regulatory Year to be audited by a firm of chartered accountants on an annual basis in order to verify whether the requirements of this Section C8 have been met.

C8.18 The Panel shall send a copy of such auditor's report to all the Parties within 10 Working Days of its receipt by the Panel.

SECTION E: REGISTRATION DATA

E1 RELIANCE ON REGISTRATION DATA

DCC

E1.1 The DCC shall, from time to time, use and rely upon the Data provided to it pursuant to Section E2 as most recently updated pursuant to Section E2 (the **Registration Data**); provided that the DCC shall be allowed up to three hours from receipt to upload such Data to the DCC Systems.

E1.2 Without prejudice to the generality of Section E1.1, the DCC shall use and rely upon the Registration Data when:

(a) assessing a User's eligibility to receive certain Services (as described in Section H4 (Processing Service Requests)); and

(b) calculating the Charges payable by a Party.

E1.3 The DCC shall have no liability to any Party where it provides (or does not provide) a Service in circumstances where it should not (or should) have done so, to the extent that the same arises due to inaccuracies in the Registration Data that are not caused by the DCC.

Panel

E1.4 The Panel shall periodically request from the DCC any Registration Data reasonably required by the Panel in relation to the proper exercise of its duties, powers and functions, including the Registration Data required by the Panel to establish into which Party Category a Party falls. Where aggregated or anonymised data (or similar) is sufficient for the Panel's needs, the Panel shall request, and the DCC shall provide, the data in such format.

E1.5 The DCC shall provide to the Panel any Registration Data requested by the Panel in accordance with Section E1.4.

E1.6 The Panel (and the Secretariat) shall, from time to time, use and rely upon the

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Registration Data most recently provided to the Panel pursuant to Section E1.5.

E2 PROVISION OF DATA

Responsibility for Providing Electricity Registration Data

E2.1 The Electricity Network Party in respect of each MPAN relating to its network shall provide (or procure that its Registration Data Provider provides) the following information to the DCC in respect of that MPAN (insofar as such information is recorded in the relevant registration systems). The information in question is the following:

- (a) the identity of the Electricity Network Party for the MPAN;
- (b) whether or not the MPAN has a status that indicates that it is 'traded' (as identified in the MRA), and the effective date of that status;
- (c) the identity of each person which has been (at any time within the 24 months preceding the date on which the Registration Data is provided), is, or is due to become Registered in respect of the MPAN, including (to the extent applicable) the date on which each such person became or ceased to be (or is to become or ceased to be) Registered in respect of the MPAN;
- (d) the identity of each person which has been (at any time within the 24 months preceding the date on which the Registration Data is provided), is, or is due to become the Meter Operator in respect of the MPAN, including (to the extent applicable) the date on which each such person became or ceased to be (or is to become or ceased to be) Meter Operator in respect of the MPAN;
- (e) the address, postcode and UPRN for the Metering Point to which the MPAN relates;
- (f) the direction of energy flow to or from the Metering Point to which the MPAN relates (and the date from which that direction of flow has been effective);
- (g) the profile class (as defined in the MRA) assigned to the MPAN, and each and every other (if any) profile class assigned to the MPAN at any time within the 24 months preceding the date on which the Registration Data is provided (including the date from and to which such profile class was effective); and

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (h) details of whether an objection has been received regarding a change to the person who is to be Registered in respect of the MPAN, and whether that objection has been removed or upheld, or has resulted in the change to the person who is to be Registered being withdrawn (as at the date on which the Registration Data is provided).

Responsibility for Providing Gas Registration Data

E2.2 The Gas Network Party in respect of each Supply Meter Point on its network shall provide (or procure that its Registration Data Provider provides) the following information to the DCC in respect of that Supply Meter Point (insofar as such information is recorded in the relevant registration systems). The information in question is the following:

- (a) the identity of the Registration Data Provider for the Supply Meter Point;
- (b) the identity of the Gas Network Party for the network to which the Supply Meter Point relates, and the identity of the Gas Network Party for any network to which the Supply Meter Point related at any time within the 24 months preceding the date on which the Registration Data is provided (and the date from and to which that was the case);
- (c) the MPRN for the Supply Meter Point;
- (d) whether or not the Supply Meter Point has a status that indicates that gas is offtaken at that point (as identified in the UNC), and, where that status has changed since the Registration Data was last provided, notification to that effect;
- (e) the identity of each person which has been (at any time within the 24 months preceding the date on which the Registration Data is provided), is, or is due to become Registered in respect of the Supply Meter Point, including (to the extent applicable) the date on which each such person became or ceased to be (or is to become or ceased to be) Registered in respect of the Supply Meter Point;
- (f) the identity of each person which has been (at any time within the 24 months

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

preceding the date on which the Registration Data is provided), is, or is due to become the Meter Asset Manager in respect of the Supply Meter Point, including (to the extent applicable) the date on which each such person became or ceased to be (or is to become or ceased to be) Meter Asset Manager in respect of the Supply Meter Point;

- (g) the address, postcode and UPRN for the Supply Meter Point; and
- (h) whether the Supply Meter Point serves a Domestic Premises or Non-Domestic Premises.

Obligation on DCC to Provide Data

E2.3 The DCC shall provide the information set out in Section E2.4 to the Registration Data Provider nominated by each Electricity Network Party and each Gas Network Party (as such information is further described in the Registration Data Interface Documents).

E2.4 The information to be provided by the DCC:

- (a) to each Electricity Network Party's Registration Data Provider is:
 - (i) whether there is (or used to be) an Enrolled Smart Metering System associated with each of the MPANs relating to the Electricity Network Party's network (and the date of its Enrolment or Withdrawal); and
 - (ii) the identity of the person which the DCC believes to be Registered in respect of each of the MPANs relating to the Electricity Network Party's network; and
- (b) to each Gas Network Party's Registration Data Provider is whether there is (or used to be) an Enrolled Smart Metering System associated with each of the Supply Meter Points on the Gas Network Party's network (and the date of its Enrolment or Withdrawal).

Frequency of Data Exchanges

E2.5 A full set of the Data to be exchanged under this Section E2 shall be provided on or

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

before the date on which this Section E2.5 comes into full force and effect. Thereafter, the Data to be exchanged under this Section E2 shall (subject to Section E2.8) be provided by way of incremental updates to Data previously provided (so that only Data that has changed is updated).

E2.6 The incremental updates to Data to be provided in accordance with this Section E2 shall be updated at the frequency and/or time required in accordance with the Registration Data Interface Documents.

E2.7 Each Electricity Network Party and each Gas Network Party shall ensure that its Registration Data Provider shall:

(a) where a full set of the Registration Data Provider's Registration Data has been requested, ~~take all reasonable steps~~~~use all reasonable endeavours~~ (including working outside of normal business hours where reasonably necessary) to provide the DCC with such data as soon as reasonably practicable following such request (and in any event within the shorter of three Working Days or four days); or

(b) where a subset of the Registration Data Provider's Registration Data has been requested, provide the DCC with the requested Data in accordance with the Registration Data Interface Documents.

Registration Data Interface

E2.8 The DCC shall maintain the Registration Data Interface in accordance with the Registration Data Interface Specification, and make the interface available to the Registration Data Providers to send and receive Data via the DCC Gateway Connections in accordance with the Registration Data Interface Code of Connection.

E2.9 The DCC shall ensure that the Registration Data Interface is available at all times (subject to Planned Maintenance undertaken in accordance with Section H8.3).

E2.10 Each Electricity Network Party and each Gas Network Party shall ensure that its Registration Data Provider shall (when acting in such capacity) comply with the applicable obligations set out in the Registration Data Interface Documents and the Incident Management Policy.

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

E2.11 For the avoidance of doubt, the DCC shall comply with the applicable obligations set out in the Registration Data Interface Documents and the Incident Management Policy (as it is obliged to do in respect of all applicable provisions of this Code).

Registration Data Refreshes

E2.12 The Registration Data Interface Documents shall provide for the means, processes and timetables for requesting and providing full and partial refreshes of the Registration Data Provider's Registration Data as required by Section E2.7.

E2.13 Where the DCC identifies any omissions or manifest errors in the Registration Data, the DCC shall seek to resolve any such omissions or manifest errors in accordance with the Incident Management Policy. In such circumstances, the DCC may continue (notwithstanding Section E1.1) to rely upon and use any or all of the Registration Data that existed prior to its receipt of the incremental update that included any such omission or manifest error, unless the Incident Management Policy provides for an alternative course of action.

Security Obligations and RDP IDs

E2.14 Each Electricity Network Party and each Gas Network Party shall ensure that its Registration Data Provider (being the Network Party itself where that is deemed to be the case in accordance with the definition of Registration Data Provider) shall (when acting in its capacity as the Network Party's Registration Data Provider) comply with the obligations expressed to be placed on Users and identified in Section E2.15 as if, in the case of each such obligation:

- (a) references to User were references to such Registration Data Provider; and
- (b) references to User Systems were references to the RDP Systems of that Registration Data Provider.

E2.15 The obligations identified in this Section E2.15 are those obligations set out at:

- (a) Sections G3.2 to G3.3 (Unauthorised Activities: Duties to Detect and Respond);
- (b) Sections G3.8 to G3.9 (Management of Vulnerabilities);

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) Sections G5.14 to G5.18 (Information Security: Obligations on Users), save that for this purpose the reference:
 - (i) in Section G5.18(b)(i) to "Sections G3 and G4" shall be read as if it were to "Sections G3.2 to G3.3 and G3.8 to G3.9"; and
 - (ii) in Section G5.18(b)(iii) to "Sections G5.19 to G5.24" shall be read as if it were to "Section G5.19(d)".

E2.16 Each Electricity Network Party and each Gas Network Party shall ensure that its Registration Data Provider (being the Network Party itself where that is deemed to be the case in accordance with the definition of Registration Data Provider) shall (when acting in its capacity as the Network Party's Registration Data Provider):

- (a) Digitally Sign any communication containing Registration Data which is sent to the DCC using a Private Key associated with an Organisation Certificate for which that RDP is the Subscriber, in accordance with the requirements of the Registration Data Interface Specification;
- (b) for that purpose, propose to the DCC one or more EUI-64 Compliant identification numbers, issued to it by the Panel, to be used by that RDP when acting in its capacity as such (save that it may use the same identification number when acting as an RDP for more than one Network Party).

E2.17 The DCC shall accept each identification number proposed by each Registration Data Provider for the purposes set out in Section E2.16 (and record such numbers as identifying, and use such numbers to identify, such RDP when acting as such); provided that the DCC shall only accept the proposed number if it has been issued by the Panel.

Disputes

E2.18 Any Dispute regarding compliance with this Section E2 may be referred to the Panel for its determination, which shall be final and binding for the purposes of this Code; save that Disputes regarding compliance with Section E2.14 shall be subject to the means of Dispute resolution applying to the provisions of Section G (Security) referred to in Section E2.15 (as set out in Section G).

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

E3 DCC GATEWAY CONNECTIONS FOR REGISTRATION DATA PROVIDERS

Provision of a DCC Gateway Connection for RDPs

- E3.1 Registration Data Providers may request DCC Gateway Connections, and the DCC shall offer to provide such connections, in accordance with Sections H15.4 and H15.6 to H15.12 (as if Registration Data Providers were Parties), save that a Registration Data Provider shall not specify which DCC Gateway Bandwidth Option it requires, and shall instead specify which (if any) other Registration Data Providers it intends to share the connection with pursuant to Section E3.4.
- E3.2 The DCC shall provide DCC Gateway Connections to the premises of Registration Data Providers in accordance with Sections H15.13 to H15.15 (as if Registration Data Providers were Parties), save that no Charges shall apply.
- E3.3 The DCC shall ensure that the DCC Gateway Connection it provides to the premises of Registration Data Providers pursuant to this Section E3 is of a sufficient bandwidth to meet the purposes for which such connection will be used by the Registration Data Provider, and any other Registration Data Providers notified to the DCC in accordance with Section E3.1 or E3.4 (provided, in the case of those notified in accordance with Section E3.4, that the DCC may object to the transfer or sharing where it reasonably believes that the connection will not be of sufficient bandwidth to meet the needs of all of the Registration Data Providers in question).
- E3.4 Each Registration Data Provider may transfer or share its rights in respect of the DCC Gateway Connection provided to its premises pursuant to this Section E3 in accordance with Sections H15.16 and H15.17 (as if Registration Data Providers were Parties), save that such rights may only be transferred to or shared with other Registration Data Providers for the purposes of accessing the Registration Data Interface.
- E3.5 Once a DCC Gateway Connection has been established:
- (a) the Registration Data Provider that requested it (or to whom it has been transferred in accordance with Section E3.4) and the DCC shall each comply with the provisions of the DCC Gateway Connection Code of Connection

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

applicable to the DCC Gateway Bandwidth Option utilised at the connection;
and

- (b) the DCC shall make the connection available to such Registration Data Provider until: (i) the DCC is notified by such Registration Data Provider that it wishes to cancel the connection; or (ii) such Registration Data Provider ceases to be a Registration Data Provider for one or more Network Parties.

DCC Gateway Equipment at RDP Premises

- E3.6 The DCC and each Registration Data Provider shall comply with the provisions of Sections H15.20 to H15.28 in respect of the DCC Gateway Equipment installed (or to be installed) at a Registration Data Provider's premises (as if Registration Data Providers were Parties), save that Section H15.28 shall be construed by reference to Section E3.5(b).

Interpretation

- E3.7 Given the application of certain provisions of Section H15 to Registration Data Providers in accordance with this Section E3, defined terms used in Section H15 and/or the DCC Gateway Connection Code of Connection shall be construed accordingly (including DCC Gateway Party by reference to the Registration Data Provider which requested the connection, or to whom the right to use the connection has been transferred pursuant to Sections E3.4 and H15.16). Given that Registration Data Providers do not specify the DCC Gateway Bandwidth Option that they require (and that the DCC instead determines the most appropriate bandwidth), references in Section H15 to the bandwidth requested by a Party shall be construed accordingly.

Liability of and to the Network Parties

- E3.8 Each Network Party shall ensure that its Registration Data Provider (being the Network Party itself where that is deemed to be the case in accordance with the definition of Registration Data Provider) shall comply with the obligations expressed to be placed on Registration Data Providers under or pursuant to this Section E3.
- E3.9 Where more than one Network Party nominates the same Registration Data Provider, each of those Network Parties shall be jointly and severally liable for any failure by

SEC – Section E: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

that Registration Data Provider to comply with the obligations expressed to be placed on Registration Data Providers under or pursuant to this Section E3.

E3.10 The DCC acknowledges that it is foreseeable that Network Parties will have made arrangements with their Registration Data Providers such that breach by the DCC of this Section E3 will cause the Network Parties to suffer loss for which the DCC may be liable (subject to Section M2 (Limitations of Liability)).

Disputes

E3.11 Where a Registration Data Provider wishes to raise a dispute in relation to its request for a DCC Gateway Connection, then the dispute may be referred to the Panel for determination. Where that Registration Data Provider or the DCC disagrees with any such determination, then it may refer the matter to the Authority for its determination, which shall be final and binding for the purposes of this Code.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

SECTION F – SMART METERING SYSTEM REQUIREMENTS

F1 TECHNICAL ARCHITECTURE AND BUSINESS ARCHITECTURE SUB-COMMITTEE

Establishment of the Technical Architecture and Business Architecture Sub-Committee

- F1.1 The Panel shall establish a Sub-Committee in accordance with the requirements of this Section F1, to be known as the “**Technical Architecture and Business Architecture Sub-Committee**”.
- F1.2 Save as expressly set out in this Section F1, the Technical Architecture and Business Architecture Sub-Committee shall be subject to the provisions concerning Sub-Committees set out in Section C6 (Sub-Committees).
- F1.3 Membership of the Technical Architecture and Business Architecture Sub-Committee shall be determined by the Panel:
- (a) having regard to the need to provide an appropriate level of technical and business architecture expertise in the matters that are the subject of the Technical Architecture and Business Architecture Sub-Committee’s duties; and
 - (b) otherwise in accordance with Section C6.7 (Membership).

Duties of the Technical Architecture and Business Architecture Sub-Committee

- F1.4 The Technical Architecture and Business Architecture Sub-Committee shall undertake the following duties on behalf of the Panel:
- (a) to provide the Panel, the Change Board and Working Groups with technical and business architecture support and advice in respect of Modification Proposals that provide for variations to the Technical Code Specifications (or variations to other parts of this Code that affect the End-to-End Technical Architecture and/or the Business Architecture);
 - (b) to provide the Panel, the Change Board and Working Groups with technical

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

and business architecture support and advice in respect of Modification Proposals that are identified as likely (if approved) to require changes to the End-to-End Technical Architecture and/or to the Business Architecture;

- (c) to provide the Authority (on request) with such information as the Authority may request regarding the technical aspects of any Notification (or potential Notification);
- (d) to provide the Panel with technical and business architecture support and advice in respect of Disputes for which the Panel is required to make a determination, insofar as such Disputes relate to the Technical Code Specifications (or other parts of this Code that affect the End-to-End Technical Architecture and/or the Business Architecture);
- (e) to review (where directed to do so by the Panel) the effectiveness of the End-to-End Technical Architecture (including so as to evaluate whether the Technical Code Specifications continue to meet the SEC Objectives), and report to the Panel on the outcome of such review (such report to include any recommendations for action that the Technical Architecture and Business Architecture Sub-Committee considers appropriate);
- (f) to review (where directed to do so by the Panel) the effectiveness of the Business Architecture (including their assessment against the SEC Objectives), in consultation with Parties and Competent Authorities (but without engaging directly with Energy Consumers), and report to the Panel on the outcome of such review (such report to include any recommendations for action that the Technical Architecture and Business Architecture Sub-Committee considers appropriate);
- (g) to review (where directed to do so by the Panel) the effectiveness of the HAN Requirements (including their assessment against the SEC Objectives), in consultation with Parties and Competent Authorities (but without engaging directly with Energy Consumers), and report to the Authority and the Panel on the outcome of such review;
- (h) to support the Panel in the technical and business architecture aspects of the

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

annual report which the Panel is required to prepare and publish under Section C2.3(h) (Panel Duties);

- (i) to develop and thereafter maintain the Technical Architecture Document and the Business Architecture Document, and arrange for their publication on the Website;
- (j) to provide the Panel with support and advice in respect of any other matter (not expressly referred to in this Section F1.4) which is concerned with the End-to-End Technical Architecture and/or the Business Architecture;
- (k) (to the extent to which it reasonably considers that it is necessary to do so) to liaise and exchange information with, provide advice to, and seek the advice of the Alt HAN Forum on matters relating to the Alt HAN Arrangements that affect the End-to-End Technical Architecture and/or the Business Architecture; and
- (l) to perform any other duties expressly ascribed to the Technical Architecture and Business Architecture Sub-Committee elsewhere in this Code.

F1.5 In undertaking its duties under Section F1.4(e) to (g), the Technical Architecture and Business Architecture Sub-Committee shall not review the Alt HAN Arrangements but may have regard to any impact of the provision of Alt HAN Services on the End-to-End Technical Architecture and/or the Business Architecture.

F1.6 The Technical Architecture and Business Architecture Sub-Committee shall establish a process whereby the Code Administrator monitors Modification Proposals with a view to identifying (and bringing to the Technical Architecture and Business Architecture Sub-Committee's attention) those proposals that are likely to affect the End-to-End Technical Architecture and/or the Business Architecture. The Code Administrator shall comply with such process.

F1.7 The Panel shall make each report produced pursuant to Section F1.4 available to the Parties, subject to any redactions it considers necessary to avoid a risk of Compromise to the DCC Total System, User Systems, RDP Systems and/or Devices.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

DCC Obligations

F1.8 The DCC shall provide all reasonable assistance and information to the Technical Architecture and Business Architecture Sub-Committee in relation to the performance of its duties as it may reasonably request, including by providing the Technical Architecture and Business Architecture Sub-Committee with any requested Solution Architecture Information.

Provision of Information in respect of HAN Requirement Reviews

F1.9 Each Party shall provide to the Technical Architecture and Business Architecture Sub-Committee all such information as it may reasonably request in relation to its reviews of the HAN Requirements.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F2 CERTIFIED PRODUCTS LIST

Certified Products List

- F2.1 The Panel shall establish and maintain a list of the Device Models for which the Panel has received all the Assurance Certificates required for the Physical Device Type relevant to that Device Model (the “**Certified Products List**”).
- F2.2 The Panel shall ensure that the Certified Products List identifies the Data required in accordance with the CPL Requirements Document, and that the Certified Products List is updated to add and remove Device Models in accordance with the CPL Requirements Document.

Background to Assurance Certificates

- F2.3 The Technical Specification relevant to the Physical Device Type sets out which Physical Device Types require Assurance Certificates from one or more of the following persons (each being an “**Assurance Certification Body**”):
- (a) the ZigBee Alliance;
 - (b) the DLMS User Association; and
 - (c) CESG.
- F2.4 The following Assurance Certification Bodies issue the following certificates in respect of Device Models of the relevant Physical Device Types (each being, as further described in the applicable Technical Specification, an “**Assurance Certificate**”):
- (a) the ZigBee Alliance issues certificates which contain the ZigBee certified logo and interoperability icons;
 - (b) the DLMS User Association issues certificates which include the conformance tested service mark (“**DLMS Certificates**”); and
 - (c) CESG issues commercial product assurance scheme certificates (“**CPA**

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Certificates”).

F2.5 An Assurance Certificate will not be valid unless it expressly identifies the Device Model(s) and the relevant Physical Device Type to which it applies. An Assurance Certificate will not be valid if it specifies an expiry date that falls more than 6 years after its issue.

Expiry of CPA Certificates

F2.6 As CPA Certificates will contain an expiry date, the following Parties shall ensure that a replacement CPA Certificate is issued in respect of Device Models for the following Physical Device Types before the expiry of such CPA Certificate (to the extent Device Models of the relevant Physical Device Type require CPA Certificates in accordance with the applicable Technical Specification):

- (a) the DCC for Communications Hubs; and
- (b) the Import Supplier and/or Gas Supplier (as applicable) for Device Models of all other Physical Device Types.

F2.7 The Panel shall notify the Parties on or around the dates occurring 12 and 6 months prior to the date on which the CPA Certificate for any Device Model is due to expire.

Publication and Use by the DCC

F2.8 Subject to the requirements of the CPL Requirements Document, the Panel shall (within one Working Day after being required to add or remove Device Models to or from the Certified Products List in accordance with the CPL Requirements Document):

- (a) provide the updated Certified Products List to the DCC (by way of an extract containing such subset of the information contained within the Certified Products List as the DCC reasonably requires from time to time);
- (b) publish a copy of the updated Certified Products List on the Website; and
- (c) notify the Parties that the Certified Products List has been updated.

F2.9 Subject to the requirements of the CPL Requirements Document, the DCC shall, from

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

time to time, use and rely upon the Certified Products List most recently received by the DCC from the Panel at that time, provided that the DCC shall be allowed up to 24 hours from receipt to make any modifications to the Smart Metering Inventory that are necessary to reflect the updated Certified Products List. Deployed Products List.

F2.10 The DCC shall create, keep reasonably up-to-date and provide to the Panel (and the Panel shall publish on the Website) a list of all the combinations of different Device Models that comprise a Smart Metering System (together with associated Type 2 Devices) that exist from time to time (to the extent recorded by the Smart Metering Inventory).

Technical Specification Compatibility

F2.11 The Panel shall create, keep reasonably up-to-date and publish on the Website a matrix detailing which versions of each Specification are compatible with which versions of each other Specification (where 'compatible' in this context means, in respect of versions of two or more Specifications, that Devices which comply with one such version are designed to interoperate with other Devices that comply with another such version or versions). The Panel shall, as soon as reasonably practicable after it makes a change to such matrix, notify all the Parties that a change has been made.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F3 PANEL DISPUTE RESOLUTION ROLE

- F3.1 Where a Party considers that a device which is required under the Energy Licences to meet the requirements of the Technical Specifications does not meet the applicable requirements of the Technical Specifications, then that Party may refer the matter to the Panel for its determination. For the purposes of this Section F3, the relevant licence requirements are Condition 39 of the Electricity Supply Licences, Condition 33 of the Gas Supply Licences, and Condition 17, Part E of the DCC Licence.
- F3.2 The devices to which this Section F3 applies need not form part of Enrolled Smart Metering Systems.
- F3.3 The DCC shall retain evidence to demonstrate that the Communications Hubs (as defined in the DCC Licence) meet the DCC's obligations under the DCC Licence to ensure compliance with the CHTS. The DCC shall make that evidence available to the Panel or the Authority on request.
- F3.4 Save to the extent the DCC is responsible under Section F3.3, each Supplier Party shall retain evidence to demonstrate that the Devices for which it is responsible under the Energy Licences for ensuring Technical Specification compliance do so comply. Each Supplier Party shall make that evidence available to the Panel or the Authority on request.
- F3.5 Where the Panel determines that any device or devices that were intended to meet the requirements of a Technical Specification do not meet the applicable requirements of the Technical Specification, the Panel may (to the extent and at such time as the Panel sees fit, having regard to all the circumstances and any representations made by any Competent Authority or any Party) require the relevant Supplier Party or the DCC (as applicable under Section F3.3 or F3.4) to give effect to a reasonable remedial plan designed to remedy and/or mitigate the effect of such non-compliance within a reasonable timescale.
- F3.6 Where a Party disagrees with any decision of the Panel made pursuant to Section F3.5, that Party may refer the matter to the Authority for its determination, which shall be final and binding for the purposes of this Code.
- F3.7 Subject to any determination by the Authority pursuant to Section F3.6, where the

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Panel requires a Supplier Party to give effect to a remedial plan in accordance with Section F3.5 and where that Supplier Party fails in a material respect to give effect to that remedial plan, then such failure shall constitute an Event of Default for the purposes of Section M8 (Suspension, Expulsion and Withdrawal).

F3.8 For the avoidance of doubt, no decision of the Panel pursuant to this Section F3 is intended to fetter the discretion of the Authority to enforce any breach of any Energy Licence.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F4 OPERATIONAL FUNCTIONALITY, INTEROPERABILITY AND ACCESS FOR THE DCC

Operational Functionality

F4.1 The Import Supplier, Export Supplier and/or Gas Supplier (as applicable) for each Enrolled Smart Metering System shall ensure that the Smart Metering System (excluding the Communications Hub Function) is not configured in a way that restricts the minimum functions that the Smart Metering System is required to be capable of providing in order that the DCC can provide the Services in accordance with this Code.

Interoperability with DCC Systems

F4.2 Pursuant to the DCC Licence, the DCC has certain obligations to ensure that Communications Hubs are interoperable with the DCC Systems.

F4.3 Save to the extent the DCC is responsible as described in Section F4.2, the Responsible Supplier for each Enrolled Smart Metering System shall ensure that all the Devices forming part of that Smart Metering System are interoperable with the DCC Total System to the extent necessary to enable those Devices to respond to Commands received from or via the DCC in accordance with the requirements defined in the GB Companion Specification.

F4.4 The DCC and each Supplier Party shall:

- (a) ensure that testing has been undertaken to demonstrate its compliance with the obligations set out in or referred to in Section F4.2 or F4.3 (as applicable); and
- (b) retain evidence of such testing, and make such evidence available to the Panel and the Authority on request.

Remote Access by DCC

F4.5 The Responsible Supplier for each Enrolled Smart Metering System shall ensure that the DCC is allowed such remote access to the Smart Metering System as is reasonably necessary to allow the DCC to provide the Services and any other services permitted by the DCC Licence in respect of that Smart Metering System (including the right to

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

send communications to, to interrogate, and to receive communications and obtain Data from that Smart Metering System).

Physical Access to Devices by Parties

F4.6 Where a Party is expressly required or permitted by this Code to interfere with a Communications Hub, then the DCC hereby consents to the Party interfering with that Communications Hub in that way (and shall ensure that all persons with a legal interest in the Communications Hub have also so consented).

F4.7 Where a User is expressly required by this Code to interfere with a Device forming part of a Smart Metering System (other than the Devices comprising a Communications Hub), then the Party which owns that Device (or has made arrangements with its owner for its provision) hereby consents to the User interfering with that Device in that way (and shall ensure that all persons with a legal interest in that Device have also so consented).

Communications with Communications Hubs by DCC over the SM WAN

F4.8 Except where expressly permitted or obliged by this Code, the DCC shall ensure that the only Devices with which it communicates over the SM WAN are those listed in the Smart Metering Inventory. Where a Communications Hub Function or Gas Proxy Function has an SMI Status of ‘suspended’, the DCC shall only initiate a communication with that Device (where it is the target device) if following the successful execution of such communication the DCC can reasonably expect that the associated Communication Hub’s Device Model will become one that is listed on the Certified Product List.

F4.9 ~~[Not Used]~~Where the DCC receives an Alert from a Communications Hub Function indicating that no power supply has been available to that Communications Hub Function for a period of at least three minutes, the DCC shall send a copy of the Alert to the Import Supplier (if any) and Electricity Distributor (if any) for that Communications Hub Function.

Communications Hub Procurement

F4.10 The DCC shall publish on the DCC Website the physical dimensions of the

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Communications Hub Device Models that are made available from time to time pursuant to the Communications Hub Services.

F4.11 Within the relevant period established in accordance with this Section F4.11, the DCC shall consult the other Parties regarding the physical dimensions of the Communications Hub Device Models first made available pursuant to the Communications Hub Services (and shall give due consideration to any consultation responses received when considering the Communications Hubs to be made available in the future). For the purposes of this Section F4.11, the relevant period is the period of 18 months (or such shorter period as the Panel may determine) after the date from which Smart Meters are capable of being Commissioned pursuant to Section H5 (Smart Metering Inventory and Enrolment Services).

F4.12 Prior to committing to the procurement of any Communications Hubs comprising:

- (a) HAN Variants and/or WAN Variants that have not previously been made available pursuant to the Communications Hub Services; and/or
- (b) Communications Hubs with physical dimensions that differ from the physical dimensions of any Communications Hubs that are (at the time of such proposed procurement) made available pursuant to the Communications Hub Services,

the DCC shall consult the other Parties regarding the physical dimensions of the Communications Hubs to be procured (and shall give due consideration to any consultation responses received).

F4.13 Prior to committing to any arrangements (or any changes to arrangements) for the financing of any Communications Hub procurement, the DCC shall, to the extent such arrangements (or changes) might reasonably be expected to have a material effect on one or more of the other Parties, consult with the other Parties regarding the same. Such consultation shall include the DCC's explanation of how the arrangements (or changes) are consistent with the requirements of the DCC Licence and this Code.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F5 COMMUNICATIONS HUB FORECASTS & ORDERS

Availability of CH Variants

F5.1 The DCC shall ensure that Communications Hub Device Models are made available to be ordered by Parties under this Section F5 such that the Parties can order Communications Hubs that provide for each and every combination of HAN Variant and WAN Variant; save that this Section F5 does not apply to Special Installation Mesh Communications Hubs. All references in this Section F5 to Communications Hubs shall be deemed to exclude Special Installation Mesh Communications Hubs.

Communications Hub Forecasts

F5.2 For the purposes of this Section F5, a “**Communications Hub Forecast**” means an estimate of the future requirements of a Party for the delivery to it of Communications Hubs by the DCC, which:

- (a) is submitted by that Party to the DCC;
- (b) covers the period identified in Section F5.3; and
- (c) complies with the requirements of Section F5.4.

F5.3 Each Communications Hub Forecast shall cover the period of 24 months commencing with the sixth month after the end of the month in which the forecast is submitted to the DCC.

F5.4 Each Communications Hub Forecast shall:

- (a) comprise a forecast of the number of Communications Hubs that the Party requires to be delivered to it in each month of the period to which it relates;
- (b) set out that forecast for each such month by reference to:
 - (i) the aggregate number of Communications Hubs to be delivered;
 - (ii) the number of Communications Hubs to be delivered in respect of each Region; and
 - (iii) (for the first 10 months of the period to which the forecast relates) the

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

number of Communications Hubs of each HAN Variant to be delivered in respect of each Region; and

- (c) include such further information and be provided in such form as may be set out in the CH Handover Support Materials at the time of its submission.

Parties: Duty to Submit Communications Hub Forecasts

F5.5 Each Supplier Party, and each other Party that intends to order Communications Hubs in the future, shall:

- (a) submit a Communications Hub Forecast to the DCC by no later than the 5th Working Day prior to the last Working Day of each month;
- (b) submit each Communications Hub Forecast via the CH Ordering System;
- (c) ~~use its reasonable endeavours~~ take reasonable steps to ensure that the information contained in each Communications Hub Forecast is accurate and up to date; and
- (d) ensure that it submits a forecast that will enable it to submit a Communications Hub Order that meets the requirements of Section F5.12.

F5.6 A Party that has not submitted a Communications Hub Forecast for a Region during a month in accordance with this Section F5 shall be deemed to have submitted a forecast which specified:

- (a) for the first 23 months of the period covered by the forecast, the same number of Communications Hubs as the Party forecast for the corresponding month in its previous forecast;
- (b) for the first 9 months of the period covered by the forecast, the same number of each HAN Variant as the Party forecast for the corresponding month in its previous forecast;
- (c) for the 10th month of the period covered by the forecast, the number of each HAN Variant that results from applying the same proportions of each HAN Variant as applies to the 9th month of the period pursuant to paragraph (b) above; and

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (d) for the 24th month of the period covered by the forecast, zero Communications Hubs.

Communications Hub Orders

F5.7 For the purposes of this Section F5, a “**Communications Hub Order**” means an order by a Party for the delivery to it of Communications Hubs and/or Communications Hub Auxiliary Equipment by the DCC, which:

- (a) is submitted by that Party to the DCC; and
- (b) satisfies the requirements of Section F5.8.

F5.8 Each Communications Hub Order shall (subject to any further requirements set out in the CH Handover Support Materials):

- (a) relate to a single Region, and identify the Region to which it relates;
- (b) relate to the delivery of Communications Hubs and/or Communications Hub Auxiliary Equipment in the 5th month after the end of the month in which that Communications Hub Order is submitted to the DCC (the “**Delivery Month**”);
- (c) specify the addresses of the location or locations (each a “**Delivery Location**”) at which the delivery of the Communications Hubs and/or Communications Hub Auxiliary Equipment is required, each of which locations must be in Great Britain but need not be in the Region to which the relevant Communications Hub Order relates;
- (d) specify, in accordance with Section F5.12, the number (if any) of Communications Hubs of each Device Model to be delivered to each Delivery Location (in each case, a “**Delivery Quantity**”);
- (e) specify the preferred date within the Delivery Month on which the delivery to each Delivery Location is required (provided that the actual delivery date within the Delivery Month for each Delivery Location (in each case, a “**Delivery Date**”) shall be determined in accordance with the CH Handover Support Materials);
- (f) specify the number and type of the Communications Hub Auxiliary Equipment

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(if any) to be delivered to each Delivery Location; and

- (g) include such further information and be provided in such form as may be set out in the CH Handover Support Materials at the time of its submission.

F5.9 In respect of each Communications Hub Order submitted in respect of a Region, the Communications Hubs and/or Communications Hub Auxiliary Equipment to be delivered to each Delivery Location on each Delivery Date shall be a "**Consignment**".

F5.10 In order for a Communications Hub Order to be a compliant order, the order must comply with the requirements of this Section F5.10. A Party is not obliged to submit a compliant order, but a non-compliant order may be amended by the DCC in accordance with Section F5.17. The requirements of this Section F5.10 are, for each Communications Hub Order submitted by a Party in respect of a Region, that the aggregate (for all Consignments) of the Delivery Quantities of each HAN Variant for the Delivery Month must be:

- (a) greater than or equal to the higher of:
 - (i) 50% of the number of Communications Hubs of that HAN Variant forecast for that Delivery Month and Region in the Communications Hub Forecast submitted by that Party in the 10th month prior to the start of the Delivery Month; and
 - (ii) 80% of the number of Communications Hubs of that HAN Variant forecast for that Delivery Month and Region in the Communications Hub Forecast submitted by the Party in the 7th month prior to the start of the Delivery Month; and
- (b) less than or equal to the lower of:
 - (i) 120% of the number of Communications Hubs of that HAN Variant forecast for that Delivery Month and Region in the Communications Hub Forecast submitted by that Party in the 7th month prior to the start of the Delivery Month; and
 - (ii) 150% of the number of Communications Hubs of that HAN Variant forecast for that Delivery Month and Region in the Communications

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Hub Forecast submitted by that Party in the 10th month prior to the start of the Delivery Month.

F5.11 For the purposes of Section F5.10, in calculating, by reference to earlier forecast numbers:

- (a) the minimum aggregate of the Delivery Quantities, any fractions of a number shall be rounded down; and
- (b) the maximum aggregate of the Delivery Quantities, any fractions of a number shall be rounded up.

F5.12 For each Party's Communications Hub Order relating to a Region, the aggregate of the Delivery Quantities (for all Device Models taken together) that may be specified for each Consignment may not (unless such number is zero) be less than the minimum delivery quantity set out in the CH Handover Support Materials at the time at which the relevant Communications Hub Order is submitted.

Parties: Rights and Duties in relation to Communications Hub Orders

F5.13 Each Party other than the DCC:

- (a) may submit one Communications Hub Order in relation to each Region in any month;
- (b) shall submit a Communications Hub Order in relation to a Region in a month if the aggregate of the Delivery Quantities for one or more Device Models required for a compliant order in accordance with Section F5.10 is greater than zero; and
- (c) where it fails to submit an order where it is required to do so in accordance with Section F5.13(b), shall be deemed to have submitted a Communications Hub Order for a Delivery Quantity of Communications Hubs of each Device Model equal to the minimum aggregate Delivery Quantity required in respect of that Device Model for a compliant order in accordance with Section F5.10 (and the remaining details of such deemed order shall be determined by the DCC in accordance with the CH Handover Support Materials).

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F5.14 Each Party shall ensure that any Communications Hub Order which it elects or is required to submit in any month is submitted by no later than the 5th Working Day prior to the last Working Day of that month.

F5.15 Each Party shall submit its Communications Hub Orders via the CH Ordering System.

DCC: Duties in relation to Communications Hub Orders

F5.16 Where the DCC receives a Communications Hub Order from a Party via the CH Ordering System, the DCC shall:

- (a) promptly acknowledge receipt of that order; and
- (b) within five Working Days of its receipt of the order, notify the Party either that:
 - (i) the order satisfies the requirements of Section F5.8, is a compliant order in accordance with Section F5.10 and was submitted in accordance with Section F5.14 (and is therefore accepted); or
 - (ii) the order does not satisfy some or all of the conditions in (i) above (and is therefore subject to Section F5.17).

F5.17 Where this Section F5.17 applies in respect of a Party's Communications Hub Order, the DCC shall (having regard to the nature, extent and effect of the Party's breach of this Section F5 and/or of the order's non-compliance under Section F5.10, and having regard to the requirements of the DCC Licence) take all reasonable steps to accommodate the order (in whole or part, or subject to amendments). The DCC shall, by the end of the month in which such order is received by the DCC, notify the Party (in each case giving reasons for its decision) that:

- (a) the order is accepted in its entirety;
- (b) the order is accepted in part or subject to amendment; or
- (c) the order is rejected.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

DCC Policy

F5.18 The DCC shall develop and make available via the DCC Website a policy describing the circumstances in which it will accept (in whole or part, or subject to amendments) or reject Communications Hub Orders as described in Section F5.17.

Non-Standard Cancellation of Consignments

F5.19 Each Party that has had a Communications Hub Order accepted by the DCC may cancel one or more of the Consignments arising from that Communications Hub Order; provided that the Party must notify the DCC of such cancellation at least 48 hours in advance of the Delivery Date for the Consignment. A Party which cancels one or more Consignments in accordance with this Section F5.19 shall be liable to reimburse the DCC for all reasonable costs and expenses incurred by the DCC as a result of such cancellation. The DCC shall notify the Party of such costs and expenses as soon as reasonably practicable after notice of the cancellation is given. Such compensation shall be included in the next Invoice to be produced by the DCC following its calculation. The DCC shall, where requested not less than 10 Working Days in advance of the Delivery Date, provide a non-binding estimate of the costs and expenses it is likely to incur in the event that a Party opts to cancel a Consignment (such estimate to be provided not less than 5 Working Days in advance of the Delivery Date). The DCC shall take all reasonable steps to ensure the estimate is accurate.

CH Ordering System

F5.20 Subject to Section F5.23, the DCC shall make one or more systems (the **CH Ordering System**) available to other Parties, which Parties can access remotely (via such means, and subject to any security requirements, as are set out in the CH Support Materials).

F5.21 The DCC shall ensure that the CH Ordering System is available in advance of the time from which other Parties are obliged to submit Data via the CH Ordering System, and at all times thereafter (subject to Planned Maintenance undertaken in accordance with Section H8.3).

F5.22 The DCC shall ensure that the CH Ordering System allows each Party to:

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) submit details of its forecasts, orders and returns of Communications Hubs and/or Communications Hub Auxiliary Equipment, as required in accordance with this Section F5, Sections F6 (Delivery and Acceptance of Communications Hubs) and F8 (Removal and Return of Communications Hub), and the CH Support Materials;
- (b) view Data regarding the status of such submissions (but only its own submissions), and (where relevant) receive responses from the DCC regarding such submissions; and
- (c) view the SM WAN Coverage Database.

CH Order Management System Accounts

F5.23 The DCC may, as further described in the CH Support Materials:

- (a) limit the number of accounts via which each Party is able to access the CH Order Management System without paying any additional Charges; and
- (b) allow each Party additional accounts via which it is able to access the CH Order Management System, subject to such Party agreeing to pay the applicable Charges.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F6 DELIVERY AND ACCEPTANCE OF COMMUNICATIONS HUBS

Delivery

- F6.1 The DCC shall ensure that the applicable numbers of Communications Hub Products are delivered in accordance with Valid Communications Hubs Orders to the relevant Delivery Location on the relevant Delivery Date during the relevant Delivery Window.
- F6.2 The DCC shall ensure that the Communications Hub Products are delivered in accordance with the delivery requirements set out in the CH Handover Support Materials.
- F6.3 The Party assigned responsibility for doing so under the CH Handover Support Materials shall ensure that the Communications Hub Products are unloaded from the delivery vehicle at the Delivery Location in accordance with Good Industry Practice and the CH Handover Support Materials.
- F6.4 Delivery of Communications Hub Products pursuant to this Code shall occur on removal of the Communications Hub Products from the delivery vehicle at the Delivery Location (subject to any additional requirements in the CH Handover Support Materials).
- F6.5 Risk of loss or destruction of or damage to the Communications Hub Products shall transfer to the Party which submitted the Communications Hub Order on commencement of their unloading at the Delivery Location (where not unloaded by the DCC) or on completion of their unloading at the Delivery Location (where unloaded by the DCC).
- F6.6 Notwithstanding delivery, legal and beneficial ownership of the Communications Hub Products shall at all times (for the purposes of this Code) remain vested in the DCC, subject only to Section F7.10 (Ownership of and Responsibility for Communications Hub Auxiliary Equipment).

Confirmation of Delivery

- F6.7 The Party which submitted the Valid Communications Hub Order shall confirm

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

whether or not a delivery of Communications Hub Products has been made in compliance with the order within five days after the applicable Delivery Date (such confirmation to be submitted in accordance with and contain the information specified in the CH Handover Support Materials and via the CH Ordering System).

F6.8 Where a Party fails to submit a confirmation in accordance with Section F6.7, the Party shall be deemed to have confirmed that a delivery of Communications Hub Products has been made in compliance with the relevant order.

F6.9 The only grounds for non-compliance under Section F6.7 are that:

- (a) no delivery was made to the relevant Delivery Location on the relevant Delivery Date, or the delivery was made but contained fewer Communications Hub Products of the applicable Device Model or type than the DCC was obliged to deliver;
- (b) the delivery contained more Communications Hub Products of the applicable Device Model or type than the DCC was obliged to deliver to the relevant Delivery Location on the relevant Delivery Date;
- (c) the delivered Communications Hub Products are (or reasonably appear on a visual inspection to be) damaged or have been (or reasonably appear on a visual inspection to have been) tampered with (and such damage or tampering occurred prior to their delivery to the Party as described in Section F6.4); and/or
- (d) the Party is otherwise entitled to reject the Communications Hub Products in accordance with the CH Handover Support Materials.

Rejected Communications Hub Products

F6.10 Where a Party notifies the DCC under Section F6.7 that a delivery is non-compliant in accordance with Sections F6.9(b), (c) and/or (d), the Party thereby rejects the Communications Hub Products in question.

F6.11 Where Section F6.10 applies, the Party to which the rejected Communications Hub Products were delivered shall make those Communications Hub Products available for collection by the DCC in accordance with the CH Handover Support Materials.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F6.12 The Party assigned responsibility for doing so under the CH Handover Support Materials shall ensure that the rejected Communications Hub Products are loaded on to the DCC's vehicle in accordance with Good Industry Practice and the CH Handover Support Materials. Risk of loss or destruction of or damage to such Communications Hub Products shall transfer to the DCC on commencement of such loading (where loaded by the DCC) or on completion of such loading (where not loaded by the DCC).

Replacement Communications Hub Products

F6.13 Where a Party notifies the DCC under Section F6.7 that a delivery is non-compliant in accordance with Sections F6.9(a), (c) and/or (d), the DCC shall ensure that replacement Communications Hub Products of the applicable Device Model or type and in the number necessary to make up the shortfall are delivered to the relevant Delivery Location as soon as reasonably practicable thereafter.

F6.14 Where Section F6.13 applies, the DCC shall (via the CH Ordering System) notify the Party of the dates on which the DCC is able to deliver such replacement Communications Hub Products, and this Section F6 shall apply as if:

- (a) the replacement Communications Hub Products to be delivered pursuant to this Section F6.14 were the subject of a Valid Communications Hub Order; and
- (b) the date selected by the Party, out of the dates so notified by the DCC, was the Delivery Date for that order.

Access to Delivery Location

F6.15 The Party which submitted the Communications Hub Order shall ensure that each of the DCC and its sub-contractors and its and their agents is allowed access to the Delivery Location for the purposes of exercising the DCC's rights and performing the DCC's obligations under this Section F6.

F6.16 The DCC shall ensure that each person that accesses a Delivery Location pursuant to Section F6.15 shall do so in compliance with Good Industry Practice and the site rules and reasonable instructions of the relevant Party (or its representatives).

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Non-Standard Delivery Options

F6.17 Each Party which submits a Communications Hub Order may specify non-standard delivery instructions where and to the extent provided for in the CH Handover Support Materials. Subject to such Party agreeing to pay any applicable Charges, the DCC shall comply with such delivery instructions.

Failure to Accept Delivery

F6.18 Where the Party which submitted a Valid Communications Hub Order breaches its obligations under this Section F6 and/or the CH Handover Support Materials and as a result the DCC is not able to deliver the Communications Hub Products in accordance with this Code, that Party shall be liable to reimburse the DCC for all reasonable costs and expenses incurred by the DCC as a result. The DCC shall notify the Party of such costs and expenses as soon as reasonably practicable after the event. Such compensation shall be included in the next Invoice to be produced by the DCC following its calculation.

Special Installation Mesh Communications Hubs

F6.19 Special Installation Mesh Communications Hubs are not ordered under Section F5 (Communications Hub Forecasts & Orders). Consequently, Special Installation Mesh Communications Hubs are not delivered under this Section F6. All references in this Section F6 to Communications Hubs shall be deemed to exclude Special Installation Mesh Communications Hubs.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F7 INSTALLATION AND MAINTENANCE OF COMMUNICATIONS HUBS

Installation

F7.1 Each Supplier Party that installs a Communications Hub shall ensure that such Communications Hub is installed in accordance with the CH Installation and Maintenance Support Materials.

F7.2 Where:

- (a) a Supplier Party is installing a Communications Hub for a premises; and
- (b) the Supplier Party knows (or should reasonably know) that the premises will also require a Communications Hub Function to form part of a Smart Metering System with a Smart Meter for which the Supplier Party is not a Responsible Supplier,

then that Supplier Party shall, to the extent that it is reasonably able to do so, install a Communications Hub such that the Communications Hub Function will be capable of forming part of a Smart Metering System with both the Smart Meter for which it is a Responsible Supplier and the Smart Meter for which it is not a Responsible Supplier.

F7.3 On completion of the installation of a Communications Hub in accordance with Section F7.1, risk of loss or destruction of or damage to the Communications Hub shall cease to vest in the Party which ordered the Communications Hub or, in the case of Special Installation Mesh Communications Hubs, shall cease to vest in the Supplier Party which took delivery of the Communications Hub.

Risk in the Communications Hubs following Installation

F7.4 Following completion of installation of a Communications Hub, risk of loss or destruction of or damage to the Communications Hub shall vest in the same or a different Party as follows:

- (a) where the Communications Hub is removed from a premises by a Supplier Party, then the risk of loss or destruction of or damage to that Communications Hub shall vest in that Supplier Party such that that Supplier Party is responsible for all such risk since installation of the Communication Hub until

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

such risk transfers to the DCC under Section F8.11 (Acceptance of a Returned Communications Hub); or

- (b) where a Communications Hub is lost or destroyed following completion of its installation at a premises and before commencement of its removal from a premises by a Supplier Party, then the Supplier Party that is obliged to notify the DCC of a Communications Hub's loss or destruction under Section F8.17(b) (Loss or Destruction of Communications Hubs) shall be deemed to bear the risk of such loss or destruction.

Special Installation Mesh Communications Hubs

F7.4A Where it is determined in accordance with the CH Installation and Maintenance Support Materials that a Supplier Party is required to install a Special Installation Mesh Communications Hub in respect of a premises, then the following provisions shall apply:

- (a) the DCC shall (subject to Section F7.5) deliver a Special Installation Mesh Communications Hub to the Supplier Party at the premises;
- (b) the DCC shall ensure that the Special Installation Mesh Communications Hub that is delivered is of the HAN Variant that the Supplier Party requests;
- (c) delivery, risk and ownership of the Special Installation Mesh Communications Hub shall be subject to the same principles as are described in Sections F6.5 and F6.6 (Delivery) by reference to the Supplier Party to which the Communications Hub is handed by the DCC and completion of such handover (as completion of handover is further described in the CH Handover Support Materials);
- (d) following delivery of a Special Installation Mesh Communications Hub as referred to in this Section F7.4A, the Special Installation Mesh Communications Hub shall be subject to the provisions of this Section F7 and of Sections F8 (Removal and Return of Communications Hubs) and F9 (Categories of Communications Hub Responsibility), save as otherwise expressly provided;

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(e) in addition to the application of Section F8 (Removal and Return of Communications Hubs), a Supplier Party may return a Special Installation Mesh Communications Hub to the DCC while the Supplier Party and the DCC are still at the premises to which the Communications Hub was delivered, by handing the Communications Hub to the DCC (and the DCC shall accept handover of the Communications Hub, at which point risk of loss or destruction of or damage to the Communications Hub shall transfer to the DCC);

(f) without prejudice to the other obligations of the DCC and the Responsible Suppliers under this Code in respect of Communications Hubs installed at premises, where a Responsible Supplier reasonably determines that an Incident is likely to require replacement or repair of the SIMCH Aerial, then the DCC shall (subject to Section F7.5) attend the premises and (where necessary) undertake such replacement or repair; and

(g) each SIMCH Aerial shall be subject to Section F7.9 as if it was Communications Hub Auxiliary Equipment, save that no Party other than the DCC may replace or repair a SIMCH Aerial.

Special Installations & Modifications

F7.5 Where the CH Installation and Maintenance Support Materials requires the DCC to undertake works on behalf of a Supplier Party, and where such works require the consent or agreement of any person other than the Supplier Party or the DCC (including where the consent or agreement of the Energy Consumer and/or any landlord or other owner of premises is required), then that Supplier Party shall ensure that such consent or agreement is obtained in advance and the DCC shall provide all information reasonably requested by the Supplier Party in relation to it obtaining such consent or agreement.

F7.6 A Supplier Party responsible under Section F7.5 for obtaining a consent or agreement in relation to works shall ~~use its reasonable endeavours~~ take reasonable steps to obtain such consent or agreement in a form that permits the installation, operation, repair, modification, replacement and removal of the equipment.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F7.7 Where the DCC attends any premises and/or undertakes any works in reliance on a consent or agreement obtained (or required to be obtained) by a Supplier Party under Section F7.5, the DCC shall do so:

- (a) as the contractor of that Supplier Party;
- (b) in accordance with Good Industry Practice, the applicable consent or agreement obtained pursuant to Section F7.5 (and notified to the DCC), and the site rules and reasonable instructions of the owner and/or occupier of the relevant premises;
- (c) in compliance with all Laws and/or Directives applicable to the Supplier Party or its representatives (and notified to the DCC), including the requirements of the Supplier Party's Energy Licence concerning Supplier Party representatives who attend premises; and
- (d) in compliance with all reasonable requests of the Supplier Party.

Preventing Unauthorised Access to Data

F7.8 The DCC and each other Party that is responsible from time to time for the risk of loss or destruction of or damage to a Communications Hub shall ~~use reasonable endeavours~~ take reasonable steps to ensure that Personal Data held on that Communications Hub is protected from unauthorised access during such period of responsibility.

Ownership of and Responsibility for Communications Hub Auxiliary Equipment

F7.9 In respect of those types of Communications Hub Auxiliary Equipment that are designed to be installed at premises, such Communications Hub Auxiliary Equipment shall be deemed to form part of the Communications Hub, and the provisions of this Section F7 and of Sections F8 (Removal and Return of Communications Hubs) and F9 (Categories of Communications Hub Responsibility) shall be construed accordingly.

F7.10 In respect of those types of Communications Hub Auxiliary Equipment to which Section F7.9 does not apply:

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) legal and beneficial ownership of such Communications Hub Auxiliary Equipment shall vest in the Party that ordered it on risk in such equipment transferring to that Party under Section F6.5 (Delivery); and
- (b) legal and beneficial ownership of such Communications Hub Auxiliary Equipment shall (where applicable) revert to the DCC on risk in such equipment transferring to the DCC under Section F6.12 (Rejected Communications Hub Products).

CH Support Materials Compliance and Access to Premises

F7.11 The DCC shall reply to any reasonable request from a Party for information pertaining to compliance by the DCC with the CH Support Materials.

F7.12 Each Party shall reply to any reasonable request from the DCC for information pertaining to compliance by that Party with the CH Support Materials.

F7.13 Where the DCC wishes to attend a premises at which a Communications Hub is installed in order to assess a Party's compliance with the CH Support Materials in respect of that Communications Hub, the DCC may request access from the Responsible Supplier for the Smart Metering System(s) of which the Communications Hub forms part (or, where there is more than one such Responsible Supplier, from either or both of them as further described in the CH Support Materials).

F7.14 Where a Responsible Supplier consents to a request under Section F7.13, the Responsible Supplier shall take all reasonable steps to obtain the consent of the Energy Consumer to the DCC attending the premises.

F7.15 Where a Responsible Supplier does not consent to a request under Section F7.13, the DCC may refer the matter to the Panel. The Panel shall determine whether it is reasonably necessary for the DCC to attend the premises in order to assess (in general) a Party's compliance with the CH Support Materials. Where the Panel determines that it is, the Responsible Supplier shall take all reasonable steps to obtain the consent of the Energy Consumer to the DCC attending the premises.

F7.16 Where the Energy Consumer's consent is obtained pursuant to Section F7.14 or F7.15, the Responsible Supplier and the DCC shall follow the relevant procedure for

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

attending the premises set out in the CH Support Materials.

F7.17 Where the DCC attends any premises in reliance on a consent obtained by a Supplier Party pursuant to Section F7.14 or F7.15, the DCC shall do so:

- (a) as the contractor of that Supplier Party;
- (b) in accordance with Good Industry Practice, the applicable consent (as notified to the DCC), and the site rules and reasonable instructions of the owner and/or occupier of the relevant premises;
- (c) in compliance with all Laws and/or Directives applicable to the Supplier Party or its representatives (and notified to the DCC), including the requirements of the Supplier Party's Energy Licence concerning Supplier Party representatives who attend premises; and
- (d) in compliance with all reasonable requests of the Supplier Party.

Resolution of SM WAN Coverage Incidents

F7.18 Where a Communications Hub is installed at a premises in accordance with this Code but does not connect to the SM WAN, and the SM WAN Coverage Database indicated (at any time during the 30 days prior to the date of installation) that the SM WAN is (or would be) available in the area in which the premises is located on the installation date, then the DCC shall (within 90 days after having been notified in accordance with the CH Installation and Maintenance Support Materials):

- (a) provide a response to the installing Supplier Party that either (i) confirms that the SM WAN is now available in the relevant area such that Communications Hubs installed at premises in that area can be expected to be able to connect to the SM WAN; or (ii) provides reasons why the SM WAN is not so available; and
- (b) (subject to Section F7.20) ensure that, in the case of at least 99% of all Communications Hubs for which the DCC is required to give such a response in each calendar quarter, the SM WAN is made available in the relevant area such that Communications Hubs installed at premises in that area can be expected to be able to connect to the SM WAN (but excluding for this purpose

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

those locations where SM WAN connectivity is affected by problems with access pursuant to Section F7.5 which arise otherwise than as a result of the DCC's breach of this Code).

F7.19 Where a Communications Hub is installed at a premises in accordance with this Code but does not connect to the SM WAN (in circumstances where Section F7.18 does not apply), and the SM WAN Coverage Database is updated after installation to indicate that the premises is within an area in which the SM WAN is available, then (provided the DCC has been notified of the installation in accordance with the CH Installation and Maintenance Support Materials) the DCC shall (within 90 days after such update occurs):

- (a) provide a response to the Supplier Party which installed the Communications Hub that either (i) confirms that the SM WAN is now available in the relevant area such that Communications Hubs installed at premises in that area can be expected to be able to connect to the SM WAN; or (ii) provides reasons why the SM WAN is not so available; and
- (b) (subject to Section F7.20) ensure that, in the case of at least 99% of all Communications Hubs for which the DCC is required to give such a response in each calendar quarter, the SM WAN is available in the relevant area such that Communications Hubs installed at premises in that area can be expected to be able to connect to the SM WAN (but excluding for this purpose those locations where SM WAN connectivity is affected by problems with access pursuant to Section F7.5 which arise otherwise than as a result of the DCC's breach of this Code).

F7.20 Until 1 January 2021, Sections F7.18(b) and F7.19(b) do not apply to Communications Hubs installed at premises within a geographic area that is subject to a Network Enhancement Plan. Such Communications Hubs shall, until 1 January 2021, be excluded from the calculations under Sections F7.18(b) and F7.19(b).

F7.21 Within a reasonable period of time following each calendar quarter that ends prior to 1 January 2021, the DCC shall produce a report which identifies:

- (a) any new Network Enhancement Plans that have been created during that

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

quarter, any Network Enhancement Plans that were completed during that quarter, and any ongoing Network Enhancement Plans; and

(b) for each such Network Enhancement Plan:

(i) an overview of the geographic area that is subject to the plan;

(ii) the premises (by postcode) that fall within that area; and

(iii) the scheduled date for completion of the planned works (or, where applicable, the actual date of completion).

F7.22 A copy of the report produced under Section F7.21 shall be provided by the DCC to the Parties, the Panel, the Authority and (on request) the Secretary of State.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F8 REMOVAL AND RETURN OF COMMUNICATIONS HUBS

Product Recall / Technology Refresh

F8.1 The DCC's rights under this Section F8.1 are in addition to (and separate from) the rights of the DCC (and the obligations of the other Parties) to remove and/or return Communications Hubs under other provisions of this Code (including pursuant to the Incident Management Policy and the CH Support Materials). The DCC has the right to request (in reliance on this Section F8.1) that Parties return to the DCC one or more Communications Hubs. Following receipt of such a request:

- (a) in respect of Communications Hubs that have been delivered but have not yet been installed at premises, the Party which ordered those Communications Hubs shall return them to the DCC;
- (b) in respect of Communications Hubs that have been installed at premises and not yet removed from that premises, the Lead Supplier for those Communications Hubs shall remove them from the premises and return them to the DCC (and this obligation shall apply whether or not such Lead Supplier is a User); and
- (c) in respect of Communications Hubs that have been removed from a premises and not yet returned to the DCC, the Supplier Party that removed the Communications Hub from the premises shall return them to the DCC.

F8.2 Where Section F8.1 applies, the DCC shall provide to Supplier Parties all such information as they or their Energy Consumers reasonably require in respect of the situation. Those Supplier Parties to whom Section F8.1(b) applies shall issue to affected Energy Consumers such information as is provided by the DCC concerning the situation.

Removal of Communications Hubs

F8.3 Each Supplier Party that:

- (a) is a Responsible Supplier for the Communications Hub Function forming part of a Communications Hub, is entitled to remove that Communications Hub

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

from the premises at which it is installed (but must install a replacement Communications Hub unless the Communications Hub Function is Withdrawn);

- (b) Decommissions a Communications Hub Function, shall remove the Communications Hub of which the Communications Hub Function forms part from the premises at which it is installed; and
- (c) is a Responsible Supplier for the Communications Hub Function forming part of a Communications Hub, may also be obliged under another provision of this Code to remove a Communications Hub, including where it is obliged to do so in accordance with the Incident Management Policy or the CH Support Materials.

F8.4 Where a Supplier Party removes a Communications Hub from a premises, it shall do so in accordance with the CH Installation and Maintenance Support Materials.

F8.5 Where a Communications Hub is removed by a Supplier Party from a premises at which it was previously installed, then the risk of loss or destruction of or damage to that Communications Hub shall vest in that Supplier Party as set out in Section F7.4(a) (Risk in the Communications Hubs following Installation).

Return of Communications Hubs

F8.6 Where a Communications Hub is removed by a Supplier Party from a premises at which it was previously installed, the Supplier Party shall return the Communications Hub to the DCC within 90 days after the date of its removal. This obligation to return a Communications Hub only applies where the Communications Hub Function which forms part of that Communications Hub has at any time had an SMI Status of 'installed not commissioned' or 'commissioned'.

F8.7 A Party that wishes to return a Communications Hub to the DCC shall be entitled to do so at any time. A Party that ceases to be a Party shall return to the DCC all the Communications Hubs that have been delivered to that Party and not yet installed at premises or reported as lost or destroyed.

F8.8 The DCC shall publish on the CH Ordering System the following information:

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the addresses of no more than two locations in respect of each Region to which Communications Hubs can be returned (which locations must be in Great Britain), making clear which Device Models may be returned to which locations;
- (b) the operating hours of each such location during which returns can be made (which operating hours must be reasonable); and
- (c) any changes to the information required to be published under (a) and (b) above, for which at least four months' advance notice must be given (unless the Panel approves a shorter period).

F8.9 A Party required or opting to return one or more Communications Hubs to the DCC shall:

- (a) notify the DCC of the number of Communications Hubs to be returned, of the location to which they are to be returned (being one of the locations published for the relevant Region in accordance with Section F8.8), of the date on which they are to be returned, and of any further information required in accordance with the CH Installation and Maintenance Support Materials;
- (b) return those Communications Hubs to the location and on the date notified in accordance with (a) above during the applicable operating hours for that location published in accordance with Section F8.8;
- (c) otherwise comply with the return requirements set out in the CH Installation and Maintenance Support Materials; and
- (d) be liable to pay the applicable Charges in the event that it returns one or more Communications Hubs to the wrong returns location.

Acceptance of Returned Communications Hubs

F8.10 The Party assigned responsibility for doing so under the CH Handover Support Materials shall ensure that the returned Communications Hubs are unloaded from the vehicle in which they have been returned, and that they are unloaded in accordance with Good Industry Practice and the CH Installation and Maintenance Support Materials.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F8.11 Risk of loss or destruction of or damage to returned Communications Hubs shall transfer to the DCC on commencement of such unloading (where unloaded by the DCC) or on completion of such unloading (where not unloaded by the DCC).

Access to Returns Locations

F8.12 The DCC shall ensure that each Party (and its sub-contractors and its and their agents) is allowed access to the locations published pursuant to Section F8.8 for the purposes of exercising the Party's rights and performing the Party's obligations under this Section F8.

F8.13 The relevant Party shall ensure that any person that accesses a location pursuant to Section F8.14 shall do so in compliance with Good Industry Practice and the site rules and reasonable instructions of the DCC (or its representatives).

Reconditioning or Disposal of Communications Hubs by the DCC

F8.14 The DCC shall take all reasonable steps to recondition and redeploy each Communications Hub that is returned to the DCC (having regard to the requirements of the DCC Licence).

F8.15 Before a Communications Hub that has been returned to the DCC is delivered to a Party pursuant to Section F6 (Delivery and Acceptance of Communications Hubs), the DCC shall ensure that all Data relating to one or more Energy Consumers is permanently erased from that Communications Hub in accordance with the standard referred to in Section G2.18 (Management of Data).

F8.16 Unless the Communications Hub is reconditioned and redeployed in accordance with Sections F8.14 and F8.15, the DCC shall ensure that each Communications Hubs that has been returned to the DCC is disposed of in accordance with Good Industry Practice and the standard referred to in Section G2.18 (Management of Data).

Loss or Destruction of Communications Hubs

F8.17 Where a Communications Hub has been lost or destroyed (save where such loss or destruction occurs while the risk of loss or destruction was the responsibility of the DCC), the following Party shall notify the DCC of such loss or destruction (via the

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

CH Ordering System):

- (a) where such loss or destruction occurs prior to completion of the Communications Hub's installation at a premises by a Supplier Party, the Party that ordered that Communications Hub (or, in the case of Special Installation Mesh Communications Hubs, the Supplier Party which took delivery of the Communications Hub);
- (b) where such loss or destruction occurs after completion of such installation and before commencement of the Communications Hub's removal from a premises by a Supplier Party, the Supplier Party responsible under the Incident Management Policy for resolving the relevant Incident; or
- (c) where such loss or destruction occurs after commencement of the Communications Hub's removal from a premises by a Supplier Party, the Supplier Party which undertook such removal.

F8.18 Where a Communications Hub is lost or destroyed following completion of its installation at a premises by a Supplier Party and before commencement of its removal from a premises by a Supplier Party, then the Supplier Party that is obliged to notify the DCC of such loss or destruction under Section F8.17(b) shall be deemed to bear the risk of such loss or destruction as described in Section F7.4(b) (Risk in the Communications Hubs following Installation Installation).

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F9 CATEGORIES OF COMMUNICATIONS HUB RESPONSIBILITY

Overview

- F9.1 The reason for the return of each returned Communications Hub, or for its loss or destruction, shall be determined in accordance with this Section F9.
- F9.2 The Party which returns a Communications Hub to the DCC shall specify the reason for the Communications Hub's return. The Party which notifies the DCC of a Communications Hub's loss or destruction shall specify the reason it was lost or destroyed. In any such case, such Party shall specify the reason in accordance with the CH Support Materials.
- F9.3 The reason specified by the relevant Party pursuant to Section F9.2 shall be subject to any contrary determination in accordance with this Section F9.
- F9.4 The reason for the return of a Communications Hub, as finally determined in accordance with this Section F9, shall be used to determine the applicable category of responsibility (as described in Section F9.4), which is then used for the purposes of calculating the Charges (or adjustments to the Charges in accordance with this Section F9).

Reasons

- F9.5 The reasons that apply for the purposes of this Section F9 are as follows:
- (a) that the Communications Hub Function which forms part of the Communications Hub has been Withdrawn from a Non-Domestic Premises;
 - (b) return of a Communications Hub to the DCC due to a Special Second-Fuel Installation;
 - (c) return of a Communications Hub to the DCC due to a Special WAN-Variant Installation;
 - (d) loss or destruction of or damage to a Communications Hub, which occurred while the relevant Party was responsible for such risk and which was caused otherwise than by a breach of this Code by the DCC or a CH Defect;

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (e) return of a Communications Hub to the DCC, other than where another reason under this Section F9.5 applies;
- (f) that the Communications Hub has a CH Defect;
- (g) loss or destruction of or damage to a Communications Hub caused by a breach of this Code by the DCC;
- (h) rejection of a Communications Hub in accordance with Section F6.10 (Rejected Communications Hub Products); and
- (i) return of a Communications Hub to the DCC where requested by the DCC under Section F8.1 (Product Recall / Technology Refresh).

Categories of Responsibility

F9.6 For the purposes of this Section F9 and the Charging Methodology:

- (a) each of the reasons described in Sections F9.5(d) and (e) constitute a “**CH User Responsibility**”, and where the Party required to do so under Section F9.2 fails to specify a reason in accordance with that Section the reason shall be deemed to be a CH User Responsibility;
- (b) each of the reasons described in Sections F9.5(f) and (g) (where they apply prior to completion of the installation of the Communications Hub at a premises in accordance with the CH Installation and Maintenance Support Materials) and Section F9.5(h) constitute a “**CH Pre-Installation DCC Responsibility**”;
- (c) each of the reasons described in Sections F9.5(f) and (g) (where they apply following completion of the installation of the Communications Hub at a premises in accordance with the CH Installation and Maintenance Support Materials) constitute a “**CH Post-Installation DCC Responsibility**”;
- (d) the reason described in Sections F9.5(i) constitute a “**Product Recall or Technology Refresh**”; and
- (e) the reasons described in Sections F9.5(a), (b) and (c) do not need to be categorised, as they do not directly give rise to a Charge or an adjustment to

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the Charges under this Section F9.

CH Fault Diagnosis

- F9.7 The DCC has the right to examine and test returned Communications Hubs and to investigate the cause of any damage to or loss or destruction of Communications Hubs to verify whether the reason given by a Party pursuant to Section F9.2 is correct (being “**CH Fault Diagnosis**”).
- F9.8 The DCC shall undertake CH Fault Diagnosis in accordance with the process for the same described in the CH Installation and Maintenance Support Materials (which may include sampling and extrapolation of results based on sampling).
- F9.9 The DCC shall, within 10 days after the return of Communications Hubs or notification of their loss or destruction by a Party, notify that Party (via the CH Ordering System) if the DCC intends to undertake any CH Fault Diagnosis in respect of those Communications Hub.
- F9.10 In the absence of a notification in accordance with Section F9.9, the reason given by a Party in accordance with Section F9.2 in respect of the Communications Hubs in question shall be deemed to be correct.
- F9.11 Provided the DCC has first given notice in accordance with Section F9.9, where the DCC disputes the reason given by a Party pursuant to Section F9.2 in respect of any Communications Hubs, the DCC shall provide to the Party a report setting out the DCC’s analysis of why the reason given by the Party is not correct.
- F9.12 Where the DCC does not provide a report to the Party in accordance with Section F9.11 within 35 days after the DCC’s notice to a Party under Section F9.9, the reason given by the Party in accordance with Section F9.2 in respect of the Communications Hubs in question shall be deemed to be correct.
- F9.13 Unless the Party notifies the DCC of the Party’s objection to the DCC’s analysis within 35 days after receipt of a report in accordance with Section F9.11, the analysis set out in the report shall be deemed to be correct.
- F9.14 Where the Party notifies the DCC of an objection within the time period required by Section F9.13, then either of them may refer the matter to the Panel for determination

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(which determination shall be final and binding for the purposes of this Code). Where the Panel is unable to determine the reason for a Communications Hub's return, then the reason given by the relevant Party under Section F9.2 shall be deemed to be correct.

Reporting on DCC Faults

F9.15 The DCC shall report to the Panel and the other Parties on the number of Communications Hubs for which the reason for return, loss or destruction is determined in accordance with this Section F9 to have been a CH Pre-Installation DCC Responsibility or a CH Post-Installation DCC Responsibility. The DCC shall report in respect of successive periods of three months (starting with the month in which Communications Hubs are first delivered pursuant to this Section F). Such report shall include a supporting explanation of the circumstances that gave rise to such instances of CH Pre-Installation DCC Responsibility or CH Post-Installation DCC Responsibility. Where the DCC is disputing (under CH Fault Diagnosis) whether an instance of CH Pre-Installation DCC Responsibility or CH Post-Installation DCC Responsibility has arisen, the DCC shall not include those instances until the matter is finally resolved (under CH Fault Diagnosis).

Compensation for CH Type Faults

F9.16 Where the reason for a Communications Hub's return, loss or destruction is determined in accordance with this Section F9 to have been a CH Post-Installation DCC Responsibility, then a "**CH Type Fault**" shall be said to have occurred in respect of that Communications Hub (at the time of such return or notification, and in respect of the Party making such return or notification).

F9.17 Section F9.18 shall apply in respect of a Region and a calendar year, where the number of CH Type Faults relating to that Region and occurring during that calendar year exceeds 0.5% of the total number of Communications Hubs that are installed at premises within that Region as at the end of that calendar year.

F9.18 Where this Section F9.18 applies in respect of a Region and a calendar year, the DCC shall be liable to pay to Parties collectively an amount of liquidated damages equal to the positive amount (if any) calculated as follows:

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) £50.00; multiplied by
- (b) the Consumer Prices Index for April of that calendar year, divided by the Consumer Prices Index for September 2013; multiplied by
- (c) (i) the number of CH Type Faults relating to that Region and occurring during that calendar year; less (ii) 0.5% of the total number of Communications Hubs that are installed at premises within that Region as at the end of that calendar year; less (iii) the number of CH Type Faults relating to that Region and occurring during that calendar year for which the DCC is liable to pay a CH Batch Fault Payment.

F9.19 The aggregate amount (if any) payable by the DCC under Section F9.18 in respect of a Region and a calendar year shall be payable by the DCC to each Party (the amount payable to each Party being a “**CH Type Fault Payment**”) pro-rated in proportion to:

- (a) the number of CH Type Faults (across all Regions) which occurred in respect of that Party during that calendar year, less the number of CH Type Faults (across all Regions) which occurred in respect of that Party during that calendar year for which the DCC is liable to pay a CH Batch Fault Payment; as compared to
- (b) the total number of CH Type Faults (across all Regions) which occurred in respect of all Parties during that calendar year, less the number of CH Type Faults (across all Regions) which occurred in respect of all Parties during that calendar year for which the DCC is liable to pay a CH Batch Fault Payment.

Compensation for Batch Faults

F9.20 A “**CH Batch Fault**” shall occur in respect of a Delivery Batch where:

- (a) the number of CH Type Faults which occur in respect of a Communications Hub forming part of that Delivery Batch, and which occur within 12 months following completion of the installation of that Communications Hub; exceeds
- (b) 10% of the number of Communications Hubs comprising that Delivery Batch.

F9.21 Where a CH Batch Fault occurs in respect of a Delivery Batch, the DCC shall be

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

liable to pay to each Party an amount of liquidated damages (being a “**CH Batch Fault Payment**”) equal to:

- (a) £50.00; multiplied by
- (b) the Consumer Prices Index for April of that calendar year, divided by the Consumer Prices Index for September 2013; multiplied by
- (c) the number of CH Type Faults which occurred in respect of that Party and a Communications Hub which formed part of that Delivery Batch, and which occur within 12 months following completion of the installation of that Communications Hub.

Payment of Type Fault and Batch Fault Compensation

F9.22 The DCC shall include each CH Type Fault Payment and each CH Batch Fault Payment payable to a Party as a credit in favour of that Party under the DCC’s Invoices (so as to reduce the Charges payable by that Party).

Compensation for Product Recall or Technology Refresh

F9.23 Where the reason for a Communications Hub’s return is determined in accordance with this Section F9 to have been a Product Recall or Technology Refresh, then the DCC shall (notwithstanding Section M2.8 (Exclusion of Other Liabilities)) be liable to each other Party for the reasonable costs and expenses incurred by that Party in:

- (a) any corrective action taken by that Party in accordance with this Code or other Laws and/or Directives (including any withdrawal or recall activities); and/or
- (b) notifying or warning Energy Consumers of any corrective action taken by the DCC and/or any other Party (and providing Energy Consumers with relevant information regarding such corrective action).

Damage Caused by Defective Communications Hubs

F9.24 Where a CH Defect causes loss of or damage to physical property (including loss of or damage to Systems, and loss or corruption of Data), such loss or damage shall be deemed to have been caused by a breach of this Code by the DCC, including for the

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

purposes of M2.5 (Damage to Physical Property).

Exclusive Remedies for Site Visits

F9.25 Notwithstanding Sections F9.24 and M2.6(a) (Recovery of Loss which is Expressly Permitted), no Party shall be entitled to recover from the DCC any costs or expenses incurred in attending a premises for the purposes of repairing or replacing any Devices damaged or destroyed as a result of a CH Defect. This Section F9.25 is without prejudice to the CH Type Fault Payments, CH Batch Fault Payments, and compensation under Section F9.23 in respect of Product Recall or Technology Refresh.

Exclusive Remedy for Damaged or Lost Communications Hubs

F9.26 No Party shall have any liability to the DCC for damage to, or loss or destruction of, Communications Hubs. This Section F9.26 is without prejudice to the Charges payable in respect of the Communications Hub Services.

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

F10 TEST COMMUNICATIONS HUBS

Overview

F10.1 Unless expressly stated otherwise, the references in this Code to Communications Hubs do not include Test Communications Hubs.

F10.2 Without limiting the generality of Section F10.1, because Test Communications Hubs are not to be treated as Communications Hubs, Test Communications Hubs shall:

- (a) not be included in Communications Hub Forecasts or Communications Hub Orders;
- (b) not be subject to Sections F5 (Communications Hub Forecasts & Orders) to F9 (Categories of Communications Hub Responsibility);
- (c) not be (or be capable of being) Commissioned; and
- (d) only be populated with Test Certificates (and not actual Organisation Certificates or Device Certificates).

Prototype Communications Hubs

F10.3 Where the DCC provides a Prototype Communications Hub as a Test Communications Hub (in accordance with the definition of Test Communications Hub), the DCC shall provide details of the manner in which the Prototype Communications Hub does not comply with CHTS. For the purposes of this Section F10.3 and the definition of Prototype Communications Hub, until such time as the CHTS forms part of this Code, the references to the CHTS shall be construed by reference to the draft of the CHTS that the Secretary of State directs from time to time for the purposes of this Section F10.3.

Provision of Test Communications Hubs

F10.4 The DCC shall, from the relevant date set out in the End-to-End Testing Approach Document, provide Test Communications Hubs to other Parties and to any other person that requests them (in each case in accordance with the other provisions of this Section F10). The DCC shall take reasonable steps use its reasonable endeavours to

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

provide Test Communications Hubs from an earlier date. Where the DCC is able to make Test Communications Hubs available from an earlier date, the DCC shall publish a notice to that effect on the DCC Website.

F10.5 Where a person that is not a Party wishes to order Test Communications Hubs, the DCC shall offer terms upon which Test Communications Hubs may be ordered. Such offer shall be provided as soon as reasonably practicable after receipt of the request, and shall be based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances). A person that is bound by an agreement entered into with the DCC pursuant to this Section F10.5 shall be a "**TCH Participant**". The DCC shall not provide Test Communications Hubs to a person that is not a Party or a TCH Participant.

F10.6 The DCC shall allow Parties and TCH Participants to order and return Test Communications Hubs via a reasonable means.

F10.7 The DCC shall publish on the DCC Website a guide describing the process by which Parties and other persons may obtain and return Test Communications Hubs.

Ordering, Delivery, Rejection and Returns

F10.8 Where a Party or a TCH Participant has ordered one or more Test Communications Hubs via the means described in Section F10.6:

- (a) the person that ordered the Test Communications Hubs shall be liable to pay the applicable Charge;
- (b) the DCC shall deliver the Test Communications Hubs to the location in Great Britain requested by the person that ordered the Test Communications Hubs, on the date requested by that person (provided that the DCC shall have no obligation to deliver Test Communications Hubs earlier than the date 18 weeks after the date on which the Test Communications Hubs were ordered);
- (c) delivery of the Test Communications Hubs shall occur on their removal from the delivery vehicle at the delivery location;
- (d) legal and beneficial ownership of (and responsibility for loss or destruction of or damage to) the Test Communications Hubs shall vest in the person that

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

ordered them on commencement of their unloading at the delivery location (where not unloaded by the DCC) or on completion of their unloading at the delivery location (where unloaded by the DCC);

- (e) the person that ordered the Test Communications Hubs shall be entitled to reject a delivery and arrange for the return of the rejected Test Communications Hubs to the DCC on the following basis (and only where notified to the DCC within five days of the delivery date):
 - (i) to the extent the delivery contained more Test Communications Hubs than were ordered; and/or
 - (ii) to the extent the Test Communications Hub Products are (or reasonably appear on a visual inspection to be) damaged or have been (or reasonably appear on a visual inspection to have been) tampered with (and such damage or tampering occurred prior to their delivery);
- (f) the person that ordered the Test Communications Hubs shall be entitled to return them to the DCC where a CH Defect arises within 6 months following their delivery, but not thereafter (for which purpose, the definition of CH Defect shall be construed by reference to the requirements for Test Communications Hubs rather than those for Communications Hubs);
- (g) a person wishing to return a Test Communications Hub to the DCC pursuant to (e) or (f) above shall return it to the DCC in accordance with the relevant rules applicable to Communications Hubs under Section F8 (Removal and Return of Communications Hubs); and
- (h) legal and beneficial ownership of (and responsibility for loss or destruction of or damage to) the Test Communications Hubs rejected or returned pursuant to this Section F10.8 shall revert to the DCC on completion of their unloading at the returns location (where not unloaded by the DCC) or on commencement of their unloading at the returns location (where unloaded by the DCC).

F10.9 The rejection and/or return of Test Communications Hubs by a Party or TCH Participant pursuant to Section F10.8 is relevant in determining the Charges payable by that Party or TCH Participant. Where the DCC wishes to do so, it may undertake

SEC – Section F: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

physical and electronic analysis in respect of Test Communications Hubs rejected or returned, in which case the process for CH Fault Diagnosis shall apply, but:

- (a) by reference to the reason for rejection and/or return given pursuant to Section F10.6 (rather than by reference to the reason given pursuant to Section F9 (Categories of Communications Hub Responsibility)); and
- (b) without the DCC's ability to apply sampling and extrapolation to the extent that such an ability is set out in the CH Installation and Maintenance Support Materials.

Use of Test Communications Hubs

F10.10 The Party or TCH Participant that ordered a Test Communications Hub shall (unless or until it is returned pursuant to Section F10.8) ensure that the Test Communications Hub shall:

- (a) only be used by Parties or TCH Participant for the purposes of tests undertaken under this Code, or for the purposes of testing Devices or Systems to be used in relation to this Code; and
- (b) be used and maintained in accordance with Good Industry Practice, and the requirements of this Code applicable to Test Communications Hubs.

F10.11 Where a CH Defect in a Test Communications Hub (for which purpose, the definition of CH Defect shall be construed by reference to the requirements for Test Communications Hubs rather than those for Communications Hubs) causes loss of or damage to physical property (including loss of or damage to Systems, and loss or corruption of Data), such loss or damage shall be deemed to have been caused by a breach of this Code by the DCC, including for the purposes of M2.5 (Damage to Physical Property).

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

SECTION G - SECURITY

G1 SECURITY: GENERAL PROVISIONS

Interpretation

G1.1 Sections G2 to G9 shall be interpreted in accordance with the following provisions of this Section G1.

Transitional Period for Updated or Replacement Standards

G1.2 Section G1.3 applies where:

(a) the DCC or any User is required, in accordance with any provision of Sections G2 to G9, to ensure that it, or that any of its policies, procedures, systems or processes, complies with:

(i) any standard, procedure or guideline issued by a third party; and

(ii) any equivalent to that standard, procedure or guideline which updates or replaces it from time to time; and

(b) the relevant third party issues an equivalent to that standard, procedure or guideline which updates or replaces it.

G1.3 Where this Section G1.3 applies, the obligation on the DCC or User (as the case may be):

(a) shall be read as an obligation to comply with the updated or replaced standard, procedure or guideline from such date as is determined by the Panel (having considered the advice of the Security Sub-Committee) in respect of that document; and

(b) prior to that date shall be read as an obligation to comply (at its discretion) with either:

(i) the previous version of the standard, procedure or guideline; or

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (ii) the updated or replaced standard, procedure or guideline.

G1.4 Any date determined by the Panel in accordance with Section G1.3 may be the subject of an appeal by the DCC or any User to the Authority (whose decision shall be final and binding for the purposes of this Code).

Obligations on Users

G1.5 Obligations which are expressed to be placed on a User shall, where that User performs more than one User Role, be read as applying to it separately in respect of each of its User Roles.

G1.6 For the purposes of Section G1.5, where any Network Party is deemed to have nominated itself as a Registration Data Provider (in accordance with the definition of Registration Data Provider), its role as a Registration Data Provider shall be treated as if it were an additional category of User Role.

Exclusion for Export Suppliers and Registered Supplier Agents

G1.7 Where a User acts in the User Role of 'Export Supplier' or 'Registered Supplier Agent', it is not to be subject to any of the obligations expressed to be placed on Users except for those obligations set out at:

- (a) Sections G3.2 to G3.3 (Unauthorised Activities: Duties to Detect and Respond);
- (b) Sections G3.8 to G3.9 (Management of Vulnerabilities);
- (c) Sections G5.14 to G5.18 (Information Security: Obligations on Users), save that for this purpose the reference:
 - (i) in Section G5.18(b)(i) to "Sections G3 and G4" shall be read as if it were to "Sections G3.2 to G3.3 and G3.8 to G3.9"; and
 - (ii) in Section G5.18(b)(iii) to "Sections G5.19 to G5.24" shall be read as if it were to "Section G5.19(d)"; and

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(d) G6 (Anomaly Detection Thresholds: Obligations on the DCC and Users).

Disputes

G1.8 ~~Where, in Any~~ dispute ~~between a Party and a User, a question arises as to whether that~~
~~regarding the compliance of a~~ User ~~has complied~~ with any of its obligations under
Sections G3 to G6:

(a) ~~that question~~ may be referred ~~by either of them~~ to the Panel for its
determination: ~~and~~

(b) ~~Where a Party~~ ~~either of them~~ disagrees with any such determination of the
Panel, then ~~that Party~~ may refer the matter to the Authority in accordance with
Section M7 (Dispute Resolution).

G1.9 Section G1.8:

(a) ~~shall be without prejudice to the provisions of Section M8.2 (Notification of an~~
~~Event of Default); and~~

~~(a)(b) shall not apply in respect of any other question in dispute between a Party and a~~
~~User relating to or arising from the question of whether the User has complied~~
~~with any of its obligations under Sections G3 to G6.~~

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G2 SYSTEM SECURITY: OBLIGATIONS ON THE DCC

Unauthorised Activities: Duties to Detect and Respond

G2.1 The DCC shall ~~take reasonable steps~~~~use its reasonable endeavours~~:

- (a) to ensure that the DCC Systems are capable of detecting any unauthorised connection that has been made to them, and any unauthorised attempt to connect to them, by any other System; and
- (b) if the DCC Systems detect such a connection or attempted connection, to ensure that the connection is terminated or the attempted connection prevented (as the case may be).

G2.2 The DCC shall ~~take reasonable steps~~~~use its reasonable endeavours~~:

- (a) to ensure that the DCC Total System is capable of detecting any unauthorised software that has been installed or executed on it and any unauthorised attempt to install or execute software on it;
- (b) if the DCC Total System detects any such software or such attempt to install or execute software, to ensure that the installation or execution of that software is prevented; and
- (c) where any such software has been installed or executed, to take appropriate remedial action.

G2.3 The DCC shall:

- (a) ~~take reasonable steps~~~~use its reasonable endeavours~~ to ensure that:
 - (i) the DCC Total System is capable of identifying any deviation from its expected configuration; and
 - (ii) any such identified deviation is rectified; and
- (b) for these purposes maintain at all times an up-to-date list of all hardware, and of all software and firmware versions and patches, which form part of the configuration of the DCC Total System.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G2.4 The DCC shall ~~use its reasonable endeavours~~take reasonable steps to ensure that the DCC Total System:

- (a) is capable of identifying any unauthorised or unnecessary network port, protocol, communication, application or network service;
- (b) causes or permits to be open at any time only those network ports, and allows only those protocols, which are required at that time for the effective operation of that System, and blocks all network ports and protocols which are not so required; and
- (c) causes or permits at any time only the making of such communications and the provision of such applications and network services as are required at that time for the effective operation of that System.

G2.5 The DCC shall ~~take reasonable steps~~use its reasonable endeavours to ensure that each component of the DCC Total System is, at each point in time, enabled only with the functionality that is necessary for it effectively to fulfil its intended role within the DCC Total System at that time.

G2.6 The DCC shall:

- (a) ensure that the DCC Total System records all system activity (including all attempts to access resources, or Data held, on it) in audit logs;
- (b) ensure that the DCC Total System detects any attempt by any person to access resources, or Data held, on it without possessing the authorisation required to do so; and
- (c) ~~take reasonable steps~~use its reasonable endeavours to ensure that the DCC Total System prevents any such attempt at unauthorised access.

G2.7 The DCC shall ~~take reasonable steps~~use its reasonable endeavours to ensure that the DCC Total System is capable of detecting any instance of Data leaving it by any means (including in particular by network transfers and the use of removable media) without authorisation.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Adverse Events: Duties to Detect and Prevent

G2.8 The DCC shall ~~take reasonable steps use its reasonable endeavours~~ to ensure that:

- (a) the DCC Total System detects any Denial of Service Event; and
- (b) any unused or disabled component or functionality of the DCC Total System is incapable of being a means by which that System is Compromised.

G2.9 The DCC shall use its best endeavours to:

- (a) ensure that the DCC Total System is not Compromised;
- (b) where the DCC Total System is Compromised, minimise the extent to which it is Compromised and any adverse effect arising from it having been Compromised; and
- (c) ensure that the DCC Total System detects any instance in which it has been Compromised.

Security Incident Management

G2.10 The DCC shall ensure that, where the DCC Total System detects any:

- (a) unauthorised event or deviation of a type referred to in Sections G2.1 to G2.7; or
- (b) event which results, or was capable of resulting, in the DCC Total System being Compromised,

the DCC takes all of the steps required by the DCC Information Security Management System.

G2.11 The DCC shall, on the occurrence of a Major Security Incident in relation to the DCC Total System, promptly notify the Panel and the Security Sub-Committee.

System Design and Operation

G2.12 The DCC shall, at each stage of the System Development Lifecycle, have regard to the need to design and operate the DCC Total System so as to protect it from being Compromised.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Management of Vulnerabilities

G2.13 The DCC shall ensure that an organisation which is a CESG CHECK service provider carries out assessments that are designed to identify any vulnerability of the DCC Systems to Compromise:

- (a) in respect of each DCC System, on at least an annual basis;
- (b) in respect of each new or materially changed component or functionality of the DCC Systems, prior to that component or functionality becoming operational; and
- (c) on the occurrence of any Major Security Incident in relation to the DCC Systems.

G2.14 The DCC shall ensure that it carries out assessments that are designed to identify any vulnerability of the DCC Systems to Compromise:

- (a) in respect of each DCC System, on at least an annual basis;
- (b) in respect of each new or materially changed component or functionality of the DCC Systems, prior to that component or functionality becoming operational; and
- (c) on the occurrence of any Major Security Incident in relation to the DCC Systems.

G2.15 Where, following any assessment of the DCC Systems in accordance with Section G2.13 or G2.14, any such vulnerability has been detected, the DCC shall:

- (a) ~~take reasonable steps use its reasonable endeavours~~ to ensure that the cause of the vulnerability is rectified, or the potential impact of the vulnerability is mitigated, as soon as is reasonably practicable; and
- (b) in the case of a material vulnerability, promptly notify the Security Sub-Committee of the steps being taken to rectify its cause or mitigate its potential impact (as the case may be) and the time within which they are intended to be completed.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Management of Data

G2.16 Where the DCC carries out a Back-Up of any Data held on the DCC Total System, it shall ensure that the Data which are Backed-Up are:

- (a) protected in accordance with the Information Classification Scheme, including when being transmitted for the purposes of Back-Up; and
- (b) stored on media that are located in physically secure facilities, at least one of which facilities must be in a different location to that part of the DCC Total System on which the Data being Backed-Up is ordinarily held.

G2.17 The DCC shall develop and maintain, and hold all Data in accordance with, a DCC Data Retention Policy.

G2.18 The DCC shall ensure that where, in accordance with the DCC Data Retention Policy, any Data are no longer required for the purposes of the Authorised Business, they are securely deleted in compliance with:

- (a) HMG Information Assurance Standard No. 5:2011 (Secure Sanitisation); or
- (b) any equivalent to that HMG Information Assurance Standard which updates or replaces it from time to time.

DCC Total System: Duty to Separate

G2.19 The DCC shall ~~take reasonable steps use its reasonable endeavours~~ to ensure that any software or firmware installed on the DCC Total System for the purposes of security is Separated from any software or firmware that is installed on that System for any other purpose.

G2.20 The DCC shall ensure that:

- (a) all DCC Systems which form part of the DCC Total System are Separated from any other Systems;
- (b) the DCC IT Testing and Training Systems and DCC IT Supporting Systems are Separated from the DCC Live Systems; and

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) subject to the provisions of Section G2.21, each individual System within the DCC Live Systems is Separated from each other such System.

G2.21 The individual System referred to at paragraph (c) of the definition of DCC Live Systems in Section A1 (Definitions) need not be Separated from the individual System referred to at paragraph (a) of that definition to the extent that it uses that individual System referred to at paragraph (a) solely for the purposes of confirming the relationship between:

- (a) an MPAN or MPRN and any Party Details;
- (b) an MPAN or MPRN and any Device; or
- (c) any Party Details and any User ID.

DCC Live Systems: Independence of User Systems

G2.22 The DCC shall ensure that no individual is engaged in:

- (a) the development of bespoke software or firmware, or the customisation of any software or firmware, for the purpose of its installation on any part of the DCC Live Systems; or
- (b) the development, design, build, testing, configuration, implementation, operation, maintenance, modification or decommissioning of any part of the DCC Live Systems,

unless that individual satisfies the requirements of Section G2.23.

G2.23 An individual satisfies the requirements of this Section only if, at any time at which that individual is engaged in any activity described in Section G2.22, he or she:

- (a) is not at the same time also engaged in:
 - (i) the development of bespoke software or firmware, or the customisation of any software or firmware, for the purpose of its installation on any User Systems; or
 - (ii) the development, design, build, testing, configuration, implementation,

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

operation, maintenance, modification or decommissioning of any User Systems; and

- (b) has not been engaged in any activity described in paragraph (a) for a period of time which the DCC reasonably considers to be appropriate, having regard to the need to ensure the management of risk in accordance with the DCC Information Security Management System.

G2.24 The DCC shall ensure that no resources which form part of the DCC Live Systems also form part of any User Systems.

Monitoring and Audit

G2.25 The DCC shall ensure that all system activity audit logs are reviewed regularly in accordance with the DCC Information Security Management System.

G2.26 The DCC shall ensure that all such system activity recorded in audit logs is recorded in a standard format which is compliant with:

- (a) British Standard BS 10008:2008 (Evidential Weight and Legal Admissibility of Electronic Information), or any equivalent to that British Standard which updates or replaces it from time to time; and
- (b) in the case of activity on the DCC Systems only, CESG Good Practice Guide 18:2012 (Forensic Readiness), or any equivalent to that CESG Good Practice Guide which updates or replaces it from time to time.

G2.27 The DCC shall monitor the DCC Systems in compliance with:

- (a) CESG Good Practice Guide 13:2012 (Protective Monitoring); or
- (b) any equivalent to that CESG Good Practice Guide which updates or replaces it from time to time.

G2.28 The DCC shall take reasonable steps use its reasonable endeavours to ensure that the DCC Systems are capable of detecting Anomalous Events, in particular by reference to the:

- (a) sending or receipt (as the case may be) of Service Requests, Pre-Commands,

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Signed Pre-Commands, Commands, Service Responses and Alerts;

- (b) audit logs of each component of the DCC Total System;
- (c) error messages generated by each device which forms part of the DCC Total System;
- (d) Incident Management Log compiled in accordance with Section H9; and
- (e) patterns of traffic over the SM WAN.

G2.29 The DCC shall:

- (a) take reasonable steps use its reasonable endeavours to ensure that the DCC Systems detect all Anomalous Events; and
- (b) ensure that, on the detection of any Anomalous Event, it takes all of the steps required by the DCC Information Security Management System.

Manufacturers: Duty to Notify and Be Notified

G2.30 Where the DCC becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of, any hardware, software or firmware which forms part of the DCC Total System, it shall:

- (a) wherever it is reasonably practicable to do so notify the manufacturer of the hardware or the developer of the software or firmware (as the case may be);
- (b) take reasonable steps use its reasonable endeavours to ensure that the cause of the vulnerability or likely cause of the material adverse effect is rectified, or its potential impact is mitigated, as soon as is reasonably practicable; and
- (c) promptly notify the Security Sub-Committee of the steps being taken to rectify the cause of the vulnerability or likely cause of the material adverse effect, or to mitigate its potential impact (as the case may be), and the time within which those steps are intended to be completed.

G2.31 The DCC shall not be required to notify a manufacturer or developer in accordance with Section G2.30(a) where it has reason to be satisfied that the manufacturer or developer

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

is already aware of the matter that would otherwise be notified.

G2.32 The DCC shall, wherever it is reasonably practicable to do so, establish with the manufacturers of the hardware and developers of the software and firmware which form part of the DCC Total System arrangements designed to ensure that the DCC will be notified where any such manufacturer or developer (as the case may be) becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of, such hardware, software or firmware.

G2.33 Any arrangements established in accordance with Section G2.32 may provide that the manufacturer or developer (as the case may be) need not be required to notify the DCC where that manufacturer or developer has reason to be satisfied that the DCC is already aware of the matter that would otherwise be notified under the arrangements.

Parse and Correlate Software: Duty to Notify

G2.34 Where the DCC becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of, any version of the Parse and Correlate Software, it shall notify the Users and (wherever it is reasonably practicable to do so) the developer of the software.

G2.35 The DCC shall not be required to notify a developer or User in accordance with Section G2.34 where it has reason to be satisfied that the developer or User is already aware of the matter that would otherwise be notified.

Cryptographic Credential Tokens

G2.36 Before supplying any Cryptographic Credential Token to any person in accordance with the provisions of this Code, the DCC shall ensure that the version of the software which forms part of that Cryptographic Credential Token:

(a) operates so as to generate Public Keys each of which is part of a Key Pair that has been generated using random numbers which are such as to make it computationally infeasible to regenerate that Key Pair even with knowledge of when and by means of what equipment it was generated; and

(b) has been adequately tested for the purpose of ensuring that it fulfils its intended purpose.

G2.37 The DCC shall, wherever it is reasonably practicable to do so, establish with the manufacturers of the hardware and developers of the software and firmware which form part of any Cryptographic Credential Tokens to be supplied by it in accordance with the provisions of this Code, arrangements designed to ensure that the DCC will be notified where any such manufacturer or developer (as the case may be) becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of, such hardware, software or firmware.

G2.38 Where the DCC becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of, any hardware, software or firmware which form part of any Cryptographic Credential Token which has been supplied by it in accordance with the provisions of this Code, it shall notify the Subscribers for Certificates associated with the use of Cryptographic Credential Tokens and (wherever it is reasonably practicable to do so) the manufacturer of the hardware or (as the case may be) developer of the software or firmware.

File Signing Software

G2.39 Before supplying any File Signing Software to any person in accordance with the provisions of this Code, the DCC shall ensure that the version of that File Signing Software which is being supplied has been subject to a software code review, by an individual or organisation with the professional competence to carry out such a review, for the purpose of identifying any vulnerabilities in the code that were not intended as a feature of its design.

G2.40 The DCC shall, wherever it is reasonably practicable to do so, establish with the developer of the File Signing Software to be supplied by it in accordance with the provisions of this Code, arrangements designed to ensure that the DCC will be notified where that developer becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of, such software.

G2.41 Where the DCC becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of, any File Signing Software which has been supplied by it in accordance with the provisions of this Code, it shall notify each person to whom it has provided that software and (wherever it is reasonably practicable to do so) the developer of the software.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

~~G2.42~~ The DCC shall ensure that where it provides File Signing Software to any person, that software is provided in a format such that it can be confirmed, on receipt by the person to whom it is provided, as:

(a) having been provided by the DCC; and

(b) being authentic, such that any tampering with the software would be apparent.

Cryptographic Processing

~~G2.36~~G2.43 The DCC shall ensure that it carries out all Cryptographic Processing which:

- (a) is for the purposes of complying with its obligations as CoS Party; or
- (b) results in the application of a Message Authentication Code to any message in order to create a Command,

within Cryptographic Modules which are compliant with FIPS 140-2 Level 3 (or any equivalent to that Federal Information Processing Standard which updates or replaces it from time to time).

~~G2.37~~G2.44 The DCC shall ensure that it carries out all other Cryptographic Processing only within Cryptographic Modules established in accordance with its Information Classification Scheme.

Network Time

~~G2.38~~G2.45 For the purposes of Section G2.3946:

- (a) the "**Network Time**" means one or more time sources maintained by the DCC from which all Commissioned Communications Hub Functions synchronise time; and
- (b) the "**Independent Time Source**" means a time source that is:
 - (i) accurate;
 - (ii) not maintained by the DCC; and
 - (iii) determined in a manner that is independent of any part of the DCC Total

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

System.

~~G2.39~~G2.46 The DCC shall ensure that:

- (a) the DCC Total System is capable of detecting any instance in which the Network Time materially differs from the Independent Time Source; and
- (b) if the DCC Total System detects such a material difference, the DCC takes all of the steps required by the DCC Information Security Management System to rectify the inaccuracy of its Network Time.

Integrity of Communication over the SM WAN

~~G2.40~~G2.47 The DCC shall ~~take reasonable steps use its reasonable endeavours~~ to ensure that all communications which are transmitted over the SM WAN are protected so that the Data contained in them remains confidential, and their integrity is preserved, at all times during transmission to and from Communications Hubs.

~~G2.41~~G2.48 The DCC shall not process any communication received over the SM WAN, or send to any Party any communication over the SM WAN, where it is aware that the Data contained in that communication has been Compromised.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G3 SYSTEM SECURITY: OBLIGATIONS ON USERS

Unauthorised Activities: Duties to Detect and Respond

G3.1 Each User shall:

- (a) ~~take reasonable steps use its reasonable endeavours~~ to ensure that:
 - (i) its User Systems are capable of identifying any deviation from their expected configuration; and
 - (ii) any such identified deviation is rectified; and
- (b) for these purposes maintain at all times an up-to-date list of all hardware, and of all software and firmware versions and patches, which form part of the configuration of those User Systems.

G3.2 Each User shall ~~take reasonable steps use its reasonable endeavours~~:

- (a) to ensure that its User Systems are capable of detecting any unauthorised software that has been installed or executed on them and any unauthorised attempt to install or execute software on them;
- (b) if those User Systems detect any such software or such attempt to install or execute software, to ensure that the installation or execution of that software is prevented; and
- (c) where any such software has been installed or executed, to take appropriate remedial action.

G3.3 Each User shall:

- (a) ensure that its User Systems record all attempts to access resources, or Data held, on them;
- (b) ensure that its User Systems detect any attempt by any person to access resources, or Data held, on them without possessing the authorisation required to do so; and
- (c) ~~take reasonable steps use its reasonable endeavours~~ to ensure that its User

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Systems prevent any such attempt at unauthorised access.

Security Incident Management

G3.4 Each User shall ensure that, on the detection of any unauthorised event of the type referred to at Sections G3.1 to G3.3, it takes all of the steps required by its User Information Security Management System.

G3.5 Each User shall, on the occurrence of a Major Security Incident in relation to its User Systems, promptly notify the Panel and the Security Sub-Committee.

System Design and Operation

G3.6 Each User shall, at each stage of the System Development Lifecycle, have regard to the need to design and operate its User Systems so as to protect them from being Compromised.

Management of Vulnerabilities

G3.7 Each Supplier Party shall ensure that either a tester who has achieved CREST certification or an organisation which is a CESG CHECK service provider carries out assessments that are designed to identify any vulnerability of its User Systems to Compromise:

- (a) in respect of each of its User Systems, on at least an annual basis;
- (b) in respect of each new or materially changed component or functionality of its User Systems, prior to that component or functionality becoming operational; and
- (c) on the occurrence of any Major Security Incident in relation to its User Systems.

G3.8 Each User shall ensure that it carries out assessments that are designed to identify any vulnerability of its User Systems to Compromise:

- (a) in respect of each of its User Systems, on at least an annual basis;
- (b) in respect of each new or materially changed component or functionality of its User Systems, prior to that component or functionality becoming operational;

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

and

- (c) on the occurrence of any Major Security Incident in relation to its User Systems.

G3.9 Where, following any assessment of its User Systems in accordance with Section G3.7 or G3.8, any material vulnerability has been detected, a User shall ensure that it:

- (a) ~~takes reasonable steps uses its reasonable endeavours~~ to ensure that the cause of the vulnerability is rectified, or the potential impact of the vulnerability is mitigated, as soon as is reasonably practicable; and
- (b) promptly notifies the Security Sub-Committee of the steps being taken to rectify its cause or mitigate its potential impact (as the case may be) and the time within which they are intended to be completed.

Management of Data

G3.10 Each User shall:

- (a) develop and maintain, and hold all Data in accordance with, a User Data Retention Policy; and
- (b) when any Data held by it cease to be retained in accordance with the User Data Retention Policy, ensure that they are securely deleted in accordance with its Information Classification Scheme.

User Systems: Duty to Separate

G3.11 Each User shall ~~take reasonable steps use its reasonable endeavours~~ to ensure that any software or firmware that is installed on its User Systems for the purposes of security is Separated from any software or firmware that is installed on those Systems for any other purpose.

User Systems: Independence of DCC Live Systems

G3.12 Each User shall ensure that no individual is engaged in:

- (a) the development of bespoke software or firmware, or the customisation of any software or firmware, for the purpose of its installation on any part of its User

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Systems; or

- (b) the development, design, build, testing, configuration, implementation, operation, maintenance, modification or decommissioning of any part of its User Systems,

unless that individual satisfies the requirements of Section G3.13.

G3.13 An individual satisfies the requirements of this Section only if, at any time at which that individual is engaged in any activity described in Section G3.12, he or she:

- (a) is not at the same time also engaged in:
 - (i) the development of bespoke software or firmware, or the customisation of any software or firmware, for the purpose of its installation on any part of the DCC Live Systems; or
 - (ii) the development, design, build, testing, configuration, implementation, operation, maintenance, modification or decommissioning of any part of the DCC Live Systems; and
- (b) has not been engaged in any activity described in paragraph (a) for a period of time which the User reasonably considers to be appropriate, having regard to the need to ensure the management of risk in accordance with its User Information Security Management System.

G3.14 Each User shall ensure that no resources which form part of its User Systems also form part of the DCC Live Systems.

Monitoring

G3.15 Each Supplier Party shall **take reasonable steps use its reasonable endeavours** to ensure that its User Systems are capable of detecting Anomalous Events, in particular by reference to the:

- (a) sending or receipt (as the case may be) of Service Requests, Pre-Commands, Signed Pre-Commands, Commands, Service Responses and Alerts;
- (b) audit logs of each Device for which it is the Responsible Supplier; and

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) error messages generated by each Device for which it is the Responsible Supplier.

G3.16 Each Supplier Party shall:

- (a) ~~take reasonable steps~~ ~~use its reasonable endeavours~~ to ensure that its User Systems detect all Anomalous Events; and
- (b) ensure that, on the detection by its User Systems of any Anomalous Event, it takes all of the steps required by its User Information Security Management System.

Manufacturers: Duty to Notify and Be Notified

G3.17 Where a User becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of:

- (a) any hardware, software or firmware which forms part of its User Systems; or
- (b) (where applicable) any Smart Metering System (excluding a Communications Hub Function or Gas Proxy Function) for which it is the Responsible Supplier,

it shall comply with the requirements of Section G3.18.

G3.18 The requirements of this Section are that the User shall:

- (a) wherever it is reasonably practicable to do so notify the manufacturer of the hardware or Device or the developer of the software or firmware (as the case may be);
- (b) ~~take reasonable steps~~ ~~use its reasonable endeavours~~ to ensure that the cause of the vulnerability or likely cause of the material adverse effect is rectified, or its potential impact is mitigated, as soon as is reasonably practicable; and
- (c) promptly notify the Security Sub-Committee of the steps being taken to rectify the cause of the vulnerability or likely cause of the material adverse effect, or to mitigate its potential impact (as the case may be), and the time within which those steps are intended to be completed.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G3.19 A User shall not be required to notify a manufacturer or developer in accordance with Section G3.18(a) where it has reason to be satisfied that the manufacturer or developer is already aware of the matter that would otherwise be notified

G3.20 Each User shall, wherever it is practicable to do so, establish with:

- (a) the manufacturers of the hardware and developers of the software and firmware which form part of its User Systems; and
- (b) (where applicable) any Smart Metering System (excluding a Communications Hub Function or Gas Proxy Function) for which it is the Responsible Supplier, arrangements designed to ensure that the User will be notified where any such manufacturer or developer (as the case may be) becomes aware of any material security vulnerability in, or likely cause of a material adverse effect on the security of, such hardware, software, firmware or Device.

G3.21 Any arrangements established in accordance with Section G3.20 may provide that the manufacturer or developer (as the case may be) need not be required to notify the User where that manufacturer or developer has reason to be satisfied that the User is already aware of the matter that would otherwise be notified under the arrangements.

Cryptographic Processing

G3.22 Each User shall ensure that it carries out Cryptographic Processing only within Cryptographic Modules established in accordance with its Information Classification Scheme.

User Systems: Physical Location

G3.23 Each User which is an Eligible User in relation to any Supply Sensitive Service Request shall ensure that:

- (a) any Cryptographic Module which constitutes a component of its User Systems and in which:
 - (i) any Private Key that is used to Digitally Sign Pre-Commands is held; and

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(ii) Pre-Commands are Digitally Signed; and

(b) any functionality of its User Systems which is used to apply Supply Sensitive Checks,

is located, operated, configured, tested and maintained in the United Kingdom by User Personnel who are located in the United Kingdom.

G3.24 Each User to which Section G3.23 applies shall ensure that the components and the functionality of its User Systems to which that Section refers are operated from a sufficiently secure environment in accordance with the provisions of Section G5.17.

Supply Sensitive Check

G3.25 Each User which is an Eligible User in relation to any Supply Sensitive Service Request shall ensure that:

(a) it applies a Supply Sensitive Check prior to Digitally Signing a Pre-Command in respect of any Supply Sensitive Service Request;

(b) it both applies that Supply Sensitive Check and Digitally Signs the relevant Pre-Command in the United Kingdom; and

(c) the Pre-Command has been processed only in the United Kingdom between the application of the Supply Sensitive Check and the Digital Signature.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G4 ORGANISATIONAL SECURITY: OBLIGATIONS ON USERS AND THE DCC

Obligations on Users

G4.1 Each User shall:

- (a) ensure that each member of its User Personnel who is authorised to access Data held on its User Systems holds a security clearance which is appropriate to the role performed by that individual and to the Data which he or she is authorised to access; and
- (b) annually review the security clearance held by each such individual and ensure that it continues to be appropriate to the role performed by that individual and to the Data which he or she is authorised to access.

G4.2 Each User shall comply with Section G4.3 in respect of any of its User Personnel who are authorised to carry out activities which:

- (a) involve access to resources, or Data held, on its User Systems; and
- (b) are capable of Compromising the DCC Total System, any User Systems, any RDP Systems or any Device in a manner that could affect (either directly or indirectly) the quantity of gas or electricity that is supplied to a consumer at premises.

G4.3 Each User shall ensure that any of its User Personnel who are authorised to carry out the activities identified in Section G4.2:

- (a) where they are located in the United Kingdom are subject to security screening in a manner that is compliant with:
 - (i) British Standard BS 7858:2012 (Security Screening of Individuals Employed in a Security Environment – Code of Practice); or
 - (ii) any equivalent to that British Standard which updates or replaces it from time to time; and
- (b) where they are not located in the United Kingdom are subject to security screening in a manner that is compliant with:

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (i) the British Standard referred to in Section G4.3(a); or
- (ii) any comparable national standard applying in the jurisdiction in which they are located.

Obligations on the DCC

G4.4 The DCC shall:

- (a) ensure that each member of DCC Personnel who is authorised to access Data held on the DCC Total System holds a security clearance which is appropriate to the role performed by that individual and to the Data to which he or she is authorised to access; and
- (b) annually review the security clearance held by each such individual and ensure that it continues to be appropriate to the role performed by that individual and to the Data to which he or she is authorised to access.

G4.5 The DCC shall comply with Section G4.6 in respect of any of the DCC Personnel who are authorised to carry out activities which:

- (a) involve access to resources, or Data held, on the DCC Total System; and
- (b) are capable of Compromising the DCC Total System, any User Systems, any RDP Systems or any Device.

G4.6 The DCC shall ensure that any of the DCC Personnel who are authorised to carry out the activities identified in Section G4.5:

- (a) where they are located in the United Kingdom are subject to security screening in a manner that is compliant with:
 - (i) British Standard BS 7858:2012 (Security Screening of Individuals Employed in a Security Environment – Code of Practice); or
 - (ii) any equivalent to that British Standard which updates or replaces it from time to time; and
- (b) where they are not located in the United Kingdom are subject to security

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

screening in a manner that is compliant with:

- (i) the British Standard referred to in Section G4.6(a); or
- (ii) any comparable national standard applying in the jurisdiction in which they are located.

G4.7 The DCC shall ensure that each member of DCC Personnel who is a Privileged Person has passed a Security Check before being given any access to Data held on the DCC Total System.

G4.8 Where the DCC is required to ensure that any two Systems forming part of the DCC Total System are Separated, it shall either:

- (a) ensure that no person is a Privileged Person in relation to both of those Systems;
or
- (b) to the extent that any person is a Privileged Person in relation to both Systems, it establishes additional controls sufficient to ensure that the activities of that person cannot become a means by which any part of the DCC Live Systems is Compromised to a material extent.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G5 INFORMATION SECURITY: OBLIGATIONS ON THE DCC AND USERS

Information Security: Obligations on the DCC

G5.1 The DCC shall establish, maintain and implement processes for the identification and management of the risk of Compromise to the DCC Total System, and such processes shall comply with:

- (a) the standard of the International Organisation for Standards in respect of information security risk management known as ISO/IEC 27005:2011 (Information Technology – Security Techniques – Information Security Management Systems); or
- (b) any equivalent to that standard of the International Organisation for Standards which updates or replaces it from time to time

G5.2 The DCC shall carry out an assessment of such processes for the identification and management of risk:

- (a) on at least an annual basis;
- (b) on any occasion on which it implements a material change to the DCC Total System; and
- (c) on the occurrence of any Major Security Incident in relation to the DCC Total System.

G5.3 Where the DCC is required in accordance with the DCC Licence to obtain and hold ISO 27001 certification, it shall:

- (a) establish, give effect to, maintain, and comply with a set of policies and procedures to be known as the DCC Information Security Management System;
- (b) ensure that the DCC Information Security Management System:
 - (i) is so designed as to ensure that the DCC complies with its obligations under Sections G2 and G4;
 - (ii) meets the requirements of Sections G5.4 to G5.13; and

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (iii) provides for security controls which are proportionate to the potential impact of each part of the DCC Total System being Compromised, as determined by means of processes for the management of information risk; and
- (c) review the DCC Information Security Management System on at least an annual basis, and make any changes to it following such a review in order to ensure that it remains fit for purpose.

The DCC Information Security Management System

G5.4 The DCC Information Security Management System shall incorporate an information security policy which makes appropriate provision in respect of:

- (a) measures to identify and mitigate risks to the security of Data stored on or communicated by means of the DCC Total System, including measures relating to Data handling, retention and protection; and
- (b) the establishment and maintenance of an Information Classification Scheme in relation to the DCC Total System.

G5.5 The DCC Information Security Management System shall specify the approach of the DCC to:

- (a) information security, including its arrangements to review that approach at planned intervals;
- (b) human resources security;
- (c) physical and environmental security; and
- (d) ensuring that the DCC Service Providers establish and maintain information, human resources, and physical and environmental security measures which are equivalent to those of the DCC.

G5.6 The DCC Information Security Management System shall incorporate a set of asset management procedures which shall make provision for the DCC to establish and maintain a register of the physical and information assets on which it relies for the purposes of the Authorised Business (including a record of the member of DCC

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Personnel who has responsibility for each such asset).

G5.7 The DCC Information Security Management System shall incorporate procedures that comply with:

- (a) HMG Security Procedures – Telecommunications Systems and Services, Issue Number 2.2 (April 2012), in respect of the security of telecommunications systems and services; or
- (b) any equivalent to those HMG Security Procedures which update or replace them from time to time.

G5.8 The DCC Information Security Management System shall incorporate procedures that comply with:

- (a) the appropriate standards of the International Organisation for Standards with respect to network security, comprising ISO/IEC 27033-1:2009, ISO/IEC 27033-2:2012 and ISO/IEC 27033-3:2010 (Information Technology – Security Techniques – Network Security); or
- (b) any equivalents to those standards of the International Organisation for Standards which update or replace them from time to time.

G5.9 The DCC Information Security Management System shall incorporate a policy on access control, which includes provision in respect of:

- (a) measures to restrict access to Data that is stored on or communicated by means of the DCC Total System to those who require such Data and are authorised to obtain it;
- (b) the designation of appropriate levels of identity assurance in respect of those who are authorised to access such Data;
- (c) the specification of appropriate levels of security clearance in respect of those who are authorised to access such Data;
- (d) procedures for granting, amending and removing authorisations in respect of access to such Data;

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (e) procedures for granting and reviewing security clearances for DCC Personnel;
and
- (f) measures to ensure that the activities of one individual may not become a means by which the DCC Total System is Compromised to a material extent.

G5.10 The DCC Information Security Management System shall incorporate procedures on the management of information security incidents which comply with:

- (a) the standard of the International Organisation for Standards in respect of security incident management known as ISO/IEC 27035:2011 (Information Technology – Security Techniques – Information Security Incident Management); or
- (b) any equivalent to that standard of the International Organisation for Standards which updates or replaces it from time to time.

G5.11 The DCC Information Security Management System shall incorporate procedures on the management of information security incidents which in particular make provision for:

- (a) the allocation of clearly defined roles and responsibilities to DCC Personnel;
- (b) the manner in which such incidents will be monitored, classified, reported and managed;
- (c) a communications plan in relation to all communications with respect to such incidents; and
- (d) the use of recovery systems in the case of serious incidents.

G5.12 The DCC Information Security Management System shall incorporate procedures on the management of business continuity that comply with:

- (a) the following standards of the International Organisation for Standards in respect of business continuity:
 - (i) ISO/IEC 22301:2012 (Societal Security – Business Continuity Management Systems – Requirements); and

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (ii) ISO/IEC 27031:2011 (Information Technology – Security Techniques – Guidelines for Information and Communications Technology Readiness for Business Continuity); and
- (b) the Business Continuity Institute Good Practice Guidelines 2013; or
- (c) in each case, any equivalents to those standards or guidelines which update or replace them from time to time.

G5.13 The DCC Information Security Management System shall incorporate procedures in relation to the secure management of all Secret Key Material of the DCC, which shall in particular make provision for:

- (a) the security of that Secret Key Material throughout the whole of its lifecycle from its generation to its destruction;
- (b) the manner in which that Secret Key Material will be registered, ordered, generated, labelled, distributed, installed, superseded and renewed; and
- (c) the verifiable destruction of that Secret Key Material.

Information Security: Obligations on Users

G5.14 Each User shall establish, maintain and implement processes for the identification and management of the risk of Compromise to:

- (a) its User Systems;
- (b) any security functionality used for the purposes of complying with the requirements of this Section G in relation to its User Systems;
- (c) any other Data, Systems or processes on which it relies for the generation, initiation or processing of Service Requests, Service Responses, Alerts or Data communicated over the Self-Service Interface;
- (d) any Smart Metering Systems for which it is the Responsible Supplier; and
- (e) any communications links established between any of its Systems and the DCC Total System, and any security functionality used in respect of those

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

communications links or the communications made over them.

G5.15 Each User shall ensure that such processes for the identification and management of risk comply with:

- (a) the standard of the International Organisation for Standards in respect of information security risk management known as ISO/IEC 27005:2011 (Information Technology – Security Techniques – Information Security Management Systems); or
- (b) any equivalent to that standard of the International Organisation for Standards which updates or replaces it from time to time.

G5.16 Each User shall carry out an assessment of such processes for the identification and management of risk:

- (a) on at least an annual basis;
- (b) on any occasion on which it implements a material change to:
 - (i) its User Systems;
 - (ii) any security functionality used for the purposes of complying with the requirements of this Section G in relation to its User Systems;
 - (iii) any other Systems or processes on which it relies for the generation, initiation or processing of Service Requests, Service Responses, Alerts or Data communicated over the Self-Service Interface; or
 - (iv) any Smart Metering Systems for which it is the Responsible Supplier; and
- (c) on the occurrence of any Major Security Incident in relation to its User Systems.

G5.17 Each User shall comply with the following standard of the International Organisation for Standards in respect of the security, reliability and resilience of its information assets and processes and its User Systems:

- (a) ISO/IEC 27001:2013 (Information Technology – Security Techniques –

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Information Security Management Systems); or

- (b) any equivalent to that standard which updates or replaces it from time to time.

G5.18 Each User shall:

- (a) establish, give effect to, maintain, and comply with a set of policies and procedures to be known as its User Information Security Management System;
- (b) ensure that its User Information Security Management System:
 - (i) is so designed as to ensure that it complies with its obligations under Sections G3 and G4;
 - (ii) is compliant with the standard referred to at Section G5.17;
 - (iii) meets the requirements of Sections G5.19 to G5.24; and
 - (iv) provides for security controls which are proportionate to the potential impact of each part of its User Systems being Compromised, as determined by means of processes for the management of information risk; and
- (c) review its User Information Security Management System on at least an annual basis, and make any changes to it following such a review in order to ensure that it remains fit for purpose.

The User Information Security Management System

G5.19 Each User Information Security Management System shall incorporate an information security policy which makes appropriate provision in respect of:

- (a) measures to identify and mitigate risks to the security of Data stored on or communicated by means of the User Systems, including measures relating to Data handling, retention and protection;
- (b) the establishment and maintenance of an Information Classification Scheme in relation to the User Systems;
- (c) the management of business continuity; and

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (d) the education, training and awareness of User Personnel in relation to information security.

G5.20 Each User Information Security Management System shall specify the approach of the User to:

- (a) information security, including its arrangements to review that approach at planned intervals;
- (b) human resources security;
- (c) physical and environmental security; and
- (d) ensuring that any person who provides services to the User for the purpose of ensuring that the User is able to comply with its obligations under this Code must establish and maintain information, human resources, and physical and environmental security measures which are equivalent to those of the User.

G5.21 Each User Information Security Management System shall incorporate a set of asset management procedures which shall make provision for the User to establish and maintain a register of the physical and information assets on which it relies for the purposes of complying with its obligations under this Code.

G5.22 Each User Information Security Management System shall incorporate a policy on access control, which includes provision in respect of:

- (a) measures to restrict access to Data that is stored on or communicated by means of the User Systems to those who require such Data and are authorised to obtain it;
- (b) procedures for granting, amending and removing authorisations in respect of access to such Data; and
- (c) measures to ensure that the activities of one individual may not become a means by which the User Systems are Compromised to a material extent.

G5.23 Each User Information Security Management System shall incorporate procedures on the management of information security incidents which comply with:

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the standard of the International Organisation for Standards in respect of security incident management known as ISO/IEC 27035:2011 (Information Technology – Security Techniques – Information Security Incident Management); or
- (b) any equivalent to that standard of the International Organisation for Standards which updates or replaces it from time to time.

G5.24 Each User Information Security Management System shall incorporate procedures in relation to the secure management of all Secret Key Material of the User, which shall in particular make provision for:

- (a) the security of that Secret Key Material throughout the whole of its lifecycle from its generation to its destruction;
- (b) the manner in which that Secret Key Material will be registered, ordered, generated, labelled, distributed, installed, superseded and renewed; and
- (c) the verifiable destruction of that Secret Key Material.

Shared Resources

G5.25 Sections G5.26 to G5.28 apply in relation to a User where:

- (a) any resources which form part of its User Systems also form part of the User Systems of another User ("**Shared Resources**"); and
- (b) by virtue of those Shared Resources:
 - (i) its User Systems are capable of being a means by which the User Systems of that other User are Compromised (or vice versa); or
 - (ii) the potential extent to which the User Systems of either User may be Compromised, or the potential adverse effect of any Compromise to the User Systems of either User, is greater than it would have been had those User Systems not employed Shared Resources.

G5.26 Where this Section applies, the requirement at Section G5.18(b)(iv) shall be read as a requirement to ensure that the User's Information Security Management System

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

provides for security controls which are proportionate to the potential impact of a Compromise to each part of all User Systems of each User which employ the Shared Resources.

G5.27 Where this Section applies, a User which begins to employ Shared Resources as part of its User Systems:

- (a) shall notify the Security Sub-Committee as soon as reasonably practicable after first doing so; and
- (b) where those Shared Resources are provided by a third party, shall include in that notification:
 - (i) the name and contact details of that third party; and
 - (ii) a description of the services provided by the third party to the User in relation to its User Systems.

G5.28 Where this Section applies, and where a User is entitled to send Critical Service Requests to the DCC, the User shall notify the Security Sub-Committee of the total number of Smart Metering Systems comprising Devices in respect of which such Critical Service Requests are capable of being sent from its User Systems:

- (a) as soon as reasonably practicable after it first begins to employ Shared Resources as part of its User Systems; and
- (b) at intervals of six months thereafter.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G6 ANOMALY DETECTION THRESHOLDS: OBLIGATIONS ON THE DCC AND USERS

Threshold Anomaly Detection Procedures

G6.1 The "**Threshold Anomaly Detection Procedures**" shall be a SEC Subsidiary Document of that name which:

- (a) shall describe the means by which:
 - (i) each User shall be able securely to notify the DCC of the Anomaly Detection Thresholds set by that User, and of any exceptions that are applicable to each such Anomaly Detection Threshold;
 - (ii) the DCC shall be able securely to notify each User when a communication relating to that User is quarantined by the DCC; and
 - (iii) each such User shall be able securely to notify the DCC whether it considers that a communication which has been quarantined should be deleted from the DCC Systems or processed by the DCC;
- (b) shall determine the standard of security at which Users and the DCC must be able to notify each other in order for such notifications to be considered, for the purposes of paragraph (a), to have been given 'securely';
- (c) may make provision relating to the setting by Users and the DCC of Anomaly Detection Thresholds, including the issue of guidance by the DCC in relation to the appropriate level at which Anomaly Detection Thresholds should be set by Users; and
- (d) may make provision relating to the actions to be taken by Users and the DCC in cases in which an Anomaly Detection Threshold has been exceeded, including for communications to be quarantined and remedial action to be taken.

Anomaly Detection Thresholds: Obligations on Users

G6.2 Each User shall comply with any requirements of the Threshold Anomaly Detection Procedures which are applicable to it.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G6.3 Each User which is an Eligible User in relation to any one or more individual Services listed in the DCC User Interface Services Schedule:

- (a) shall set Anomaly Detection Thresholds in respect of:
 - (i) the total number of Critical Commands relating to each such Service; and
 - (ii) the total number of Service Requests relating to each such Service in respect of which there are Service Responses containing Data of a type which is Encrypted in accordance with the GB Companion Specification; and
 - (iii) may, at its discretion, set other Anomaly Detection Thresholds.

G6.4 Where a User sets any Anomaly Detection Threshold in accordance with Section G6.3, it shall:

- (a) set that Anomaly Detection Threshold at a level designed to ensure that it will function, when used for the purposes of Threshold Anomaly Detection, as an effective means of detecting any Compromise to any relevant part of its User Systems;
- (b) before doing so:
 - (i) take into account any guidance issued by the DCC as to the appropriate level of the Anomaly Detection Threshold; and
 - (ii) have regard in particular to the forecast number of Service Requests provided by the User to the DCC in accordance with Section H3.22 (Managing Demand for User Interface Services); and
- (c) after doing so, notify the DCC of that Anomaly Detection Threshold.

Anomaly Detection Thresholds: Obligations on the DCC

G6.5 The DCC shall comply with any requirements of the Threshold Anomaly Detection Procedures which are applicable to it.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G6.6 The DCC:

- (a) shall, for each individual Service listed in the DCC User Interface Services Schedule, set an Anomaly Detection Threshold in respect of :
 - (i) the total number of Critical Commands relating to that Service; and
 - (ii) the total number of Service Requests relating to that Service in respect of which there are Service Responses containing Data of a type which is Encrypted in accordance with the GB Companion Specification;
- (b) shall set an Anomaly Detection Threshold in respect of a data value that has been agreed with the Security Sub-Committee within each type of Signed Pre-Command; and
- (c) may, at its discretion, set other Anomaly Detection Thresholds.

G6.7 Where the DCC sets any Anomaly Detection Threshold in accordance with Section G6.6, it shall:

- (a) set that Anomaly Detection Threshold at a level designed to ensure that it will function, when used for the purposes of Threshold Anomaly Detection, as an effective means of detecting any Compromise to any relevant part of the DCC Total System or of any User Systems; and
- (b) before doing so consult, and take into account the opinion of, the Security Sub-Committee as to the appropriate level of the Anomaly Detection Threshold.

G6.8 The DCC shall notify the Security Sub-Committee of:

- (a) each Anomaly Detection Threshold that it sets; and
- (b) each Anomaly Detection Threshold that is set by a User and notified to the DCC in accordance with Section G6.4(c).

G6.9 Where the DCC is consulted by a User in relation to an Anomaly Detection Threshold which that User proposes to set, the DCC shall:

- (a) provide to the User its opinion as to the appropriate level of that Anomaly

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Detection Threshold; and

- (b) in doing so, have regard to the need to ensure that it will function, when used for the purposes of Threshold Anomaly Detection, as an effective means of detecting any Compromise to any relevant part of the User Systems of that User.

Anomaly Detection Thresholds: Obligations on the DCC and Users

G6.10 The DCC and each User shall, in relation to each Anomaly Detection Threshold that it sets:

- (a) keep the Anomaly Detection Threshold under review, having regard to the need to ensure that it continues to function, when used for the purposes of Threshold Anomaly Detection, as an effective means of detecting any Compromise to any relevant part of the DCC Total System and/or User Systems (as the case may be);
- (b) for this purpose have regard to any opinion provided to it by the Security Sub-Committee from time to time as to the appropriate level of the Anomaly Detection Threshold; and
- (c) where the level of that Anomaly Detection Threshold is no longer appropriate, set a new Anomaly Detection Threshold in accordance with the relevant provisions of this Section G6.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G7 SECURITY SUB-COMMITTEE

Establishment of the Security Sub-Committee

- G7.1 The Panel shall establish a Sub-Committee in accordance with the requirements of this Section G7, to be known as the “**Security Sub-Committee**”.
- G7.2 Save as expressly set out in this Section G7, the Security Sub-Committee shall be subject to the provisions concerning Sub-Committees set out in Section C6 (Sub-Committees).

Membership of the Security Sub-Committee

- G7.3 The Security Sub-Committee shall be composed of the following persons (each a “**Security Sub-Committee Member**”):
- (a) the Security Sub-Committee Chair (as further described in Section G7.5);
 - (b) eight Security Sub-Committee (Supplier) Members (as further described in Section G7.6);
 - (c) two Security Sub-Committee (Network) Members (as further described in Section G7.8);
 - (d) one Security Sub-Committee (Other User) Member (as further described in Section G7.10);
 - (e) one representative of the DCC (as further described in Section G7.12).
- G7.4 Each Security Sub-Committee Member must be an individual (and cannot be a body corporate, association or partnership). No one person can hold more than one office as a Security Sub-Committee Member at the same time.
- G7.5 The “**Security Sub-Committee Chair**” shall be such person as is (from time to time) appointed to that role by the Panel in accordance with a process designed to ensure that:
- (a) the candidate selected is sufficiently independent of any particular Party or class of Parties;

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) the Security Sub-Committee Chair is appointed for a [three-year] term (following which he or she can apply to be re-appointed);
- (c) the Security Sub-Committee Chair is remunerated at a reasonable rate;
- (d) the Security Sub-Committee Chair’s appointment is subject to Section C6.9 (Member Confirmation), and to terms equivalent to Section C4.6 (Removal of Elected Members); and
- (e) provision is made for the Security Sub-Committee Chair to continue in office for a reasonable period following the end of his or her term of office in the event of any delay in appointing his or her successor.

G7.6 Each of the eight “**Security Sub-Committee (Supplier) Members**” shall (subject to any directions to the contrary made by the Secretary of State for the purpose of transition on the incorporation of this Section G7 into this Code):

- (a) be appointed in accordance with Section G7.7, subject to compliance by the appointed person with Section C6.9 (Member Confirmation);
- (b) retire [two] years after his or her appointment (without prejudice to his or her ability to be nominated for a further term of office); and
- (c) be capable of being removed from office in accordance with Sections C4.5 and C4.6 (Removal of Elected Members), for which purpose those Sections shall be read as if references to “Elected Member” were to “Security Sub-Committee (Supplier) Member”, references to “Panel” were to “Security Sub-Committee”, references to “Panel Chair” were to “Security Sub-Committee Chair”, and references to “Panel Members” were to “Security Sub-Committee Members”.

G7.7 Each of the eight Security Sub-Committee (Supplier) Members shall be appointed in accordance with a process:

- (a) by which six Security Sub-Committee (Supplier) Members will be elected by Large Supplier Parties, and two Security Sub-Committee (Supplier) Members will be elected by Small Supplier Parties; and
- (b) that is otherwise the same as that by which Elected Members are elected under

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Sections C4.2 and C4.3 (as if references therein to “Panel” were to “Security Sub-Committee”, references to “Panel Chair” were to “Security Sub-Committee Chair”, references to “Panel Members” were to “Security Sub-Committee Members”, and references to provisions of Section C or D were to the corresponding provisions set out in or applied pursuant to this Section G7).

G7.8 Each of the two “**Security Sub-Committee (Network) Members**” shall (subject to any directions to the contrary made by the Secretary of State for the purpose of transition on the incorporation of this Section G7 into this Code):

- (a) be appointed in accordance with Section G7.9, subject to compliance by the appointed person with Section C6.9 (Member Confirmation);
- (b) retire [two] years after his or her appointment (without prejudice to his or her ability to be nominated for a further term of office); and
- (c) be capable of being removed from office in accordance with Sections C4.5 and C4.6 (Removal of Elected Members), for which purpose those Sections shall be read as if references to “Elected Member” were to “Security Sub-Committee (Network) Member”, references to “Panel” were to “Security Sub-Committee”, references to “Panel Chair” were to “Security Sub-Committee Chair”, and references to “Panel Members” were to “Security Sub-Committee Members”.

G7.9 Each of the two Security Sub-Committee (Network) Members shall be appointed in accordance with a process:

- (a) by which one Security Sub-Committee (Network) Member will be elected by the Electricity Network Parties and one Security Sub-Committee (Network) Member will be elected by the Gas Network Parties;
- (b) that is otherwise the same as that by which Elected Members are elected under Sections C4.2 and C4.3 (as if references therein to “Panel” were to “Security Sub-Committee”, references to “Panel Chair” were to “Security Sub-Committee Chair”, references to “Panel Members” were to “Security Sub-Committee Members”, and references to provisions of Section C or D were to the corresponding provisions set out in or applied pursuant to this Section G7).

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G7.10 The “**Security Sub-Committee (Other User) Member**” shall (subject to any directions to the contrary made by the Secretary of State for the purpose of transition on the incorporation of this Section G7 into this Code):

- (a) be appointed in accordance with Section G7.11, subject to compliance by the appointed person with Section C6.9 (Member Confirmation);
- (b) retire two years after his or her appointment (without prejudice to his or her ability to be nominated for a further term of office); and
- (c) be capable of being removed from office in accordance with Sections C4.5 and C4.6 (Removal of Elected Members), for which purpose those Sections shall be read as if references to “Elected Member” were to “Security Sub-Committee (Other User) Member”, references to “Panel” were to “Security Sub-Committee”, references to “Panel Chair” were to “Security Sub-Committee Chair”, and references to “Panel Members” were to “Security Sub-Committee Members”.

G7.11 The Security Sub-Committee (Other User) Member shall be appointed in accordance with a process:

- (a) by which he or she is elected by those Other SEC Parties which are Other Users; and
- (b) that is otherwise the same as that by which Elected Members are elected under Sections C4.2 and C4.3 (as if references therein to “Panel” were to “Security Sub-Committee”, references to “Panel Chair” were to “Security Sub-Committee Chair”, references to “Panel Members” were to “Security Sub-Committee Members”, and references to provisions of Section C or D were to the corresponding provisions set out in or applied pursuant to this Section G7).

G7.12 The DCC may nominate one person to be a Security Sub-Committee Member by notice to the Secretariat from time to time. The DCC may replace its nominee from time to time by prior notice to the Secretariat. Such nomination or replacement shall be subject to compliance by the relevant person with Section C6.9 (Member Confirmation).

Proceedings of the Security-Sub Committee

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G7.13 Without prejudice to the generality of Section C5.13(c) (Attendance by Other Persons) as it applies pursuant to Section G7.14:

- (a) a representative of the Secretary of State shall be:
 - (i) invited to attend each and every Security Sub-Committee meeting;
 - (ii) entitled to speak at such Security Sub-Committee meetings without the permission of the Security Sub-Committee Chair; and
 - (iii) provided with copies of all the agenda and supporting papers available to Security Sub-Committee Members in respect of such meetings;
- (b) the Security Sub-Committee Chair shall invite to attend Security Sub-Committee meetings any persons that the Security Sub-Committee determines it appropriate to invite in order to be provided with expert advice on security matters.

G7.14 Subject to Section G7.13, the provisions of Section C5 (Proceedings of the Panel) shall apply to the proceedings of the Security Sub-Committee, for which purpose that Section shall be read as if references to “Panel” were to “Security Sub-Committee”, references to “Panel Chair” were to “Security Sub-Committee Chair”, and references to “Panel Members” were to “Security Sub-Committee Members”.

Duties and Powers of the Security Sub-Committee

G7.15 The Security Sub-Committee:

- (a) shall perform the duties and may exercise the powers set out in Sections G7.16 to G7.20; and
- (b) shall perform such other duties and may exercise such other powers as may be expressly ascribed to the Security Sub-Committee elsewhere in this Code.

Document Development and Maintenance

G7.16 The Security Sub-Committee shall:

- (a) develop and maintain a document, to be known as the "**Security Controls**

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Framework", which shall:

- (i) set out the appropriate User Security Assessment Methodology to be applied to different categories of security assurance assessment carried out in accordance with Section G8 (User Security Assurance); and
 - (ii) be designed to ensure that such security assurance assessments are proportionate, consistent in their treatment of equivalent Users and equivalent User Roles, and achieve appropriate levels of security assurance in respect of different Users and different User Roles;
- (b) carry out reviews of the Security Risk Assessment:
- (i) at least once each year in order to identify any new or changed security risks to the End-to-End Smart Metering System; and
 - (ii) in any event promptly if the Security Sub-Committee considers there to be any material change in the level of security risk;
- (c) maintain the Security Requirements to ensure that it is up to date and at all times identifies the security controls which the Security Sub-Committee considers appropriate to mitigate the security risks identified in the Security Risk Assessment;
- (d) maintain the End-to-End Security Architecture to ensure that it is up to date; and
- (e) develop and maintain a document to be known as the "**Risk Treatment Plan**", which shall identify the residual security risks which in the opinion of the Security Sub-Committee remain unmitigated taking into account the security controls that are in place.

Security Assurance

G7.17 The Security Sub-Committee shall:

- (a) periodically, and in any event at least once each year, review the Security Obligations and Assurance Arrangements in order to identify whether in the opinion of the Security Sub-Committee they continue to be fit for purpose;

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) exercise such functions as are allocated to it under, and comply with the applicable requirements of Section G8 (User Security Assurance) and Section G9 (DCC Security Assurance);
- (c) provide the Panel with support and advice in respect of issues relating to the actual or potential non-compliance of any Party with the requirements of the Security Obligations and Assurance Arrangements;
- (d) keep under review the CESG CPA Certificate scheme in order to assess whether it continues to be fit for purpose in so far as it is relevant to the Code, and suggest modifications to the scheme provider to the extent to which it considers them appropriate;
- (e) to the extent to which it considers it appropriate, in relation to any User (or, during the first User Entry Process, Party) which has produced a User Security Assessment Response that sets out any steps that the User proposes to take in accordance with Section G8.24(b):
 - (i) liaise with that User (or Party) as to the nature and timetable of such steps;
 - (ii) either accept the proposal to take those steps within that timetable or seek to agree with that User (or Party) such alternative steps or timetable as the Security Sub-Committee may consider appropriate; and
 - (iii) take advice from the User Independent Security Assurance Service Provider; and
 - (iv) where the Security Sub-Committee considers it appropriate, request the User Independent Security Assurance Service Provider to carry out a Follow-up Security Assessment;
- (f) provide advice to the Panel on the scope and output of the independent security assurance arrangements of the DCC in relation to the design, building and testing of the DCC Total System;
- (g) provide advice to the Panel on the scope and output of the SOC2 assessment of

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the DCC Total System; and

- (h) provide advice to the Panel in relation to the appointment of the User Independent Security Assurance Service Provider, monitor the performance of the person appointed to that role and provide advice to the Panel in respect of its views as to that performance.

Monitoring and Advice

G7.18 The Security Sub-Committee shall:

- (a) provide such reasonable assistance to the DCC and Users as may be requested by them in relation to the causes of security incidents and the management of vulnerabilities on their Systems;
- (b) monitor the (actual and proposed) Anomaly Detection Thresholds of which it is notified by the DCC, consider the extent to which they act as an effective means of detecting any Compromise to any relevant part of the DCC Total System or of any User Systems, and provide its opinion on such matters to the DCC;
- (c) provide the Panel with support and advice in respect of Disputes for which the Panel is required to make a determination, insofar as such Disputes relate to the Security Obligations and Assurance Arrangements;
- (d) provide the Panel, the Change Board and any relevant Working Group with support and advice in relation to any Modification Proposal which may affect the security of the End-to-End Smart Metering System or the effective implementation of the security controls that are identified in the Security Requirements;
- (e) advise the Authority of any modifications to the conditions of Energy Licences which it considers may be appropriate having regard to the residual security risks identified from time to time in the Risk Treatment Plan;
- (f) respond to any consultations on matters which may affect the security of the End-to-End Smart Metering System or the effective implementation of the security controls that are identified in the Security Requirements;

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (g) act in cooperation with, and send a representative to, the SMKI PMA, the Technical Architecture and Business Architecture Sub-Committee and any other Sub-Committee or Working Group which requests the support or attendance of the Security Sub-Committee;
- (h) (to the extent to which it reasonably considers that it is necessary to do so) liaise and exchange information with, provide advice to, and seek the advice of the At HAN Forum on matters relating to the Alt HAN Arrangements which may affect the security of the End-to-End Smart Metering System or the effective implementation of the security controls that are identified in the Security Requirements; and
- (i) provide such further support and advice to the Panel as it may request.

Modifications

G7.19 The Security Sub-Committee shall establish a process under which the Code Administrator monitors Modification Proposals with a view to identifying (and bringing to the attention of the Security Sub-Committee) those proposals that:

- (a) are likely to affect the Security Obligations and Assurance Arrangements; or
- (b) are likely to relate to other parts of the Code but may have a material effect on the security of the End-to-End Smart Metering System,

and the Code Administrator shall comply with such process.

G7.20 Notwithstanding Section D1.3 (Persons Entitled to Submit Modification Proposals):

- (a) the Security Sub-Committee shall be entitled to submit Modification Proposals in respect of the Security Obligations and Assurance Arrangements where the Security Sub-Committee considers it appropriate to do so; and
- (b) any Security Sub-Committee Member shall be entitled to submit Modification Proposals in respect of the Security Obligations and Assurance Arrangements where he or she considers it appropriate to do so (where the Security Sub-Committee has voted not to do so).

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G7.21 Notwithstanding Section D6.3 (Establishment of a Working Group), and subject to the provisions of Sections D6.5 and D6.6, the Security Sub-Committee shall be entitled to nominate a representative to be a member of any Working Group.

G7.22 For the purposes of Section D7.1 (Modification Report):

- (a) written representations in relation to the purpose and effect of a Modification Proposal may be made by:
 - (i) the Security Sub-Committee; and/or
 - (ii) any Security Sub-Committee Member (either alone or in addition to any representations made by other Security Sub-Committee Members and/or the Security Sub-Committee collectively); and
- (b) notwithstanding Section D7.3 (Content of the Modification Report), the Code Administrator shall ensure that all such representations, and a summary of any evidence provided in support of them, are set out in the Modification Report prepared in respect of the relevant Modification Proposal.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G8 USER SECURITY ASSURANCE

Procurement of the User Independent Security Assurance Service Provider

G8.1 The Panel shall procure the provision of security assurance services:

- (a) of the scope specified in Section G8.3;
- (b) from a person who:
 - (i) is suitably qualified in accordance with Section G8.4;
 - (ii) is suitably independent in accordance with Section G8.7; and
 - (iii) satisfies the capacity requirement specified in Section G8.11,

and that person is referred to in this Section G8 as the “**User Independent Security Assurance Service Provider**”.

G8.2 Except where the contrary is required by the provisions of Section X (Transition), the Panel may appoint more than one person to carry out the functions of the User Independent Security Assurance Service Provider.

Scope of Security Assurance Services

G8.3 The security assurance services specified in this Section G8.3 are services in accordance with which the User Independent Security Assurance Service Provider shall:

- (a) carry out User Security Assessments at such times and in such manner as is provided for in this Section G8;
- (b) produce User Security Assessment Reports in relation to Users that have been the subject of a User Security Assessment;
- (c) receive and consider User Security Assessment Responses and carry out any Follow-up Security Assessments at the request of the Security Sub-Committee;
- (d) otherwise, at the request of, and to an extent determined by, the Security Sub-Committee, carry out an assessment of the compliance of any User with its

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

obligations under Sections G3 to G6 where:

- (i) following either a User Security Self-Assessment or Verification User Security Assessment, any material increase in the security risk relating to that User has been identified; or
 - (ii) the Security Sub-Committee otherwise considers it appropriate for that assessment to be carried out;
- (e) review the outcome of User Security Self-Assessments;
- (f) at the request of the Security Sub-Committee, provide to it advice in relation to:
- (i) the compliance of any User with its obligations under Sections G3 to G6; and
 - (ii) changes in security risks relating to the Systems, Data, functionality and processes of any User which fall within Section G5.14 (Information Security: Obligations on Users);
- (g) at the request of the Panel, provide to it advice in relation to the suitability of any remedial action plan for the purposes of Section M8.4 of the Code (Consequences of an Event of Default);
- (h) at the request of the Security Sub-Committee Chair, provide a representative to attend and contribute to the discussion at any meeting of the Security Sub-Committee; and
- (i) undertake such other activities, and do so at such times and in such manner, as may be further provided for in this Section G8.

Suitably Qualified Service Provider

G8.4 The User Independent Security Assurance Service Provider shall be treated as suitably qualified in accordance with this Section G8.4 only if it satisfies:

- (a) one or more of the requirements specified in Section G8.5; and
- (b) the requirement specified in Section G8.6.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G8.5 The requirements specified in this Section G8.5 are that the User Independent Security Assurance Service Provider:

- (a) is a CESG Tailored Assurance Service (CTAS) provider;
- (b) is accredited by UKAS as meeting the requirements for providing audit and certification of information security management systems in accordance with ISO/IEC 27001:2013 (Information Technology – Security Techniques – Information Security Management Systems) or any equivalent to that standard which updates or replaces it from time to time; and/or
- (c) holds another membership, accreditation, approval or form of professional validation that is in the opinion of the Panel substantially equivalent in status and effect to one or more of the arrangements described in paragraphs (a) and (b).

G8.6 The requirement specified in this Section G8.6 is that the User Independent Security Assurance Service Provider:

- (a) employs consultants who are members of the CESG Listed Adviser Scheme (CLAS) at the 'Lead' or 'Senior Practitioner' level in either the 'Security and Information Risk Advisor' or 'Information Assurance Auditor' roles; and
- (b) engages those individuals as its lead auditors for the purposes of carrying out all security assurance assessments in accordance with this Section G8.

Independence Requirement

G8.7 The User Independent Security Assurance Service Provider shall be treated as suitably independent in accordance with this Section G8.7 only if it satisfies:

- (a) the requirements specified in Section G8.9; and
- (b) the requirement specified in Section G8.10.

G8.8 For the purposes of Sections G8.9 and G8.10:

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) a "**Relevant Party**" means any Party in respect of which the User Independent Security Assurance Service Provider carries out functions under this Section G8; and
- (b) a "**Relevant Service Provider**" means any service provider to a Relevant Party from which that Party acquires capability for a purpose related to its compliance with its obligations as a User under Sections G3 to G6.

G8.9 The requirements specified in this Section G8.9 are that:

- (a) no Relevant Party or any of its subsidiaries, and no Relevant Service Provider or any of its subsidiaries, holds or acquires any investment by way of shares, securities or other financial rights or interests in the User Independent Security Assurance Service Provider;
- (b) no director of any Relevant Party, and no director of any Relevant Service Provider, is or becomes a director or employee of, or holds or acquires any investment by way of shares, securities or other financial rights or interests in, the User Independent Security Assurance Service Provider; and
- (c) the User Independent Security Assurance Service Provider does not hold or acquire a participating interest (as defined in section 421A of the Financial Services and Markets Act 2000) in any Relevant Party or any Relevant Service Provider,

(but for these purposes references to a Relevant Service Provider shall not include the User Independent Security Assurance Service Provider where it acts in that capacity).

G8.10 The requirement specified in this Section G8.10 is that the User Independent Security Assurance Service Provider is able to demonstrate to the satisfaction of the Panel that it has in place arrangements to ensure that it will at all times act independently of any commercial relationship that it has, has had, or may in future have with a Relevant Party or Relevant Service Provider (and for these purposes a 'commercial relationship' shall include a relationship established by virtue of the User Independent Security Assurance Service Provider itself being a Relevant Service Provider to any Relevant Party).

Capacity Requirement

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G8.11 The capacity requirement specified in this Section G8.11 is that the User Independent Security Assurance Service Provider must be capable of meeting the Panel's estimate of the demand for its security assurance services throughout the period in relation to which those services are being procured.

Compliance of the User Independent Security Assurance Service Provider

G8.12 The Panel shall be responsible for ensuring that the User Independent Security Assurance Service Provider carries out its functions in accordance with the provisions of this Section G8.

Users: Duty to Cooperate in Assessment

G8.13 Each User shall do all such things as may be reasonably requested by the Security Sub-Committee, or by any person acting on behalf of or at the request of the Security Sub-Committee (including in particular the User Independent Security Assurance Service Provider), for the purposes of facilitating an assessment of that User's compliance with its obligations under Sections G3 to G6.

G8.14 For the purposes of Section G8.13, a User shall provide the Security Sub-Committee (or the relevant person acting on its behalf or at its request) with:

- (a) all such Data as may reasonably be requested, within such times and in such format as may reasonably be specified;
- (b) all such other forms of cooperation as may reasonably be requested, including in particular:
 - (i) access at all reasonable times to such parts of the premises of that User as are used for, and such persons engaged by that User as carry out or are authorised to carry out, any activities related to its compliance with its obligations under Sections G3 to G6; and
 - (ii) such cooperation as may reasonably be requested by the Independent Security Assessment Services Provider for the purposes of carrying out any security assurance assessment in accordance with this Section G8.

Categories of Security Assurance Assessment

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G8.15 For the purposes of this Section G8, there shall be the following four categories of security assurance assessment:

- (a) a Full User Security Assessment (as further described in Section G8.16);
- (b) a Verification User Security Assessment (as further described in Section G8.17);
- (c) a User Security Self-Assessment (as further described in Section G8.18); and
- (d) a Follow-up Security Assessment (as further described in Section G8.19).

G8.16 A "**Full User Security Assessment**" shall be an assessment carried out by the User Independent Security Assurance Service Provider in respect of a User to identify the extent to which that User is compliant with each of its obligations under Sections G3 to G6 in each of its User Roles.

G8.17 A "**Verification User Security Assessment**" shall be an assessment carried out by the User Independent Security Assurance Service Provider in respect of a User to identify any material increase in the security risk relating to the Systems, Data, functionality and processes of that User falling within Section G5.14 (Information Security: Obligations on Users) since the last occasion on which a Full User Security Assessment was carried out in respect of that User.

G8.18 A "**User Security Self-Assessment**" shall be an assessment carried out by a User, the outcome of which is reviewed by the User Independent Security Assurance Service Provider, to identify any material increase in the security risk relating to the Systems, Data, functionality and processes of that User falling within Section G5.14 (Information Security: Obligations on Users) since the last occasion on which a User Security Assessment was carried out in respect of that User.

G8.19 A "**Follow-up Security Assessment**" shall be an assessment carried out by the User Independent Security Assurance Service Provider, following a User Security Assessment, in accordance with the provisions of Section G8.28.

G8.20 For the purposes of Sections G8.17 and G8.18, a Verification Security Assessment and User Security Self-Assessment shall each be assessments carried out in respect of a

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

User having regard in particular to:

- (a) any changes made to any System, Data, functionality or process falling within the scope of Section G5.14 (Information Security: Obligations on Users);
- (b) where the User is a Supplier Party, any increase in the number of Enrolled Smart Metering Systems for which it is the Responsible Supplier; and
- (c) where the User is a Network Party, any increase in the number of Enrolled Smart Metering Systems for which it is the Electricity Distributor or the Gas Transporter.

User Security Assessments: General Procedure

User Security Assessment Methodology

G8.21 Each User Security Assessment carried out by the User Independent Security Assurance Service Provider shall be carried out in accordance with the User Security Assessment Methodology applicable to the relevant category of assessment.

The User Security Assessment Report

G8.22 Following the completion of a User Security Assessment, the User Independent Security Assurance Service Provider shall, in discussion with the User to which the assessment relates, produce a written report (a "**User Security Assessment Report**") which shall:

- (a) set out the findings of the User Independent Security Assurance Service Provider on all the matters within the scope of the User Security Assessment;
- (b) in the case of a Full User Security Assessment:
 - (i) specify any instances of actual or potential non-compliance of the User with its obligations under Sections G3 to G6 which have been identified by the User Independent Security Assurance Service Provider; and
 - (ii) set out the evidence which, in the opinion of the User Independent Security Assurance Service Provider, establishes each of the instances of

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

actual or potential non-compliance which it has identified; and

- (c) in the case of a Verification User Security Assessment:
 - (i) specify any material increase in the security risk relating to that User which the User Independent Security Assurance Service Provider has identified since the last occasion on which a Full User Security Assessment was carried out in respect of that User; and
 - (ii) set out the evidence which, in the opinion of the User Independent Security Assurance Service Provider, establishes the increase in security risk which it has identified.

G8.23 The User Independent Security Assurance Service Provider shall submit a copy of each User Security Assessment Report to the Security Sub-Committee and to the User to which that report relates.

The User Security Assessment Response

G8.24 Following the receipt by any User of a User Security Assessment Report which relates to it, the User shall as soon as reasonably practicable, and in any event by no later than such date as the Security Sub-Committee may specify:

- (a) produce a written response to that report (a "**User Security Assessment Response**") which addresses the findings set out in the report; and
- (b) submit a copy of that response to the Security Sub-Committee and the User Independent Security Assurance Service Provider.

G8.25 Where a User Security Assessment Report:

- (a) following a Full User Security Assessment, specifies any instance of actual or potential non-compliance of a User with its obligations under Sections G3 to G6; or
- (b) following a Verification User Security Assessment, specifies any material increase in the security risk relating to a User since the last occasion on which a Full User Security Assessment was carried out in respect of that User,

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the User shall ensure that its User Security Assessment Response includes the matters referred to in Section G8.26.

G8.26 The matters referred to in this Section are that the User Security Assessment Response:

- (a) indicates whether the User accepts the relevant findings of the User Independent Security Assurance Service Provider and, where it does not, explains why this is the case;
- (b) sets out any steps that the User has taken or proposes to take in order to remedy and/or mitigate the actual or potential non-compliance or the increase in security risk (as the case may be) specified in the User Security Assessment Report; and
- (c) identifies a timetable within which the User proposes to take any such steps that have not already been taken.

G8.27 Where a User Security Assessment Response sets out any steps that the User proposes to take in accordance with Section G8.26(b), the Security Sub-Committee (having considered the advice of the User Independent Security Assurance Service Provider) shall review that response and either:

- (a) notify the User that it accepts that the steps that the User proposes to take, and the timetable within which it proposes to take them, are appropriate to remedy and/or mitigate the actual or potential non-compliance or increase in security risk (as the case may be) specified in the User Security Assessment Report; or
- (b) seek to agree with the User such alternative steps and/or timetable as would, in the opinion of the Security Sub-Committee, be more appropriate for that purpose.

G8.28 Where a User Security Assessment Response sets out any steps that the User proposes to take in accordance with Section G8.26(b), and where those steps and the timetable within which it proposes to take them are accepted by the Security Sub-Committee, or alternative steps and/or an alternative timetable are agreed between it and the User in accordance with Section G8.27, the User shall:

- (a) take the steps that have been accepted or agreed (as the case may be) within the

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

timetable that has been accepted or agreed (as the case may be); and

- (b) report to the Security Sub-Committee on:
 - (i) its progress in taking those steps, at any such intervals or by any such dates as the Security Sub-Committee may specify;
 - (ii) the completion of those steps in accordance with the timetable; and
 - (iii) any failure to complete any of those steps in accordance with the timetable, specifying the reasons for that failure.

Follow-up Security Assessment

G8.29 Where a User Security Assessment Response sets out any steps that the User proposes to take in accordance with Section G8.26(b), and where those steps and the timetable within which it proposes to take them are accepted by the Security Sub-Committee, or alternative steps and/or an alternative timetable are agreed between it and the User in accordance with Section G8.27, the User Independent Security Assurance Service Provider shall, at the request of the Security Sub-Committee (and by such date as it may specify), carry out a Follow-up Security Assessment of the relevant User to:

- (a) identify the extent to which the User has taken the steps that have been accepted or agreed (as the case may be) within the timetable that has been accepted or agreed (as the case may be); and
- (b) assess any other matters related to the User Security Assessment Response that are specified by the Security Sub-Committee.

User Security Assessments: Further Provisions

G8.30 The User Independent Security Assurance Service Provider:

- (a) may in its discretion, and shall where directed to do so by the Security Sub-Committee:
 - (i) in relation to a User which acts in more than one User Role, determine that a single User Security Assessment may be carried out in relation to

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

that User in respect of any two or more such User Roles; and

- (ii) in carrying out any User Security Assessment, take into account any relevant security accreditation or certification held by the relevant User; and
- (b) shall, where any Shared Resources form part of the User Systems of more than one User, have regard to information obtained in relation to such Shared Resources in the User Security Assessment of one such User when carrying out a User Security Assessment of any other such User.

Initial Full User Security Assessment: User Entry Process

G8.31 Sections G8.33 to G8.39 set out the applicable security requirements referred to in Section H1.10(c) (User Entry Process Requirements).

G8.32 For the purposes of Sections G8.33 to G8.39, any reference in Sections G3 to G6 or the preceding provisions of this Section G8 to a 'User' (or to any related expression which applies to Users), shall be read as including a reference (or otherwise applying) to any Party seeking to become a User by completing the User Entry Process for any User Role.

Initial Full User Security Assessment

G8.33 For the purpose of completing the User Entry Process for a User Role, a Party wishing to act as a User in that User Role shall be subject to a Full User Security Assessment in respect of the User Role.

Panel: Setting the Assurance Status

G8.34 Following the completion of that initial Full User Security Assessment, the Security Sub-Committee shall ensure that copies of both the User Security Assessment Report and User Security Assessment Response are provided to the Panel.

G8.35 Following the receipt by it of the User Security Assessment Report and User Security Assessment Response, the Panel shall promptly consider both documents and (having regard to any advice of the Security Sub-Committee) set the assurance status of the Party, in relation to its compliance with each of its obligations under Sections G3 to G6

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

in the relevant User Role, in accordance with Section G8.36.

G8.36 The Panel shall set the assurance status of the Party as one of the following:

- (a) approved;
- (b) approved, subject to the Party:
 - (i) taking such steps as it proposes to take in its User Security Assessment Response in accordance with Section G8.26(b); or
 - (ii) both taking such steps and being subject to a Follow-up Security Assessment by such date as the Panel may specify,
- (c) provisionally approved, subject to:
 - (i) the Party having first taking such steps as it proposes to take in its User Security Assessment Response in accordance with Section G8.26(b) and been subject to a Follow-up Security Assessment; and
 - (ii) the Panel having determined that it is satisfied, on the evidence of the Follow-up Security Assessment, that such steps have been taken; or
- (d) deferred, subject to:
 - (i) the Party amending its User Security Assessment Response to address any issues identified by the Panel as being, in the opinion of the Panel, not adequately addressed in that response as submitted to the Security Sub-Committee; and
 - (ii) the Panel reconsidering the assurance status in accordance with Section G8.35 in the light of such amendments to the User Security Assessment Response.

Approval

G8.37 For the purposes of Sections H1.10(c) and H1.11 (User Entry Process Requirements):

- (a) a Party shall be considered to have successfully demonstrated that it meets the

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

applicable security requirements of this Section G8 when:

- (i) the Panel has set its assurance status to 'approved' in accordance with either Section G8.36(a) or (b); or
 - (ii) the Panel has set its assurance status to 'provisionally approved' in accordance with Section G8.36(c) and the requirements specified in that Section have been met; and
- (b) the Panel shall notify the Code Administrator as soon as reasonably practicable after the completion of either event described in paragraph (a)(i) or (ii).

Obligations on an Approved Party

G8.38 Where the Panel has set the assurance status of a Party to 'approved' subject to one of the requirements specified in Section G8.36(b), the Party shall take the steps to which that approval is subject.

Disagreement with Panel Decisions

G8.39 Where a Party disagrees with any decision made by the Panel in relation to it under Section G8.36, it may appeal that decision to the Authority and the determination of the Authority shall be final and binding for the purposes of the Code.

Security Assurance Assessments: Post-User Entry Process

G8.40 Following its initial Full User Security Assessment for the purposes of the User Entry Process, a User shall be subject to annual security assurance assessments in respect of each of its User Roles in accordance with the provisions of Sections G8.41 to G8.46.

Supplier Parties

G8.41 Where a User is a Supplier Party and the number of Domestic Premises supplied with electricity and/or gas through one or more Smart Metering Systems for which it is the Responsible Supplier exceeds 250,000, it shall be subject to a Full User Security Assessment in each year after the year of its initial Full User Security Assessment.

G8.42 Where a User is a Supplier Party and the number of Domestic Premises supplied with electricity and/or gas through one or more Smart Metering Systems for which it is the

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Responsible Supplier is equal to or less than 250,000, it shall be subject:

- (a) in the first year after the year of its initial Full User Security Assessment, to a Verification Security Assessment;
- (b) in the immediately following year, to a User Security Self-Assessment;
- (c) in the next following year, to a Full User Security Assessment; and
- (d) in each year thereafter, to a category of security assurance assessment which repeats the same annual sequence as that of paragraphs (a) to (c).

G8.43 In assessing for the purposes of Sections G8.41 and G8.42 the number of Domestic Premises supplied with electricity and/or gas through one or more Smart Metering Systems for which a User is the Responsible Supplier, that number shall, where any Shared Resources form part of both its User Systems and the User Systems of another User, be deemed to include any Domestic Premises supplied with electricity and/or gas through one or more Smart Metering Systems for which that other User is the Responsible Supplier.

Network Parties

G8.44 Where a User is a Network Party and the number of Domestic Premises supplied with electricity and/or gas through one or more Smart Metering Systems for which it is the Electricity Distributor and/or the Gas Transporter exceeds 250,000, it shall be subject:

- (a) in the first year after the year of its initial Full User Security Assessment, to a Verification Security Assessment;
- (b) in the immediately following year, to a Verification Security Assessment;
- (c) in the next following year, to a Full User Security Assessment; and
- (d) in each year thereafter, to a category of security assurance assessment which repeats the same annual sequence as that of paragraphs (a) to (c).

G8.45 Where a User is a Network Party and the number of Domestic Premises supplied with electricity and/or gas through one or more Smart Metering Systems for which it is the Electricity Distributor and/or the Gas Transporter is equal to or less than 250,000, it

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

shall be subject:

- (a) in the first year after the year of its initial Full User Security Assessment, to a Verification Security Assessment;
- (b) in the immediately following year, to a User Security Self-Assessment;
- (c) in the next following year, to a Full User Security Assessment; and
- (d) in each year thereafter, to a category of security assurance assessment which repeats the same annual sequence as that of paragraphs (a) to (c).

G8.46 In assessing for the purposes of Sections G8.44 and G8.45 the number of Domestic Premises supplied with electricity and/or gas through one or more Smart Metering Systems for which a User is the Electricity Distributor and/or the Gas Transporter, that number shall, where any Shared Resources form part of both its User Systems and the User Systems of another User, be deemed to include any Domestic Premises supplied with electricity and/or gas through one or more Smart Metering Systems for which that other User is the Electricity Distributor and/or the Gas Transporter.

Other Users

G8.47 Where a User is neither a Supplier Party nor a Network Party, it shall be subject:

- (a) in the first year after the year of its initial Full User Security Assessment, to a User Security Self-Assessment;
- (b) in the immediately following year, to a User Security Self-Assessment;
- (c) in the next following year, to a Full User Security Assessment; and
- (d) in each year thereafter, to a category of security assurance assessment which repeats the same annual sequence as that of paragraphs (a) to (c).

Interpretation

G8.48 Section G8.49 applies where:

- (a) pursuant to Sections G8.41 to G8.43, it is necessary to determine, in relation to any Supplier Party, the number of Domestic Premises that are supplied with

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

electricity and/or gas through one or more Smart Metering Systems for which it is the Responsible Supplier; or

- (b) pursuant to Sections G8.44 to G8.46, it is necessary to determine, in relation to any Network Party, the number of Domestic Premises that are supplied with electricity and/or gas through one or more Smart Metering Systems for which it is the Electricity Distributor and/or the Gas Transporter.

G8.49 Where this Section applies:

- (a) the determination referred to in Section G8.48 shall be made at the time at which the nature of each annual security assurance assessment for the relevant User falls to be ascertained; and
- (b) the DCC shall provide all reasonable assistance that may be requested by that User or the Security Sub-Committee for the purposes of making that determination.

User Security Self-Assessment

G8.50 Where, in accordance with the requirements of this Section G8, a User is subject to a User Security Self-Assessment in any year, that User shall:

- (a) carry out the User Security Self-Assessment during that year;
- (b) do so in accordance with the User Security Assessment Methodology that is applicable to User Security Self-Assessments; and
- (c) ensure that the outcome of the User Security Self-Assessment is documented and is submitted to the User Independent Security Assurance Service Provider for review by no later than the date which is 13 months after the date of the commencement of the previous User Security Assessment or (if more recent) User Security Self-Assessment.

Users: Obligation to Pay Explicit Charges

G8.51 Each User shall pay to the DCC all applicable Charges in respect of:

- (a) all User Security Assessments and Follow-up Security Assessments carried out

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

in relation to it by the User Independent Security Assurance Service Provider;

- (b) the production by the User Independent Security Assurance Service Provider of any User Security Assessment Reports following such assessments; and
- (c) all related activities of the User Independent Security Assurance Service Provider in respect of that User in accordance with this Section G8.

G8.52 Expenditure incurred in relation to Users in respect of the matters described in Section G8.51 shall be treated as Recoverable Costs in accordance with Section C8 (Panel Costs and Budgets).

G8.53 For the purposes of Section G8.51 the Panel shall, at such times and in respect of such periods as it may (following consultation with the DCC) consider appropriate, notify the DCC of:

- (a) the expenditure incurred in respect of the matters described in Section G8.51 that is attributable to individual Users, in order to facilitate Explicit Charges designed to pass-through the expenditure to such Users pursuant to Section K7 (Determining Explicit Charges); and
- (b) any expenditure incurred in respect of the matters described in Section G8.51 which cannot reasonably be attributed to an individual User.

Events of Default

G8.54 In relation to an Event of Default which consists of a material breach by a User of any of its obligations under Sections G3 to G6, the provisions of Sections M8.2 to M8.4 shall apply subject to the provisions of Sections G8.55 to G8.60.

G8.55 Where in accordance with Section M8.2 the Panel receives notification that a User is in material breach of any requirements of Sections G3 to G6, it shall refer the matter to the Security Sub-Committee.

G8.56 On any such referral the Security Sub-Committee may investigate the matter in accordance with Section M8.3 as if the references in that Section to the “Panel” were to the “Security Sub-Committee”.

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G8.57 Where the Security Sub-Committee has:

- (a) carried out an investigation in accordance with Section M8.3; or
- (b) received a report from the User Independent Security Assurance Service Provider, following a User Security Assessment, concluding that a User is in actual or potential non-compliance with any of its obligations under Sections G3 to G6,

the Security Sub-Committee shall consider the information available to it and, where it considers that actual non-compliance with any obligations under Sections G3 to G6 has occurred, shall refer the matter to the Panel for it to determine whether that non-compliance constitutes an Event of Default.

G8.58 Where the Panel determines that an Event of Default has occurred, it shall:

- (a) notify the relevant User and any other Party it considers may have been affected by the Event of Default; and
- (b) determine the appropriate steps to take in accordance with Section M8.4.

G8.59 Where the Panel is considering what steps to take in accordance with Section M8.4, it may request and consider the advice of the Security Sub-Committee.

G8.60 Where the Panel determines that a User is required to give effect to a remedial action plan in accordance with Section M8.4(d) that plan must be approved by the Panel (having regard to any advice of the Security Sub-Committee).

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

G9 DCC SECURITY ASSURANCE

The DCC Independent Security Assessment Arrangements

G9.1 The DCC shall establish, give effect to, maintain and comply with arrangements, to be known as the "**DCC Independent Security Assessment Arrangements**", which shall:

- (a) have the purpose specified in Section G9.2; and
- (b) make provision for the DCC to take the actions specified in Section G9.3.

G9.2 The purpose specified in this Section G9.2 shall be the purpose of procuring SOC2 assessments of:

- (a) all security risk assessments undertaken by the DCC in relation to itself and any DCC Service Providers;
- (b) the effectiveness and proportionality of the security controls that are in place in order to identify and mitigate security risks in relation to the DCC Total System; and
- (c) the DCC's compliance with:
 - (i) the requirements of Condition 8 (Security Controls for the Authorised Business) of the DCC Licence;
 - (ii) the requirements of Sections G2 and G4 to G6;
 - (iii) such other requirements relating to the security of the DCC Total System as may be specified by the Panel (having considered the advice of the Security Sub-Committee) from time to time.

G9.3 The actions specified in this Section G9.3 shall be actions taken by the DCC to:

- (a) procure the provision of security assurance services by the DCC Independent Security Assurance Service Provider (as further described in Section G9.4);
- (b) ensure that the DCC Independent Security Assurance Service Provider carries out SOC2 assessments for the purpose specified in Section G9.2:

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (i) annually;
 - (ii) on any material change to the DCC Total System; and
 - (iii) at any other time specified by the Panel;
- (c) consult with the Panel, and obtain its approval, in respect of the scope of each such assessment before that assessment is carried out;
- (d) procure that the DCC Independent Security Assurance Service Provider produces a DCC Security Assessment Report following each such assessment that has been carried out;
- (e) ensure that the Panel and the Security Sub-Committee are provided with a copy of each such DCC Security Assessment Report;
- (f) produce a DCC Security Assessment Response in relation to each such report; and
- (g) provide to the Panel and the Security Sub-Committee a copy of each DCC Security Assessment Response and, as soon as reasonably practicable thereafter, a report on its implementation of any action plan that is set out in that DCC Security Assessment Response.

The DCC Independent Security Assurance Service Provider

G9.4 For the purposes of Section G9.3, the "**DCC Independent Security Assurance Service Provider**" shall be a person who is appointed by the DCC to provide security assurance services and who:

- (a) is qualified to perform SOC2 assessments;
- (b) has been approved by the Security Sub-Committee, following consultation with it by the DCC, as otherwise being suitably qualified to provide security assurance services for the purposes of this Section G9; and
- (c) satisfies the independence requirement specified in Section G9.5.

G9.5 The independence requirement specified in this Section G9.5 is that the DCC

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Independent Security Assurance Service Provider must be independent of the DCC and of each DCC Service Provider from whom the DCC may acquire capability for any purpose related to its compliance with the obligations referred to at Section G9.2(c) (but excluding any provider of corporate assurance services to the DCC).

G9.6 For the purposes of Section G9.5, the DCC Independent Security Assurance Service Provider is to be treated as independent of the DCC (and of a relevant DCC Service Provider) only if:

- (a) neither the DCC nor any of its subsidiaries (or such a DCC Service Provider or any of its subsidiaries) holds or acquires any investment by way of shares, securities or other financial rights or interests in the DCC Independent Security Assurance Service Provider;
- (b) no director of the DCC (or of any such DCC Service Provider) is or becomes a director or employee of, or holds or acquires any investment by way of shares, securities or other financial rights or interests in, the DCC Independent Security Assurance Service Provider;
- (c) the DCC Independent Security Assurance Service Provider does not hold or acquire a participating interest (as defined in section 421A of the Financial Services and Markets Act 2000) in the DCC (or in any such DCC Service Provider); and
- (d) the DCC Independent Security Assurance Service Provider is able to demonstrate to the satisfaction of the Panel that it has in place arrangements to ensure that it will at all times act independently of any commercial relationship that it has or may in future have with the DCC.

DCC Security Assessment Reports and Responses

G9.7 For the purposes of this Section G9:

- (a) a "**DCC Security Assessment Report**" means a written report produced by the DCC Independent Security Service Provider following a SOC2 assessment carried out by it for the purpose specified in Section G9.2, which:

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (i) sets out the findings of the DCC Independent Security Assurance Service Provider on all the matters within the scope of that assessment;
 - (ii) specifies any instances of actual or potential non-compliance of the DCC with the obligations referred to at Section G9.2(c) which have been identified by the DCC Independent Security Assurance Service Provider; and
 - (iii) sets out the evidence which, in the opinion of the DCC Independent Security Assurance Service Provider, establishes each of the instances of actual or potential non-compliance which it has identified; and
- (b) a "**DCC Security Assessment Response**" means a written response to a DCC Security Assessment Report which is produced by the DCC, addresses the findings set out in the report and, where that report specifies any instances of actual or potential non-compliance of the DCC with the obligations referred to at Section G9.2(c):
- (i) indicates whether the DCC accepts the relevant findings of the DCC Independent Security Assurance Service Provider and, where it does not, explains why this is the case;
 - (ii) sets out any steps that the DCC has taken or proposes to take in order to remedy and/or mitigate the actual or potential non-compliance specified in the DCC Security Assessment Report; and
 - (iii) identifies a timetable within which the DCC proposes to take any such steps that have not already been taken.

Events of Default

G9.8 In relation to an Event of Default which consists of a material breach by the DCC of any of the obligations referred to at Section G9.2(c), the provisions of Sections M8.2 to M8.4 shall apply subject to the provisions of Sections G9.9 to G9.15.

G9.9 For the purposes of Sections M8.2 to M8.4 as they apply pursuant to Section G9.8, an Event of Default shall (notwithstanding the ordinary definition thereof) be deemed to

SEC – Section G: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

have occurred in respect of the DCC where it is in material breach of any of the obligations referred to at Section G9.2(c) (provided that Sections M8.4(e), (f) and (g) shall never apply to the DCC).

G9.10 Where in accordance with Section M8.2 the Panel receives notification that the DCC is in material breach of any of the obligations referred to at Section G9.2(c), it shall refer the matter to the Security Sub-Committee.

G9.11 On any such referral the Security Sub-Committee may investigate the matter in accordance with Section M8.3 as if the references in that Section to the “Panel” were to the “Security Sub-Committee”.

G9.12 Where the Security Sub-Committee has:

- (a) carried out an investigation in accordance with Section M8.3; or
- (b) received a DCC Security Assessment Report concluding that the DCC is in actual or potential non-compliance with any of the obligations referred to at Section G9.2(c),

the Security Sub-Committee shall consider the information available to it and, where it considers that actual non-compliance with any of the obligations referred to at Section G9.2(c) has occurred, shall refer the matter to the Panel for it to determine whether that non-compliance constitutes an Event of Default.

G9.13 Where the Panel determines that an Event of Default has occurred, it shall:

- (a) notify the DCC and any other Party it considers may have been affected by the Event of Default; and
- (b) determine the appropriate steps to take in accordance with Section M8.4.

G9.14 Where the Panel is considering what steps to take in accordance with Section M8.4, it may request and consider the advice of the Security Sub-Committee.

G9.15 Where the Panel determines that the DCC is required to give effect to a remedial action plan in accordance with Section M8.4(d) that plan must be approved by the Panel (having regard to any advice of the Security Sub-Committee).

SECTION H: DCC SERVICES

H1 USER ENTRY PROCESS

Eligibility Generally

H1.1 Many of the Services described in this Section H are described as being available only to Users. A Party is not entitled to receive those Services until that Party has become a User by completing the User Entry Process.

H1.2 Only persons that are Parties are eligible to complete the User Entry Process and to become Users.

User Role Eligibility

H1.3 The Services provided over the DCC User Interface are available only to Users within certain User Roles. A Party wishing to act as a User in one or more User Roles must first complete the User Entry Process for that User Role.

User IDs

H1.4 When accessing Services a User must operate in a particular User Role using the applicable User ID.

H1.5 A Party wishing to act as a User in one or more User Roles shall propose to the DCC one or more identification numbers, issued to it by the Panel, to be used by that Party when acting in each such User Role. Each such identification number must be EUI-64 Compliant, and the same identification number cannot be used for more than one User Role, save that a Party may use the same identification number when acting in the User Roles of 'Import Supplier', 'Export Supplier' and 'Gas Supplier'.

H1.6 The DCC shall accept each identification number proposed by each Party in respect of each of its User Roles (and record such numbers as identifying, and use such numbers to identify, such Party in such User Role); provided that the DCC shall only accept the proposed number if it has been issued by the Panel, and if (at the time of the Party's proposal) the Party:

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) holds for the User Role of ‘Import Supplier’ or ‘Export Supplier’, an Electricity Supply Licence;
- (b) holds for the User Role of ‘Gas Supplier’, a Gas Supply Licence;
- (c) holds for the User Role of ‘Electricity Distributor’, an Electricity Distribution Licence;
- (d) holds for the User Role of ‘Gas Transporter’, a Gas Transportation Licence; and
- (e) is for the User Role of 'Registered Supplier Agent', identified in the Registration Data as a Meter Operator or a Meter Asset Manager for at least one MPAN or MPRN.

H1.7 A Party may from time to time replace or withdraw its User ID for each of its User Roles on notice to the DCC; provided that any such replacement shall be subject to acceptance by the DCC in accordance with Section H1.6.

User Entry Guide

H1.8 The Code Administrator shall establish and publish on the Website a guide to the User Entry Process. Such guide shall:

- (a) identify the persons that a Party is required to contact to commence the steps required pursuant to the User Entry Process for each User Role; and
- (b) include a recommendation that each Party undertakes a privacy impact assessment in accordance with the Information Commissioner’s guidance concerning the same (but there shall be no obligation under this Code to do so).

User Entry

H1.9 Where a Party wishing to become a User in a particular User Role commences the User Entry Process, it must notify the Code Administrator that it has done so (and in respect of which User Role).

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

User Entry Process Requirements

- H1.10 The User Entry Process for each User Role requires that the Party has:
- (a) received confirmation from the DCC of its acceptance of at least one User ID for the Party and that User Role in accordance with Section H1.6;
 - (b) successfully completed the User Entry Process Tests for that User Role in accordance with Section H14 (Testing Services);
 - (c) successfully demonstrated in accordance with the procedure set out in Section G8 (User Security Assurance) that the Party meets the applicable security requirements required by that Section;
 - (d) (in the case only of the User Role of Other User) successfully demonstrated in accordance with the procedure set out in Section I2 (Other User Privacy Audits) that the Party meets the applicable privacy requirements required by that Section; and
 - (e) provided the Credit Support or additional Credit Support (if any) that the DCC requires that Party to provide, to be calculated by the DCC in accordance with Section J3 (Credit Cover) as if that Party were a User for that User Role (which calculation will include the DCC's reasonable estimates of the Charges that are likely to be incurred by that Party in that User Role in the period until the first Invoice for that Party is due to be paid by that Party in that User Role).
- H1.11 A Party will have successfully completed the User Entry Process for a particular User Role once the Code Administrator has received confirmation from the body responsible for each of the requirements set out in Section H1.10 that the Party has met each and every requirement set out in Section H1.10, and once the Code Administrator has confirmed the same to the Party.
- H1.12 Once a Party has successfully completed the User Entry Process for a particular User Role, the Code Administrator shall confirm the same to the DCC and the Panel. A Party who has successfully completed the User Entry Processes in one User Role shall not be considered to be a User in relation to any other User Role until it has completed

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the User Entry Processes in relation to such other User Role.

Disputes Regarding User Entry Process

H1.13 Where a Party wishes to raise a dispute in relation to its application to become a User, and to the extent that the dispute relates to:

- (a) the matters described in Section H1.10(b), then the dispute shall be determined in accordance with the applicable dispute resolution procedure set out in Section H14 (Testing Services);
- (b) the matters described in Section H1.10(c), then the dispute shall be determined in accordance with the dispute resolution procedure set out in Section G8 (User Security Assurance);
- (c) the matters described in Section H1.10(d), then the dispute shall be determined in accordance with the dispute resolution procedure set out in Section I2 (Other User Privacy Audits);
- (d) the matters described in Section H1.10(e), then the dispute shall be determined in accordance with Section J3.15 (Disputes); or
- (e) any matters other than those referred to above, then the dispute may be referred to the Panel for determination.

H1.14 Where a Party disagrees with any decision of the Panel made pursuant to Section H1.13(e), then that Party may refer the matter to the Authority for its determination, which shall be final and binding for the purposes of this Code.

Ceasing to be a User in a User Role

H1.15 Where a User wishes to cease acting as a User in a User Role, the User shall notify the Code Administrator in writing of the date from which the User wishes to cease acting as a User in that User Role.

H1.16 Where a User notifies the Code Administrator in accordance with Section H1.15, the User shall cease to be a User in the specified User Role with effect from the date

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

specified in such notification.

H1.17 The Code Administrator shall, as soon as reasonably practicable after receipt of a notification from a User in accordance with Section H1.15, notify the Panel and the DCC of the date from which that User will cease to be a User in the specified User Role.

H1.18 Following any notification received from the Code Administrator under Section H1.17 in respect of a User and a User Role, the DCC shall cease to treat that User as a User in that User Role; provided that the DCC shall be allowed up to 24 hours from receipt of such notification to update the DCC Systems.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H2 REGISTERED SUPPLIER AGENTS

Rights and Obligations of Registered Supplier Agents

H2.1 Registered Supplier Agents are Parties to this Code in their own right, and as such have rights and obligations as Other SEC Parties or as Users acting in the User Role of Registered Supplier Agent.

Responsibility for Registered Supplier Agents

H2.2 It is acknowledged that the following Services (as described in the DCC User Interface Services Schedule) are only available to Users acting in the User Role of Registered Supplier Agent by virtue of their appointment by the Responsible Supplier as a Meter Operator or Meter Asset Manager in respect of the relevant MPAN or MPRN:

- (a) Read Device Configuration;
- (b) Read Event or Security Log;
- (c) Read Supply Status; and
- (d) Read Firmware Version.

H2.3 Without prejudice to the rights and obligations of each Registered Supplier Agent (as described in Section H2.1), the Supplier Party described in Section H2.4 shall ensure that each Registered Supplier Agent that sends Service Requests for the Services described in Section H2.2 shall only do so for the purposes of providing services to that Supplier Party in a manner consistent with that Supplier Party's Energy Supply Licence.

H2.4 The Supplier Party referred to in Section H2.3 is, in respect of a Service relating to a Smart Metering System or Device, the Responsible Supplier for that Smart Metering System or Device.

H2.5 Nothing in this Code obliges Supplier Parties to contract with Meter Operators and/or Meter Asset Managers in order to procure from the Meter Operator and/or Meter

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Asset Manager services that result in the need for the Meter Operator and/or Meter Asset Manager to send Service Requests.

H2.6 Each Supplier Party shall be responsible for controlling the ability of the Registered Supplier Agent to send the Service Requests referred to in Section H2.2 in circumstances where that Supplier Party would be liable under Section H2.3.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H3 DCC USER INTERFACE

Obligation to Maintain DCC User Interfaces

- H3.1 The DCC shall maintain the DCC User Interface in accordance with the DCC User Interface Specification, and make it available via DCC Gateway Connections to Users to send and receive communications in accordance with the DCC User Interface Specification and the DCC User Interface Code of Connection.
- H3.2 The DCC shall ensure that the DCC User Interface is available at all times (subject to Planned Maintenance undertaken in accordance with Section H8.3).

Communications to be sent via DCC User Interface

- H3.3 The DCC and each User shall use the DCC User Interface for the following communications:
- (a) Service Requests from a User to the DCC;
 - (b) Signed Pre-Commands from a User to the DCC;
 - (c) Acknowledgements from the DCC to a User;
 - (d) Pre-Commands from the DCC to a User;
 - (e) Service Responses from the DCC to a User;
 - (f) Device Alerts and DCC Alerts from the DCC to a User;
 - (g) Commands from the DCC to the User pursuant to the Local Command Services;
or
 - (h) any other communications expressly required in this Code to be sent via the DCC User Interface.
- H3.4 The communications required to be sent via the DCC User Interface under Section H3.3 shall only be validly sent for the purposes of this Code if sent in accordance with this Section H3, Section H4 (Processing Service Requests) and the DCC User

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Interface Specification.

H3.5 No Party may use the DCC User Interface for any purpose other than to meet the requirements of Section H3.3. Only the DCC and Users may use the DCC User Interface.

Eligibility for Services Over the DCC User Interface

H3.6 A User shall not send a Service Request in respect of a Smart Metering System (or a Device forming, or to form, part of a Smart Metering System) unless it is an Eligible User for that Service and Smart Metering System (save that a User may send a Service Request in circumstances where it is not an Eligible User in order to rectify errors, as further described in the Service Request Processing Document).

H3.7 Whether or not a User is an Eligible User for the following Services is determined as follows:

- (a) for Enrolment Services, Core Communication Services and Local Command Services, the entitlement is described in Section H3.8; or
- (b) for Elective Communication Services, the entitlement is described in the relevant Bilateral Agreement.

H3.8 Subject to Sections H3.9 and H3.10, the following Users are entitled to receive the following Services in respect of a Smart Metering System (or a Device forming, or to form, part of that Smart Metering System):

- (a) the Import Supplier for that Smart Metering System is entitled to those Services described in the DCC User Interface Services Schedule as being available to the ‘Import Supplier’;
- (b) the Export Supplier for that Smart Metering System is entitled to those Services described in the DCC User Interface Services Schedule as being available to the ‘Export Supplier’;
- (c) the Gas Supplier for that Smart Metering System is entitled to those Services

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

described in the DCC User Interface Services Schedule as being available to the ‘Gas Supplier’;

- (d) the Electricity Distributor for that Smart Metering System is entitled to those Services described in the DCC User Interface Services Schedule as being available to the ‘Electricity Distributor’;
- (e) the Gas Transporter for that Smart Metering System is entitled to those Services described in the DCC User Interface Services Schedule as being available to the ‘Gas Transporter’;
- (f) the Registered Supplier Agent for that Smart Metering System is entitled to those Services described in the DCC User Interface Services Schedule as being available to the ‘Registered Supplier Agent’;
- (g) any User acting in the User Role of Other User is entitled to those Services described in the DCC User Interface Services Schedule as being available to an ‘Other User’; and
- (h) in respect of certain Services (where specified in the DCC User Interface Services Schedule) and where an electricity Smart Metering System and a gas Smart Metering System share a Communications Hub Function, the Import Supplier is entitled to those Services in respect of the gas Smart Metering System.

H3.9 Subject to Section H3.10, a User’s eligibility for a Service in respect of a Smart Metering System (or a Device forming, or to form, part of that Smart Metering System) is also dependent upon the status of that Smart Metering System (or such a Device), such that:

- (a) the Responsible Supplier may send Service Requests in respect of Devices that have an SMI Status of ‘pending’, ‘whitelisted’, ‘installed not commissioned’, ‘commissioned’, or ‘suspended’;
- (b) Users that are not the Responsible Supplier may only send Service Requests in respect of Devices that have an SMI Status of ‘installed not commissioned’ or

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

‘commissioned’; and

- (c) Communication Services are not available in respect of a Smart Metering System until it has been Enrolled.

H3.10 Certain Services are available on the basis of Eligible User Role (rather than a User’s status as an Eligible User in respect of a particular Smart Metering System or Device). In respect of these Services, references in the DCC User Interface Services Schedule to ‘Electricity Import Supplier’, ‘Electricity Export Supplier’, ‘Gas Import Supplier’, ‘Electricity Network Operator’, ‘Gas Network Operator’, ‘Registered Supplier Agent’ and ‘Other Users’ are to the corresponding User Roles. The Services in question are those described in the DCC User Interface Services Schedule as:

- (a) ‘Request WAN Matrix’;
- (b) ‘Device Pre-notifications’;
- (c) ‘Read Inventory’;
- (d) ‘Communications Hub Status Update - Install Success’;
- (e) ‘Communications Hub Status Update - Install No SM WAN’;
- (f) ‘Communications Hub Status Update - Fault Return’; and
- (g) ‘Communications Hub Status Update - No Fault Return’.

Categories of Service

H3.11 Enrolment Services, Local Command Services and Core Communication Services fall into the following categories (and corresponding categories may be established in respect of Elective Communication Services under Bilateral Agreements):

- (a) Services identified in the DCC User Interface Services Schedule to be available as ‘on-demand’ services, and which a User requests on such basis (“On-Demand Services”);
- (b) Services identified in the DCC User Interface Services Schedule to be available

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

as ‘future-dated’ services, and which a User requests on such basis specifying the relevant time and date for execution (“Future-Dated Services”); and

- (c) Services identified in the DCC User Interface Services Schedule to be available as ‘scheduled’ services, and which a User requests on such basis specifying the initial time and date for execution as well as the frequency at which execution is to recur (“Scheduled Services”).

H3.12 The DCC shall only accept a Service Request for a Future-Dated Service or a Scheduled Service that has an execution date that is later than the time on the date at which the Service Request is received by the DCC. No User may request a Future-Dated Service that has an execution date of more than 30 days after the date on which the Service Request is sent to the DCC.

Sequenced Services

H3.13 An On-Demand Service or a Future-Dated Service may also be requested on the basis that it is only to be provided following the successful execution of a specified Service Request (“**Sequenced Services**”).

Target Response Times

H3.14 The DCC shall undertake the following activities within the following time periods (each such time period being, in respect of each such activity, the “**Target Response Time**” for that activity):

- (a) Transforming Critical Service Requests into Pre-Commands and sending to the relevant User, within 3 seconds from receipt of the Service Request;
- (b) sending a User a Service Response in respect of a Non-Critical Service Request for an On-Demand Service that is not a Sequenced Service, within the applicable time period set out in the DCC User Interface Services Schedule measured from receipt of the Service Request from the User;
- (c) sending a User a Service Response in respect of a Critical Service Request for an On-Demand Service that is not a Sequenced Service, within the applicable

time period set out in the DCC User Interface Services Schedule measured from receipt of the Signed Pre-Command from the User;

- (d) sending a User a Service Response in respect of a Service Request for an On-Demand Service that is a Sequenced Service, within the applicable time period set out in the DCC User Interface Services Schedule measured from the receipt by the DCC of the Service Response for the Service Request upon which the Sequenced Service is dependent;
- (e) sending a User a Service Response in respect of a Service Request for a Future-Dated Service that is not a Sequenced Service or for a Scheduled Service, within the applicable time period set out in the DCC User Interface Services Schedule measured from the time and date for execution specified in the Service Request;
- (f) sending a User a Service Response in respect of a Service Request for a Future-Dated Service that is a Sequenced Service, within the applicable time period set out in the DCC User Interface Services Schedule measured from the receipt by the DCC of the Service Response for the Service Request upon which the Sequenced Service is dependent;
- (g) (except for the Alerts referred to in (h) below) sending a User an Alert, within 60 seconds measured from the Alert being communicated to (Device Alerts) or generated by (Non-Device Alerts) the Communications Hub Function; or
- (h) for the Services Request ‘Update Device Configuration (Billing Calendar)’, in addition to the above response times applicable to the Service Response confirming the configuration, periodic Alerts will be generated as a result of such configuration, for which the response time for sending the Alert to the User shall be within 24 hours from the relevant data having been communicated to the Communications Hub Function.

H3.15 For the purposes of Section H3.14:

- (a) the concepts of ‘sending’ and ‘receipt’ are to be interpreted in accordance with

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the explanation of those concepts in the DCC User Interface Specification;

- (b) any time during which an anomalous communication is quarantined by the DCC in accordance with Section H4 (Processing Service Requests) shall be disregarded for the purpose of measuring Response Times; and
- (c) the time taken by the Communications Hub Function in communicating with the other Devices forming part of a Smart Metering System shall be disregarded.

Inherent Restrictions Linked to Technical Specifications

H3.16 The Services set out in the DCC User Interface Services Schedule are available only insofar as the minimum functionality of Devices as described in the Technical Specifications (or, to the extent required to support that minimum functionality, the GB Companion Specification) allows for such Services. Any Services required in respect of additional functionality of Devices should be requested as Elective Communication Services. This Section H3.16 does not apply in respect of Services to which Non-Device Service Requests apply.

Change of Tenancy

H3.17 As soon as reasonably practicable after a Responsible Supplier for an Enrolled Smart Metering System relating to a premises becomes aware of a change of occupancy at that premises, that Responsible Supplier shall send a ‘Restrict Access for Change of Tenancy’ Service Request to the DCC in relation to the Smart Meter and any Gas Proxy Function forming part of that Smart Metering System (except where the out-going Energy Consumer has indicated that they wish historic information on the Smart Metering System to remain available to be viewed).

Cancellation of Future-Dated and Scheduled Services

H3.18 As soon as reasonably practicable after receipt by the DCC of a Service Response from a Smart Metering System in respect of a ‘Restrict Access for Change of Tenancy’ Service Request, the DCC shall cancel any and all Service Requests for Future-Dated Services or Scheduled Services in respect of any Device forming part of

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

that Smart Metering System for which the Command has not yet been sent and which are being processed on behalf of an Other User (and shall notify the relevant User of such cancellation via the DCC User Interface).

H3.19 The DCC shall cancel any and all Service Requests for Scheduled Services due to be undertaken in respect of a Device forming part of a Smart Metering System after the Withdrawal of that Smart Metering System (and shall notify the relevant User of such cancellation via the DCC User Interface).

H3.20 The DCC shall cancel any and all Service Requests for Future-Dated Services or Scheduled Services for which the Command has not yet been sent and which are due to be undertaken in respect of a Device after the Decommissioning or Suspension of that Device (and shall notify the relevant User of such cancellation via the DCC User Interface).

H3.21 [Not Used]

Managing Demand for DCC User Interface Services

H3.22 By the 15th Working Day of the months of January, April, July and October, each User shall provide the DCC with a forecast of the number of Service Requests that the User will send in each of the 8 months following the end of the month in which such forecast is provided. Such forecast shall contain a breakdown of the total number of Service Requests by reference to each Service listed in the DCC User Interface Services Schedule and the category of Service (i.e. Future Dated, On Demand or Scheduled).

H3.23 The DCC shall monitor and record the aggregate number of Service Requests sent by each User in total, and also the aggregate number of Service Requests sent by each User in respect of each Service listed in the DCC User Interface Services Schedule.

H3.24 By no later than the 10th Working Day following the end of each month, the DCC shall provide:

- (a) each User with a report that sets out the number of Service Requests sent by that User during that month (in total and broken down by reference to each Service

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

listed in the DCC User Interface Services Schedule), and comparing the actual numbers sent against the numbers most recently forecast for the applicable month;

- (b) each User with a report setting out the current value (calculated at the end of the previous month) for every Monthly Service Metric for that User and a comparison of the current value against the relevant Monthly Service Threshold; and
- (c) a report to the Panel that sets out:
 - (i) the aggregate number of Service Requests sent by all Users collectively during that month (in total and broken down by reference to each Service listed in the DCC User Interface Services Schedule), and comparing the actual numbers for that month sent against the numbers most recently forecast for the applicable month;
 - (ii) where the number of Service Requests sent by any User during that month is less than or equal to 90% or greater than or equal to 110% of the User's most recent monthly forecast for the applicable month, the identity of each such User and the number of Service Requests sent by each such User (in total and broken down by reference to each Service listed in the DCC User Interface Services Schedule); and
 - (iii) where the measured value of any Monthly Service Metric for any User and that month is greater than or equal to 110% of Monthly Service Threshold, the identity of that User and the values of such Monthly Service Metrics during that month.

H3.25 The Panel shall publish the reports provided to it pursuant to Section H3.24(c) on the Website. The Panel may decide not to publish one or more parts of a report concerning under-forecasting or over-forecasting as referred to in Section H3.24(c)(ii) where the Panel considers that the under-forecasting or over-forecasting was reasonable in the circumstances (including where it arose as a result of matters beyond the User's reasonable control).

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- H3.26 The DCC shall, on or around each anniversary of the date on which it first started providing Services over the DCC User Interface, review (and report to the Panel on) each Monthly Service Metric and associated Monthly Service Threshold to establish whether they are still an appropriate mechanism to illustrate User behaviour that may utilise a significant element of the capacity requirements of the Services.
- H3.27 The DCC shall, as soon as is reasonably practicable, submit a Modification Proposal containing rules that it considers appropriate to enable the prioritisation by the DCC of Service Requests and Service Responses across the DCC User Interface and the prioritisation by the DCC of Commands to be sent to Communications Hub Functions, in circumstances where the aggregate demand for the same cannot be satisfied simultaneously.
- H3.28 The DCC shall not be considered to be in breach of this Code with regard to the obligation to achieve Target Response Times if, during the month in question, the aggregate Service Requests sent by all Users exceeds 110% of the aggregate demand most recently forecast for that month by all Users pursuant to Section H3.22 (provided that the DCC shall nevertheless in such circumstances ~~take reasonable steps~~ **use its reasonable endeavours** to achieve the Target Response Times).

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H4 PROCESSING SERVICE REQUESTS

Introduction

H4.1 The request by Users, and the provision by the DCC, of certain Services is achieved by means of the sending of communications in accordance with Section H3.3 (Communications to be Sent via the DCC User Interface) and this Section H4. The Services in question are:

- (a) Enrolment Services;
- (b) Local Command Services;
- (c) Core Communication Services; and
- (d) Elective Communication Services.

Processing Obligations

H4.2 Each User and the DCC shall each comply with the applicable obligations set out in the Service Request Processing Document concerning the secure processing of the communications required to be sent via the DCC User Interface.

DCC IDs

H4.3 The DCC shall obtain and use EUI-64 Compliant identification numbers for the purposes of its communications under this Code. Where it is expedient to do so, the DCC may use different identification numbers to identify different DCC roles.

H4.4 The DCC shall:

- (a) where Section G (Security) requires it to Separate one part of the DCC Systems from another part of the DCC Systems, use different identification numbers for the purposes of its communications from each such part of the DCC Systems; and
- (b) use different identification numbers for the purposes of becoming a Subscriber for different Organisation Certificates or OCA Certificates with different

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Remote Party Role Codes.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H5 SMART METERING INVENTORY AND ENROLMENT SERVICES

Overview of Enrolment

H5.1 Enrolment of a Smart Metering System occurs:

- (a) in the case of electricity, on the Commissioning of the Electricity Smart Meter forming part of that Smart Metering System; or
- (b) in the case of gas, on the Commissioning of both the Gas Smart Meter and the Gas Proxy Function forming part of that Smart Metering System.

H5.2 No Device that is to form part of a Smart Metering System (other than the Communications Hub Function) can be Commissioned before the Communications Hub Function that is to form part of that Smart Metering System has been Commissioned.

H5.3 No Device can be Commissioned unless it is:

- (a) listed on the Smart Metering Inventory; and
- (b) other than for Type 2 Devices, listed with an SMI Status which is not 'withdrawn' or 'decommissioned'.

Statement of Service Exemptions

H5.4 In accordance with Condition 17 of the DCC Licence (and notwithstanding any other provision of this Section H5), the DCC is not obliged to Commission Communications Hub Functions (or therefore to Enrol Smart Metering Systems) where it is exempted from the requirement to do so in accordance with a Statement of Service Exemptions.

Smart Metering Inventory

H5.5 The DCC shall establish and maintain the Smart Metering Inventory in accordance with the Inventory, Enrolment and Withdrawal Procedures.

H5.6 Each User and the DCC shall each comply with the applicable obligations set out in

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the Inventory, Enrolment and Withdrawal Procedures, which must include obligations concerning:

- (a) the addition and removal of Devices to and from the Smart Metering Inventory; and
- (b) changes to the SMI Status of the Devices recorded on the Smart Metering Inventory from time to time.

Enrolment of Smart Metering Systems

H5.7 Each User and the DCC shall each comply with the applicable obligations set out in the Inventory, Enrolment and Withdrawal Procedures Document, which must include obligations concerning:

- (a) steps to be taken before a Device that is listed on the Smart Metering Inventory is installed and/or Commissioned at a premises;
- (b) steps to be taken in order to Commission such a Device;
- (c) steps to be taken following the Commissioning of such a Device; and
- (d) steps to be taken on the removal and/or replacement of any Device forming part of a Smart Metering System.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H6 DECOMMISSIONING, WITHDRAWAL AND SUSPENSION OF DEVICES

Decommissioning

- H6.1 Where a Device other than a Type 2 Device is no longer to form part of a Smart Metering System otherwise than due to its Withdrawal, then that Device should be Decommissioned. A Device may be Decommissioned because it has been uninstalled and/or is no longer operating (whether or not it has been replaced, and including where the Device has been lost, stolen or destroyed).
- H6.2 Only the Responsible Supplier(s) for a Communications Hub Function, Smart Meter, Gas Proxy Function or Type 1 Device may Decommission such a Device.
- H6.3 Where a Responsible Supplier becomes aware that a Device has been uninstalled and/or is no longer operating (otherwise than due to its Withdrawal), that User shall send a Service Request requesting that it is Decommissioned.
- H6.4 On successful processing of a Service Request from a Responsible Supplier in accordance with Section H6.3, the DCC shall:
- (a) set the SMI Status of the Device to ‘decommissioned’;
 - (b) where relevant, amend the Smart Metering Inventory so that the Device is no longer Associated with any other Devices; and
 - (c) where the Device in question is a Communications Hub Function, notify any and all Responsible Suppliers (other than the Responsible Supplier that procured such Decommissioning) for that Communications Hub Function of such Decommissioning.
- H6.5 Where the DCC receives a Service Request from a User that does not satisfy the requirements of Section H6.2, the DCC shall reject the Service Request.
- H6.6 On the Decommissioning of a Communications Hub Function, the other Devices forming part of a Smart Metering System ~~shall~~ should also be ~~deemed to be~~ Decommissioned ~~(and the DCC shall update their SMI Status accordingly)~~; provided

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

that the Devices forming part of a Smart Metering System (other than the Gas Proxy Function) may remain Commissioned notwithstanding the Decommissioning of the Communications Hub Function if a replacement Communications Hub Function is Commissioned within a reasonable period.

Withdrawal

H6.7 Where the Responsible Supplier for an Enrolled Smart Metering System for a Designated Premises no longer wishes that Smart Metering System to be Enrolled (and so no longer wishes to receive Communication Services in respect of that Smart Metering System), the Responsible Supplier may request that the Smart Metering System is Withdrawn. Where the Responsible Supplier:

- (a) is a User, the Responsible Supplier shall send that request as a Service Request to withdraw each of the Devices comprising that Smart Metering System (but subject to Section H6.9 in relation to the Communications Hub Function); and
- (b) is not a User (and does not wish to become a User), [TBC].

H6.8 On the successful processing of a request in accordance with Section H6.7 in respect of a Smart Metering System, the Smart Metering System shall no longer be Enrolled and the DCC shall:

- (a) in respect of those Devices forming part of that Smart Metering System and no other Smart Metering System, set the SMI Status of the Devices to ‘withdrawn’;
- (b) to the extent that there are other Devices with which the Withdrawn Devices were previously Associated, amend the Smart Metering Inventory so that the remaining Devices are no longer Associated with the Withdrawn Devices; and
- (c) remove the Withdrawn Devices from the Device Log of the Communications Hub Function.

H6.9 For the avoidance of doubt, Section H6.8(a) prevents the Withdrawal of a Communications Hub Function where that Communications Hub Function forms part of more than one Smart Metering System.

Suspension

- H6.10 Where a Device’s Device Model is removed from the Certified Products List, that Device shall be Suspended and the DCC shall set the SMI Status of the Device to ‘suspended’.
- H6.11 Where a Communications Hub Device Model is removed from the Certified Products List, both the Communications Hub Function and the Gas Proxy Function shall be deemed to be Suspended (and Section H6.10 shall apply accordingly).

Ancillary Obligations

- H6.12 Each User and the DCC shall each comply with the obligations set out in the Inventory, Enrolment and Withdrawal Procedures concerning Decommissioning, Suspension and Withdrawal of Devices (and the Smart Metering Systems of which such Devices form part), including (where applicable) notifying other Users of such Decommissioning, Suspension and Withdrawal.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H7 ELECTIVE COMMUNICATION SERVICES

Eligible Smart Metering Systems

H7.1 Elective Communication Services can only be provided in respect of Smart Metering Systems that have been Enrolled.

Entitlement to Elective Communication Services

H7.2 Only a User is entitled to receive Elective Communication Services. A Party that is not a User is not entitled to receive Elective Communication Services.

H7.3 A User shall not be entitled to request or receive (and the DCC shall not provide to such User) any Elective Communication Services that would constitute a Restricted Communication Service.

Preliminary Assessment of Elective Communication Services

H7.4 Notwithstanding Section E7.2, any Party may request an initial evaluation of the technical feasibility and likely Charges for a proposed Elective Communication Service (a “**Preliminary Assessment**”).

H7.5 Requests for a Preliminary Assessment shall be made in such format as the DCC may specify from time to time, and shall be submitted to the DCC.

H7.6 The DCC shall respond to requests for a Preliminary Assessment in accordance with the time period prescribed by Condition 17 of the DCC Licence, and shall either (in accordance with Condition 17 of the DCC Licence):

- (a) provide an initial evaluation of the technical feasibility and the likely Charges for a proposed Elective Communication Service; or
- (b) give notice that a further and more detailed evaluation of the request is required.

Detailed Evaluation of Elective Communication Services

H7.7 Any Party that has requested a Preliminary Assessment and obtained a response as described in Section H7.6(b) may request a more detailed evaluation of the technical

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

feasibility and likely Charges for a proposed Elective Communication Service (a “**Detailed Evaluation**”).

H7.8 Requests for a Detailed Evaluation shall be made in such format as the DCC may specify from time to time, and shall be submitted to the DCC. Following receipt of any such request (or purported request), the DCC shall:

- (a) where the request is incomplete or the DCC reasonably requires further information in order to assess the request, notify the Party that this is the case and provide reasonable assistance to the Party in re-submitting its request;
- (b) once the DCC has received all the information it reasonably requires in order to assess the request, confirm the applicable Charges payable in respect of the Detailed Evaluation; and
- (c) once the Party has agreed to pay the applicable Charges, provide the Detailed Evaluation to the requesting Party (in accordance with the time period prescribed by Condition 17 of the DCC Licence).

Request for an Offer for an Elective Communication Service

H7.9 Any Party that has requested a Preliminary Assessment in respect of a proposed Elective Communication Service, and obtained a response as described in Section H7.6(a), may request a formal offer for that proposed Elective Communication Service.

H7.10 Any Party that has requested and obtained a Detailed Evaluation in respect of a proposed Elective Communication Service may request a formal offer for that proposed Elective Communication Service.

H7.11 Following a request pursuant to Section H7.9 or H7.10, the DCC shall (in accordance with the time period prescribed by Condition 17 of the DCC Licence):

- (a) make an offer to provide the Elective Communication Service in question; or
- (b) notify the Party that the DCC is not willing to make such an offer (provided that

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the DCC may only do so where the DCC is not obliged to make such an offer in accordance with Condition 17 of the DCC Licence).

Formal Offer

H7.12 An offer to provide the Elective Communication Service made by the DCC pursuant to this Section H7 shall:

- (a) include details of the Charges that would apply to the Elective Communication Service, as determined in accordance with the Charging Methodology;
- (b) where the proposed Charges have been calculated (in accordance with the Charging Methodology) on the assumption that one or more other Parties accept offers made pursuant to this Section H7, provide for two alternative sets of Charges, one of which is contingent on acceptance of all the other such offers and one of which is not; and
- (c) include an offer by the DCC to enter into a Bilateral Agreement with the Party requesting the Elective Communication Service.

H7.13 Each Bilateral Agreement must:

- (a) be based on the Specimen Bilateral Agreement, subject only to such variations from such specimen form as are reasonable in the circumstances;
- (b) not contradict or seek to override any or all of this Section H or Sections G (Security), I (Data Privacy), J (Charges), L (Smart Metering Key Infrastructure) or M (General);
- (c) where reasonably necessary in accordance with the Charging Methodology, provide for Charges that include or comprise a standing charge that is payable by the recipient of the Elective Communication Service regardless of whether or not the Elective Communication Service is requested or provided;
- (d) where reasonably necessary in accordance with the Charging Methodology, require the recipient of the Elective Communication Service to pay

compensation to DCC in the event of the early termination of the Bilateral Agreement (except in the case of termination as envisaged by Section H7.13(e));

- (e) allow the recipient of the Elective Communication Services to terminate the Bilateral Agreement without paying compensation to the extent that such compensation is intended to recover investments made for the purposes of providing the Elective Communication Service where (and to the extent that) the DCC subsequently offers a Service listed in the DCC User Interface Services Schedule that relies upon such investments (and each Bilateral Agreement must provide for disputes regarding this provision to be subject to an initial Panel determination, but to ultimately be determined by arbitration); and
- (f) where reasonably necessary, require the recipient of the Elective Communication Services to provide credit support in respect of its obligation to pay the compensation referred to in Section H7.13(d).

H7.14 The parties to each Bilateral Agreement shall ensure that the Bilateral Agreement describes the Elective Communication Services in a manner consistent with the description of the Core Communication Services in this Code, including so as to identify (to the extent appropriate) equivalents of the following concepts: Service Requests; Non-Device Service Requests; Pre-Commands; Signed Pre-Commands; Commands; Services Responses; Alerts; and Target Response Times. To the extent that an Elective Communication Service comprises equivalents of such concepts, references to such concepts in this Code shall be construed as including the equivalent concepts under each Bilateral Agreement (and the DCC and the relevant User under the Bilateral Agreement shall comply with Sections H3 (DCC User Interface) and H4 (Processing Service Requests) in respect of the same). For the purposes of each Elective Communication Service (unless the Panel otherwise determined on a User's application):

- (a) the applicable Service Request shall be deemed to be a Critical Service Request, unless it results only in the sending of a Command to a Device that would arise were a Non-Critical Service Request listed in the DCC User Interface Service

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Schedule to be requested;

- (b) the applicable Service Request (and any associated Pre-Command) shall be deemed to contain Data that requires Encryption, unless it contains only Data described in the GB Companion Specification as capable of being sent without Encryption.

H7.15 Elective Communication Services shall be provided in accordance with this Code and the applicable Bilateral Agreement. In the event of any inconsistency between this Code and a Bilateral Agreement, the provisions of this Code shall prevail.

H7.16 The DCC shall not agree to any variations to a Bilateral Agreement that would cause that agreement to become inconsistent with the requirements of this Section H7.

Disputes Regarding Offers for Elective Communication Services

H7.17 Where the requirements of Condition 20 of the DCC Licence are met, a Party that has requested an offer for a proposed Elective Communication Service may refer a dispute regarding such request to the Authority for determination under and in accordance with that Condition.

Publication of Details of Elective Communication Services

H7.18 Once the DCC has commenced provision of an Elective Communication Service pursuant to a Bilateral Agreement, the DCC shall notify the Code Administrator of the date on which the provision of such service commenced (but shall not provide any details regarding such agreement to the Code Administrator).

H7.19 The DCC shall, on or around the date falling six months after it commenced provision of an Elective Communication Service pursuant to a Bilateral Agreement, provide to the Code Administrator the following details:

- (a) a brief description of the Elective Communication Service;
- (b) the frequency with which, and (where stated) the period during which, the Elective Communication Service is to be provided; and

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(c) the Target Response Time within which the Elective Communication Service is to be provided.

H7.20 The Code Administrator shall arrange for the publication on the Website of the details provided to it pursuant to Section H7.19. The Code Administrator shall monitor and report to the Panel on whether the DCC has provided details pursuant to Section H7.18 in respect of Elective Communication Services of which the Code Administrator is notified under Section H7.18.

H7.21 Without prejudice to the DCC's obligations under Section H7.19, the existence and contents of each Bilateral Agreement shall constitute Confidential Information which the DCC is obliged to keep confidential in accordance with Section M4 (Confidentiality).

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H8 SERVICE MANAGEMENT, SELF-SERVICE INTERFACE AND SERVICE DESK

General

H8.1 The DCC shall provide the Services in a manner that is consistent with:

- (a) the Service Management Standards; or
- (b) any other methodology for service management identified by the DCC as being more cost efficient than the Service Management Standards, and which has been approved by the Panel for such purpose.

Maintenance of the DCC Systems

H8.2 The DCC shall (insofar as is reasonably practicable) undertake Maintenance of the DCC Systems in such a way as to avoid any disruption to the provision of the Services (or any part of them).

H8.3 Without prejudice to the generality of Section H8.2, the DCC shall (unless the Panel agrees otherwise):

- (a) undertake Planned Maintenance of the DCC Systems only between 20.00 hours and 08.00 hours;
- (b) limit Planned Maintenance of the Self-Service Interface to no more than four hours in any month; and
- (c) limit Planned Maintenance of the DCC Systems generally (including of the Self-Service Interface) to no more than six hours in any month.

H8.4 At least 20 Working Days prior to the start of each month, the DCC shall make available to Parties, to Registration Data Providers and to the Technical Architecture and Business Architecture Sub-Committee a schedule of the Planned Maintenance for that month. Such schedule shall set out (as a minimum) the following:

- (a) the proposed Maintenance activity (in reasonable detail);

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) the parts of the Services that will be disrupted (or in respect of which there is a Material Risk of disruption) during each such Maintenance activity;
- (c) the time and duration of each such Maintenance activity; and
- (d) any associated risk that may subsequently affect the return of normal Services.

H8.5 The Panel may (whether or not at the request of a Party) request that the DCC reschedules any Planned Maintenance set out in a monthly schedule provided pursuant to Section H8.4. In making any such request, the Panel shall provide the reasons for such request to the DCC in support of the request. The DCC will take all reasonable steps to accommodate any such request.

H8.6 As soon as reasonably practicable after the DCC becomes aware of any Unplanned Maintenance, the DCC shall notify the Technical Architecture and Business Architecture Sub-Committee, Parties and (insofar as they are likely to be affected by such Unplanned Maintenance) Registration Data Providers of such Unplanned Maintenance (and shall provide information equivalent to that provided in respect of Planned Maintenance pursuant to Section H8.4).

H8.7 During the period of any Planned Maintenance or Unplanned Maintenance, the DCC shall provide Parties and (insofar as they are likely to be affected by such maintenance) Registration Data Providers with details of its duration and the expected disruption to Services to the extent they differ from the information previously provided.

DCC Internal System Changes

H8.8 Where the DCC is proposing to make a change to DCC Internal Systems, the DCC shall:

- (a) undertake an assessment of the likely impact on:
 - (i) Parties in respect Users of any potential disruption to Services; and/or
 - ~~(i)~~ RDPs in relation to the sending or receipt of data pursuant to Section E

(Registration Data).

that may arise as a consequence of the Maintenance required to implement the contemplated change;

- (b) where such assessment identifies that there is a Material Risk of disruption to Parties and/or RDPs Services, consult with Parties and/or RDPs (as applicable) Users and with the Technical Architecture and Business Architecture Sub-Committee regarding such risk;
- (c) provide the Parties and RDPs Users the opportunity to be involved in any testing of the change to the DCC Internal Systems prior to its implementation; and
- (d) undertake an assessment of the likely impact of the contemplated change upon the security of the DCC Total System, Users' Systems and Smart Metering Systems and the Systems of Parties and/or RDPs.

Release Management

H8.9 The DCC shall ensure that it plans, schedules and controls the building, testing and deployment of releases of IT updates, procedures and processes in respect of the DCC Internal Systems and/or the Parse and Correlate Software in accordance with a policy for Release Management (the “**DCC Release Management Policy**”).

H8.10 The DCC shall ensure that the DCC Release Management Policy:

- (a) defines the scope of the matters that are to be subject to the policy in a manner consistent with the Service Management Standards;
- (b) includes a mechanism for setting priorities for different types of such matters;
- (c) defines periods of change-freeze where no such matters may be implemented; and
- (d) defines periods of notice to be given to Parties and RDPs the Users prior to the implementation of such matters.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H8.11 The DCC shall make the DCC Release Management Policy available to Parties, RDPsUsers and ~~to~~ the Technical Architecture and Business Architecture Sub-Committee. The DCC shall consult with Parties, RDPsUsers and the Technical Architecture and Business Architecture Sub-Committee before making any changes to the DCC Release Management Policy.

H8.12 The DCC's obligation under Section H8.11 is in addition to its obligations in respect of Planned Maintenance and changes to DCC Internal Systems to the extent that the activity in question involves Planned Maintenance or changes to DCC Internal Systems.

Self-Service Interface and Service Desk: General

H8.13 Each User shall take reasonable steps ~~use its reasonable endeavours~~ to access the information it needs, and to seek to resolve any queries it may have, via the Self-Service Interface in the first instance. A User shall only contact the Service Desk where it cannot reasonably obtain the information it needs, or resolve its query, via the Self-Service Interface.

H8.14 A Party that is not a User will be unable to access the Self-Service Interface, but may contact the Service Desk.

Self-Service Interface

H8.15 The DCC shall maintain and keep up-to-date an interface (the **Self-Service Interface**) which:

- (a) complies with the specification required by the Self-Service Interface Design Specification;
- (b) is made available to Users in accordance with the Self-Service Interface Code of Connection via DCC Gateway Connections; and
- (c) allows each User Users to access the information described in Section H8.16 as being accessible to that User (and also allows other Users to access that information to the extent permitted by the first User in accordance with the

Self-Service Interface Design Specification).

H8.16 The Self-Service Interface must (as a minimum) allow the following categories of User to access the following:

- (a) the Smart Metering Inventory, which shall be available to all Users and capable of being searched by reference to the following (provided that there is no requirement for the DCC to provide information held on the inventory in respect of Type 2 Devices other than IHDs):
 - (i) the Device ID, in which case the User should be able to extract all information held in the inventory in relation to (I) that Device, (II) any other Device Associated with the first Device, (III) any Device Associated with any other such Device; and (IV) any Device with which any of the Devices in (I), (II) or (III) is Associated;
 - (ii) the MPAN or MPRN, in which case the User should be able to extract all information held in the inventory in relation to the Smart Meter to which that MPAN or MPRN relates, or in relation to any Device Associated with that Smart Meter or with which it is Associated;
 - (iii) post code and premises number or name, in which case the User should be able to extract all information held in the inventory in relation to the Smart Meters for the MPAN(s) and/or MPRN linked to that postcode and premises number or name, or in relation to any Device Associated with those Smart Meters or with which they are Associated;
 - (iv) the UPRN (where this has been provided as part of the Registration Data), in which case the User should be able to extract all information held in the inventory in relation to the Smart Meters for the MPAN(s) and/or MPRN linked by that UPRN, or in relation to any Device Associated with those Smart Meters or with which they are Associated;
- (b) a record of the Service Requests and Signed Pre-Commands sent by each User, and of the Acknowledgments, Pre-Commands, Service Responses and Alerts

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

received by that User (during a period of no less than three months prior to any date on which that record is accessed), which shall be available only to that User;

- (c) a record, which (subject to the restriction in Section I1.4 (User Obligations)) shall be available to all Users:
 - (i) of all 'Read Profile Data' and 'Retrieve Daily Consumption Log' Service Requests in relation to each Smart Meter (or Device Associated with it) that were sent by any User during a period of no less than three months prior to any date on which that record is accessed; and
 - (ii) including, in relation to each such Service Request, a record of the type of the Service Request, whether it was successfully processed, the time and date that it was sent to the DCC, and the identity of the User which sent it;
- (d) the Incident Management Log, for which the ability of Users to view and/or amend data shall be as described in Section H9.4 (Incident Management Log);
- (e) the CH Order Management System, which shall be available to all Users;
- (f) the following information in respect of the SM WAN, which shall be available to all Users (and which shall be capable of interrogation by post code and postal outcode):

(i) _____ whether a Communications Hub Function installed in a premises at any given location:

(A) _____ is expected to be able to connect to the SM WAN;

(B) _____ is expected to be able to connect to the SM WAN from a particular date before 1 January 2021, in which case the date shall be specified; or

~~(A)~~(C) _____ cannot be confirmed as being able to connect to the SM WAN before 1 January 2021;

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

~~(ii) any locations included within a geographical area which is for the time being the subject of a Service Exemption Category 2 (as defined in the DCC Licence), and (where applicable) the date from which such locations will cease to be so included;~~

~~(iii)~~(ii) any known issues giving rise to poor connectivity at any given location (and any information regarding their likely resolution); and

~~(iv)~~(iii) any requirement to use a particular WAN Variant (and, where applicable, in combination with any particular Communications Hub Auxiliary Equipment) for any given location in order that the Communications Hub will be able to establish a connection to the SM WAN;

(g) additional information made available by the DCC to assist with the use of the Services and diagnosis of problems, such as service status (including information in respect of Planned Maintenance and Unplanned Maintenance) and frequently asked questions (and the responses to such questions), which shall be available to all Users; and

(h) anything else expressly required by a provision of this Code.

H8.17 Without prejudice to the requirements of Sections H8.16(b) and (c), to the extent that the Self-Service Interface does not allow a User to access a record of the information referred to in those Sections in respect of the preceding 7 years, then:

(a) subject (in the case of the information referred to in Section H8.16(c)) to the restriction in Section II.4 (User Obligations), that User shall be entitled to request such information from the DCC; and

(b) the DCC shall provide such information to that User as soon as reasonably practicable following such request.

H8.18 The DCC shall ensure that the Self-Service Interface is available at all times (subject to Planned Maintenance undertaken in accordance with Section H8.3).

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Service Desk

H8.19 The DCC shall ensure that a team of its representatives (the **Service Desk**) is available to be contacted as follows:

- (a) the Service Desk shall be contactable via the following means (to be used by Parties and Registration Data Providers, to the extent available to them, in the following order of preference, save as otherwise provided for in the Incident Management Policy):
 - (i) the Self-Service Interface;
 - (ii) a dedicated email address published on the DCC Website; and
 - (iii) a dedicated telephone number published on the DCC Website;
- (b) the Service Desk can be used by Parties to seek resolution of queries relating to the Services (provided that Users shall seek resolution via the Self-Service Interface in the first instance); and
- (c) the Service Desk can be used by Incident Parties that are not Users to raise Incidents (or by Users, where the Incident Management Log is not available via the Self-Service Interface, to raise or provide information in respect of Incidents), which the DCC shall then reflect in the Incident Management Log.

H8.20 The DCC shall ensure that the Service Desk is available at all times, and shall provide alternative arrangements (a different telephone number and email address) where the usual Service Desk is not available. Where a different telephone number and email address is to be used, the DCC shall publish details of the alternative number and address at least 20 Working Days in advance.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H9 INCIDENT MANAGEMENT

Incident Management Policy

H9.1 The Incident Management Policy must (as a minimum) make provision for the following matters:

- (a) raising an Incident by recording it in the Incident Management Log;
- (b) categorisation of Incidents into 5 categories of severity (“**Incident Category 1, 2, 3, 4 and 5**” respectively, such that Incident Category 1 is the most severe and Incident Category 5 the least);
- (c) prioritisation of Incidents, and (in those cases where the DCC is responsible for resolving an Incident) the time period within which an Incident in each Incident Category should be resolved (the “**Target Resolution Time**”);
- (d) prioritising and timescale for closure of Problems;
- (e) allocation of responsibility for Incidents and Problems in accordance with Section H9.2;
- (f) identification of other interested persons who are to be kept informed regarding Incidents;
- (g) courses of action to be undertaken in seeking to resolve Incidents and close Problems, including the need to update the Incident Management Log to record activity carried out (or planned to be carried out);
- (h) rules for the escalation of Incidents;
- (i) rules for the declaration of a Major Incident, and for the appointment of managers to coordinate resolution of Major Incidents;
- (j) rules for the closure of a resolved Incident;
- (k) rules for opening and closing Problem records by the DCC;

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (l) rules for reopening closed Incidents; and
- (m) describe the roles and responsibilities of the following persons in respect of different types of Incident: Users, Eligible Subscribers, DCC Gateway Parties and Registration Data Providers (such persons being the "Incident Parties").

Incident and Problem Management Responsibility

H9.2 The Incident Management Policy must allocate responsibility for resolution of Incidents and closure of Problems in accordance with the following principles:

- (a) where an Incident Party becomes aware of an Incident that is not yet logged on the Incident Management Log (or, if logged, is incorrectly logged as closed), and:
 - (i) where such Incident is reasonably capable of being resolved via the Self-Service Interface or via a Service Request which that Incident Party has the right to send, that Incident Party shall exercise such rights with a view to resolving the Incident;
 - (ii) where the CH Support Materials are relevant to the Incident and require the Incident Party to take any steps prior to raising an Incident, that Incident Party shall take such steps with a view to resolving the Incident; or
 - (iii) where the Incident Party is a Supplier Party and it is already at the premises when it first becomes aware of the Incident, and to the extent the Incident is caused by a Communications Hub and is not capable of being resolved via communications over the SM WAN, then that Incident Party shall be responsible for resolving that Incident;
- (b) subject to Section H9.2(a), the DCC shall be responsible for resolving Incidents and closing Problems to the extent they are caused by:
 - (i) the DCC Systems;

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (ii) the Parse and Correlate Software; or
- (iii) a Communications Hub, and are capable of being resolved via communications over the SM WAN;
- (c) subject to Section H9.2(a), the Lead Supplier for a Communications Hub shall be responsible for resolving Incidents and closing Problems to the extent they are caused by that Communications Hub and not capable of being resolved or closed via communications over the SM WAN;
- (d) subject to Section H9.2(a), the Responsible Supplier for a Smart Metering System shall be responsible for resolving Incidents and closing Problems to the extent caused by Devices (other than the Communications Hub) forming part of that Smart Metering System;
- (e) in the case of Incidents arising in respect of the exchange of Data under Section E (Registration Data):
 - (i) the relevant Registration Data Provider shall be responsible for resolving those Incidents arising on its side of the Registration Data Interface; and
 - (ii) the DCC shall be responsible for resolving all other such Incidents; and
- (f) in the case of Incidents other than those referred to elsewhere in this Section H9.2, the Incident Party assigned responsibility in accordance with the Incident Management Policy shall be responsible for resolving the Incident.

Incident Management Log

H9.3 The DCC shall maintain and keep up-to-date an electronic log (the **Incident Management Log**) that records the following in respect of each Incident:

- (a) a unique reference number (to be allocated to each Incident that is identified by, or reported to, the DCC);
- (b) the date and time that the Incident was identified by, or reported to, the DCC;

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) the nature of the Incident and the location at which it occurred;
- (d) whether the Incident was identified by the DCC, or otherwise the person that reported the Incident to the DCC;
- (e) the categorisation of the Incident in accordance with the Incident Management Policy;
- (f) the person to whom the Incident has been allocated for resolution;
- (g) the course of action to be taken, or taken, to resolve the Incident;
- (h) the DCC's Good Industry Practice assessment of which Incident Parties and/or Services are affected by the Incident;
- (i) details of any communications with Incident Parties in respect of the Incident;
- (j) comments regarding any mitigating circumstances regarding the Incident;
- (k) the potential impact of the Incident on the DCC's ability to meet the Target Service Levels;
- (l) the current status of the Incident, and (once applicable) the date and time that the Incident was closed; and
- (m) a reference to any related Problem logged.

H9.4 The following shall apply in respect of the Incident Management Log:

- (a) (subject to paragraphs (c) and (d) below) the DCC shall provide Users with the ability to view and amend the Incident Management Log via the Self Service Interface;
- (b) (subject to paragraphs (c) and (d) below) the DCC shall provide Incident Parties that are not Users with the ability to obtain information from, and report information which the DCC shall then add to, the Incident Management Log via the Service Desk;

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) only the following Incident Parties shall be entitled to view or obtain information from the Incident Management Log in respect of an Incident:
 - (i) the Incident Party that raised the Incident;
 - (ii) the Incident Party that is assigned responsibility for resolving the Incident;
 - (iii) (subject to any further rules in the Incident Management Policy) the following persons:
 - (A) the Lead Supplier for each Communications Hub that is affected by the Incident;
 - (B) the Responsible Supplier for each Smart Metering System that is affected by the Incident;
 - (C) the Electricity Distributor or Gas Transporter (as applicable) for each Smart Metering System that is affected by the Incident;
 - (D) the DCC Gateway Party for, and any Party notified to the DCC in accordance with Section H15.17 (Use of a DCC Gateway Connection) as entitled to use, a DCC Gateway Connection shall be able to view matters relating to any Incident affecting that DCC Gateway Connection;
 - (E) the Registration Data Providers entitled to use a DCC Gateway Connection as provided for in Section E3 (DCC Gateway Connections for Registration Data Providers) shall be able to view matters relating to any Incident affecting that DCC Gateway Connection; and
 - (F) any other Incident Party that is reasonably likely to be affected by the Incident;
- (d) only the following Incident Parties shall be entitled to amend and report information to be added to the Incident Management Log:

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (i) the Incident Party that raised the Incident;
- (ii) the Incident Party that is assigned responsibility for resolving the Incident; and
- (iii) (subject to any further rules in the Incident Management Policy) the following persons:
 - (G) the Lead Supplier for each Communications Hub that is affected by the Incident (but such amending and reporting shall be limited to matters relating to the Communications Hub Function); and
 - (H) the Responsible Supplier(s) for each Smart Metering System that is affected by the Incident (but such amending and reporting shall exclude matters relating to the Communications Hub Function); and
- (e) to the extent that an Incident Party does not have the necessary rights in accordance with paragraph (d) above to amend the Incident Management Log, an Incident Party shall report the matter to the DCC, which shall then amend the Incident Management Log to reflect such matters.

Access to data regarding Problems

H9.5 Where an Incident refers to a Problem, the DCC or any Incident Party may request that the person assigned responsibility for the Problem supplies to the DCC or Incident Party making the request reasonable information regarding the Problem, provided that information in respect of any other Incident shall only be supplied to an Incident Party where that Incident Party would be allowed access to that information in accordance with Section H9.4.

Addition of Incidents to the Incident Management Log

H9.6 Where an Incident Party becomes aware of an Incident that is not yet logged on the Incident Management Log (or, if logged, is incorrectly logged as closed):

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(a) (where the Incident Party is a User) to the extent such Incident is reasonably capable of being resolved via the Self-Service Interface or via a Service Request which that User has the right to send, then the User shall exercise such rights with a view to resolving the Incident;

~~(b)~~ (where the Incident Party is an RDP) to the extent such Incident is reasonably capable of being resolved by re-submitting a subset of Registration Data in accordance with the Registration Data Interface Documents, then the RDP shall re-submit such Data; or

~~(b)(c)~~ where ~~neither paragraph (a) nor (b) above apply~~ ~~the Incident Party is not a User~~ (or to the extent the Incident ~~is not reasonably capable of being resolved in such manner, or~~ is not resolved despite ~~compliance with paragraph (a) or (b) above~~ ~~such exercise of rights~~), then the Incident Party shall add the Incident to the Incident Management Log (or, if incorrectly logged as closed, reopen the Incident) via the Self-Service Interface (or, in the case of non-Users, the Service Desk).

H9.7 Where the DCC becomes aware of an Incident that is not yet logged on the Incident Management Log (or, if logged, is incorrectly logged as closed), then the DCC shall add the Incident to the Incident Management Log (or, if incorrectly logged as closed, reopen the Incident).

Resolving Incidents and Closing Problems

H9.8 Where an Incident has been added to the Incident Management Log (or reopened) pursuant to Section H9.6 or H9.7, then (until such time as that Incident is closed) the DCC and each relevant Incident Party shall each take all the steps allocated to them under and in accordance with the Incident Management Policy in respect of an Incident of the relevant type, so as to:

(a) in the case of Incidents for which an Incident Party is responsible, resolve the Incident as soon as reasonably practicable; or

(b) in the case of Incidents for which the DCC is responsible, resolve the Incident in

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

accordance with the applicable Target Resolution Time.

H9.9 Where a Problem has been assigned to the DCC or an Incident Party, then (until such time as that Problem is closed) the DCC and each relevant Incident Party shall each take all the steps allocated to it under and in accordance with the Incident Management Policy so as to close the Problem in accordance with priority for resolution and closure set out in the Incident Management Policy.

Major Incident Notification and Reports

H9.10 Where an Incident Party is identified as responsible for resolution of an Incident, and where that Incident Party considers (or should reasonably have considered) that the Incident constitutes a Major Incident, then such Incident Party shall notify the DCC of such fact (in accordance with the Incident Management Policy).

H9.11 Where the DCC becomes aware of a Major Incident, the DCC shall notify all Incident Parties that are likely to be affected by such Major Incident (in accordance with the Incident Management Policy).

H9.12 In the event of a Major Incident:

(a) where the DCC is responsible for resolving that Incident, each Incident Party shall provide the DCC with all reasonable assistance as the DCC may request; and

(b) where an Incident Party is responsible for resolving that Incident, the DCC and all other Incident Parties shall provide all reasonable assistance to the Incident Party responsible for resolving that Incident as such Incident Party may request,

(in each case) in relation to the resolution of that Incident, including as set out in the Incident Management Policy.

H9.13 Within two Working Days following resolution of a Major Incident, the DCC or the Incident Party responsible for resolving that Major Incident shall provide a summary report to the Panel in respect of that Major Incident. Such summary report must include (as a minimum):

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the nature, cause and impact (and likely future impact) of the Major Incident (including, where the DCC is responsible for resolving the Major Incident, details of the impact the Major Incident had on provision of the Services and over what period, and details of any Data that may have been lost); and
- (b) the action taken in the resolution of the Major Incident.

H9.14 Within 20 Working Days following resolution of a Major Incident, the DCC or Incident Party responsible for resolving that Major Incident shall conduct a review regarding that Major Incident and its resolution, and shall report to the Panel and the Authority (and, on request, the Secretary of State) on the outcome of such review. Such report must include (as a minimum):

- (a) a copy of the summary report produced in respect of the Major Incident pursuant to Section H9.13;
- (b) (where the DCC is responsible for resolving the Major Incident) any Services which were not restored within the Target Resolution Time for the Major Incident;
- (c) (where the DCC is responsible for resolving the Major Incident) where any Services were not restored within the Target Resolution Time, the reason why this was the case and the steps the DCC is taking to prevent the re-occurrence of such an event;
- (d) a review of the response to the Major Incident and its effectiveness;
- (e) any failures by Incident Parties to comply with their obligations under Energy Licences and/or this Code that caused or contributed to the Major Incident or its consequences;
- (f) (where the DCC is responsible for resolving the Major Incident) whether there is likely to be a reduction (and, to the extent reasonably capable of being determined at that time, the amount of the anticipated reduction) in the DCC's External Costs (as defined in the DCC Licence) arising as a consequence of the DCC Service Providers failing to achieve a restoration of any Services within

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the Target Resolution Time; and

- (g) any Modifications that could be made to this Code to mitigate against future Incidents and/or their consequences.

H9.15 The Panel shall make each report produced by the DCC pursuant to Section H9.14 available to the other Parties, subject to any redactions it considers necessary to avoid a risk of Compromise to the DCC Total System, User Systems, RDP Systems and/or Devices.

Disputes

H9.16 Where Disputes arise between the Incident Parties regarding whether or not the DCC and/or an Incident Party has complied with its obligations under this Section H9, then such Dispute shall be subject to determination by the Panel (which determination shall be final and binding).

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H10 BUSINESS CONTINUITY

Emergency Suspension of Services

H10.1 Section H10.2 applies in respect of any Party or RDP which has an established DCC Gateway Connection where, by virtue of the action or failure to act of that Party or RDP, or of any event occurring on or in relation to the Systems of that Party or RDP:

- (a) the DCC Systems are being Compromised to a significant extent; or
- (b) the DCC has reason to believe that there is an immediate threat of the DCC Systems being Compromised to a significant extent.

H10.2 Where this Section H10.2 applies, the DCC may, to the extent that it is necessary to do so in order to avoid or mitigate the potential impact of any Compromise to the DCC Systems, temporarily suspend:

- (a) in respect of a Party whose actions or Systems are giving rise to the actual or threatened Compromise:
 - (i) the provision (in whole or in part) of the Services to that Party;
 - (ii) the rights of that Party to receive (in whole or in part) the Services; and/or
 - (iii) the ability of that Party to use any DCC Gateway Connection;or
- (b) in respect of an RDP whose actions or Systems are giving rise to the actual or threatened Compromise, the ability of that RDP to use any DCC Gateway Connection.

H10.3 Where the DCC commences any temporary suspension of the provision of Services or rights, or of the ability to use a DCC Gateway Connection in accordance with Section H10.2, it shall promptly (and in any event within 24 hours) notify the Panel of the suspension and the reasons for it, and shall provide the Panel with such information relating to the suspension as may be requested.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H10.4 Where the Panel receives a notification in accordance with Section H10.3, it shall promptly consider the circumstances of the suspension, and:

- (a) shall either confirm the suspension, or determine that the suspension is to cease to have effect (in which case the suspended Services, rights or ability to use any DCC Gateway Connection shall be reinstated); and
- (b) may in either case give such directions as it considers appropriate:
 - (i) to the DCC in relation to the continuing suspension or the reinstatement of the Services, rights or ability to use any DCC Gateway Connection (as the case may be); and/or
 - (ii) to the Party or RDP whose Services, rights or ability to use any DCC Gateway Connection were suspended by the DCC, for the purpose of remedying any actual or potential cause of Compromise to the DCC Systems or for preventing its recurrence.

H10.5 The DCC shall comply with any direction given to it by the Panel in accordance with Section H10.4, and shall provide such reasonable support and assistance to the Party or RDP whose Services, rights or ability to use any DCC Gateway Connection were suspended by the DCC as that Party or RDP may request for the purpose of remedying any actual or potential cause of Compromise to the DCC Systems or for preventing its recurrence.

H10.6 A Party shall comply with any direction given to it by the Panel in accordance with Section H10.4.

H10.7 Each Electricity Network Party and each Gas Network Party shall ensure that its RDP shall (when acting in its capacity as the Network Party's RDP) comply with any direction given to it by the Panel in accordance with Section H10.4.

H10.8 Where the DCC or any Party or RDP which is directly affected by a decision of the Panel made pursuant to Section H10.4 disagrees with that decision, it may refer the matter to the Authority for its determination, which shall be final and binding for the purposes of this Code.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

The Business Continuity and Disaster Recovery Procedure

H10.9 Subject to Section H10.10, the DCC shall comply with the requirements of the Business Continuity and Disaster Recovery Procedure for the purposes of ensuring so far as reasonably practicable that:

- (a) there is no significant disruption to the provision of any of the Services by the DCC; and
- (b) where there is any such significant disruption, the provision of those Services is restored as soon as is reasonably practicable.

H10.10 Where, in the case of Disasters, taking a different course of action to following the BCDR Procedure would (in accordance with Good Industry Practice) be a more effective course of action in order to achieve the objectives set out in Section H10.9, then the DCC may take such steps to achieve such objectives (rather than complying with the BCDR Procedure). Where the DCC takes a course of action that does not comply with the BCDR Procedure, the DCC must inform the Panel as soon as possible thereafter of the steps taken and the reasons why the DCC considered that they were more effective.

Testing the Business Continuity and Disaster Recovery Procedure

H10.11 The DCC shall:

- (a) from time to time, and at least once each year, carry out a test of the operation of its disaster recovery and business continuity arrangements in order to assess whether the Business Continuity and Disaster Recovery Procedure remains suitable for achieving the objectives described at Section H10.9; and
- (b) following any such test, report to the Panel and the Authority on the outcome of the test, and on any proposals made by the DCC in relation to the Business Continuity and Disaster Recovery Procedure having regard to that outcome.

H10.12 Each Party shall provide the DCC with any such assistance and co-operation as it may reasonably request for the purpose of testing its disaster recovery and business

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

continuity arrangements and confirming the operation of the Business Continuity and Disaster Recovery Procedure.

Business Continuity and Disaster Recovery Targets

H10.13 The DCC shall, on the occurrence of a Disaster:

(a) take all reasonable steps to ensure that any and all affected Services are restored in accordance with the Target Resolution Time for a Major Incident; ~~and~~

(b) ensure ~~in any event~~ that ~~all affected those~~ Services are restored within eight hours of the occurrence of that Disaster (except in the case of a Disaster that directly affects a DCC Gateway Connection and where: (i) the DCC Gateway Party for that DCC Gateway Connection has not procured a backup DCC Gateway Connection; and (ii) the DCC can reasonably demonstrate that the Services could have been restored within eight hours if the DCC Gateway Party had procured a backup DCC Gateway Connection); and

~~(b)~~(c) ensure in any event that Services are restored such that the loss of Data arising as a consequence of the Disaster is not in excess of that prescribed by the relevant Service Provider Performance Measures.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H11 PARSE AND CORRELATE SOFTWARE

Provision of Parse and Correlate Software

H11.1 On receipt of a request to do so from any person, the DCC shall supply to that person a copy of the most recently released version of computer software (the “**Parse and Correlate Software**”) which:

- (a) has the functionality specified in Section H11.2;
- (b) has the characteristics specified in Section H11.3; and
- (c) is provided in the format specified in Section H11.4.

H11.2 The functionality specified in this Section H11.2 is that the software must enable any User to:

- (a) convert all Service Responses and Alerts into the format that is set out in respect of them in the Message Mapping Catalogue; and
- (b) confirm that any Pre-Command is substantively identical to its associated Critical Service Request.

H11.3 The characteristics specified in this Section H11.3 are that:

- (a) the software is written using the Java programming language; and
- (b) the software is capable of operating on the version of the Java Virtual Machine/Run-time Environment prevailing at the time at which the design of that version of the software was finalised.

H11.4 The format specified in this Section H11.4 is that the software:

- (a) is provided as both:
 - (i) an executable file which includes everything required to enable the software to be installed on the systems of the person to whom it is provided in such a manner as not to have a material adverse effect on the

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

operation of other software deployed within the same system environment; and

- (ii) source software code; and
- (b) can be confirmed, on receipt by the person to whom it is provided:
- (c) as having been provided by the DCC; and
 - (i) as being authentic, such that any tampering with the software would be apparent.

Maintenance of the Parse and Correlate Software

H11.5 The DCC shall:

- (a) maintain the Parse and Correlate Software supplied by it to any person so as to ensure that it at all times continues to have the functionality specified in Section H11.2; and
- (b) for that purpose develop and release to such persons, where it is reasonably necessary from time to time, new versions of the Parse and Correlate Software which shall have the characteristics specified in Section H11.3 and be provided in the format specified in Section H11.4.

Development of the Parse and Correlate Software

H11.6 When proposing to develop any version of the Parse and Correlate Software, the DCC shall consult with Users, having regard in particular to their views in relation to:

- (a) the need for a new version of the software;
- (b) the potential impact of the proposed new version of the software on the security of the DCC Total System, User Systems and Smart Metering Systems;
- (c) the design of the software generally; and
- (d) the required operational performance of the proposed version of the software on

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

a standard system configuration specified by the DCC for the purposes of the consultation.

H11.7 Following any consultation with Users, the DCC shall inform all Users of the design of the version of the Parse and Correlate Software that it intends to develop.

H11.8 Before supplying any version of the Parse and Correlate Software to any person, the DCC shall:

- (a) ensure that that version of the software has been adequately tested for the purpose of ensuring that it satisfies the requirements of Sections H11.2 to H11.4;
- (b) provide suitable opportunities for Acceptance Testing of that version of the software;
- (c) take reasonable steps~~use its reasonable endeavours~~ to ensure that any User who wishes to participate in that Acceptance Testing is able to do so; and
- (d) ensure that the version of the software has been subject to a software code review, by an individual or organisation with the professional competence to carry out such a review, for the purpose of identifying any vulnerabilities in the code that were not intended as a feature of its design.

Provision of Support and Assistance to Users

H11.9 The DCC shall, having consulted with Users, determine two Application Servers in respect of which it will provide support for the executable file referred to in Section H11.4(a)(i).

H11.10 Any User may appeal to the Panel a decision of the DCC made under Section H11.9, in which case:

- (a) the Panel shall determine the Application Servers in respect of which the DCC must provide support; and
- (b) the determination of the Panel shall be final and binding for the purposes of this

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Code.

H11.11 The DCC shall make available to each person to whom any version of the Parse and Correlate Software is provided a copy of an installation guide and release notes relevant to that version.

H11.12 Requests by any User for the DCC to provide that User with further assistance in relation to its use or implementation of the Parse and Correlate Software shall be made in such format as the DCC may specify from time to time, and shall be submitted to the DCC. Following receipt of any such request (or purported request), the DCC shall:

- (a) where the request is incomplete or the DCC reasonably requires further information in order to assess the request, notify the User that this is the case and provide reasonable assistance to the User in re-submitting its request;
- (b) once the DCC has received all the information it reasonably requires in order to assess the request, confirm the reasonable terms upon which the DCC will provide the requested assistance (which terms may not be inconsistent with the provisions of this Code) and the Charges payable in respect of the same; and
- (c) once the Party has agreed to such terms and to pay such Charges, provide the requested assistance to the User in accordance with such terms.

H11.13 Section H11.12 does not apply to the provision of assistance that is the responsibility of the DCC in accordance with the Incident Management Policy. The assistance referred to in Section H11.12 may include in particular assistance in respect of:

- (a) the development and testing of, and the provision of support for, a version of the Parse and Correlate Software which is capable of operating on a version of the Java Virtual Machine/Run-time Environment other than that prevailing at the time at which the design of the most recently released version of the Parse and Correlate Software was finalised;
- (b) the development and testing of, and the provision of support for, a version of the Parse and Correlate Software which meets any other User-specific requirements; and

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) the provision, in respect of more than two Application Servers, of support for the executable file referred to in Section H11.4(a)(i).

Separation of Resources

H11.14 The DCC shall ensure that no staff or other resources of its own or of any third party which are directly used in the development of the Parse and Correlate Software are resources which are also used in the development or provision of the Transform functionality.

Right to Use the Parse and Correlate Software

H11.15 The DCC shall ensure that any person shall have the right to use the Parse and Correlate Software source software code on a non-proprietary and royalty-free basis, except insofar as royalties are due in respect of any Intellectual Property Rights the use of which is mandated by the Code.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H12 INTIMATE COMMUNICATIONS HUB INTERFACE SPECIFICATION

Maintenance of the ICHIS

- H12.1 The DCC shall maintain the ICHIS and ensure that the ICHIS meets the requirements of Section H12.2 and H12.3.
- H12.2 The requirements of this Section H12.2 are that the ICHIS describes a specification for the physical interface (including the electrical and data connection) between:
- (a) the Communications Hub (which shall incorporate the male components of the physical interface); and
 - (b) either a Smart Meter or a Communications Hub Hot Shoe (which shall, in either case, incorporate the female components of the physical interface).
- H12.3 The requirement of this Section H12.3 is that the specification described by the ICHIS only requires the use of tangible and intangible property (including physical components and Intellectual Property Rights) that is readily available on a reasonable and non-discriminatory basis.

Publication of the ICHIS

- H12.4 The DCC shall publish the ICHIS on the DCC Website, and ensure that all persons are free to use the ICHIS without charge (whether for the purposes of this Code or otherwise); provided that the DCC shall limit its liability to persons other than the Parties on the same terms as apply in respect of the ICHIS under Section M2 (Limitations of Liability).

Consultation Regarding ICHIS

- H12.5 The DCC shall keep the ICHIS under review to ascertain whether the ICHIS remains fit for the purposes envisaged by this Code. The DCC may from time to time at its discretion (and shall where directed to do so by the Panel) consult with Parties as to whether they consider that the ICHIS remains fit for the purposes envisaged by this Code.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H12.6 Following each consultation pursuant to Section H12.5, the DCC shall publish on the DCC Website (and notify all Parties of) a report on the outcome of such consultation, setting out:

- (a) the process undertaken in respect of such consultation;
- (b) whether (and, if so, how and from what implementation date) the DCC proposes to amend the ICHIS as a result of such consultation;
- (c) a detailed summary of the consultation responses received from Parties, identifying in particular those responses that raised objections to the position adopted by the DCC;
- (d) the DCC's rationale for the position it has adopted;
- (e) the costs and expenses that are likely to arise as a result of the position adopted by the DCC (including the costs and expenses likely to arise as a result of any modifications that will be required to be made to Smart Meters, Communications Hubs and Communications Hub Hot Shoes); and
- (f) the steps it has taken (including any testing or prototype development) to ensure that the ICHIS (if amended as proposed) remains fit for the purposes envisaged by this Code.

Referral to the Authority

H12.7 Within 10 Working Days following notification by the DCC to a Party of a report published in accordance with Section H12.6, that Party may refer the report to the Authority to consider whether the consultation to which that report relates was undertaken in accordance with the DCC's obligations under this Code or whether the notice period provided for implementation of the amendment was reasonable given the circumstances.

H12.8 Where the Authority determines that the relevant consultation was not undertaken in accordance with the DCC's obligations under this Code or that the notice period provided for implementation of the amendment was not reasonable given the

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

circumstances, the DCC shall repeat the consultation and comply with any directions made by the Authority in respect of the same. Where the Authority determines both (where both of the following were referred to the Authority) or either (where only one of the following was so referred) that:

- (a) the relevant consultation was undertaken in accordance with the DCC's obligations under this Code; and/or
- (b) the notice period provided for implementation of the amendment was reasonable given the circumstances,

the consultation and proposed course of action shall stand.

Amendments to the ICHIS

H12.9 No amendment may be made to the ICHIS unless:

- (a) the DCC has first undertaken such prototype development and testing in respect of the proposed amendment as the DCC reasonably considers necessary to ensure that the ICHIS is fit for the purposes envisaged by this Code;
- (b) the DCC has first consulted with Parties regarding the proposed amendment and proposed date of implementation, published a report on the outcome of such consultation, and notified the Parties of such publication (all in accordance with Section H12.6); and
- (c) such report has not been referred to the Authority in accordance with Section H12.7, or the Authority has determined both (where both of the following were so referred) or either (where only one of the following was so referred) that:
 - (i) the relevant consultation was undertaken in accordance with the DCC's obligations under this Code; and/or
 - (ii) the notice period provided for implementation of the amendment was reasonable given the circumstances.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H13 PERFORMANCE STANDARDS AND REPORTING

Code Performance Measures

H13.1 Each of the following performance measures constitute a Code Performance Measure (to which the following Target Service Level and Minimum Service Level will apply, measured over the following Performance Measurement Period):

No.	Code Performance Measure	Performance Measurement Period	Target Service Level	Minimum Service Level
1	Percentage of On-Demand Service Responses delivered within the applicable Target Response Time.	monthly	99%	96%
2	Percentage of Future-Dated Service Responses delivered within the applicable Target Response Time.	monthly	99%	96%
3	Percentage of Alerts delivered within the applicable Target Response Time.	monthly	99%	96%
4	Percentage of Incidents which the DCC is responsible for resolving and which fall within Incident Category 1 or 2 that are resolved in accordance with the Incident Management Policy within the Target Resolution Time.	monthly	100%	85%
5	Percentage of Incidents which the DCC is responsible for resolving and which fall within Incident Category 3, 4 or 5 that are resolved in accordance with the Incident Management Policy within the Target Resolution Time.	monthly	90%	80%
6	Percentage of time (in minutes) when the Self-Service Interface is available to be accessed by all Users during the Target Availability Period.	monthly	99.5%	98%

Service Provider Performance Measures

H13.2 The DCC may modify the Reported List of Service Provider Performance Measures

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

where it has:

- (a) undertaken reasonable consultation with the Parties regarding the proposed modification;
- (b) given due consideration to, and taken into account, any consultation responses received; and
- (c) provided to the Panel, the Parties, the Authority and (on request) the Secretary of State a statement of its reasons for the modification together with copies of any consultation responses received,
- (d) and as soon as reasonably practicable following any such modification, the DCC shall provide an up-to-date copy of the Reported List of Service Provider Performance Measures to the Panel, the Parties, the Authority and (on request) the Secretary of State.

H13.3 Prior to agreeing any changes to the DCC Service Provider Contracts that will alter the Service Provider Performance Measures, the DCC shall:

- (a) undertake reasonable consultation with the Panel and Parties regarding such changes;
- (b) give due consideration to, and take into account, any consultation responses received; and
- (c) provide to the Panel, the Parties, the Authority and (on request) the Secretary of State a statement of its reasons for proposing to agree such changes.

Reporting

H13.4 The DCC shall, within 25 Working Days following the end of each Performance Measurement Period, produce a report setting out the Service Levels achieved in respect of each Performance Measure. Such report must identify:

- (a) those Performance Measures (if any) for which the Service Level was less than the Target Service Level and/or the Minimum Service Level;

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) where a Service Level is less than the Target Service Level, the reason for the Service Level achieved;
- (c) where a Service Level is less than the Minimum Service Level, the steps the DCC is taking to prevent the re-occurrence or continuation of the reason for the Service Level achieved; and
- (d) any anticipated reductions in the DCC's Internal Costs and/or External Costs (as both such expressions are defined in the DCC Licence) arising as a consequence of the DCC Service Providers failing to achieve the Target Service Levels in respect of the Service Provider Performance Measures.

H13.5 A copy of the report produced pursuant to Section H13.4:

- (a) shall be provided by DCC, immediately following its production, to the Panel, the Parties, the Authority and (on request) the Secretary of State; and
- (b) may be provided by the Panel, at its discretion, to any other person.

Performance Measurement Methodology

H13.6 The DCC shall:

- (a) establish and periodically review the Performance Measurement Methodology in accordance with Good Industry Practice and in consultation with the Panel, the Parties and the Authority; and
- (b) as soon as reasonably practicable following any modification which it may make to the Performance Measurement Methodology, provide an up to date copy of the Performance Measurement Methodology to the Panel, the Parties, the Authority and (on request) the Secretary of State.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H14 TESTING SERVICES

General Testing Requirements

- H14.1 The DCC shall provide the following testing services (the “**Testing Services**”):
- (a) User Entry Process Tests;
 - (b) SMKI and Repository Entry Process Tests;
 - (c) Device and User System Tests;
 - (d) Modification Proposal implementation testing (as described in Section H14.34);
and
 - (e) DCC Internal Systems change testing (as described in Section H14.36).
- H14.2 The DCC shall make the Testing Services available, and shall provide the Testing Services:
- (a) in accordance with the Enduring Testing Approach Document and Good Industry Practice; and
 - (b) between 08:00 hours and 18.00 hours Monday to Friday, and at any other time that it is reasonably practicable to do so (including where any DCC Service Provider has agreed to provide services at such time).
- H14.3 The DCC shall act reasonably in relation to its provision of the Testing Services and shall facilitate the completion (in a timely manner) of tests pursuant to the Testing Services by each such person which is entitled to do so in accordance with this Section H14. Each Testing Participant shall comply with the Enduring Testing Approach Document with respect to the relevant Testing Services. The DCC shall publish on the DCC Website a guide for Testing Participants describing which persons are eligible for which Testing Services, and on what basis (including any applicable Charges).
- H14.4 To the extent it is reasonably practicable to do so, the DCC shall allow persons who are eligible to undertake tests pursuant to the Testing Services to undertake those tests

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

concurrently, or shall (otherwise) determine, in a non-discriminatory manner, the order in which such persons will be allowed to undertake such tests. Where any Testing Participant disputes the order in which persons are allowed to undertake tests pursuant to this Section H14.4, then the Testing Participant may refer the matter to the Panel. Where the DCC or any Testing Participant wishes to do so, it may refer the Panel's decision on such matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

H14.5 Each Party which undertakes tests pursuant to the Testing Services shall do so in accordance with Good Industry Practice. To the extent that such tests involve a Party accessing the DCC's premises, the Party shall do so in compliance with the site rules and reasonable instructions of the DCC.

H14.6 The DCC shall be liable for any loss of or damage to the equipment of Testing Participants (fair wear and tear excepted) that occurs while such equipment is within the DCC's possession or control pursuant to the Testing Services; save to the extent that such loss or damage is caused by a breach of this Code (or the equivalent agreement under Section H14.7) by the Testing Participant.

H14.7 Where (in accordance with this Section H14) a person that is not a Party is eligible to undertake a category of Testing Services as a Testing Participant, the DCC shall not provide those Testing Services to that person unless it is bound by an agreement entered into with the DCC pursuant to this Section H14.7. Where a person who is a Testing Participant (but not a Party) requests a Testing Service, the DCC shall offer terms upon which such Testing Service will be provided. Such offer shall be provided as soon as reasonably practicable after receipt of the request, and shall be based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances).

General: Forecasting

H14.8 Each Testing Participant shall provide the DCC with as much prior notice as is reasonably practicable of that Testing Participant's intention to use any of the following Testing Services: User Entry Process Tests, SMKI and Repository Entry

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Process Tests, and Device and User System Tests.

General: Systems and Devices

H14.9 The DCC shall provide such facilities as are reasonably required in relation to the Testing Services, including providing:

- (a) for access to the Testing Services either at physical test laboratories and/or remotely; and
- (b) a reasonable number of Devices for use by Testing Participants at the DCC's physical test laboratories which Devices are to be of the same Device Models as those selected pursuant to the Device Selection Methodology and/or such other Device Models as the Panel approves from time to time (provided that, where Test Stubs (or other alternative arrangements) were used then such Tests Stubs (or other alternative arrangements) will be used in place of Devices until the DCC agrees with the Panel which Device Models to use).

H14.10 Without prejudice to Section H14.9(b), the DCC shall allow Testing Participants to use Devices they have procured themselves when using the Testing Services. The DCC shall make storage facilities available at the DCC's physical test laboratories for the temporary storage by Testing Participants of such Devices (for no more than 30 days before and no more than 30 days after completion of the Testing Service for which such Devices may be expected to be used). The DCC shall ensure that such storage facilities are secure and only capable of access by persons authorised by the relevant Testing Participant.

General: SMKI Test Certificates

H14.11 The following shall apply in relation to Test Certificates:

- (a) the DCC shall, in accordance with the Enduring Testing Approach Document, issue and make available to Testing Participants copies of such Test Certificates as are reasonably necessary for the purposes of the Testing Participants undertaking Testing Services and testing pursuant to Section T (Testing During

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Transition);

- (b) the DCC shall only use Test Certificates for the purposes envisaged by this Section H14.11 (and shall not use actual Certificates when providing the Testing Services or undertaking tests pursuant to Section T (Testing During Transition), except to such extent as is approved, and subject to any conditions imposed, by the SMKI PMA);
- (c) each Testing Participant to which Test Certificates are made available pursuant to this Section H14.11 shall only use those Test Certificates for the purposes for which such Test Certificates are made available (and shall not use actual Certificates when undertaking the tests referred to in this Section H14.11);
- (d) each Testing Participant to which Test Certificates are made available pursuant to this Section H14.11 shall be entitled to make those certificates available to others provided that such others only use them for the purposes for which such certificates were made available to the Testing Participant;
- (e) the DCC shall ensure that the Test Certificates are clearly distinguishable from actual Certificates; and
- (f) the DCC shall act in accordance with Good Industry Practice in providing the Test Certificates;
- (g) each Testing Participant shall act in accordance with Good Industry Practice in using the Test Certificates; and
- (h) each Testing Participant hereby, subject to Section M2.1 (Unlimited Liabilities):
 - (i) waives all rights, remedies and claims it would otherwise have (whether for breach of contract, in tort or delict or otherwise) against the DCC in respect of the Test Certificates;
 - (ii) undertakes not to bring any claim against the DCC in respect of the Test Certificates; and

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (iii) where it makes the Test Certificates available to others, undertakes to ensure that no such others bring any claim against the DCC in respect of such Test Certificates.

User Entry Process Tests

H14.12 Parties seeking to become Users in accordance with Section H1 (User Entry Process) are entitled to undertake User Entry Process Tests.

H14.13 In respect of a Party seeking to become eligible as a User in a particular User Role, the purpose of the User Entry Process Tests is to test the capability of that Party and the Party's Systems to interoperate with the DCC and the DCC System, to the extent necessary in order that the Party:

- (a) has established a connection to the DCC User Interface via the Party's chosen DCC Gateway Connection;
- (b) can use the DCC User Interface for the purposes set out in Section H3.3 (Communications to be sent via DCC User Interface) in respect of the Services for which Users in that User Role are eligible; and
- (c) can use the Self-Service Interface for the purposes set out in Section H8 (Service Management, Self-Service Interface and Service Desk).

H14.14 The User Entry Process Tests will:

- (a) test the sending of communications from the proposed User System via the DCC System to be received by Devices and from Devices via the DCC System to be received by the proposed User System, recognising that such tests may involve a simulation of those Systems rather than the actual Systems;
- (b) be undertaken in accordance with the Common Test Scenarios Document; and
- (c) be undertaken using Devices selected and provided by the DCC as referred to in Section H14.9(b).

H14.15 Only Parties who the DCC considers meet any entry requirements (for a particular

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

User Role) set out in the Common Test Scenarios Document shall be entitled to undertake the User Entry Process Tests for that User Role.

H14.16 Where the DCC is not satisfied that a Party meets such entry requirements (for a particular User Role), that Party may refer the matter to the Panel for its determination. Where the Party disagrees with any such determination of the Panel, then the Party may refer the matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

H14.17 Each Party seeking to undertake the User Entry Process Tests shall develop its own test scripts and demonstrate how those test scripts meet the requirements of the relevant scenarios set out in the Common Test Scenarios Document. Each Party shall obtain the DCC's approval that such test scripts meet those requirements before the User Entry Process Tests can commence. Any disputes regarding the approval of such test scripts may be referred to the Panel for determination (which determination shall be final and binding for the purposes of this Code).

H14.18 Each Party will have the right to determine the sequencing of the tests that comprise the User Entry Process Tests; save to the extent that a particular sequence is mandated in the Common Test Scenarios Document.

H14.18A The DCC or the Party undertaking the User Entry Process Tests may suspend testing in accordance with the requirements set out in the Common Test Scenarios Document. Any dispute between the DCC and a Party regarding the suspension (or consequent resumption) of such testing may be referred to the Panel for its determination. Where the DCC or the Party disagrees with any such determination of the Panel, then the DCC or the Party may refer the matter to the Authority for its determination (which determination shall be final and binding for the purposes of this Code).

H14.19 A Party will have successfully completed the User Entry Process Tests (for a particular User Role), once the DCC considers that the Party has demonstrated that it has satisfied the requirements set out in the Common Test Scenarios Document for that User Role. Where requested by a Party, the DCC shall provide written

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

confirmation to the Party confirming whether or not the DCC considers that the Party has successfully completed the User Entry Process Tests (for a particular User Role).

H14.20 Where Systems have been proven to meet the requirements of this Code as part of one Party's successful completion of the User Entry Process Tests or tests under Section H14.32 that are equivalent to all or part of the User Entry Process Tests (and where the substance of the relevant part of the User Entry Process Tests have not changed in the interim), then:

- (a) any Party that has use of those Systems shall be entitled to submit proof to the DCC that this is the case when seeking to meet any applicable entry and/or exit requirements set out in the Common Test Scenarios Document; and
- (b) the DCC shall take into account such proof when considering whether such Party meets such entry and/or exit requirements.

H14.21 Where the DCC is not satisfied that a Party has successfully completed the User Entry Process Tests (for a particular User Role), that Party may refer the matter to the Panel for its determination. Where the Party disagrees with any such determination of the Panel, then the Party may refer the matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

SMKI and Repository Entry Process Tests

H14.22 Each Party or Registration Data Provider seeking to complete the entry process described in Section L7 (SMKI and Repository Entry Process Tests) is entitled to undertake the SMKI and Repository Entry Process Tests to become either or both of:

- (a) an Authorised Subscriber under either or both of the Organisation Certificate Policy and/or the Device Certificate Policy; and/or
- (b) eligible to access the SMKI Repository.

H14.23 The SMKI and Repository Entry Process Tests will be undertaken in accordance with the SMKI and Repository Test Scenarios Document.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H14.24 A Testing Participant seeking to undertake the SMKI and Repository Entry Process Tests for the purposes of either or both of Section H14.22(a) and/or (b) shall notify the DCC of the purposes for which it is undertaking those tests. Only Testing Participants that meet any applicable entry requirements set out in the SMKI and Repository Tests Scenarios Document shall be entitled to undertake those SMKI and Repository Entry Process Tests for the purposes described in Section H14.22(a) and/or (b).

H14.25 Where the DCC is not satisfied that a Testing Participant meets such entry requirements, that Testing Participant may refer the matter to the Panel for its determination. Where the Testing Participant disagrees with any such determination of the Panel, then the Testing Participant may refer the matter to the Authority for its determination (which shall be final and binding for the purposes of this Code).

H14.26 Each Testing Participant seeking to undertake the SMKI and Repository Entry Process Tests shall develop its own test scripts and demonstrate how those test scripts meet the requirements of the relevant scenarios set out in the SMKI and Repository Tests Scenarios Document (for the purposes described in Section H14.22(a) and/or (b), as applicable). Each Testing Participant shall obtain the DCC's approval that such test scripts meet those requirements before the SMKI and Repository Entry Process Tests can commence. Any disputes regarding the approval of such test scripts may be referred to the Panel for determination (which determination shall be final and binding for the purposes of this Code).

H14.27 Each Testing Participant seeking to undertake the tests will have the right to determine the sequencing of the tests that comprise the SMKI and Repository Entry Process Tests; save to the extent that a particular sequence is mandated in the SMKI and Repository Tests Scenarios Document.

H14.27A The DCC or the Testing Participant undertaking the SMKI and Repository Entry Process Tests may suspend testing in accordance with the requirements set out in the SMKI and Repository Test Scenarios Document. Any dispute between the DCC and a Testing Participant regarding the suspension (or consequent resumption) of such testing may be referred to the Panel for its determination. Where the DCC or the Testing Participant disagrees with any such determination of the Panel, then the DCC

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

or the Testing Participant may refer the matter to the Authority for its determination (which determination shall be final and binding for the purposes of this Code).

H14.28 A Testing Participant will have successfully completed the SMKI and Repository Entry Process Tests (for the purposes described in Section H14.22(a) and/or (b), as applicable), once the DCC considers that the Testing Participant has demonstrated that it has satisfied the requirements set out in the SMKI and Repository Tests Scenarios Document for those purposes. Where requested by a Testing Participant, the DCC shall provide written confirmation to the Testing Participant confirming whether or not the DCC considers that the Testing Participant has successfully completed the SMKI and Repository Entry Process Tests (for the purposes described in Section H14.22(a) and/or (b), as applicable).

H14.29 Where Systems have been proven to meet the requirements of this Code as part of one Testing Participant's successful completion of the SMKI and Repository Entry Process Tests or tests under Section H14.32 that are equivalent to all or part of the SMKI and Repository Entry Process Tests (and where the substance of the relevant part of the SMKI and Repository Entry Process Tests have not changed in the interim), then:

- (a) any Testing Participant that has use of those Systems shall be entitled to submit proof to the DCC that this is the case when seeking to meet any applicable entry and/or exit requirements set out in the SMKI and Repository Tests Scenarios Document; and
- (b) the DCC shall take into account such proof when considering whether such Testing Participant meets such entry and/or exit requirements.

H14.30 Where the DCC is not satisfied that a Testing Participant has successfully completed the SMKI and Repository Entry Process Tests (for the purposes described in Section H14.22(a) and/or (b), as applicable), that Testing Participant may refer the matter to the Panel for its determination. Where the Testing Participant disagrees with any such determination of the Panel, then the Testing Participant may refer the matter to the Authority for its determination (which shall be final and binding for the purposes of

this Code).

Device and User System Tests

H14.31 The DCC shall provide a service to enable Testing Participants:

- (a) to test the interoperability of Devices (other than those comprising Communications Hubs) with the DCC Systems and with the Communications Hubs provided as part of the Testing Services, such that those Devices are able to respond to Commands received from or via the DCC in accordance with the requirements defined in the GB Companion Specification;
- (b) to test the interoperability of User Systems with the DCC Systems, including via the DCC User Interface and the Self-Service Interface; and
- (c) to test simultaneously the interoperability of User Systems and Devices (other than those comprising Communications Hubs) with the DCC Systems and with the Communications Hubs provided as part of the Testing Services,

which Testing Services in respect of (a) and (c) above shall (subject to the Testing Participant agreeing to pay any applicable Charges, as further described in the Enduring Testing Approach Document) include the provision of a connection to a simulation of the SM WAN for the purpose of such tests as further described in the Enduring Testing Approach Document (save to the extent the connection is required where the DCC is relieved from its obligation to provide Communication Services pursuant to the Statement of Service Exemptions). References to particular Systems in this Section H14.31 may include a simulation of those Systems (rather than the actual Systems).

H14.32 Each Party is eligible to undertake Device and User System Tests. Any Manufacturer (whether or not a Party) is eligible to undertake those Device and User System Tests described in Section H14.31(a); provided that, in the case of any such tests that require the use of a DCC Gateway Connection, the Manufacturer must be a Party. Any person providing (or seeking to provide) goods or services to Parties or Manufacturers in respect of Devices is eligible to undertake those Device and User System Tests

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

described in Section H14.31(a); provided that, in the case of any such tests that require the use of a DCC Gateway Connection, the person must be a Party. A Party undertaking the Device and User System Tests described in Section H14.31(b) is entitled to undertake tests equivalent to any or all of the User Entry Process Tests and SMKI and Repository Entry Process Tests, in respect of which:

- (a) the DCC shall, at the Party's request, assess whether the test results would meet the requirements of all or part of the applicable User Entry Process Tests and/or SMKI and Repository Entry Process Tests;
- (b) the DCC shall, at the Party's request, provide a written statement confirming the DCC's assessment of whether the test results would meet the requirements of all or part of the applicable tests; and
- (c) the Party may, where it disputes the DCC's assessment, refer the matter to the Panel for its determination (which shall be final and binding for the purposes of this Code).

H14.33 The DCC shall, on request by a Testing Participant, take all reasonable steps to offer reasonable additional support to that Testing Participant (subject to such Testing Participant agreeing to pay any applicable Charges) in understanding and resolving issues associated with:

(a) the DCC Total System and the results of such Testing Participant's Device and User System Tests (subject to such Testing Participant agreeing to pay any applicable Charges):

(b) where the Testing Participant is a Party, the Systems of the Testing Participant that are (or are intended to be) User Systems; and/or

(a)(c) communications between the DCC and any Device or between Devices which comprise (or which the Testing Participant intends will comprise) a Smart Metering System.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H14.33A ~~The~~Such additional Testing Services provided for in Section H14.33 are without prejudice to the DCC’s obligations in respect of Testing Issues, Incidents and Problems.

Modification Implementation Testing

H14.34 Where the Panel determines, in accordance with Section D10 (Implementation), that testing is required in relation to the implementation of a Modification Proposal, then such testing shall be undertaken as a Testing Service pursuant to this Section H14.34 and the implementation timetable approved in accordance with Section D10 (Implementation).

H14.35 The persons eligible to participate in such testing shall be determined by the Panel in accordance with Section D10 (Implementation).

DCC Internal System Change Testing

H14.36 Where, pursuant to Section H8.8 (DCC Internal Systems Changes), a Party or an RDPUser is involved in testing of changes to the DCC Internal Systems, then such testing shall not be subject to the requirements of Section H14.3, Section H14.4 and Sections H14.6 to H14.11 (inclusive), but such Party or RDPa-User may nevertheless raise a Testing Issue in respect of the tests (and the references to Testing Participant in Sections H14.37 to H14.44 shall be interpreted accordingly).

General: Testing Issue Resolution Process

H14.37 Each Testing Participant undertaking tests pursuant to this Section H14 is entitled to raise a Testing Issue in respect of those tests. Each Testing Participant shall take reasonable steps to diagnose and resolve a Testing Issue before raising it in accordance with this Section H14.

H14.38 A Testing Participant that wishes to raise a Testing Issue shall raise it with the relevant DCC Service Provider (as identified by the DCC from time to time) in accordance with a reasonable and not unduly discriminatory procedure, which is to be established by the DCC and provided to the Panel from time to time (which the Panel

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

shall publish on the Website).

H14.39 Where a Testing Participant raises a Testing Issue, the DCC shall ensure that the relevant DCC Service Provider shall (as soon as reasonably practicable thereafter):

- (a) determine the severity level and priority status of the Testing Issue;
- (b) inform the Testing Participant of a reasonable timetable for resolution of the Testing Issue consistent with its severity level and priority status; and
- (c) provide its determination (in accordance with such timetable) to the Testing Participant on the actions (if any) to be taken to resolve the Testing Issue.

H14.40 Pursuant to H14.39, the DCC shall share with categories of Testing Participant any information (provided that the identities of the Testing Participant and, where relevant, the Device's Manufacturer are anonymised) relating to the Testing Issue which is likely to be of use to those categories of Testing Participants (provided that no such information should be shared to the extent it poses a risk of Compromise to the DCC Total System, User Systems, RDP Systems and/or Devices).

H14.41 Where a Testing Participant is dissatisfied with any of the determinations under Section H14.39 (or the speed with which any such determination is made), the Testing Participant may refer the matter to the DCC. On such a referral to the DCC, the DCC shall (as soon as reasonably practicable thereafter):

- (a) consult with the Testing Participant and any other person as the DCC considers appropriate;
- (b) either, depending on the subject matter of the disagreement:
 - (i) direct the DCC Service Provider to more quickly provide its determination of the matters set out in Section H14.39(a), (b) and/or (c);
or
 - (ii) make the DCC's own determination of the matters set out in Section H14.39(a), (b) and/or (c);

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) notify the Panel of the DCC's direction or determination under (b) above; and
- (d) share with categories of Testing Participant any information (provided that the identities of the Testing Participant and, where relevant, the Device's Manufacturer are anonymised) relating to the Testing Issue which is likely to be of use to those categories of Testing Participants (provided that no such information should be shared to the extent it poses a risk of Compromise to the DCC Total System, User Systems, RDP Systems and/or Devices).

H14.42 Where the Testing Participant (or any Party) disagrees with the DCC's determination pursuant to Section H14.41 of the matters set out at Section H14.39(c) (but not otherwise), then the Testing Participant (or Party) may request that the DCC refers the matter to the Panel for its consideration (provided that the identities of the Testing Participant and, where relevant, the Device's Manufacturer are anonymised).

H14.43 Where a matter is referred to the Panel for its consideration pursuant to Section H14.42, the Panel shall consider the matter further to decide upon the actions (if any) to be taken to resolve the Testing Issue, unless the matter relates to testing undertaken pursuant to Section T (Testing During Transition), in which case the Panel shall notify the Secretary of State and shall consider the matter further and make such a decision only where, having received such a notification, the Secretary of State so directs. Where the Panel considers the matter further, it may conduct such further consultation as it considers appropriate before making such a decision. Such a decision may include a decision that:

- (a) an aspect of the Code could be amended to better facilitate achievement of the SEC Objectives;
- (b) an aspect of the DCC Systems is inconsistent with the requirements of this Code;
- (c) an aspect of one or more Devices is inconsistent with the requirements of this Code; or
- (d) an aspect of the User Systems or the RDP Systems is inconsistent with the

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

requirements of this Code.

H14.44 The Panel shall publish each of its decisions under Section H14.43 on the Website; provided that the identities of the Testing Participant and (where relevant) the Device's Manufacturer are anonymised, and that the Panel shall remove or redact information where it considers that publishing such information would be prejudicial to the interests of one or more Parties, or pose a risk of Compromise to the DCC Total System, User Systems, RDP Systems and/or Devices.

H14.45 A decision of the Panel under Section H14.43 is merely intended to facilitate resolution of the relevant Testing Issue. A decision of the Panel under Section H14.43 is without prejudice to any future decision by the Change Board and/or the Authority concerning a Modification Proposal, by the Secretary of State in exercising its powers under section 88 of the Energy Act 2008, by the Authority concerning the DCC's compliance with the DCC Licence, or by the Panel under Section M8 (Suspension, Expulsion and Withdrawal).

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

H15 DCC GATEWAY CONNECTIONS

Obligation to Maintain DCC Gateway Connections

- H15.1 The DCC shall maintain each DCC Gateway Connection and make it available subject to and in accordance with the provisions of this Section H15.
- H15.2 The DCC shall ensure that each DCC Gateway Connection is available at all times (subject to Planned Maintenance undertaken in accordance with Section H8.3).
- H15.3 No Party may use a DCC Gateway Connection for any purposes other than accessing, and sending and receiving Data via, the DCC Interfaces (and subject to the provisions of this Code applicable to each DCC Interface).

Requests for DCC Gateway Connections

- H15.4 Each Party other than the DCC may request (in accordance with this Section H15 and as further described in the DCC Gateway Code of Connection) as many DCC Gateway Connections as the Party wishes, in each case using the DCC Gateway Bandwidth Option of the Party's choice.
- H15.5 In order to assist a Party in determining which DCC Gateway Bandwidth Option to request (or, in the case of connections using a DCC Gateway HV Connection, the size of the bandwidth required), the DCC shall (on request) provide any Party with information regarding the size of the different message types that can be sent via the DCC User Interface.
- H15.6 Within 5 Working Days following receipt of any request from a Party for a DCC Gateway Connection at a premises, the DCC shall:
- (a) where the request does not include all the information required in accordance with the DCC Gateway Connection Code of Connection, notify the Party that this is the case and provide reasonable assistance to the Party in re-submitting its request; or
 - (b) undertake a desk-based assessment as described in the DCC Gateway

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Connection Code of Connection, and provide a response to the Party in respect of that premises under Section H15.7, H15.8 or H15.9 (as applicable).

H15.7 In the case of a request for a DCC Gateway LV Connection, and where the DCC's desk-based assessment indicates that a physical site assessment is not required, the DCC shall provide an offer to the Party setting out:

- (a) the DCC's reasonable estimate of the likely bandwidth of the connection once made;
- (b) the date from which the DCC will provide the connection;
- (c) the connection Charges and annual Charges that will apply in respect of the connection; and
- (d) the connection period for which the connection will be made available.

H15.8 In the case of a request for a DCC Gateway LV Connection, and where the DCC's desk-based assessment indicates that a physical site assessment is required, the DCC shall notify the requesting Party that this is the case, and (unless the DCC is not reasonably able to do so without undertaking a physical site assessment, and subject to further information which may become available as a result of the physical site assessment) notify the Party of:

- (a) the DCC's reasonable estimate of the likely bandwidth of the connection once made;
- (b) the date from which the DCC will provide the connection;
- (c) the connection Charges and annual Charges that will apply in respect of the connection; and
- (d) the connection period for which the connection will be made available.

H15.9 In the case of a request for a DCC Gateway HV Connection, the DCC shall notify the Party that a physical site assessment is required, and (unless the DCC is not reasonably able to do so without undertaking a physical site assessment, and subject to

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

further information which may become available as a result of the physical site assessment) notify the Party of:

- (a) the date from which the DCC will provide the connection;
- (b) the connection Charges and annual Charges that will apply in respect of the connection; and
- (c) the connection period for which the connection will be made available.

Physical Site Assessments

H15.10 In the case of a notice to a Party under Section H15.8 or H15.9, the Party has 30 days following receipt of such notice to confirm to the DCC that the Party wishes the DCC to proceed with the physical site assessment. In the absence of such confirmation, the Party shall be deemed to have opted not to proceed.

H15.11 Where the DCC has received a confirmation in accordance with Section H15.10, then the DCC shall, within 30 days thereafter, complete the physical site assessment. The Party requesting the connection shall ensure that the DCC has such access to the Party's premises as the DCC may reasonably require in order to undertake such site assessment. The DCC shall ensure that all persons exercising such rights of access do so in compliance with the applicable site rules and reasonable instructions of those in control of the premises.

H15.12 The DCC shall, within 10 Working Days after completing a physical site assessment pursuant to Section H15.11, provide an offer to the Party that requested a connection at that premises setting out:

- (a) any supplementary conditions which will apply in respect of the connection (in addition to the provisions of this Code) required as a consequence of matters identified in the site assessment;
- (b) (in the case of DCC Gateway LV Connections) the DCC's reasonable estimate of the likely bandwidth of the connection once made;

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) the date from which the DCC will provide the connection;
- (d) the connection Charges and annual Charges that will apply in respect of the connection; and
- (e) the connection period for which the connection will be made available.

Initial Provision of a DCC Gateway Connection

H15.13 In the case of an offer to a Party under Section H15.7 or H15.12, the Party has 30 days following receipt of such offer to confirm to the DCC that the Party accepts that offer. In the absence of such confirmation, the Party shall be deemed to have opted not to accept the offer (which shall lapse).

H15.14 Where a Party accepts an offer as described in Section H15.13, the DCC shall take all reasonable steps to provide the requested DCC Gateway LV Connection or DCC Gateway HV Connection by the date set out in the accepted offer (subject to payment of any applicable Charges).

H15.15 In the event that the DCC will be delayed in providing the requested DCC Gateway Connection, the DCC shall notify the relevant Party of the delay (including reasons for the delay) and of the revised connection date (being as soon a reasonably practicable thereafter), and shall take all reasonable steps to provide the requested connection by that revised date.

Use of a DCC Gateway Connection

H15.16 Subject to Section H15.3, the Party that requested a DCC Gateway Connection at a premises shall be entitled to use that connection for as long as the DCC is obliged to make it available in accordance with Section H15.18 (provided that such Party may transfer its right in respect of that DCC Gateway Connection to another Party on both such Parties giving notice to the DCC referring to this Section H15.16).

H15.17 The DCC Gateway Party may notify the DCC of the other Parties (if any) that are (subject to Section H15.3) entitled to share (or no longer entitled to share) use of that DCC Gateway Connection, and in respect of which DCC Interfaces.

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Ongoing Provision of a DCC Gateway Connection

H15.18 Once a DCC Gateway Connection has been established at a premises on behalf of a DCC Gateway Party:

- (a) the DCC shall make the connection available to the DCC Gateway Party in accordance with this Code until the DCC Gateway Party notifies the DCC that the Party wishes to cancel the connection (on not less than three months' prior notice);
- (b) the DCC shall give the DCC Gateway Party four months' advance notice of the date on which the period of connection referred to in the accepted connection offer is due to expire (or of the date on which any period of extension pursuant to paragraph (c) below is due to expire), and shall at the same time confirm the annual Charges that will apply if the connection is not cancelled;
- (c) on the expiry of a period referred to in paragraph (b) above, unless the DCC Gateway Party cancels the connection in accordance with paragraph (a) above, the period of connection shall be extended for a year (which will give rise to an additional annual Charge);
- (d) the DCC Gateway Party and the DCC shall comply with the provisions of the DCC Gateway Connection Code of Connection applicable to the DCC Gateway Bandwidth Option utilised at the connection (and the DCC may limit the use of the connection where the DCC Gateway Party fails to do so and where this is provided for in the DCC Gateway Connection Code of Connection);
- (e) the DCC shall, on request, provide the DCC Gateway Party with a report on the performance of its connection as further set out in the DCC Gateway Connection Code of Connection; and
- (f) in the case of DCC Gateway HV Connections, the DCC Gateway Party may increase or decrease the bandwidth of its connection in accordance with (and subject to the limitation provided in) the DCC Gateway Code of Connection (provided that, in the case of decreases, the applicable Charges may not alter as

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

a result).

H15.19 The cancellation of any DCC Gateway Connection pursuant to Section H15.18(a), is without prejudice to:

- (a) the right of the DCC Gateway Party to apply for another connection under Section H15.4; and
- (b) the obligation of the DCC Gateway Party to pay the applicable Charges for the full duration of the period of connection referred to in the accepted connection offer or any period of extension under Section H15.18(c).

DCC Gateway Equipment

H15.20 In first providing a DCC Gateway Connection at a premises, the DCC shall procure that the DCC Gateway Equipment is installed at the relevant premises, and that the DCC Gateway Equipment is installed in accordance with Good Industry Practice and all applicable Laws and Directives.

H15.21 Following its installation at a premises, the DCC shall ensure that the DCC Gateway Equipment is operated and maintained in accordance with Good Industry Practice, and that it complies with all applicable Laws and Directives. The DCC shall maintain a record of the DCC Gateway Equipment installed at each DCC Gateway Party's premises from time to time, and of the point of its connection to that Party's Systems.

H15.22 The DCC Gateway Party at whose premises the DCC Gateway Equipment is (or is to be) installed shall provide the DCC with such access to that premises as the DCC may reasonably require in order to allow it to undertake the installation, maintenance, relocation or removal of the DCC Gateway Equipment. The DCC shall ensure that all persons exercising such rights of access do so in compliance with the site rules and reasonable instructions of the DCC Gateway Party.

H15.23 The DCC Gateway Party at whose premises the DCC Gateway Equipment is (or is to be) installed shall be entitled to witness and inspect the installation, maintenance, relocation or removal of the DCC Gateway Equipment. No such witnessing or

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

assessment shall relieve the DCC of its obligations under this Code.

H15.24 Each DCC Gateway Party shall ensure that no damage is deliberately or negligently caused to the DCC Gateway Equipment installed at its premises (save that such a Party may take emergency action in accordance with Good Industry Practice to protect the health and safety of persons or to prevent imminent damage to property).

H15.25 The DCC Gateway Equipment shall (as between the DCC and each other Party) remain the property of the DCC. The DCC Gateway Equipment is installed at the DCC's risk, and no other Party shall have liability for any loss of or damage to the DCC Gateway Equipment unless and to the extent that such loss or damage arose as a result of that Party's breach of this Code (including that Party's obligations under Section H15.24).

H15.26 No Party other than the DCC shall hold itself out as the owner of the DCC Gateway Equipment, or purport to sell or otherwise dispose of the DCC Gateway Equipment.

H15.27 Where a DCC Gateway Party wishes to alter the location of the DCC Gateway Equipment at the Party's premises, then that Party shall make a request to the DCC, and the DCC shall either (in accordance with any provisions of the DCC Gateway Connection Code of Connection concerning the same):

- (a) notify such Party that it is entitled to relocate the DCC Gateway Equipment within the Party's premises, in which case the Party may move such equipment (and, where it does so, it shall do so in accordance with Good Industry Practice and all applicable Laws and Directives); or
- (b) notify such Party that the DCC Gateway Equipment must be relocated by the DCC, in which case the DCC shall (subject to payment of any applicable Charges) move the DCC Gateway Equipment in accordance with Good Industry Practice and all applicable Laws and Directives.

H15.28 Where the DCC's obligation to make a DCC Gateway Connection available ends in accordance with Section H15.18(a) or the DCC Gateway Party for a DCC Gateway Connection ceases to be a Party in accordance with Section M8 (Suspension,

SEC – Section H: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Expulsion and Withdrawal), then the DCC shall, within 30 days thereafter:

- (a) cease to make that DCC Gateway Connection available; and
- (b) remove the DCC Gateway Equipment from the relevant premises in accordance with Good Industry Practice and all applicable Laws and Directives.

DCC Gateway Connection Disputes

H15.29 Where a DCC Gateway Party wishes to raise a dispute in relation to its request for a DCC Gateway Connection (or the extension of its period of connection or increases or decreases in the bandwidth of its connection, in each case under Section H15.18), then the dispute may be referred to the Panel for determination. Where that Party or the DCC disagrees with any such determination, then it may refer the matter to the Authority for its determination, which shall be final and binding for the purposes of this Code.

SECTION I: DATA PRIVACY

II DATA PROTECTION AND ACCESS TO DATA

Without Prejudice

II.1 The obligations of the DCC and each User under this Section II are without prejudice to any other obligations they each may have under the Relevant Instruments, including any such obligations they each may have concerning Processing of Personal Data.

User Obligations

Consumption Data

II.2 Each User undertakes that it will not request, in respect of a Smart Metering System, a Communication Service or Local Command Service that will result in it obtaining Consumption Data, unless:

- (a) the User has the Appropriate Permission in respect of that Smart Metering System; and
- (b) (where that User is not the Import Supplier, Export Supplier, Gas Supplier, Electricity Distributor or Gas Transporter for that Smart Metering System) the User has, at the point of obtaining Appropriate Permission and at such intervals as are reasonably determined appropriate by the User for the purposes of ensuring that the Energy Consumer is regularly updated of such matters, notified the Energy Consumer in writing of:
 - (i) the time periods (by reference to length) in respect of which the User obtains or may obtain Consumption Data;
 - (ii) the purposes for which that Consumption Data is, or may be, used by the User; and
 - (iii) the Energy Consumer's right to object or withdraw consent (as the case may be) to the User obtaining or using that Consumption Data, and the

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

process by which the Energy Consumer may object or withdraw consent.

Service Requests

11.3 Each User undertakes that it will not send either a 'Join Service' or 'Unjoin Service' Service Request (respectively to join a Type 2 Device to, or unjoin it from, any Smart Meter or Device Associated with a Smart Meter) unless:

(a) the User is the Responsible Supplier for the Smart Meter or Associated Device to which the Service Request is sent, and sends that Service Request for the purpose of complying with an obligation under its Energy Supply Licence; or

(b) the Energy Consumer at the premises at which the Smart Meter is located has given the User ~~explicit consent~~ Unambiguous Consent, which has not been withdrawn, to (as the case may be):

(i) join that Type 2 Device to the Smart Meter or Associated Device, and the User has clearly informed the Energy Consumer before obtaining such Unambiguous Consent that a consequence of joining the Type 2 Device may be that Data relating to the Energy Consumer will be shared with third parties; or

~~(i)(ii)~~ (ii) unjoin it from (as the case may be), the Smart Meter or Associated Device, save that the Responsible Supplier for a Smart Metering System at the premises need not obtain such Unambiguous Consent where it has reasonable grounds to believe that the Type 2 Device has Compromised or is likely to Compromise any Device forming part of that Smart Metering System (and the Responsible Supplier shall, where it unjoins a Type 2 Device in such circumstances, take all reasonable steps to inform the Energy Consumer that it has done so and such consent has not been withdrawn).

Access to Records

11.4 Each User undertakes that it will not access (pursuant to Section H8.16) or request (pursuant to Section H8.17) the information described in Section H8.16(c), unless:

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the Energy Consumer at the premises at which the relevant Smart Meter is located has given the User ~~explicit consent~~ **Unambiguous Consent** to do so and such consent has not been withdrawn; and
- (b) the information is accessed solely for the purpose of its provision to that Energy Consumer.

Good Industry Practice

11.5 Each User shall put in place and maintain arrangements designed in accordance with Good Industry Practice to ensure that each person from whom it has obtained consent pursuant to Section 11.2 to 11.4 is the Energy Consumer.

Processing of Personal Data by the DCC

11.6 It is acknowledged that, in providing the Services to a User, the DCC may act in the capacity of ‘data processor’ (as defined in the Data Protection Act) on behalf of that User in respect of the Personal Data for which that User is the ‘data controller’ (as defined in the Data Protection Act).

11.7 The DCC undertakes for the benefit of each User in respect of the Personal Data for which that User is the ‘data controller’ (as defined in the Data Protection Act) to:

- (a) only Process that Personal Data for the purposes permitted by the DCC Licence and this Code;
- (b) undertake the Processing of that Personal Data in accordance with this Code, (to the extent consistent with this Code) the instructions of the User and (subject to the foregoing requirements of this Section 11.7(b)) not in a manner that the DCC knows (or should reasonably know) is likely to cause the User to breach its obligations under the Data Protection Act;
- (c) implement appropriate technical and organisational measures to protect that Personal Data against unauthorised or unlawful Processing and against accidental loss, destruction, damage, alteration or disclosure (such measures to at least be in accordance with Good Industry Practice and the requirements of Section G (Security));

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (d) not Process that Personal Data outside the European Economic Area;
- (e) provide reasonable assistance to the User in complying with any subject access request with which the User is obliged to comply under the Data Protection Act and which relates to the Processing of that Personal Data pursuant to this Code;
- (f) provide reasonable assistance to the User in complying with any enquiry made, or investigation or assessment initiated, by the Information Commissioner or any other Competent Authority in respect of the Processing of that Personal Data pursuant to this Code;
- (g) promptly notify the User in the event that the DCC Processes any of that Personal Data otherwise than in accordance with this Code (including in the event of unauthorised access to such Personal Data);
- (h) notify the User of any complaint or subject access request or other request received by the DCC with respect to the Processing of that Personal Data pursuant to this Code, and to do so within 5 Working Days following receipt of the relevant complaint or request; and
- (i) notify the User of any a complaint or request relating to the DCC's obligations (if any) under the Data Protection Act in respect of the Processing of that Personal Data pursuant to this Code.

Records

11.8 The DCC and each User will each maintain in accordance with Good Industry Practice all such records and other information as is necessary to enable the DCC and each such User to demonstrate that it is complying with its respective obligations under Sections 11.2 to 11.5 and 11.7.

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

I2 OTHER USER PRIVACY AUDITS

Procurement of the Independent Privacy Auditor

I2.1 The Panel shall procure the provision of privacy audit services:

- (a) of the scope specified in Section I2.3;
- (b) from a person who:
 - (i) is suitably qualified, and has the necessary experience and expertise, to provide those services; and
 - (ii) is suitably independent in accordance with Section I2.4,

and that person is referred to in this Section I2 as the “**Independent Privacy Auditor**”.

I2.2 Except where the contrary is required by the provisions of Section X (Transition), the Panel may appoint more than one person to carry out the functions of the Independent Privacy Auditor.

Scope of Privacy Audit Services

I2.3 The privacy audit services specified in this Section I2.3 are services in accordance with which, for the purpose of providing reasonable assurance that Other Users are complying with their obligations under Sections I1.2 to I1.5 (User Obligations), the Independent Privacy Auditor shall:

- (a) carry out Privacy Assessments at such times and in such manner as is provided for in this Section I2;
- (b) produce Privacy Assessment Reports in relation to Other Users that have been the subject of a Privacy Assessment;
- (c) receive and consider Privacy Assessment Responses;
- (d) otherwise, at the request of, and to an extent determined by, the Panel carry out an assessment of the compliance of any Other User with its obligations under Sections I1.2 to I1.5;

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (e) provide to the Panel such advice and support as may be requested by it from time to time, including in particular advice in relation to the suitability of any remedial action plan for the purposes of Section M8.4 of the Code (Consequences of an Event of Default);
- (f) provide to the Authority such advice and support as it may request in relation to any disagreements with a decision of the Panel in respect of which the Authority is required to make a determination in accordance with this Section I2; and
- (g) undertake such other activities, and do so at such times and in such manner, as may be further provided for in this Section I2.

Independence Requirement

I2.4 The Independent Privacy Auditor shall be treated as suitably independent in accordance with this Section I2.4 only if it satisfies:

- (a) the requirements specified in Section I2.6; and
- (b) the requirement specified in Section I2.7.

I2.5 For the purposes of Sections I2.6 and I2.7:

- (a) a "**Relevant Party**" means any Party in respect of which the Independent Privacy Auditor carries out functions under this Section I2; and
- (b) a "**Relevant Service Provider**" means any service provider to a Relevant Party from which that Party acquires capability for a purpose related to its compliance with its obligations as an Other User under Section I1.2 to I1.5.

I2.6 The requirements specified in this Section I2.6 are that:

- (a) no Relevant Party or any of its subsidiaries, and no Relevant Service Provider or any of its subsidiaries, holds or acquires any investment by way of shares, securities or other financial rights or interests in the Independent Privacy Auditor;
- (b) no director of any Relevant Party, and no director of any Relevant Service

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Provider, is or becomes a director or employee of, or holds or acquires any investment by way of shares, securities or other financial rights or interests in, the Independent Privacy Auditor; and

- (c) the Independent Privacy Auditor does not hold or acquire a participating interest (as defined in section 421A of the Financial Services and Markets Act 2000) in any Relevant Party or any Relevant Service Provider,

(but for these purposes references to a Relevant Service Provider shall not include the Independent Privacy Auditor where it acts in that capacity).

- I2.7 The requirement specified in this Section I2.7 is that the Independent Privacy Auditor is able to demonstrate to the satisfaction of the Panel that it has in place arrangements to ensure that it will at all times act independently of any commercial relationship that it has, has had, or may in future have with a Relevant Party or Relevant Service Provider (and for these purposes a 'commercial relationship' shall include a relationship established by virtue of the Independent Privacy Auditor itself being a Relevant Service Provider to any Relevant Party).

Compliance of the Independent Privacy Auditor

- I2.8 The Panel shall be responsible for ensuring that the Independent Privacy Auditor carries out its functions in accordance with the provisions of this Section I2.

Other Users: Duty to Cooperate in Assessment

- I2.9 Each Other User shall do all such things as may be reasonably requested by the Panel, or by any person acting on behalf of or at the request of the Panel (including in particular the Independent Privacy Auditor), for the purposes of facilitating an assessment of that Other User's compliance with its obligations under Sections I1.2 to I1.5.

- I2.10 For the purposes of Section I2.9, an Other User shall provide the Panel (or the relevant person acting on its behalf or at its request) with:

- (a) all such Data as may reasonably be requested, within such times and in such format as may reasonably be specified;

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) all such other forms of cooperation as may reasonably be requested, including in particular:
 - (i) access at all reasonable times to such parts of the premises of that Other User as are used for, and such persons engaged by that Other User as carry out or are authorised to carry out, any activities related to its compliance with its obligations under Sections I1.2 to I1.5; and
 - (ii) such cooperation as may reasonably be requested by the Independent Privacy Auditor for the purposes of carrying out any Privacy Assessment in accordance with this Section I2.

Categories of Assessment

I2.11 For the purposes of this Section I2, there shall be the following three categories of privacy assessment:

- (a) a Full Privacy Assessment (as further described in Section I2.12);
- (b) a Random Sample Privacy Assessment (as further described in Section I2.13); and
- (c) a Privacy Self-Assessment (as further described in Section I2.14).

I2.12 A "**Full Privacy Assessment**" shall be an assessment carried out by the Independent Privacy Auditor in respect of an Other User to identify the extent to which that Other User:

- (a) is compliant with each of its obligations under Sections I1.2 to I1.5; and
- (b) has in place the systems and processes necessary for ensuring that it complies with each such obligation.

I2.13 A "**Random Sample Privacy Assessment**" shall be an assessment carried out by the Independent Privacy Auditor in respect of an Other User to identify the extent to which the Other User is compliant with each of its obligations under Sections I1.2 to I1.5 in relation to a limited (sample) number of Energy Consumers.

I2.14 A "**Privacy Self-Assessment**" shall be an assessment carried out by an Other User to

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

identify the extent to which, since the last occasion on which a Privacy Assessment was carried out in respect of that Other User by the Independent Privacy Auditor, there has been any material change:

- (a) in the arrangements that the Other User has in place to comply with its obligations under Sections I1.2 to I1.5; or
- (b) in the quantity of Consumption Data being obtained by the Other User.

The Privacy Controls Framework

I2.15 The Panel shall develop and maintain a document to be known as the "**Privacy Controls Framework**" which shall:

- (a) set out arrangements designed to ensure that Privacy Assessments are carried out appropriately for the purpose of providing reasonable assurance that Other Users are complying with (or, for the purposes of Section H1.10(d) (User Entry Process Requirements), are capable of complying with) their obligations under Sections I1.2 to I1.5; and
- (b) for that purpose, in particular, specify the principles and criteria to be applied in the carrying out of any Privacy Assessment, including principles designed to ensure that Privacy Assessments take place on a consistent basis across all Other Users; and
- (c) make provision for determining the timing, frequency and selection of Other Users for the purposes of Random Sample Privacy Assessments.

I2.16 In developing the Privacy Controls Framework, and prior to making any subsequent change to it, the Panel shall consult with and have regard to the views of all Parties, Citizens Advice and Citizens Advice Scotland, and the Authority.

I2.17 The Panel shall ensure that an up to date copy of the Privacy Controls Framework is made available to all Parties and is published on the Website.

Privacy Assessments: General Procedure

Privacy Controls Framework

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

I2.18 Each Privacy Assessment carried out by the Independent Privacy Auditor or an Other User shall be carried out in accordance with the Privacy Controls Framework.

The Privacy Assessment Report

I2.19 Following the completion of a Full Privacy Assessment or Random Sample Privacy Assessment, the Independent Privacy Auditor shall, in discussion with the Other User to which the assessment relates, produce a written report (a "**Privacy Assessment Report**") which shall:

- (a) set out the findings of the Independent Privacy Auditor on all the matters within the scope of the Privacy Assessment;
- (b) specify any instances of actual or potential non-compliance of the Other User with its obligations under Sections I1.2 to I1.5 which have been identified by the Independent Privacy Auditor;
- (c) set out the evidence which, in the opinion of the Independent Privacy Auditor, establishes each of the instances of actual or potential non-compliance which it has identified.

I2.20 The Independent Privacy Auditor shall submit a copy of each Privacy Assessment Report to the Panel and to the Other User to which that report relates.

The Privacy Assessment Response

I2.21 Following the receipt by any Other User of a Privacy Assessment Report which relates to it, the Other User shall as soon as reasonably practicable, and in any event by no later than such date as the Panel may specify:

- (a) produce a written response to that report (a "**Privacy Assessment Response**") which addresses the findings set out in the report; and
- (b) submit a copy of that response to the Panel and the Independent Privacy Auditor.

I2.22 Where a Privacy Assessment Report specifies any instance of actual or potential non-compliance of an Other User with its obligations under Sections I1.2 to I1.5, the Other User shall ensure that its Privacy Assessment Response includes the matters referred

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

to in Section I2.23.

I2.23 The matters referred to in this Section are that the Privacy Assessment Response:

- (a) indicates whether the Other User accepts the relevant findings of the Independent Privacy Auditor and provides an explanation of the actual or potential non-compliance that has been identified; and
- (b) sets out any steps that the Other User proposes to take in order to remedy and/or mitigate the actual or potential non-compliance, and identifies a timetable within which the Other User proposes to take those steps.

I2.24 Where a Privacy Assessment Response sets out any steps that an Other User proposes to take in accordance with Section I2.23(b), the Panel (having considered the advice of the Independent Privacy Auditor) shall review that response and either:

- (a) notify the Other User that it accepts that the steps that the Other User proposes to take, and the timetable within which it proposes to take them, are appropriate to remedy and/or mitigate the actual or potential non-compliance specified in the Privacy Assessment Report; or
- (b) seek to agree with the Other User such alternative steps and/or timetable as would, in the opinion of the Panel, be more appropriate for that purpose.

I2.25 Where a Privacy Assessment Response sets out any steps that an Other User proposes to take in accordance with Section I2.23(b), and where those steps and the timetable within which it proposes to take them are accepted by the Panel, or alternative steps and/or an alternative timetable are agreed between it and the Other User in accordance with Section I2.24, the Other User shall:

- (a) take the steps that have been accepted or agreed (as the case may be) within the timetable that has been accepted or agreed (as the case may be); and
- (b) report to the Panel:
 - (i) on its progress in taking those steps, at any such intervals or by any such dates as the Panel may specify;

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (ii) on the completion of those steps in accordance with the timetable; and
- (iii) on any failure to complete any of those steps in accordance with the timetable, specifying the reasons for that failure.

The Privacy Self-Assessment Report

I2.26 Following the completion of a Privacy Self-Assessment, the Other User which carried out that self-assessment shall as soon as reasonably practicable produce a written report (a "**Privacy Self-Assessment Report**") which shall set out the findings of the Other User, and describe the nature of any material change, since the last occasion on which a Privacy Assessment was carried out in respect of the Other User by the Independent Privacy Auditor, in respect of:

- (a) the arrangements that the Other User has in place to comply with its obligations under Sections I1.2 to I1.5; or
- (b) the quantity of Consumption Data being obtained by the Other User.

I2.27 A Other User which produced a Privacy Self-Assessment Report shall:

- (a) ensure that the report is accurate, complete and not misleading; and
- (b) submit a copy of the report to the Panel and the Independent Privacy Auditor.

I2.28 Within the period of time specified in the Privacy Controls Framework following the receipt by it of a Privacy Self-Assessment Report, the Independent Privacy Auditor shall either:

- (a) notify the Other User that it accepts that report; or
- (b) inform the Other User that it will be subject to an additional Privacy Assessment of such nature by such date as the Panel may specify.

Initial Full Privacy Assessment: User Entry Process

I2.29 Sections I2.31 to I2.36 set out the applicable privacy requirements referred to in Section H1.10(d) (User Entry Process Requirements).

I2.30 For the purposes of Sections I2.31 to I2.36, any reference in Sections I1.2 to I1.5 or

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the preceding provisions of this Section I2 to a 'User' or 'Other User' (or to any related expression which applies to Users), shall be read as including a reference (or otherwise applying) to any Party seeking to become a User by completing the User Entry Process for the User Role of Other User.

Initial Full Privacy Assessment

I2.31 For the purpose of completing the User Entry Process for the User Role of Other User, a Party wishing to act in that User Role shall be subject to a Full Privacy Assessment.

Panel: Setting the Assurance Status

I2.32 Following the receipt by it of the Privacy Assessment Report and Privacy Assessment Response produced after the initial Full Privacy Assessment, the Panel shall promptly consider both documents and set the assurance status of the Party, in relation to its compliance with each of its obligations under Sections I1.2 to I1.5, in accordance with Section I2.33.

I2.33 The Panel shall set the assurance status of the Party as one of the following:

- (a) approved;
- (b) approved, subject to the Party:
 - (i) taking such steps as it proposes to take in its Privacy Assessment Response in accordance with Section I2.23(b); or
 - (ii) both taking such steps and being subject to a further Privacy Assessment of such nature and by such date as the Panel may specify;
- (c) provisionally approved, subject to:
 - (i) the Party having first taken such steps as it proposes to take in its Privacy Assessment Response in accordance with Section I2.23(b) and been subject to a further Privacy Assessment; and
 - (ii) the Panel having determined that it is satisfied, on the evidence of the

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

further Privacy Assessment, that such steps have been taken; or

- (d) deferred, subject to:
 - (i) the Party amending its Privacy Assessment Response to address any issues identified by the Panel as being, in the opinion of the Panel, not adequately addressed in that response as submitted to Panel; and
 - (ii) the Panel reconsidering the assurance status in accordance with Section I2.32 in the light of such amendments to the Privacy Assessment Response.

Approval

I2.34 For the purposes of Sections H1.10(d) and H1.11 (User Entry Process Requirements):

- (a) a Party shall be considered to have successfully demonstrated that it meets the applicable privacy requirements of this Section I2 when:
 - (i) the Panel has set its assurance status to 'approved' in accordance with either Section I2.33(a) or (b); or
 - (ii) the Panel has set its assurance status to 'provisionally approved' in accordance with Section I2.33(c) and the requirements specified in that Section have been met; and
- (b) the Panel shall notify the Code Administrator as soon as reasonably practicable after the completion of either event described in paragraph (a)(i) or (ii).

Obligations on an Approved Party

I2.35 Where the Panel has set the assurance status of a Party to 'approved' subject to one of the requirements specified in Section I2.33(b), the Party shall take the steps to which that approval is subject.

Disagreement with Panel Decisions

I2.36 Where a Party disagrees with any decision made by the Panel in relation to it under Section I2.33, it may appeal that decision to the Authority and the determination of

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the Authority shall be final and binding for the purposes of the Code.

Privacy Assessments: Post-User Entry Process

I2.37 Following its initial Full Privacy Assessment for the purposes of the User Entry Process, an Other User shall be subject to annual Privacy Assessments as follows:

- (a) in the first year after the year of its initial Full Privacy Assessment, to a Privacy Self-Assessment;
- (b) in the immediately following year, to a Privacy Self-Assessment;
- (c) in the next following year, to a Full Privacy Assessment; and
- (d) in each year thereafter, to a category of Privacy Assessment which repeats the same annual sequence as that of paragraphs (a) to (c),

but these requirements shall be subject to the provisions of Section I2.38.

I2.38 An Other User:

- (a) may, on the instruction of the Panel, or otherwise in accordance with the provisions of the Privacy Controls Framework, be subject to a Full Privacy Assessment or Random Sample Privacy Assessment at any time; and
- (b) where it is subject to such a Privacy Assessment in a year in which it would otherwise have been required to carry out a Privacy Self-Assessment in accordance with Section I2.37, shall not be required to carry out that self-assessment in that year.

Privacy Self-Assessment

I2.39 Where, in accordance with the requirements of this Section I2, an Other User is subject to a Privacy Self-Assessment in any year, that Other User shall:

- (a) carry out the Privacy Self-Assessment during that year;
- (b) do so in accordance with the Privacy Controls Framework; and
- (c) ensure that the outcome of the Privacy Self-Assessment is documented and is

SEC – Section I: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

submitted to the Independent Privacy Auditor for review by no later than the date which is 13 months after the date of the commencement of the previous Full Privacy Assessment or (if more recent) Privacy Self-Assessment.

Other Users: Obligation to Pay Explicit Charges

I2.40 Each Other User shall pay to the DCC all applicable Charges in respect of:

- (a) all Privacy Assessments (other than Random Sample Privacy Assessments) carried out in relation to it by the Independent Privacy Auditor;
- (b) the production by the Independent Privacy Auditor of any Privacy Assessment Reports following such assessments; and
- (c) all related activities of the Independent Privacy Auditor in respect of that Other User in accordance with this Section I2.

I2.41 Expenditure incurred in relation to Other Users in respect of the matters described in Section I2.40, and in respect of Random Sample Privacy Assessments, shall be treated as Recoverable Costs in accordance with Section C8 (Panel Costs and Budgets).

I2.42 For the purposes of Section I2.40 the Panel shall, at such times and in respect of such periods as it may (following consultation with the DCC) consider appropriate, notify the DCC of:

- (a) the expenditure incurred in respect of the matters described in Section I2.40 that is attributable to individual Other Users, in order to facilitate Explicit Charges designed to pass-through the expenditure to such Other Users pursuant to Section K7 (Determining Explicit Charges); and
- (b) any expenditure incurred in respect of:
 - (i) the matters described in Section I2.40 which cannot reasonably be attributed to an individual Other User; and
 - (ii) Random Sample Privacy Assessments.

SECTION K: CHARGING METHODOLOGY

K1 INTRODUCTION

- K1.1 This Section K constitutes the Charging Methodology that the DCC is required to have in force in accordance with the DCC Licence.
- K1.2 The Charges payable to the DCC by the other Parties from time to time are those Charges set out in the Charging Statement at that time, which are payable in accordance with Section J.
- K1.3 The DCC is obliged under the DCC Licence to prepare the Charging Statement in accordance with this Charging Methodology.
- K1.4 This Charging Methodology is subject to modification in accordance with Section D (Modification Process), by reference to the Charging Objectives. This Section K is included in this Code in order to allow for such modification. This Section K is not intended to, and does not, create any contractual obligations between the Parties.
- K1.5 This Charging Methodology provides for Fixed Charges, Fixed CH Charges, Fixed Alt HAN Charges, Explicit Charges and Elective Charges. The methodology for calculating Fixed Charges differs before, during, and after the UITMR Period (as set out in Sections K4, K5 and K6 respectively). The methodology for calculating Fixed Alt HAN Charges differs during and after the UITMR Period (as set out in Sections K5A and K6B respectively).
- K1.6 The DCC shall act reasonably and in a manner consistent with the Charging Objectives in undertaking all calculations and estimations required pursuant to this Charging Methodology.
- K1.7 The expressions used in this Charging Methodology shall have the meanings given to them in Section K11.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K2 ESTIMATED REVENUES

Estimated Allowed Revenue

K2.1 In respect of each Regulatory Year, the DCC shall estimate the Allowed Revenue for that Regulatory Year. Such estimate for each Regulatory Year shall be the “**Estimated Allowed Revenue**” for that Regulatory Year.

Estimated Elective Service Revenue

K2.2 In respect of each Regulatory Year, the DCC shall estimate the amount that will be payable to it in respect of the provision of Elective Communication Services during that Regulatory Year. Such estimation shall be based on the Charges payable under the relevant Bilateral Agreements, the DCC’s estimate of the frequency at which the DCC will provide such Services (to the extent such Charges are payable on that basis), and any other relevant factors.

K2.3 The DCC’s estimate in accordance with paragraph K2.2 for each Regulatory Year shall be the “**Estimated Elective Service Revenue**” for that Regulatory Year.

Estimated Explicit Charges Revenue

K2.4 In respect of each Regulatory Year, the DCC shall estimate the amount that will be payable to it in respect of the Explicit Charging Metrics during that Regulatory Year, based on the Explicit Charges (calculated in accordance with Section K7) and the DCC’s estimate of the frequency at which the Explicit Charging Metrics will occur during that year.

K2.5 The DCC’s estimate in accordance with paragraph K2.4 for each Regulatory Year shall be the “**Estimated Explicit Charges Revenue**” for that Regulatory Year.

Estimated Fixed Revenue

K2.6 In respect of each Regulatory Year (t), the “**Estimated Fixed Revenue**” shall be calculated as follows:

$$EFR_t = EAR_t - EESR_t - EECR_t$$

Where:

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

EFR_t = the Estimated Fixed Revenue for the Regulatory Year t

EAR_t = the Estimated Allowed Revenue for the Regulatory Year t

$EESR_t$ = the Estimated Elective Services Revenue for the Regulatory Year t

$EECR_t$ = the Estimated Explicit Charges Revenue for the Regulatory Year t.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K3 FIXED CHARGE, FIXED CH CHARGE AND FIXED ALT HAN CHARGE CALCULATIONS

Introduction

K3.1 The DCC will determine the Fixed Charges, the Fixed CH Charges and the Fixed Alt HAN Charges for each Regulatory Year using the Estimated Fixed Revenue determined in accordance with Section K2, which is to be translated into:

- (a) Fixed Charges in accordance with Section K4, K5 or K6 (depending upon whether the Regulatory Year occurs before, during or after the UITMR Period);
- (b) Fixed CH Charges in accordance with Section K6A (which are payable in respect of Smart Metering Systems); and
- (c) Fixed Alt HAN Charges in accordance with Sections K5A and K6B (depending upon whether the Regulatory Year occurs during or after the UITMR Period).

K3.2 The Fixed Charges and Fixed Alt HAN Charges are payable in respect of:

- (a) (in the case of the Fixed Charges alone) prior to the UITMR Period, Mandated Smart Metering Systems for Domestic Premises;
- (b) during the UITMR Period, Mandated Smart Metering Systems for Domestic Premises and Enrolled Smart Metering Systems for Designated Premises; and
- (c) after the UITMR Period, Enrolled Smart Metering Systems (whether for Domestic Premises or Designated Premises),

and each reference in this Section K3 (or in the definitions of defined terms used directly or indirectly in this Section K3) to ‘**Smart Metering Systems**’ shall accordingly be construed as a reference to Mandated Smart Metering Systems or Enrolled Smart Metering Systems (as applicable).

K3.3 As further described in this Section K3, the Fixed Charges potentially differ so as to distinguish between Smart Metering Systems for Domestic Premises and for Non-

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Domestic Premises, between Smart Metering Systems in different Regions, and between persons within different Charging Groups.

Domestic or Non-Domestic Premises

K3.4 The Charging Objectives require the DCC to impose Charges in respect of Smart Metering Systems for Domestic Premises that do not distinguish (whether directly or indirectly) between Domestic Premises located in different parts of Great Britain. Consistent with the Charging Objectives, the methodology provides for different means of calculating the Fixed Charges, Fixed CH Charges and Fixed Alt HAN Charges depending upon whether a Smart Metering System is for Domestic Premises or for Non-Domestic Premises. The DCC shall estimate the numbers of Domestic Premises and Non-Domestic Premises based on Registration Data (using profile class in the case of Smart Metering Systems associated with an MPAN and market sector code in the case of Smart Metering Systems associated with an MPRN, or some other sensible proxy to the extent that the Registration Data does not readily identify whether a premises is a Domestic Premises and Non-Domestic Premises).

Cost-reflectivity

K3.5 One of the Charging Objectives is that the Charges are cost reflective (insofar as reasonably practicable in the circumstances of the case, having regard to the cost of implementing the methodology and subject to the objective referred to in Section K3.4). Consistent with the Charging Objectives, the methodology provides (subject to Section K3.4) for:

- (a) the Fixed Charges in respect of a Smart Metering System to be set proportionately to the costs and expenses of providing the Services (other than the Communications Hub Services, the Elective Communication Services and the Explicit Charging Metrics) in respect of that Smart Metering System by Region and Charging Group;
- (b) the Fixed CH Charges in respect of a Smart Metering System to be set proportionately to the costs and expenses of providing the Communications Hub Services (other than the Explicit Charging Metrics) in respect of that Smart Metering System by Region and Charging Group; and

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) the Fixed Alt HAN Charges in respect of a Smart Metering System to be set proportionately to the costs of reimbursing AltHANCo for the Alt HAN Costs (other than the Explicit Charging Metrics) in respect of that Smart Metering System by Charging Group,

in each case as set out in the remainder of this Section K3.

Regions

K3.6 The costs and expenses of providing the Services (ignoring the Elective Communication Services and ignoring the costs and expenses designed to be recovered pursuant to the Explicit Charges) in respect of a Smart Metering System for a premises may vary depending upon the Region in which such premises is located. For the reasons described in Section K3.4, the Fixed Charges and Fixed CH Charges in respect of Smart Metering Systems for Domestic Premises will not differ by Region, but those in respect of Smart Metering Systems for Non-Domestic Premises may.

K3.7 For the reasons described in Section K3.5 and K3.6, the DCC must split the Estimated Fixed Revenue for Regulatory Year (t) between:

- (a) revenue relating to the cost and expenses of providing the Services that should be recovered on a uniform basis across all the Regions (the **National Fixed Revenue**);
- (b) revenue relating to the reimbursement of Alt HAN Costs (the **Alt HAN Fixed Revenue**); and
- (c) revenue relating to the cost and expenses of providing the Services that should be recovered on a basis that differentiates between Regions (for each Region, the **Regional Fixed Revenue**).

K3.8 Whilst neither Fixed Charges and Fixed CH Charges in respect of Domestic Premises, nor any Fixed Alt HAN Charges, will ultimately vary by Region, in order to determine the regional charges to apply in respect of Non-Domestic Premises, the DCC must first apportion the entirety of the Estimated Fixed Revenue between those costs which do and those which do not vary by Region (initially disregarding the fact

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

that the Fixed Alt HAN Charges and other charges in respect of Domestic Premises will ultimately be recovered on a uniform basis). For these purposes, the DCC shall apportion the Estimated Fixed Revenue between:

- (a) the National Fixed Revenue, the Alt HAN Fixed Revenue and the Regional Fixed Revenue for each Region so as to reflect the relative proportion of the cost and expenses that the DCC incurs across all Regions or in particular Regions in providing the Services and in reimbursing the Alt HAN Costs (ignoring the Communications Hub Services and the Elective Communication Services and ignoring the costs and expenses designed to be recovered pursuant to the Explicit Charges); and
- (b) the Regional Communications Hub Revenue for each Region so as to reflect the cost and expenses that the DCC incurs in providing the Communications Hub Services in that Region (ignoring the costs and expenses designed to be recovered pursuant to the Explicit Charges),

in each case, so that any revenue restriction correction factor adjustment contained within the Estimated Fixed Revenue is apportioned between (a) or (b) above on the basis of the extent to which it arose in relation either to the Services other than the Communications Hub Services and to the Alt HAN Costs, or to the Communications Hub Services (respectively).

K3.9 The apportionment described in Sections K3.7 and K3.8 shall be such that:

$$EFR_t = NFR_t + AHFR_t + \sum_{\forall r} RFR_{rt} + \sum_{\forall r} RCHR_{rt}$$

Where:

EFR_t = the Estimated Fixed Revenue (estimated in accordance with Section K2) for Regulatory Year (t).

NFR_t = the National Fixed Revenue (estimated in accordance with Section K3.7) for Regulatory Year (t).

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$AHFR_t =$ the Alt HAN Fixed Revenue (estimated in accordance with Section K3.7) for Regulatory Year (t).

$RFR_{rt} =$ the Regional Fixed Revenue (estimated in accordance with Section K3.7) within each Region (r) for Regulatory Year (t).

$RCHR_{rt} =$ the Regional Communications Hub Revenue (estimated in accordance with Section K3.7) within each Region (r) for Regulatory Year (t).

Charging Groups

K3.10 The methodology recognises the following five categories for Smart Metering Systems. The Fixed Charges are payable by Parties in all five categories (each a **Charging Group**). The Fixed CH Charges are payable by Parties in only the first three categories (each a **CH Charging Group**). The Fixed Alt HAN Charges are payable by Parties in only the first and third categories (each an **Alt HAN Charging Group**):

- (a) the Import Suppliers (**Charging Group g1**);
- (b) the Export Suppliers (**Charging Group g2**);
- (c) the Gas Suppliers (**Charging Group g3**);
- (d) the Electricity Distributors (**Charging Group g4**); and
- (e) the Gas Transporters (**Charging Group g5**).

Application of Charging Group Weighting Factors

K3.11 For the reasons described in Section K3.5, the Fixed Charges, Fixed CH Charges and Fixed Alt HAN Charges payable by each Charging Group may need to differ. This is achieved through the Charging Group, CH Charging Group and Alt HAN Charging Group Weighting Factors.

K3.12 The Weighting Factors are designed:

- (a) to reflect the relative proportion of the costs and expenses likely to be incurred by the DCC in providing the Services and in reimbursing the Alt HAN Costs

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(ignoring the Elective Communication Services and ignoring the costs and expenses designed to be recovered pursuant to the Explicit Charges) to the persons in each Charging Group;

- (b) to specify the ratio of the costs and expenses to be incurred in respect of each Smart Metering System (without regard to the number of Smart Metering Systems); and
- (c) so that the sum of the Charging Group, CH Charging Group and Alt HAN Charging Group Weighting Factors shall in each case be equal to one (1).

K3.13 For Fixed Charges, the “**Charging Group Weighting Factors**” to apply to each Charging Group in respect of each Regulatory Year are to be determined by the DCC in accordance with Section K3.12, and set out in the Charging Statement for that Regulatory Year. The DCC shall make such determination based on its estimate of the demand of persons within each Charging Group for each of the Services other than the Elective Communication Services. Prior to the start of the UITMR Period, such estimates of demand will be based on assumptions for the Regulatory Year starting on 1st April 2021. Once data on usage becomes available the estimates will be determined as the average of the previous two full Regulatory Years of actual data plus the DCC’s forecasts for the two Regulatory Years ahead.

K3.14 For Fixed CH Charges, the “**CH Charging Group Weighting Factors**” to apply to each CH Charging Group in respect of each Regulatory Year are to be determined by the DCC on the basis of the relative proportion of their Charging Group Weighting Factors, such that:

$$\beta_{gt} = \frac{\alpha_{gt}}{\sum_{g=1..3} \alpha_{gt}}$$

Where:

β_{gt} = the CH Charging Group Weighting Factor for applicable to Regulatory Year (t) and each Charging Group (g)

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

α_{gt} = the Charging Group Weighting Factor applicable to Regulatory Year (t) and each Charging Group (g).

K3.15 For Fixed Alt HAN Charges, the “**Alt HAN Charging Group Weighting Factors**” to apply to each Alt HAN Charging Group in respect of each Regulatory Year are to be determined by the DCC on the basis of an expectation of equal use of Alt HAN services per Enrolled Smart Metering System by Import Suppliers and Gas Suppliers, such that:

$\gamma_{gt} = 0.5$ where g =1 or 3

$\gamma_{gt} = 0$ where g =2, 4 or 5

Where:

γ_{gt} = the Alt HAN Charging Group Weighting Factor for applicable to Regulatory Year (t) and each Charging Group (g).

Description of Approach to Determining Fixed Charges for Smart Metering Systems for Domestic Premises during and after the UITMR Period

K3.16 In the case of the methodology applying during and after the UITMR Period, the approach to determining the Fixed Charges payable in respect of Smart Metering Systems for Domestic Premises is as set out in Section K5.5 and K6.4 (respectively). The approach to determining the Fixed CH Charges payable in respect of Smart Metering Systems for Domestic Premises is as set out in Section K6A.4. However, to assist Parties in understanding those Sections, the approach is described in generic terms below:

- (a) the first part of the equation determines an amount that would be recovered in total in respect of all Smart Metering Systems for Domestic Premises across all Regions and Charging Groups were the charges to be calculated in the same manner as those for Smart Metering Systems for Non-Domestic Premises; and
- (b) the second part of the equation is then used to pro-rate this total amount on a non-geographic basis across all persons in each Charging Group. This results in the required uniform charge for each Charging Group in respect of Smart

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Metering Systems for Domestic Premises, and provides the same aggregate revenue for DCC as would have been derived from the same number of Smart Metering Systems for Non-Domestic Premises at the same locations.

Determining Fixed CH Charges

K3.17 In determining the Fixed CH Charges, the DCC shall calculate its cost-reflective charging under Section K3.7 on the basis of the cost of a Standard Communications Hub.

K3.18 In determining the Fixed CH Charges, the DCC shall have regard to the need, for the purposes of making a prudent estimate in accordance with Condition 36.5 of the DCC Licence, to provide for the availability at all times of a contingency fund in respect of the Communications Hub Finance Charges relating to each Communications Hub Finance Facility that is equal to the DCC’s estimate of three months of the Communications Hub Finance Costs relating to that facility.

K3.19 No Explicit Charge applies in the event that a Communications Hub is Withdrawn. Therefore, in order to determine the Fixed CH Charges, the DCC shall calculate a factor to be applied to the charges that would otherwise have applied in order to reflect the costs to the DCC of Communications Hubs being Withdrawn before the costs of those Communications Hubs have been recovered in full. Such factor shall be the “**Non-Domestic Withdrawal Factor**” (which shall be the same for each CH Charging Group and Region).

Description of Approach to Determining Fixed Alt HAN Charges for Smart Metering Systems for Domestic Premises and Non-Domestic Premises after the UITMR Period

K3.20 The “**Alt HAN Cost Domestic Allocation**” is a factor between zero and one that is determined by the DCC based on information provided by AltHANCo to reflect the proportion of usage of Alt HAN Equipment in Domestic Premises expressed as a fraction of the total usage across both Domestic and Non-Domestic Premises and is represented by μ_t for Regulatory Year (t) such that:

$$\mu_t = \frac{DAHU_t}{DAHU_t + NAHU_t}$$

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Where:

DAHU_t is the number of MPANs and MPRNs associated with the use of Alt HAN Equipment in Domestic Premises, derived by the DCC from the data provided to it by AltHANCo in accordance with Section Z4.35 (Provision of Information to the DCC) and available to it one month prior to the issue of the most recent Charging Statement and the Registration Data prevailing at that time.

NAHU_t is the number of MPANs and MPRNs associated with the use of Alt HAN Equipment in Non-Domestic Premises, derived by the DCC from the data provided to it by AltHANCo in accordance with Section Z4.35 (Provision of Information to the DCC) and available to it one month prior to the issue of the most recent Charging Statement and the Registration Data prevailing at that time.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K4 DETERMINING FIXED CHARGES BEFORE THE UITMR PERIOD

Introduction

K4.1 The DCC will determine the Fixed Charges for each Regulatory Year occurring prior to the UITMR Period in accordance with this Section K4, using:

- (a) the Estimated Fixed Revenue for that Regulatory Year determined in accordance with Section K2;
- (b) an estimate, in accordance with this Section K4, of the number of Mandated Smart Metering Systems for Domestic Premises that will exist as at the beginning of that Regulatory Year; and
- (c) the Charging Group Weighting Factors described in Section K3.

Estimates

K4.2 In respect of Regulatory Years occurring prior to the UITMR Period:

- (a) the DCC must estimate the aggregate number of Mandated Smart Metering Systems for Domestic Premises that will exist as at the beginning of that Regulatory Year;
- (b) the DCC must estimate the number of persons in each Charging Group for such Mandated Smart Metering Systems; and
- (c) the estimate pursuant to Section K4.2(b) in respect of a Regulatory Year (t) and each Charging Group (g) shall be represented as $EMSMS_{gt}$.

Determining the Fixed Charges

K4.3 The DCC will determine the Fixed Charge payable in respect of each month (or part month) of Regulatory Year (t) by each person in each Charging Group (g) in respect of each Mandated Smart Metering System (FC_{gt}) as follows:

$$FC_{gt} = \frac{EFR_t}{NM_t} \times \frac{\alpha_{gt}}{\sum_{\forall g} (\alpha_{gt} \times EMSMS_{gt})}$$

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Where:

α_{gt} = the Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g)

NM_t = the number of months (or part months) in Regulatory Year (t)

EFR_t = the Estimated Fixed Revenue (estimated in accordance with Section K2) for Regulatory Year (t)

$EMSMS_{gt}$ = the estimate pursuant to Section K4.2(c) for Regulatory Year (t) and each Charging Group (g).

Calculating number of MSMSs for Fixed Charge Payment

K4.4 Following the end of each month (or part month) occurring during each Regulatory Year prior to the UITMR Period, the DCC will:

- (a) determine (insofar as it is able) the actual number of Mandated Smart Metering Systems that existed at the end of the 15th day of that month (or, in the case of a part month that ends on or prior to the 15th day of that month, at the end of that part month);
- (b) calculate the number of persons in each Charging Group for such Mandated Smart Metering Systems; and
- (c) break down these calculations by reference to each Party.

K4.5 The calculation in accordance with Section K4.4(c) for each month (or part month) (m) during Regulatory Year (t) and each Party (p) in each Charging Group (g) shall be represented as $AMSMS_{pgmt}$.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K5 DETERMINING FIXED CHARGES DURING THE UITMR PERIOD

Introduction

K5.1 The DCC will determine the Fixed Charges for each Regulatory Year during the UITMR Period in accordance with this Section K5, using:

- (a) the National Fixed Revenue and the Regional Fixed Revenue for that Regulatory Year determined in accordance with Section K3;
- (b) an estimate, in accordance with this Section K5, of the number of Smart Metering Systems for Non-Domestic Premises that will have been Enrolled (and not Withdrawn) as at the beginning of that Regulatory Year;
- (c) an estimate, in accordance with this Section K5, of the number of Mandated Smart Metering Systems for Domestic Premises that will exist as at the beginning of that Regulatory Year; and
- (d) the Charging Group Weighting Factors and other relevant matters described in Section K3.

Estimates: Non-Domestic Premises

K5.2 In respect of Regulatory Years occurring during the UITMR Period:

- (a) the DCC will estimate the total number of Smart Metering Systems for Non-Domestic Premises that will have been Enrolled (and not Withdrawn) as at the beginning of that Regulatory Year;
- (b) the DCC must estimate the number of persons in each Charging Group for such Smart Metering Systems;
- (c) the DCC must break down its estimate pursuant to Section K5.2(b) by reference to the number of Smart Metering Systems in each Region; and
- (d) the estimate pursuant to Section K5.2(c) in respect of a Regulatory Year (t), each Charging Group (g) and each Region (r), shall be represented as $RENSMS_{grt}$.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Estimates: Domestic Premises

K5.3 In respect of Regulatory Years occurring during the UITMR Period:

- (a) the DCC must estimate the aggregate number of Mandated Smart Metering Systems that will exist as at the beginning of that Regulatory Year;
- (b) the DCC must estimate the number of persons in each Charging Group for such Mandated Smart Metering Systems;
- (c) the DCC must break down its estimate pursuant to Section K5.3(b) by reference to the number of Mandated Smart Metering Systems in each Region; and
- (d) the estimate pursuant to Section K5.3(c) in respect of a Regulatory Year (t), each Charging Group (g) and each Region (r), shall be represented as $REDSMS_{grt}$.

Determining the Fixed Charges: Non-Domestic Premises

K5.4 For each Regulatory Year (t), the DCC will determine the Fixed Charge payable in respect of each month (or part month) of Regulatory Year (t) by each person within each Charging Group (g) in respect of each Enrolled Smart Metering System for a Non-Domestic Premises in each Region (r) ($RNFC_{grt}$), as follows:

$$RNFC_{grt} = \frac{NFR_t}{NM_t} \times \frac{\alpha_{gt}}{\sum_{\forall g} (\alpha_{gt} \times \sum_{\forall r} RESMS_{grt})} + \frac{RFR_{rt}}{NM_t} \times \frac{\alpha_{gt}}{\sum_{\forall g} (\alpha_{gt} \times RESMS_{grt})}$$

Where:

α_{gt} = the Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g)

NM_t = the number of months (or part months) in Regulatory Year (t)

NFR_t = the National Fixed Revenue (estimated in accordance with Section K3) for Regulatory Year (t)

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

RF_{rt} = the Regional Fixed Revenue (estimated in accordance with Section K3) for Regulatory Year (t) and Region (r)

$$\forall g \forall r \quad RESMS_{grt} = REDSMS_{grt} + RENSMS_{grt}$$

$RENSMS_{grt}$ = the estimate pursuant to Section K5.2(d) for Regulatory Year (t), each Charging Group (g) and each Region (r)

$REDSMS_{grt}$ = the estimate pursuant to Section K5.3(d) for Regulatory Year (t), each Charging Group (g) and each Region (r).

Determining the Fixed Charges: Domestic Premises

K5.5 For each Regulatory Year (t), the DCC will determine the Fixed Charge payable in respect of each month (or part month) of Regulatory Year (t) by each person within each Charging Group (g) in respect of each Mandated Smart Metering System ($RDFC_{gt}$) as follows:

$$RDFC_{gt} = \sum_{\forall g \forall r} (RNFC_{grt} \times REDSMS_{grt}) \times \frac{\alpha_{gt}}{\sum_{\forall g} (\alpha_{gt} \times \sum_{\forall r} REDSMS_{grt})}$$

Where:

α_{gt} = the Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g)

$RNFC_{grt}$ = the Fixed Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in each Charging Group (g) in respect of Enrolled Smart Metering Systems for Non-Domestic Premises in each Region (r), as calculated in accordance with Section K5.4

$REDSMS_{grt}$ = the estimate pursuant to Section K5.3(d) for Regulatory Year (t), each Charging Group (g) and each Region (r).

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Calculating number of ESMSs for Fixed Charge Payment: Non-Domestic Premises

K5.6 Following the end of each month (or part month) occurring during each Regulatory Year during the UITMR Period, the DCC will:

- (a) determine the actual number of Smart Metering Systems for Non-Domestic Premises that have been Enrolled (and not Withdrawn) as at the end of the 15th day of that month (or, in the case of a part month that ends on or prior to the 15th day of that month, at the end of that part month), whether Enrolled during that month or previously;
- (b) calculate the number of persons within each Charging Group for those Enrolled Smart Metering Systems; and
- (c) break down these calculations by reference to each Party, and by reference to the Region in which such premises are located.

K5.7 The calculations in accordance with Section K5.6 of the number of Enrolled Smart Metering Systems for Non-Domestic Premises as at the end of each month (m) during Regulatory Year (t) within each Charging Group (g) broken down by reference to each Party (p), and by reference to each Region (r), shall be represented as $ANSMS_{pgrmt}$.

Calculating number of MSMSs for Fixed Charge Payment: Domestic Premises

K5.8 Following the end of each month (or part month) occurring during each Regulatory Year during the UITMR Period, the DCC will:

- (a) determine (insofar as it is able) the actual number of Mandated Smart Metering Systems for Domestic Premises as at the end of the 15th day of that month (or, in the case of a part month that ends on or prior to the 15th day of that month, at the end of that part month);
- (b) calculate the number of persons within each Charging Group for those Mandated Smart Metering Systems; and
- (c) break down these calculations by reference to each Party.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K5.9 The calculations in accordance with Section K5.8 of the number of Mandated Smart Metering Systems as at the end of each month (or part month) (m) during Regulatory Year (t) within each Charging Group (g) broken down by reference to each Party (p) shall be represented as $ADSMS_{pgmt}$.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K5A DETERMINING FIXED ALT HAN CHARGES DURING THE UITMR PERIOD

Introduction

K5A.1 The DCC will determine the Fixed Alt HAN Charges for each Regulatory Year during the UITMR Period in accordance with this Section K5A, using:

- (a) the Alt HAN Fixed Revenue for that Regulatory Year estimated in accordance with Section K3;
- (b) an estimate, in accordance with Section K5, of the number of Smart Metering Systems for Non-Domestic Premises that will have been Enrolled (and not Withdrawn) as at the beginning of that Regulatory Year;
- (c) an estimate, in accordance with Section K5, of the number of Mandated Smart Metering Systems for Domestic Premises that will exist as at the beginning of that Regulatory Year; and
- (d) the Alt HAN Charging Group Weighting Factors and other relevant matters described in Section K3.

Determining the Alt HAN Fixed Charges

K5A.2 For each Regulatory Year (t), the DCC will determine the Alt HAN Fixed Charge payable in respect of each month (or part month) of Regulatory Year (t) by each person within each Alt HAN Charging Group (g) in respect of each Mandated Smart Metering System and Enrolled Smart Metering System and Non-Domestic Premises ($RAHFC_{gt}$), as follows:

$$RAHFC_{gt} = \frac{AHFR_t}{NM_t} \times \frac{\gamma_{gt}}{\sum_{\forall g} (\gamma_{gt} \times \sum_{\forall r} RESMS_{grt})}$$

Where:

γ_{gt} = the Alt HAN Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g);

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$NM_t =$ the number of months (or part months) in Regulatory Year (t);

$AHFR_t =$ the Alt HAN Fixed Revenue (estimated in accordance with Section K3) for Regulatory Year (t);

$$\forall g \forall r \quad RESMS_{grt} = REDSMS_{grt} + RENSMS_{grt}$$

$RENSMS_{grt} =$ the estimate pursuant to Section K5.2(d) for Regulatory Year (t), each Charging Group (g) and each Region (r);

$REDSMS_{grt} =$ the estimate pursuant to Section K5.3(d) for Regulatory Year (t), each Charging Group (g) and each Region (r).

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K6 DETERMINING FIXED CHARGES AFTER THE UITMR PERIOD (ENDURING)

Introduction

K6.1 The DCC will determine the Fixed Charges for each Regulatory Year following the UITMR Period in accordance with this Section K6, using:

- (a) the National Fixed Revenue and the Regional Fixed Revenue for that Regulatory Year determined in accordance with Section K3;
- (b) an estimate, in accordance with this Section K6, of the number of Smart Metering Systems that will have been Enrolled (and not Withdrawn) as at the beginning of that Regulatory Year; and
- (c) the Charging Group Weighting Factors and other relevant matters described in Section K3.

Estimates

K6.2 In respect of Regulatory Years occurring after the UITMR Period, the DCC will estimate the number of Smart Metering Systems that will have been Enrolled (and not Withdrawn) as at the beginning of that Regulatory Year. The DCC shall undertake such estimates for Domestic Premises and Non-Domestic Premises separately (being *EDSMS* and *ENSMS* respectively). For each such Regulatory Year (t), the DCC will estimate the average number of persons within each Charging Group (g) for such Smart Metering Systems, and break down such estimates by reference to the Region (r) in which the premises is located, such that:

$$\forall g \forall r \quad ESMS_{grt} = EDSMS_{grt} + ENSMS_{grt}$$

Where:

*EDSMS*_{grt} = the DCC's estimate of the number of persons within each Charging Group (g) for Smart Metering Systems for Domestic Premises that will have been Enrolled (and not Withdrawn) as at the beginning of that Regulatory Year (t), broken down by Region (r); and

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$ENSMS_{grt}$ = the DCC’s estimate of the number of persons within each Charging Group (g) for Smart Metering Systems for Non-Domestic Premises that will have been Enrolled (and not Withdrawn) as at the beginning of that Regulatory Year (t), broken down by Region (r).

Determining the Fixed Charges: Non-Domestic Fixed Charges

K6.3 For each Regulatory Year (t), the DCC will determine the Fixed Charge payable in respect of each month (or part month) of Regulatory Year (t) by each person within each Charging Group (g) in respect of each Enrolled Smart Metering System for a Non-Domestic Premises in each Region (r) (NFC_{grt}) as follows:

$$NFC_{grt} = \frac{NFR_t}{NM_t} \times \frac{\alpha_{gt}}{\sum_{\forall g} (\alpha_{gt} \times \sum_{\forall r} ESMS_{grt})} + \frac{RFR_{rt}}{NM_t} \times \frac{\alpha_{gt}}{\sum_{\forall g} (\alpha_{gt} \times ESMS_{grt})}$$

Where:

α_{gt} = the Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g)

NM_t = the number of months (or part months) in Regulatory Year (t)

NFR_t = the National Fixed Revenue (determined in accordance with Section K3) for Regulatory Year (t)

$ESMS_{grt}$ = the estimated number of persons within each Charging Group (g) for Enrolled Smart Metering Systems determined in accordance with Section K6.2 for Regulatory Year (t) and each Region (r)

RFR_{rt} = the Regional Fixed Revenue (determined in accordance with Section K3) for Regulatory Year (t) and each Region (r).

Determining the Fixed Charges: Domestic Fixed Charges

K6.4 For each Regulatory Year (t), the DCC will determine the Fixed Charge payable in respect of each month (or part month) of Regulatory Year (t) by each person within each Charging Group (g) in respect of each Enrolled Smart Metering System for a

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Domestic Premises (DFC_{gt}) as follows:

$$DFC_{gt} = \sum_{\forall g \forall r} (NFC_{grt} \times EDSMS_{grt}) \times \frac{\alpha_{gt}}{\sum_{\forall g} (\alpha_{gt} \times \sum_{\forall r} EDSMS_{grt})}$$

Where:

α_{gt} = the Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g)

NFC_{grt} = the Fixed Charges payable in respect of months (or part months) during Regulatory Year (t) by persons in each Charging Group (g) in respect of Enrolled Smart Metering Systems for Non-Domestic Premises in each Region (r), as determined in accordance with Section K6.3

$EDSMS_{grt}$ = the estimated average number of persons within each Charging Group (g) for Enrolled Smart Metering Systems for Domestic Premises determined in accordance with Section K6.2 for Regulatory Year (t) and each Region (r).

Calculating number of ESMSs for Fixed Charge Payment

K6.5 Following the end of each month (or part month) during each Regulatory Year occurring after the UITMR Period, the DCC will:

- (a) determine the actual number of Smart Metering Systems that have been Enrolled (and not Withdrawn) as at the end of the 15th day of that month (or, in the case of a part month that ends on or prior to the 15th day of that month, at the end of that part month), whether Enrolled during that month or previously, and shall do so for Domestic Premises and for Non-Domestic Premises separately;
- (b) calculate the number of persons within each Charging Group for such Enrolled Smart Metering Systems; and
- (c) break down these calculations by reference to Parties (p), and (in the case of

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Smart Metering Systems for Non-Domestic Premises only) by reference to the Region in which such premises are located.

K6.6 The calculations in accordance with Section K6.5 of the number of Enrolled Smart Metering Systems as at the end of each month (or part month) (m) during Regulatory Year (t) within each Charging Group (g) broken down by reference to each Party (p), and (in the case of Non-Domestic Premises only) by reference to each Region (r), shall:

- (a) in respect of Domestic Premises, be represented as $ADSMS_{pgmt}$; and
- (b) in respect of Non-Domestic Premises, be represented as $ANSMS_{pgrmt}$.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K6A DETERMINING FIXED CH CHARGES

Introduction

K6A.1 The DCC will determine the Fixed CH Charges for each Regulatory Year during or after the UITMR Period in accordance with this Section K6A, using:

- (a) the Regional Communications Hub Revenue for that Regulatory Year determined in accordance with Section K3;
- (b) an estimate, in accordance with this Section K6A, of the average number of Smart Metering Systems that there will be during that Regulatory Year; and
- (c) the CH Charging Group Weighting Factors and other relevant matters described in Section K3.

Estimates

K6A.2 In respect of each Regulatory Year occurring during or after the UITMR Period, the DCC will estimate the average number of Smart Metering Systems that there will be during the Regulatory Year. The DCC shall undertake such estimates for Domestic Premises and Non-Domestic Premises separately (being *EDCH* and *ENCH* respectively). For each such Regulatory Year (t), the DCC will estimate the average number of persons within each CH Charging Group (g) for such Smart Metering Systems, and break down such estimates by reference to the Region (r) in which the premises is located, such that:

$$\forall g \forall r \quad ECH_{grt} = EDCH_{grt} + ENCH_{grt}$$

Where:

*EDCH*_{grt} = the DCC's estimate of the average number of persons within each CH Charging Group (g) for Smart Metering Systems for Domestic Premises during that Regulatory Year (t), broken down by Region (r);
and

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$ENCH_{grt}$ = the DCC’s estimate of the average number of persons within each CH Charging Group (g) for Smart Metering Systems for Non-Domestic Premises during that Regulatory Year (t), broken down by Region (r).

Determining the Fixed CH Charges: Non-Domestic

K6A.3 For each Regulatory Year (t), the DCC will determine the Fixed CH Charge payable in respect of each month (or part month) of Regulatory Year (t) by each person within each CH Charging Group (g) in respect of each Smart Metering System for a Non-Domestic Premises in each Region (r) ($NCHC_{grt}$) as follows:

$$NCHC_{grt} = (1 + \delta_t) \times BNCHC_{grt}$$

Where:

$$BNCHC_{grt} = \frac{RCHR_{rt}}{NM_t} \times \frac{\beta_{gt}}{\sum_{\forall g} (\beta_{gt} \times ECH_{grt})}$$

β_{gt} = the CH Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g)

NM_t = the number of months (or part months) in Regulatory Year (t)

$RCHR_{rt}$ = the Regional Communications Hub Revenue (determined in accordance with Section K3) for Regulatory Year (t) and Region (r)

ECH_{grt} = the estimated number of persons within each Charging Group (g) for Smart Metering Systems determined in accordance with Section K6A.2 for Regulatory Year (t) and each Region (r)

δ_t = the Non-Domestic Withdrawal Factor (determined in accordance with Section K3) for Regulatory Year (t).

Determining the Fixed CH Charges: Domestic

K6A.4 For each Regulatory Year (t), the DCC will determine the Fixed CH Charge payable in respect of each month (or part month) of Regulatory Year (t) by each person within

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

each Charging Group (g) in respect of each Smart Metering System for a Domestic Premises ($DCHC_{gt}$) as follows:

$$DCHC_{gt} = \sum_{\forall g \forall r} (BNCHC_{grt} \times EDCH_{grt}) \times \frac{\beta_{gt}}{\sum_{\forall g} (\beta_{gt} \times \sum_{\forall r} EDCH_{grt})}$$

Where:

$EDCH_{grt}$ = the estimated average number of persons within each Charging Group (g) for Smart Metering Systems for Domestic Premises determined in accordance with Section K6A.2 for Regulatory Year (t) and each Region (r).

Calculating number of CHs for Fixed CH Charge Payment

K6A.5 Following the end of each month (or part month) during each Regulatory Year occurring during or after the UITMR Period, the DCC will:

- (a) determine the actual number of Smart Metering Systems that there are as at the end of the 15th day of that month (or, in the case of a part month that ends on or prior to the 15th day of that month, at the end of that part month), and shall do so for Domestic Premises and for Non-Domestic Premises separately;
- (b) calculate the number of persons within each CH Charging Group for such Smart Metering Systems; and
- (c) break down these calculations by reference to Parties (p), and (in the case of Smart Metering Systems for Non-Domestic Premises only) by reference to the Region in which such premises are located.

K6A.6 The calculations in accordance with Section K6A.5 of the number of Smart Metering Systems as at the end of each month (or part month) (m) during Regulatory Year (t) within each Charging Group (g) broken down by reference to each Party (p), and (in the case of Non-Domestic Premises only) by reference to each Region (r), shall:

- (a) in respect of Domestic Premises, be represented as $ADCH_{pgmt}$; and

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(b) in respect of Non-Domestic Premises, be represented as ANCH_{pgmnt}.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K6B DETERMINING FIXED ALT HAN CHARGES AFTER THE UITMR PERIOD (ENDURING)

K6B.1 The DCC will determine the Fixed Alt HAN Charges for each Regulatory Year after the UITMR Period in accordance with this Section K6B, using:

- (a) the Alt HAN Fixed Revenue, for that Regulatory Year estimated in accordance with Section K3;
- (b) an estimate, in accordance with Section K6, of the number of Smart Metering Systems that there will have been Enrolled (and not Withdrawn) at the beginning of that Regulatory Year; and
- (c) the Alt HAN Charging Group Weighting Factors and other relevant matters described in Section K3.

Determining the Alt HAN Fixed Charges: Domestic

K6B.2 For each Regulatory Year (t) following the UITMR Period, the DCC will determine the Alt HAN Fixed Charges payable in respect of each month (or part month) of Regulatory Year (t) by each person within each Alt HAN Charging Group (g) in respect of each Enrolled Smart Metering System for a Domestic Premises ($DAHFC_{gt}$) as follows:

$$DAHFC_{gt} = \frac{AHR_t}{NM_t} \times \frac{\mu_t \times \gamma_{gt}}{\sum_{\forall g} (\gamma_{gt} \times \sum_{\forall r} EDSMS_{grt})}$$

Where:

μ_t = the Alt HAN Central Cost Domestic Allocation applicable to Regulatory Year (t) (set out in Section K3);

γ_{gt} = the Alt HAN Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g);

NM_t = the number of months (or part months) in Regulatory Year (t);

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$EDSMS_{grt}$ = the estimated number of persons within each Charging Group (g) for Enrolled Smart Metering Systems for Domestic Premises determined in accordance with Section K6.2 for Regulatory Year (t) and each Region (r);

$AHFR_t$ = the Alt HAN Fixed Revenue (estimated in accordance with Section K3) for Regulatory Year (t).

Determining the Alt HAN Fixed Charges: Non-Domestic

K6B.3 For each Regulatory Year (t) following the UITMR Period, the DCC will determine the Alt HAN Fixed Charges payable in respect of each month (or part month) of Regulatory Year (t) by each person within each Alt HAN Charging Group (g) in respect of each Enrolled Smart Metering System for a Non-Domestic Premises ($NAHFC_{gt}$) as follows:

$$NAHFC_{gt} = \frac{AHFR_t}{NM_t} \times \frac{(1 - \mu_t) \times \gamma_{gt}}{\sum_{\forall g} (\gamma_{gt} \times \sum_{\forall r} ENSMS_{grt})}$$

Where:

μ_t = the Alt HAN Central Cost Domestic Allocation (set out in Section K3);

γ_{gt} = the Alt HAN Charging Group Weighting Factor (as set out in Section K3) applicable to Regulatory Year (t) and each Charging Group (g);

NM_t = the number of months (or part months) in Regulatory Year (t);

$ENSMS_{grt}$ = the estimated number of persons within each Alt HAN Charging Group (g) for Enrolled Smart Metering Systems for Non-Domestic Premises determined in accordance with Section K6.2 for Regulatory Year (t) and each Region (r);

$AHFR_t$ = the Alt HAN Fixed Revenue (estimated in accordance with Section K3) for Regulatory Year (t).

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K7 DETERMINING EXPLICIT CHARGES

Introduction

- K7.1 The Explicit Charges for each Regulatory Year are payable in respect of the Explicit Charging Metrics for that Regulatory Year.
- K7.2 The Explicit Charging Metrics from time to time are as set out in this Section K7.
- K7.3 Part of the rationale for Explicit Charging Metrics is to allow the DCC to closely reflect the charges it pays to the DCC Service Providers in respect of certain services, to SECCo in respect of certain Recoverable Costs, and to AltHANCo in respect of the Alt HAN Costs, so as to minimise the risks for the DCC associated with uncertainty regarding the frequency with which such services are to be provided or such Alt HAN Costs are incurred. The Explicit Charging Metrics may comprise any or all of the Core Communication Services and of the Enabling Services (so they are a sub-set of all Services other than the Elective Communication Services) and of the Alt HAN Costs. The Explicit Charging Metrics represent those Core Communication Services, Enabling Services and Alt HAN Costs that are to be charged for separately from the Fixed Charges, Fixed CH Charges and Fixed Alt HAN Charges.
- K7.4 The DCC will determine the Explicit Charges for each Regulatory Year in accordance with this Section K7.

Explicit Charging Metrics

- K7.5 The Explicit Charging Metrics for each Party and the Charging Period for each month are as follows:
- (a) (*'security assessments'*) an obligation to pay arising during that Charging Period in respect of that Party pursuant to Section G8.51 (Users: Obligation to Pay Charges) in relation to User Security Assessments, Follow-up Security Assessments, User Security Assessment Reports or the activities of the Independent Security Assurance Service Provider;
 - (b) (*'privacy assessments'*) an obligation to pay arising during that Charging Period in respect of that Party pursuant to Section I2.40 (Users: Obligation to

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Pay Charges) in relation to Full Privacy Assessments, Random Sample Privacy Assessments, Privacy Assessment Reports or the activities of the Independent Privacy Auditor;

- (c) (*LV gateway connection*) an obligation to pay arising during that Charging Period in accordance with an offer for a DCC Gateway LV Connection accepted by that Party pursuant to Section H15 (DCC Gateway Connections), including where the obligation to pay is preserved under Section H15.19(b) (Ongoing Provision of a DCC Gateway Connection);
- (d) (*HV gateway connection*) an obligation to pay arising during that Charging Period in accordance with an offer for a DCC Gateway HV Connection accepted by that Party pursuant to Section H15 (DCC Gateway Connections), including where the obligation to pay is preserved under Section H15.19(b) (Ongoing Provision of a DCC Gateway Connection);
- (e) (*gateway equipment relocation*) an obligation to pay arising during that Charging Period as a result of a request by that Party to relocate DCC Gateway Equipment under Section H15.27 (DCC Gateway Equipment);
- (f) (*elective service evaluations*) an obligation to pay arising during that Charging Period under the terms and conditions accepted by that Party for a Detailed Evaluation in respect of potential Elective Communication Services pursuant to Section H7.8 (Detailed Evaluations of Elective Communication Services);
- (g) (*P&C support*) an obligation to pay arising during that Charging Period under the terms and conditions accepted by that Party in relation to that Party's use or implementation of the Parse and Correlate Software pursuant to Section H11.12 (Provision of Support & Assistance to Users);
- (h) (*SM WAN for testing*) an obligation to pay arising during that Charging Period from the acceptance by that Party of the charges offered by the DCC to provide a connection to a simulation of the SM WAN pursuant to Section H14.31 (Device and User System Testing);
- (i) (*additional testing support*) an obligation to pay arising during that Charging

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Period from the acceptance by that Party of the charges offered by the DCC to provide additional testing support to that Party pursuant to Section H14.33 (Device and User System Testing);

- (j) ('*communication services*') the number of each of the Services identified in the DCC User Interface Services Schedule which have been provided to that Party during that Charging Period;
- (k) ('*CH non-standard delivery*') an obligation to pay arising during that Charging Period as a result of the request by that Party for non-standard Communications Hub Product delivery requirements pursuant to Section F6.17 (Non-Standard Delivery Options);
- (l) ('*CH stock level charge*') the number (to be measured at the end of that Charging Period) of Communications Hubs that have been delivered to that Party under Section F6 (Delivery and Acceptance of Communications Hubs) and for which none of the following has yet occurred: (i) identification on the Smart Metering Inventory as 'installed not commissioned' or 'commissioned'; (ii) rejection in accordance with Section F6.10 (Confirmation of Delivery); (iii) delivery to the DCC in accordance with Section F8 (Removal and Return of Communications Hubs); or (iv) notification to the DCC in accordance with Section F8 (Removal and Return of Communications Hubs) that the Communications Hub has been lost or destroyed;
- (m) ('*CH variant charge*') the number of each of the Variant Communications Hubs which have been delivered to that Party during that Charging Period under Section F6 (Delivery and Acceptance of Communications Hubs) or F7.4A (Special Installation Mesh Communications Hubs), and which have not been (and are not) returned, or notified as lost or destroyed, for a reason which is a CH Pre-Installation DCC Responsibility;
- (n) ('*CH auxiliary equipment*') the number of each of the types of Communications Hub Auxiliary Equipment which have been delivered to that Party during that Charging Period under Section F6 (Delivery and Acceptance of Communications Hubs), and which have not been (and are not) rejected in accordance with Section F6.10 (Rejected Communications Hub Products) or

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(in the case of the Communications Hub Auxiliary Equipment to which Section 7.8 applies (Ownership of and Responsibility for Communications Hub Auxiliary Equipment)) returned, or notified as lost or destroyed, for a reason which is a CH Pre-Installation DCC Responsibility;

- (o) (*'CH returned and redeployed'*) the number of Communications Hubs which have been returned by that Party during that Charging Period for a reason which is a CH User Responsibility, and which have been (or are intended to be) reconditioned for redeployment pursuant to Section F8 (Removal and Return of Communications Hubs);
- (p) (*'CH returned not redeployed'*) the number of Communications Hubs which have been returned, or notified as lost or destroyed, by that Party during that Charging Period for a reason which is a CH User Responsibility, and which have not been (and are not intended to be) reconditioned for redeployment pursuant to Section F8 (Removal and Return of Communications Hubs);
- (q) (*'CH wrong returns location'*) an obligation to pay arising during that Charging Period as a result of the return by that Party of Communications Hubs to the wrong returns location as referred to in Section F8.9 (Return of Communications Hubs);
- (r) (*'test comms hubs'*) the number of Test Communications Hubs delivered to that Party during that Charging Period, and which have not been (and are not) returned to the DCC in accordance with Section F10.8 (Ordering, Delivery, Rejection and Returns);
- (s) (*'additional CH Order Management System accounts'*) the number of additional CH Order Management System accounts made available to that Party during that Charging Period in accordance with Section F5.23 (CH Order Management System Accounts);
- (t) (*'shared solution Alt HAN Equipment'*) the number (as measured at the end of that Charging Period) of Smart Metering Systems associated with an MPAN at premises supplied with electricity by that Party, or with an MPRN at premises supplied with gas by that Party, that are using or (except where the Alt HAN

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Inventory records that Party as having elected to use Opted-out Alt HAN Equipment at that time) capable of using installed Central Shared Solution Alt HAN Equipment;

- (u) (*point-to-point Alt HAN Equipment*) the number of Smart Metering Systems (as measured at the end of that Charging Period) associated with an MPAN at premises supplied with electricity by that Party, or with an MPRN at premises supplied with gas by that Party, that are using or (except where the Alt HAN Inventory records that Party as having elected to use Opted-out Alt HAN Equipment at that time) capable of using installed Central Point-to-Point Alt HAN Equipment; and
- (v) (*stock level point-to-point Alt HAN Equipment*) the number of items of Central Point-to-Point Alt HAN Equipment (as measured at the end of that Charging Period) delivered to that Party but not installed.

Explicit Charges

K7.6 The DCC will determine the Explicit Charges for each Explicit Charging Metric and each Regulatory Year:

- (a) in the case of the Explicit Charging Metrics referred to in Section K7.5(a) and (b) ('security assessments' and 'privacy assessments'), so as to pass-through to each Party the relevant expenditure incurred by the Panel in respect of the Explicit Charging Metric as notified by the Panel to the DCC for the purpose of establishing such Charges;
- (b) (subject to Section K7.6(a)) in a manner consistent with the Charging Objectives referred to in Sections C1.4, C1.5 and C1.6(a), (b), and (c);
- (c) (subject to Section K7.6(a) and the Charging Objective referred to in Section C1.4) on a non-discriminatory and cost reflective basis so as to recover the incremental cost to the DCC (including under the DCC Service Provider Contracts) associated with the occurrence of that Explicit Charging Metric (and disregarding any costs and expenses that would be incurred whether or not that Explicit Charging Metric occurred);

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (d) in the case of the Explicit Charging Metrics referred to in Section K7.5(c) and (d) ('LV gateway connection' and 'HV gateway connection'), the Explicit Charges may comprise an initial connection charge and an ongoing annual charge (which annual charge may be payable monthly or less frequently);
- (e) in the case of the Explicit Charging Metrics referred to in Section K7.5(j) ('communication services'), in accordance with (c) above; save that (where the cost of implementing an Explicit Charge for one or more of the Services referred to in that Section would be disproportionate to the cost-reflective incremental cost) the Explicit Charge for those Services may be set at zero;
- (f) in the case of the Explicit Charging Metrics referred to in Section K7.5(l), (m), (n), (o) and (p) ('CH stock level charge', 'CH variant charge', 'CH auxiliary equipment', 'CH returned and redeployed', and 'CH returned not redeployed'), so as to ensure they are uniform across each month of a Regulatory Year and across each Region and do not make any distinction linked to use at Domestic Premises or Non-Domestic Premises;
- (g) in the case of the Explicit Charging Metric referred to in Section K7.5(m) ('CH variant charge'), in accordance with (c) above, for which purpose the incremental cost to DCC shall be the cost to the DCC of the Variant Communications Hub as compared to the cost to the DCC of the Standard Communications Hub;
- (h) so that the Explicit Charging Metric referred to in Section K7.5(o) ('CH returned and redeployed') is not more than the Explicit Charging Metric referred to in Section K7.5(p) ('CH returned not redeployed');
- (i) in the case of the Explicit Charging Metric referred to in Section K7.5(p) ('CH returned not redeployed'), in accordance with (c) above, for which purpose the incremental cost to DCC shall include any early termination fee payable in relation to the Communications Hub, or (if applicable) the net present value of the ongoing costs likely to be incurred by the DCC notwithstanding the fact that the Communications Hub has been removed, lost or destroyed; and
- (j) in the case of the Explicit Charging Metrics referred to in Section K7.5(t), (u)

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

and (v) ('shared solution Alt HAN Equipment', 'point-to-point Alt HAN Equipment' and 'stock level point-to-point Alt HAN Equipment'), so as to pass-through to each Party the relevant costs of AltHANCo in respect of the Explicit Charging Metric as notified by AltHANCo to the DCC for the purpose of establishing such Charges.

K7.7 This Section K7.7 applies only in respect of the Explicit Charging Metrics referred to in Sections K7.5(f) and (g) ('elective service evaluation' and 'P&C support'). Where the DCC is simultaneously considering requests for an Explicit Charging Metric from two or more Parties, and where it would be advantageous to all such Parties for the DCC to do so, the DCC shall offer the Explicit Charging Metrics both conditionally on all the Parties taking up the Explicit Charging Metric and without such condition. In respect of the Explicit Charges to apply in respect of the conditional offer, the DCC shall calculate the Explicit Charges for each Party on the assumption that the other Parties accept the offers, and shall accordingly apportion any common costs between the Parties on a non-discriminatory and cost-reflective basis.

Second-Comer Contributions

K7.8 This Section K7.8 applies only in respect of the Explicit Charging Metrics referred to in Sections K7.5(c), (d), (f) and (g) ('LV gateway connection', 'HV gateway connection', 'elective service evaluation' and 'P&C support'). Subject to Section K7.10, where:

- (a) the DCC makes an offer in respect of any proposed Explicit Charging Metric to a person (the “**subsequent person**”); and
- (b) prior to such offer being made to the subsequent person, another person (the “**initial contributor**”) was obliged to pay Explicit Charges designed to recover any costs (the “**relevant costs**”) that would otherwise (in accordance with this Charging Methodology) have been recoverable from the subsequent person,

then the DCC shall make an offer to the subsequent person that requires that subsequent person to pay by way of Explicit Charges such a contribution to the relevant costs as may be reasonable in all the circumstances.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K7.9 Subject to Section K7.10, where an offer made by the DCC that includes an element of relevant costs is accepted by the subsequent person, the DCC shall (following payment by the subsequent person) offer such rebate to the initial contributor as may be reasonable in all the circumstances.

K7.10 Sections K7.8 and K7.9 shall not apply:

- (a) where the relevant costs are less than £20,000;
- (b) where the relevant costs are between £20,000 and £500,000 (inclusive), and the initial contributor's offer for the Explicit Charging Metric was accepted more than 5 years before the offer to the subsequent contributor is made;
- (c) where the relevant costs are more than £500,000, and the initial contributor's offer for the Explicit Charging Metric was accepted more than 10 years before the offer to the subsequent contributor is made; and/or
- (d) where the initial contributor no longer exists or cannot be contacted by the DCC following reasonable enquiry.

K7.11 All references to an initial contributor in this Section K7 shall, in respect of any subsequent person, be interpreted so as to include any person that was previously a subsequent person in respect of the relevant costs in question and that paid Explicit Charges designed to recover an element of those relevant costs.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K8 DETERMINING ELECTIVE CHARGES

Introduction

- K8.1 The Elective Charges for each Regulatory Year are payable in accordance with the relevant Bilateral Agreement.
- K8.2 The terms and conditions of each Bilateral Agreement (including those in respect of the Elective Charges payable thereunder) are to be agreed or determined in accordance with Section H7 (Elective Communication Services) and the DCC Licence.

Determining the Elective Charges

- K8.3 Where the DCC makes any offer to enter into a Bilateral Agreement in respect of an Elective Communication Service, the DCC shall offer Elective Charges in respect of each such Elective Communication Service determined by the DCC:
- (a) in a manner consistent with the Charging Objectives referred to in Sections C1.6(a), (b), and (c);
 - (b) in a non-discriminatory and cost-reflective manner, so as to recover the total costs to the DCC (including under the DCC Service Provider Contracts) associated with that Bilateral Agreement (including so as to recover a reasonable proportion of any standing costs that would be incurred whether or not that Elective Communication Service was provided); and
 - (c) so that such proportion of such standing costs is recovered by way of a standing charge that is payable whether or not the service is requested or provided.
- K8.4 Where the DCC is simultaneously considering requests for a formal offer to provide Elective Communication Services from two or more Parties, and where it would be advantageous to all such Parties for the DCC to do so, the DCC shall make the offer both conditionally on all the Parties accepting the offer and without such condition. In respect of the Elective Charges to apply in respect of the conditional offer, the DCC shall calculate the Elective Charges for each Party on the assumption that the other

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Parties accept the offers, and shall accordingly apportion any common costs between the Parties on a non-discriminatory and cost-reflective basis.

K8.5 Although this Code in no way binds the Authority it is acknowledged that any determination by the Authority of the Elective Charges in respect of a Bilateral Agreement will be undertaken as envisaged by the DCC Licence, including by reference to those matters set out in Sections K8.3 and K8.4.

Second-Comer Contributions

K8.6 Subject to Section K8.8, where:

- (a) the DCC makes an offer in respect of any proposed Elective Communications Service to a person (the “**subsequent person**”); and
- (b) prior to such offer being made to the subsequent person, another person (the “**initial contributor**”) was obliged to pay Elective Charges designed to recover any costs (the “**relevant costs**”) that would otherwise (in accordance with this Charging Methodology) have been recoverable from the subsequent person,

then the DCC shall make an offer to the subsequent person that requires that subsequent person to pay by way of Elective Charges such a contribution to the relevant costs as may be reasonable in all the circumstances.

K8.7 Subject to Section K8.8, where an offer made by the DCC that includes an element of relevant costs is accepted by the subsequent person, the DCC shall (following payment by the subsequent person) offer such rebate to the initial contributor as may be reasonable in all the circumstances.

K8.8 Sections K8.6 and K8.7 shall not apply:

- (a) where the relevant costs are less than £20,000;
- (b) where the relevant costs are between £20,000 and £500,000 (inclusive), and the initial contributor’s offer for the Elective Communication Service was accepted more than 5 years before the offer to the subsequent contributor is made;

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) where the relevant costs are more than £500,000, and the initial contributor's offer for the Elective Communication Service was accepted more than 10 years before the offer to the subsequent contributor is made; and/or
- (d) where the initial contributor no longer exists or cannot be contacted by the DCC following reasonable enquiry.

K8.9 All references to an initial contributor in this Section K8 shall, in respect of any subsequent person, be interpreted so as to include any person that was previously a subsequent person in respect of the relevant costs in question and that paid Elective Charges designed to recover an element of those relevant costs.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K9 WITHIN-YEAR ADJUSTMENTS

Introduction

K9.1 The revenue restriction contained in the DCC Licence allows the DCC to carry forward any under or over recovery in respect of one Regulatory Year to the following Regulatory Year. Therefore, there is no absolute need for the DCC to alter the Charges part way through a Regulatory Year.

K9.2 Nevertheless, subject to compliance with Condition 19 of the DCC Licence, the DCC may alter the Charges part way through a Regulatory Year, including in one of the following two ways:

- (a) where this Charging Methodology is amended and the amendment has effect part way through a Regulatory Year; or
- (b) where the requirements of this Section K9 are met, by applying within-year adjustments for the matters set out in this Section K9.

Amending this Charging Methodology

K9.3 Where the Authority consents in accordance with Condition 19 of the DCC Licence, the DCC may recalculate the Charges in accordance with this Charging Methodology (including so as to take into account any modification of this Charging Methodology). In such circumstances, the references herein to a Regulatory Year shall be interpreted as meaning the remaining period of such Regulatory Year from the time at which the modified Charges in question are to apply.

Within-Year Adjustment for Bad Debt

K9.4 Where a Party fails to pay to the DCC an amount due by way of Charges such that an Event of Default has occurred, and provided the DCC has complied with its obligations under Section J (Charges) in respect of the same, the DCC may (where it reasonably considers it appropriate to do so, taking into account the matters referred to in Section K9.1) determine the **Unrecovered Bad Debt Payment** ($UBDP_{pent}$) to be paid by every Compliant Party (p) in respect of that Event of Default (e) in one or more subsequent months (m) of such Regulatory Year (t) as the DCC may determine.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$UBDP_{pemt}$ shall be calculated as follows:

$$UBDP_{pemt} = \frac{UBP_e \times DS_{pe}}{BM_e}$$

Where:

BM_e is the number of months in the balance of the Regulatory Year over which the DCC decides it is to recover the amount owing in respect of the Event of Default

UBP_e is the amount owing in respect of the Event of Default (e) or such smaller amount as DCC decides to recover over the remainder of the Regulatory Year (t)

DS_{pe} is the share of the debt owing in respect of the Event of Default (e) to be paid by each Compliant Party (p), which is to be calculated as follows.

$$DS_{pe} = \frac{TMP_{pe}}{\sum_{\forall p} TMP_{pe}}$$

where TMP_{pe} is the total amount paid or payable by way of Charges by each Compliant Party (p) in respect of the 12 months preceding the month in respect of which the Event of Default (e) occurred

$\sum_{\forall p}$ represents a sum over all Compliant Parties for the Event of Default.

K9.5 Where the DCC:

- (a) has levied a charge for an Unrecovered Bad Debt Payment; and
- (b) subsequently recovers from the defaulting Party any or all of the unpaid debt to which the Unrecovered Bad Debt Payment related,

then the DCC shall return the money it has recovered from the defaulting Party to the Compliant Parties in proportion to their contributions to $UBDP_{pemt}$. In order to return such money, the DCC shall include a negative $UBDP_{pemt}$ amount in the Charges for

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the month following the month in which the DCC received payment (or part payment) from the defaulting Party.

Within-Year Adjustment for Liability Events

K9.6 If a Liability Event arises, the DCC may (where it reasonably considers it appropriate to do so, taking into account the matters referred to in Section K9.1 and having consulted with the Authority and the Panel) determine the **Liability Payment** (LP_{plmt}) to be paid by (or, in the case of negative Liability Sums, paid to) every other Party (p) in respect of that Liability Event (l) in one or more subsequent months (m) of such Regulatory Year (t) as the DCC may determine. LP_{plmt} shall be calculated as follows:

$$LP_{plmt} = \frac{TLP_l \times LS_{pl}}{BM_l}$$

Where:

BM_l is the number of months in the balance of the Regulatory Year over which the DCC decides it is to recover the amount owing in respect of the Liability Event

TLP_l is the Liability Sum arising in respect of the Liability Event (l) or such smaller amount as DCC decides to recover over the remainder of the Regulatory Year (t)

LS_{pl} is the share of the liability owing in respect of the Liability Event (l) to be paid by (or, in the case of negative Liability Sums, paid to) each Party (p), which is to be calculated as follows.

$$LS_{pl} = \frac{TMP_{pl}}{\sum_{\forall p} TMP_{pl}}$$

where TMP_{pl} is the total amount paid or payable by way of Charges by each Party (p) in respect of the 12 months preceding the month in which the Liability Sum for the Liability Event (l) is payable to or by the DCC Service Providers

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$\sum_{\forall p}$ represents a sum over all Parties.

Within-Year Adjustment for Communications Hub Finance Acceleration Events

K9.7 For the purposes of Section K9.6:

- (a) a Communications Hub Finance Acceleration Event is a Liability Event;
- (b) the amount due and payable by the DCC as a result of a Communications Hub Finance Acceleration Event is a Liability Sum to the extent the DCC estimates that such amount will be recoverable by the DCC as Allowed Revenue;
- (c) the reference to “Charges” in the definition of LS_{pl} shall (in the case of a Communications Hub Finance Acceleration Event) be interpreted as a reference to “Communications Hub Charges”; and
- (d) the amount payable by each Party in respect of such Liability Event shall (for the purposes of invoicing and payment under Section J (Charges) or Section M11.5(b) (Third Party Rights)) be treated as an amount due by way of Communications Hub Finance Charges relating to the Communications Hub Finance Facility in respect of which the Communications Hub Finance Acceleration Event has occurred.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K10 CALCULATING MONTHLY PAYMENTS

Introduction

K10.1 The monthly payment of Charges payable by each Party shall be calculated in accordance with this Section K10, based on:

- (a) the Fixed Charges determined in accordance with Section K4, K5 or K6 (as applicable);
- (b) the Fixed Alt HAN Charges determined in accordance with Section K5A or K6B (as applicable);
- (c) the Explicit Charges determined in accordance with Section K7;
- (d) the Elective Charges determined in accordance with Section K8; and
- (e) any within-year adjustments determined in accordance with Section K9.

Calculating Fixed Charges

K10.2 The Fixed Charges and Fixed Alt HAN Charges payable by each person in respect of any month (or part month) during a Regulatory Year shall be calculated following the end of that month based on the calculations in accordance with Section K4, K5, K5A, K6 or K6B (as applicable).

K10.3 The Fixed Charges are payable by the persons in each Charging Group, and the Fixed Alt HAN Charges are payable by the persons in the Alt HAN Charging Groups. The Fixed Charges payable by any Party that is not in a Charging Group shall be zero, and the Fixed Alt HAN Charges payable by any Party that is not in an Alt HAN Charging Group shall be zero.

Calculating Explicit Charges and Elective Charges Payments

K10.4 The Explicit Charges payable by each Party in respect of any month (or part month) during a Regulatory Year shall be calculated following the end of that month based on the Explicit Charging Metrics incurred by that Party during the Charging Period for that month.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K10.5 The Elective Charges payable by each Party in respect of any month (or part month) during a Regulatory Year shall be calculated following the end of that month based on the relevant Bilateral Agreement.

Calculating Monthly Payments

K10.6 For each month (or part month) (m) during a Regulatory Year (t) prior to the UITMR Period, the initial monthly payment (*IMP*) in respect of the Charges payable by each Party (p) shall be calculated as follows:

$$\begin{aligned}
 IMP_{pmt} = & \sum_{\forall g} (FC_{gt} \times AMSMS_{pgmt}) \\
 & + \sum_{\forall g \forall r} (NCHC_{grt} \times ANCH_{grt}) + \sum_{\forall g} (DCHC_{gt} \times ADCH_{gt}) \\
 & + \sum_{i=1}^{i=n} (EC_{it} \times ECM_{ipmt}) + TEP_{pmt} + \sum_{e \in m} UBDP_{pemt} + \sum_{l \in m} LP_{plmt}
 \end{aligned}$$

Where:

FC_{gt} = the Fixed Charges payable in respect of months (or part months) during Regulatory Year (t) by persons in Charging Group (g) in respect of Mandated Smart Metering Systems, calculated in accordance with Section K4

$AMSMS_{pgmt}$ = the amount described in Section K4.5

$NCHC_{grt}$ = the Fixed CH Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in CH Charging Group (g) in respect of Smart Metering Systems for Non-Domestic Premises in Region (r)

$ANCH_{grt}$ = the amount described in Section K6A.6

$DCHC_{grt}$ = the Fixed CH Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in CH Charging Group (g) in respect of Smart Metering Systems for Domestic Premises in Region (r)

$ADCH_{grt}$ = the amount described in Section K6A.6

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

EC_{it} = the Explicit Charge for an Explicit Charging Metric (i) and a Regulatory Year (t)

ECM_{ipmt} = the Explicit Charging Metrics incurred by a Party (p) during the Charging Period for that month (m) in a Regulatory Year (t)

TEP_{pmt} = the total amount payable by a Party (p) in respect of Elective Charges and a month (m) in a Regulatory Year (t)

$UBDP_{pemt}$ = the Unrecovered Bad Debt Payment in respect of a month (m) in a Regulatory Year (t) and each Event of Default (e), as calculated in accordance with Section K9

LP_{plmt} = the Liability Payment in respect of a month (m) in a Regulatory Year (t) and each Liability Event (l), as calculated in accordance with Section K9.

K10.7 For each month (or part month) (m) during a Regulatory Year (t) during the UITMR Period, the rollout monthly payment (RMP) in respect of the Charges payable by each Party (p) shall be calculated as follows:

$$\begin{aligned}
 RMP_{pmt} = & \sum_{\forall g} (RDFC_{gt} \times ADSMS_{pgmt}) + \sum_{\forall g} \left(\sum_{\forall r} (RNFC_{grt} \times ANSMS_{pgrmt}) \right) \\
 & + \sum_{\forall g \forall r} (NCHC_{grt} \times ANCH_{grt}) + \sum_{\forall g} (DCHC_{gt} \times ADCH_{gt}) \\
 & + \sum_{\forall g} (RAHFC_{gt} \times ADSMS_{pgmt}) + \sum_{\forall g} \left(RAHFC_{gt} \times \sum_{\forall r} ANSMS_{pgrmt} \right) \\
 & + \sum_{i=1}^{i=n} (EC_{it} \times ECM_{ipmt}) + TEP_{pmt} + \sum_{e \in m} UBDP_{pemt} + \sum_{l \in m} LP_{plmt}
 \end{aligned}$$

Where:

$RDFC_{gt}$ = the Fixed Charges payable in respect of months (or part months) during Regulatory Year (t) by persons in Charging Group (g) in respect of Mandated Smart Metering Systems, calculated in accordance with Section K5;

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$ADSMS_{pgmt}$ = the amount described as such in Section K5.9;

$RNFC_{grt}$ = the Fixed Charges payable in respect of months (or part months) during Regulatory Year (t) by persons in Charging Group (g) in respect of Enrolled Smart Metering Systems for Non-Domestic Premises in each Region (r), calculated in accordance with Section K5;

$ANSMS_{pgrmt}$ = the amount described as such in Section K5.7;

$NCHC_{grt}$ = the Fixed CH Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in CH Charging Group (g) in respect of Smart Metering Systems for Non-Domestic Premises in Region (r);

$ANCH_{grt}$ = the amount described in Section K6A.6;

$DCHC_{grt}$ = the Fixed CH Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in CH Charging Group (g) in respect of Smart Metering Systems for Domestic Premises in Region (r);

$ADCH_{grt}$ = the amount described in Section K6A.6;

$RAHFC_{gt}$ = the Fixed Alt HAN Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in Alt HAN Charging Group (g) in respect of Mandated Smart Metering Systems for Domestic Premises and Smart Metering Systems for Non-Domestic Premises calculated in accordance with Section K5A;

EC_{it} = the Explicit Charge for an Explicit Charging Metric (i) and a Regulatory Year (t);

ECM_{ipmt} = the Explicit Charging Metrics incurred by a Party (p) during the Charging Period for that month (m) in a Regulatory Year (t);

TEP_{pmt} = the total amount payable by a Party (p) in respect of Elective Charges and a month (m) in a Regulatory Year (t);

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$UBDP_{pemt}$ = the Unrecovered Bad Debt Payment in respect of a month (m) in a Regulatory Year (t) and each Event of Default (e), as calculated in accordance with Section K9;

LP_{plmt} = the Liability Payment in respect of a month (m) in a Regulatory Year (t) and each Liability Event (l), as calculated in accordance with Section K9.

K10.8 For each month (or part month) (m) during a Regulatory Year (t) after the UITMR Period, the monthly payment (MP) in respect of the Charges payable by each Party (p) shall be calculated as follows:

$$\begin{aligned}
 MP_{pmt} = & \sum_{\forall g} (DFC_{gt} \times ADSMS_{pgmt}) + \sum_{\forall g} \left(\sum_{\forall r} (NFC_{grt} \times ANSMS_{pgrmt}) \right) \\
 & + \sum_{\forall g \forall r} (NCHC_{grt} \times ANCH_{grt}) + \sum_{\forall g} (DCHC_{gt} \times ADCH_{gt}) \\
 & + \sum_{\forall g} (DAHFC_{gt} \times ADSMS_{pgmt}) + \sum_{\forall g} \left(NAHFC_{gt} \times \sum_{\forall r} ANSMS_{pgrmt} \right) \\
 & + \sum_{i=1}^{i=n} (EC_{it} \times ECM_{ipmt}) + TEP_{pmt} + \sum_{e \in m} UBDP_{pemt} + \sum_{l \in m} LP_{plmt}
 \end{aligned}$$

Where:

DFC_{gt} = the Fixed Charges payable in respect of months (or part months) during Regulatory Year (t) by persons in Charging Group (g) in respect of Enrolled Smart Metering Systems for Domestic Premises, calculated in accordance with Section K6;

$ADSMS_{pgmt}$ = the amount described as such in Section K6.7;

NFC_{grt} = the Fixed Charges payable in respect of months (or part months) during Regulatory Year (t) by persons in Charging Group (g) in respect of Enrolled Smart Metering Systems for Non-Domestic Premises in each Region (r), calculated in accordance with Section K6;

$ANSMS_{pgrmt}$ = the amount described as such in Section K6.7;

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$NCHC_{grt}$ = the Fixed CH Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in CH Charging Group (g) in respect of Smart Metering Systems for Non-Domestic Premises in Region (r);

$ANCH_{grt}$ = the amount described in Section K6A.6;

$DCHC_{grt}$ = the Fixed CH Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in CH Charging Group (g) in respect of Smart Metering Systems for Domestic Premises in Region (r);

$ADCH_{grt}$ = the amount described in Section K6A.6;

$DAHFC_{gt}$ = the Domestic Fixed Alt HAN Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in Alt HAN Charging Group (g) in respect of Mandated Smart Metering Systems for Domestic Premises calculated in accordance with Section K6B;

$NAHFC_{gt}$ = the Non-Domestic Fixed Alt HAN Central Charge payable in respect of months (or part months) during Regulatory Year (t) by persons in Alt HAN Charging Group (g) in respect of Mandated Smart Metering Systems for Non-Domestic Premises calculated in accordance with Section K6B;

EC_{it} = the Explicit Charge for an Explicit Charging Metric (i) and a Regulatory Year (t);

ECM_{ipmt} = the Explicit Charging Metrics incurred by a Party (p) during the Charging Period for that month (m) in a Regulatory Year (t);

TEP_{pmt} = the total amount payable by a Party (p) in respect of Elective Charges and a month (m) in a Regulatory Year (t);

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

$UBDP_{pemt}$ = the Unrecovered Bad Debt Payment in respect of a month (m) in a Regulatory Year (t) and each Event of Default (e), as calculated in accordance with Section K9;

LP_{plmt} = the Liability Payment in respect of a month (m) in a Regulatory Year (t) and each Liability Event (l), as calculated in accordance with Section K9.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

K11 DEFINITIONS

K11.1 In this Charging Methodology, except where the context otherwise requires, the expressions in the left hand column below shall have the meanings given to them in the right hand column below:

Allowed Revenue	has the meaning given to that expression in the revenue restriction conditions of the DCC Licence.
Alt HAN Charging Group	has the meaning given to that expression in Section K3.10.
Alt HAN Charging Group Weighting Factors	has the meaning given to that expression in Section K3.15.
Alt HAN Cost Domestic Allocation	has the meaning given to that expression in Section K3.20.
Alt HAN Costs	has the meaning given to that expression in Section Z6.1.
Alt HAN Fixed Revenue	has the meaning given to that expression in Section K3.7.
Alt HAN Inventory	has the meaning given to that expression in Section Z6.1.
AltHANCo	has the meaning given to that expression in Section Z6.1.
Central Point-to-Point Alt HAN Equipment	has the meaning given to that expression in Section Z6.1.
Central Shared Solution Alt HAN Equipment	has the meaning given to that expression in Section Z6.1.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Z6.1.

Charging Group	has the meaning given to that expression in Section K3.10.
Charging Group Weighting Factor	has the meaning given to that expression in Section K3.13.
Charging Period	means, in respect of each month (the ‘current month’), the period from the start of the 16 th day of the previous month to the end of the 15 th day of the current month.
CH Charging Group	has the meaning given to that expression in Section K3.9.
CH Charging Group Weighting Factor	has the meaning given to that expression in Section K3.14.
Compliant Party	means, in respect of any Event of Default giving rise to an Unrecovered Bad Debt Payment, all of the Parties other than: (a) the Defaulting Party in respect of that Event of Default; and (b) the Defaulting Party in respect of any other Event of Default giving rise to an Unrecovered Bad Debt Payment that is calculated under Section K9.4 during the same month as the Unrecovered Bad Debt Payment to which reference is first made in this definition.
Elective Charges	means the Charges payable in respect of Elective Communication Services.
Enrolled Smart Metering System	means a Smart Metering System that has been Enrolled.
Estimated Allowed	has the meaning given to that expression in Section

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Revenue	K2.1.
Estimated Elective Service Revenue	has the meaning given to that expression in Section K2.3.
Estimated Explicit Charges Revenue	has the meaning given to that expression in Section K2.5.
Estimated Fixed Charges Revenue	has the meaning given to that expression in Section K2.6.
Explicit Charges	means the Charges calculated in accordance with Section K7, and payable in respect of the Explicit Charging Metrics.
Explicit Charging Metrics	has the meaning given to that expression in Section K7.
Fixed Alt HAN Charges	means the Charges calculated in accordance with Section K5A or K6B (as applicable).
Fixed CH Charges	means the Charges calculated in accordance with Section K6A.
Fixed Charges	means the Charges calculated in accordance with Section K4, K5 or K6 (as applicable).
Liability Event	means an event as a result of which either: (a) the DCC has a net liability to the DCC Service Providers collectively (excluding in respect of charges arising in the ordinary course of events); or (b) the DCC Service Providers collectively have a net liability to the DCC (excluding in respect of

service credits or liquidated damages arising from poor service performance).

Liability Sum

means, in respect of a Liability Event as a result of which:

- (a) the DCC owes a net liability to the DCC Service Providers collectively, the amount of such net liability (having taken into account amounts recoverable by the DCC in respect of that Liability Event otherwise than pursuant to this Charging Methodology, including amounts recoverable from other Parties as a result of any breach of this Code by such Parties which caused or contributed to that Liability Event), but only to the extent that the DCC estimates that such net liability will be recoverable by the DCC as Allowed Revenue; or
- (b) the DCC Service Providers collectively owe a net liability to the DCC, the net amount actually received by the DCC in respect of such net liability (having taken into account amounts owed by the DCC to other Parties and to third parties in respect of that Liability Event otherwise than pursuant to this Charging Methodology), but only to the extent that the DCC estimates that such net liability will reduce the Allowed Revenue that the DCC could otherwise recover by way of the Charges (which net amount will be expressed as a negative number).

Liability Payment

has the meaning given to that expression in Section K9.6 (expressed as a negative number in the case of

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

negative Liability Sums).

Mandated Smart Metering System means, from time to time, each MPAN or MPRN associated with a Domestic Premises (regardless of whether or not a Smart Metering System has been installed or Enrolled), but excluding:

(a) those MPANs and MPRNs associated with premises in respect of which the DCC is exempted from the requirement to Enrol Smart Metering Systems in accordance with the Statement of Service Exemptions; and

(b) those MPANs that do not have the status of “traded” (as identified in the MRA) and those MPRNs that do not have a status that indicates that gas is off-taken at the supply point (as identified in the UNC).

National Fixed Revenue has the meaning given to that expression in Section K3.7.

Non-Domestic Withdrawal Factor has the meaning given to that expression in Section K3.18.

Opted-out Alt HAN Equipment has the meaning given to that expression in Section Z6.1.

Regional Communications Hub Revenue has the meaning given to that expression in Section K3.9.

Regional Fixed Revenue has the meaning given to that expression in Section K3.9.

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Regulatory Year	means (subject to Section K9.3) a period of twelve months beginning at the start of 1 April in any calendar year and ending at the end of 31 March in the next following calendar year; provided that a Regulatory Year will end and a new one will commence simultaneously with both the commencement and the end of the UITMR Period.
Standard Communications Hubs	means, in respect of each Region, Communications Hubs of the HAN Variant which cost the DCC the least to procure in respect of that Region (to be judged in respect of each Regulatory Year at the time at which the DCC is stabling its Charges for that Regulatory Year).
UITMR Period	means the period, covering User integration testing and the mass rollout period, which for these purposes: (a) commences at the start of the month in which the DCC is first obliged to make regular monthly payments to one or more of the DCC Service Providers; and (b) ends at the end of the date referred to in paragraph 1 of Condition 39 of the Energy Supply Licences.
Unrecovered Bad Debt Payment	has the meaning given to that expression in Section K9.4.
Variant Communication Hubs	means, in respect of each Region, all Communications Hubs of the HAN Variant that is not the Standard Communications Hub for that Region.
Weighting Factor	means the Charging Group Weighting Factor, the CH

SEC – Section K: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Charging Group Weighting Factor or the Alt HAN
Charging Group Weighting Factor.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

SECTION L – SMART METERING KEY INFRASTRUCTURE AND DCC KEY INFRASTRUCTURE

L1 SMKI POLICY MANAGEMENT AUTHORITY

Establishment of the SMKI PMA

L1.1 The Panel shall establish a Sub-Committee in accordance with the requirements of this Section L1, to be known as the “**SMKI PMA**”.

L1.2 Save as expressly set out in this Section L1, the SMKI PMA shall be subject to the provisions concerning Sub-Committees set out in Section C6 (Sub-Committees).

Membership of the SMKI PMA

L1.3 The SMKI PMA shall be composed of the following persons (each an “**SMKI PMA Member**”):

- (a) the SMKI PMA Chair (as further described in Section L1.5);
- (b) three SMKI PMA (Supplier) Members (as further described in Section L1.6);
- (c) one SMKI PMA (Network) Member (as further described in Section L1.8);
and
- (d) one representative of the Security Sub-Committee and one representative of the Technical Architecture and Business Architecture Sub-Committee (in each case as further described in Section L1.10).

L1.4 Each SMKI PMA Member must be an individual (and cannot be a body corporate, association or partnership). No one person can hold more than one office as an SMKI PMA Member at the same time.

L1.5 The “**SMKI PMA Chair**” shall be such person as is (from time to time) appointed to that role by the Panel in accordance with a process designed to ensure that:

- (a) the candidate selected is sufficiently independent of any particular Party or class of Parties;

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) the SMKI PMA Chair is appointed for a three-year term (following which he or she can apply to be re-appointed);
- (c) the SMKI PMA Chair is remunerated at a reasonable rate;
- (d) the SMKI PMA Chair's appointment is subject to Section C6.9 (Member Confirmation), and to terms equivalent to Section C4.6 (Removal of Elected Members); and
- (e) provision is made for the SMKI PMA Chair to continue in office for a reasonable period following the end of his or her term of office in the event of any delay in appointing his or her successor.

L1.6 Each of the three “**SMKI PMA (Supplier) Members**” shall (subject to any directions to the contrary made by the Secretary of State for the purpose of transition on the incorporation of this Section L1 into this Code):

- (a) be appointed in accordance with Section L1.7, subject to compliance by the appointed person with Section C6.9 (Member Confirmation);
- (b) retire 2 years after his or her appointment (without prejudice to his or her ability to be nominated for a further term of office); and
- (c) be capable of being removed from office in accordance with Sections C4.5 and C4.6 (Removal of Elected Members), for which purpose those Sections shall be read as if references to “Elected Member” were to “SMKI PMA (Supplier) Member”, references to “Panel” were to “SMKI PMA”, references to “Panel Chair” were to “SMKI PMA Chair”, and references to “Panel Members” were to “SMKI PMA Members”.

L1.7 Each of the three SMKI PMA (Supplier) Members shall be appointed in accordance with a process:

- (a) by which two SMKI PMA (Supplier) Members will be elected by Large Supplier Parties, and one SMKI PMA (Supplier) Member will be elected by Small Supplier Parties;
- (b) by which any person (whether or not a Supplier Party) shall be entitled to

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

nominate candidates to be elected as an SMKI PMA (Supplier) Member; and

- (c) that is otherwise the same as that by which Elected Members are elected under Sections C4.2 and C4.3 (as if references therein to “Panel” were to “SMKI PMA”, references to “Panel Chair” were to “SMKI PMA Chair”, references to “Panel Members” were to “SMKI PMA Members”, and references to provisions of Section C or D were to the corresponding provisions set out in or applied pursuant to this Section L1).

L1.8 The “**SMKI PMA (Network) Member**” shall (subject to any directions to the contrary made by the Secretary of State for the purpose of transition on the incorporation of this Section L1 into this Code):

- (a) be appointed in accordance with Section L1.9, subject to compliance by the appointed person with Section C6.9 (Member Confirmation);
- (b) retire 2 years after his or her appointment (without prejudice to his or her ability to be nominated for a further term of office); and
- (c) be capable of being removed from office in accordance with Sections C4.5 and C4.6 (Removal of Elected Members), for which purpose those Sections shall be read as if references to “Elected Member” were to “SMKI PMA (Network) Member”, references to “Panel” were to “SMKI PMA”, references to “Panel Chair” were to “SMKI PMA Chair”, and references to “Panel Members” were to “SMKI PMA Members”.

L1.9 The SMKI PMA (Network) Member shall be appointed in accordance with a process:

- (a) by which the SMKI PMA (Network) Member will be elected by the Electricity Network Parties and the Gas Network Parties together (as if they formed a single Party Category, but so that Electricity Network Party Voting Groups and Gas Network Party Voting Groups each have one vote); and
- (b) that is otherwise the same as that by which Elected Members are elected under Sections C4.2 and C4.3 (as if references therein to “Panel” were to “SMKI PMA”, to “Panel Chair” were to “PMA Chair”, to “Panel Members” were to “SMKI PMA Members”, and to provisions of Section C or D were to the

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

corresponding provisions set out in or applied pursuant to this Section L1).

L1.10 The Security Sub-Committee and the Technical Architecture and Business Architecture Sub-Committee shall each nominate one of their members to be an SMKI PMA Member by notice to the Secretariat from time to time. The Security Sub-Committee or the Technical Architecture and Business Architecture Sub-Committee (as applicable) may each replace its nominee from time to time by prior notice to the Secretariat. Such nomination or replacement shall be subject to compliance by the relevant person with Section C6.9 (Member Confirmation). Until each such Sub-Committee exists, the Panel shall nominate a person to act as a representative of that Sub-Committee (and may from time to time replace such person).

L1.11 Each SMKI PMA Member must ensure that he or she reads the SMKI Document Set when first appointed, and subsequently from time to time, so that he or she is familiar with its content.

Proceedings of the SMKI PMA

L1.12 Each SMKI PMA Member shall be entitled to appoint an Alternate in accordance with Section C5.19 (as it applies pursuant to Section L1.15); provided that:

- (a) the SMKI PMA Chair will be deemed to have nominated the SMKI Specialist to act as Alternate for the SMKI PMA Chair;
- (b) where the SMKI Specialist is unavailable, the SMKI PMA Chair must nominate another person to act as Alternate for the SMKI PMA Chair (which person may not be another SMKI PMA Member, and which person must be sufficiently independent of any particular Party or class of Parties); and
- (c) the person so appointed by each SMKI PMA Member (other than the SMKI PMA Chair) may not be employed by the same organisation as employs that SMKI PMA Member (or by an Affiliate of that SMKI PMA Member's employer).

L1.13 No business shall be transacted at any meeting of the SMKI PMA unless a quorum is present at that meeting. The quorum for each such meeting shall be four of the SMKI PMA Members, at least one of whom must be the SMKI PMA Chair (or his or her

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Alternate).

L1.14 Without prejudice to the generality of Section C5.13(c) (Attendance by Other Persons) as it applies pursuant to Section L1.15:

- (a) the SMKI Specialist and a representative of the DCC shall be invited to attend each and every SMKI PMA meeting (each of whom shall be entitled to speak at SMKI PMA meetings without the permission of the SMKI PMA Chair); and
- (b) other persons who may be invited to attend SMKI PMA meetings may include:
 - (i) the Independent SMKI Assurance Service Provider;
 - (ii) one or more representatives of Device Manufacturers; or
 - (iii) a specialist legal adviser.

L1.15 Subject to Sections L1.12, L1.13 and L1.14, the provisions of Section C5 (Proceedings of the Panel) shall apply to the proceedings of the SMKI PMA, for which purpose that Section shall be read as if references to “Panel” were to “SMKI PMA”, references to “Panel Chair” were to “SMKI PMA Chair”, and references to “Panel Members” were to “SMKI PMA Members”.

L1.16 Notwithstanding Section C3.12 (Protections for Panel Members and Others), that Section shall not apply to the SMKI Specialist when acting as the SMKI PMA Chair’s Alternate, and the SMKI Specialist shall have no rights under that Section.

Duties of the SMKI PMA

L1.17 The SMKI PMA shall undertake the following duties:

- (a) to approve the Device CPS, Organisation CPS and the IKI CPS, and any changes to those documents, in accordance with Sections L9;
- (b) to propose variations to the SMKI SEC Documents, as further described in Section L1.19;
- (c) to periodically review (including where directed to do so by the Panel) the effectiveness of the SMKI Document Set (including so as to evaluate whether

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the SMKI Document Set remains consistent with the SEC Objectives), and report to the Panel on the outcome of such review (such report to include any recommendations for action that the SMKI PMA considers appropriate);

(d) as soon as reasonably practicable following the incorporation of each of the following documents into this Code, its re-incorporation, or its modification in accordance with section 88 of the Energy Act 2008, to review that document in accordance with paragraph (c) above:

- (i) the SMKI Compliance Policy;
- (ii) the SMKI RAPP;
- (iii) the Device Certificate Policy;
- (iv) the Organisation Certificate Policy;
- (v) the IKI Certificate Policy;
- (vi) the SMKI Recovery Procedure,

and (where the SMKI PMA considers it appropriate to do so) submit one or more Modification Proposals in respect of those documents (which Modification Proposals shall, notwithstanding Section X2.3(a), (b) and (c), be subject to Section D (Modification Process) as varied by Section X2.3(d));

- (e) to periodically review the effectiveness of the DCCKI Document Set and to:
- (i) notify DCC where it considers that changes should be made to the DCCKI Document Set in order to ensure that DCC meets its obligations under Section G (Security) (such notification to include any recommendation for action that the SMKI PMA considers appropriate); and
 - (ii) copy any such notification to the Security Sub-Committee and, except to the extent that it is appropriate to redact information for security purposes, to other SEC Parties;
- (f) as soon as reasonably practicable following the incorporation of each of the

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

following documents into this Code, its re-incorporation, or its modification in accordance with section 88 of the Energy Act 2008, to review that document in accordance with paragraph (e) above:

- (i) the DCCKI RAPP;
- (ii) the DCCKI Certificate Policy;
- (g) to review the DCCKI CPS, and any amendments proposed to be made to it by the DCC, in accordance with Section L13 (DCC Key Infrastructure);
- (h) as part of its review of the SMKI Compliance Policy pursuant to paragraph (d) above, to consider whether SMKI Participants which are subject to assurance assessments pursuant to the SMKI Compliance Policy should be liable to meet the costs (or a proportion of the costs) of undertaking such assessments, and (where the SMKI PMA considers it appropriate to do so) submit one or more Modification Proposals as referred to in paragraph (d) above;
- (i) in relation to any incident in which a Relevant Private Key is (or is suspected of being) Compromised, to decide, in accordance with the SMKI Recovery Key Guidance, whether or not to require the use of the Recovery Private Key or Contingency Private Key (including the Symmetric Key);
- (j) to exercise the functions allocated to it under the SMKI Recovery Procedure, and in particular to exercise any power to nominate Parties for such purposes (and in accordance with such procedures) as may be set out in the SMKI Recovery Procedure;
- (k) to provide the Panel, the Change Board and Working Groups with support and advice in respect of Modification Proposals that provide for variations to the SMKI SEC Documents or the DCCKI SEC Documents;
- (l) to provide assurance in accordance with Section L2 (SMKI Assurance);
- (m) to provide the Panel with support and advice in respect of Disputes for which the Panel is required to make a determination, insofar as such Disputes relate to the SMKI Document Set or the DCCKI Document Set;

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (n) to provide the Panel and Sub-Committees with general advice and support with respect to the SMKI Services, the SMKI Repository Service, the DCKKI Services and the DCKKI Repository Service;
- (o) to exercise such functions as are allocated to it under, and to comply with all the applicable requirements of, the SMKI Document Set in accordance with Section L9.1; and
- (p) to perform any other duties expressly ascribed to the SMKI PMA elsewhere in this Code.

L1.18 The SMKI PMA shall establish a process whereby the Code Administrator monitors Modification Proposals with a view to identifying (and bringing to the SMKI PMA's attention) those proposals that are likely to affect the SMKI SEC Documents. The Code Administrator shall comply with such process.

Modification of the SMKI SEC Documents by the SMKI PMA

L1.19 Notwithstanding Section D1.3 (Persons Entitled to Submit Modification Proposals):

- (a) the SMKI PMA shall be entitled to submit Modification Proposals in respect of the SMKI SEC Documents where the SMKI PMA considers it appropriate to do so; and
- (b) any SMKI PMA Member shall be entitled to submit Modification Proposals in respect of the SMKI SEC Documents where he or she considers it appropriate to do so (where the SMKI PMA has voted not to do so).

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L2 SMKI ASSURANCE

SMKI Compliance Policy

- L2.1 The SMKI PMA shall exercise the functions allocated to it by the SMKI Compliance Policy.
- L2.2 The DCC shall procure all such services as are required for the purposes of complying with its obligations under the SMKI Compliance Policy.

SMKI Participants: Duty to Cooperate in Assessment

- L2.3 Each SMKI Participant shall do all such things as may be reasonably requested by the SMKI PMA, or by any person acting on behalf of or at the request of the SMKI PMA (including in particular the Independent SMKI Assurance Service Provider), for the purposes of facilitating an assessment of that SMKI Participant's compliance with any applicable requirements of the SMKI Document Set.
- L2.4 For the purposes of Section L2.3, an SMKI Participant shall provide the SMKI PMA (or the relevant person acting on its behalf or at its request) with:
- (a) all such Data as may reasonably be requested, within such times and in such format as may reasonably be specified; and
 - (b) all such other forms of cooperation as may reasonably be requested, including in particular access at all reasonable times to:
 - (i) such parts of the premises of that SMKI Participant as are used for; and
 - (ii) such persons engaged by that SMKI Participant as carry out, or are authorised to carry out, any activities related to its compliance with the applicable requirements of the SMKI Document Set.

Events of Default

- L2.5 In relation to an Event of Default which consists of a material breach by an SMKI Participant of any applicable requirements of the SMKI Document Set, the provisions

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

of Sections M8.2 (Notification of an Event of Default) to M8.4 (Consequences of an Event of Default) shall apply subject to the provisions of Sections L2.6 to L2.13.

L2.6 For the purposes of Sections M8.2 to M8.4 as they apply pursuant to Section L2.5, an Event of Default shall (notwithstanding the ordinary definition thereof) be deemed to have occurred in respect of the DCC where it is in material breach of any applicable requirements of the SMKI Document Set (provided that Sections M8.4(e), (f) and (g) shall never apply to the DCC).

L2.7 Where in accordance with Section M8.2 the Panel receives notification that an SMKI Participant is in material breach of any applicable requirements of the SMKI Document Set, it shall refer the matter to the SMKI PMA. On any such referral, the SMKI PMA may investigate the matter in accordance with Section M8.3 as if the references in that Section to the “Panel” were to the “SMKI PMA”.

L2.8 Where the SMKI PMA has:

- (a) carried out an investigation in accordance with Section M8.3; or
- (b) received a report from the Independent SMKI Assurance Service Provider, following an assessment by it of the compliance of any SMKI Participant with the applicable requirements of the SMKI Document Set, concluding that the SMKI Participant has not complied with those requirements,

the SMKI PMA shall consider the information available to it and shall determine whether any non-compliance with the SMKI Document Set has occurred and, if so, whether that non-compliance constitutes an Event of Default.

L2.9 Where the SMKI PMA determines that an Event of Default has occurred, it shall:

- (a) notify the relevant SMKI Participant and any other Party it considers may have been affected by the Event of Default; and
- (b) refer the matter to the Panel for the Panel to determine the appropriate steps to take in accordance with Section M8.4.

L2.10 Where the Panel is considering what steps to take in accordance with Section M8.4, it shall request and consider the advice of the SMKI PMA.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L2.11 Where the Panel determines that an SMKI Participant is required to give effect to a remedial action plan in accordance with Section M8.4(d) that plan must be approved by the SMKI PMA.

L2.12 Where, in accordance with Section L2.11, the SMKI PMA has approved a remedial action plan in relation to the provision by the DCC of the SMKI Services, the Panel shall ensure that the approved plan (being redacted only in so far as necessary for the purposes of security) is made available to all Parties.

L2.13 Where, in accordance with Section L2.11, the SMKI PMA has approved a remedial action plan in relation to:

- (a) the DCC acting in a capacity other than as the provider of the SMKI Services, the Panel may arrange for a version of the approved plan (or parts of that plan) to be made available to all the Parties; or
- (b) any other SMKI Participant, the Panel may arrange for an anonymised version of the approved plan (or parts of that plan) to be made available to all the Parties,

but (in each case) only where the Panel considers that such dissemination is necessary for the purposes of security.

Emergency Suspension of SMKI Services

L2.14 Where the SMKI PMA has reason to believe that there is any immediate threat of the DCC Total System, any User Systems, any Smart Metering Systems or any RDP Systems being Compromised to a material extent by the occurrence of an event arising in relation to the SMKI Services, it may instruct the DCC immediately to suspend:

- (a) the provision (in whole or in part) of the SMKI Services and/or any other Services which rely on the use of Certificates;
- (b) the rights of any SMKI Participant to receive (in whole or in part) the SMKI Services and/or any other Services which rely on the use of Certificates,

and thereafter to retain that suspension in effect until such time as the SMKI PMA

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

instructs the DCC to reinstate the provision of the relevant Services or the rights of the SMKI Participant (as the case may be).

L2.15 Where the SMKI PMA takes any steps under Section L2.14, it:

- (a) shall immediately thereafter notify the Authority;
- (b) shall comply with any direction given to it by the Authority in relation to such steps; and
- (c) may notify all the Parties of some or all of such steps (without identifying the SMKI Participant), but only where the Panel considers that such notification is necessary for the purposes of security.

L2.16 Any Party which is affected by the SMKI PMA taking any steps under Section L2.14 may appeal the decision to do so to the Authority, and the DCC shall comply with any decision of the Authority in respect of the matter (which shall be final and binding for the purposes of this Code).

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L3 THE SMKI SERVICES

The SMKI Services

L3.1 For the purposes of this Section L3, the “**SMKI Services**” means all of the activities undertaken by the DCC in its capacity as:

- (a) the Device Certification Authority;
- (b) the Organisation Certification Authority; or
- (c) the IKI Certification Authority,

in each case in accordance with the applicable requirements of the Code.

Authorised Subscribers

General Provisions

L3.2 For the purposes of this Section L3:

- (a) any Party which has successfully completed the SMKI and Repository Entry Process Tests for the purposes of Section H14.22(a) in respect of any of the Certificate Policies;
- (b) any RDP which has successfully completed the SMKI and Repository Entry Process Tests for the purposes of Section H14.22(a) in respect of the Organisation Certificate Policy; and
- (c) SECCo in respect of the IKI Certificate Policy,

may apply to become an Authorised Subscriber in accordance with, and by following the relevant procedures set out in, that Certificate Policy and the SMKI RAPP.

L3.3 The DCC shall authorise SECCo, any Party or any RDP to submit a Certificate Signing Request, and so to become an Authorised Subscriber, where SECCo, that Party or that RDP has successfully completed the relevant procedures and satisfied the criteria set out in the relevant Certificate Policy and the SMKI RAPP.

L3.4 The DCC shall provide any SMKI Services that may be requested by an Authorised

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Subscriber where the request is made by that Authorised Subscriber in accordance with the applicable requirements of the SMKI SEC Documents.

L3.5 The DCC shall ensure that in the provision of the SMKI Services it acts in accordance with Good Industry Practice.

Registration Data Providers

L3.6 Where a Registration Data Provider (other than an Electricity Network Party or Gas Network Party which is deemed to be an RDP, acting in its capacity as such) has become an Authorised Subscriber, the Network Party that nominated that Registration Data Provider shall ensure that the RDP complies with all of its obligations in that capacity under this Section L.

L3.7 Where a Registration Data Provider has been nominated as such by more than one Network Party:

- (a) that RDP shall not, by virtue of acting in the capacity of an RDP for different Network Parties, be required to become a Subscriber for different Organisation Certificates;
- (b) to the extent to which that RDP can be clearly identified as acting on behalf of one Network Party, that Network Party shall be subject to the requirements of Section L3.6 in respect of the actions of the RDP;
- (c) to the extent to which that RDP cannot be clearly identified as acting on behalf of one Network Party, each of the Network Parties which nominated that RDP shall be subject to the requirements of Section L3.6 in respect of the actions of the RDP.

Determinations by the Panel

L3.8 Where the DCC has notified SECCo, a Party or an RDP that has applied to become an Authorised Subscriber that the DCC does not consider that it has satisfied the criteria set out in the relevant Certificate Policy and the SMKI RAPP for that purpose, SECCo, that Party or that RDP (as the case may be) may refer the matter to the Panel for determination.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L3.9 Following any reference made to it under Section L3.8, the Panel:

- (a) shall determine whether the relevant applicant satisfies the criteria set out in the relevant Certificate Policy and the SMKI RAPP; and
- (b) where the Panel determines that the relevant applicant meets those criteria, it shall notify the DCC, and the applicant shall (subject to any other requirements of the relevant Certificate Policy or the SMKI RAPP) become an Authorised Subscriber.

L3.10 Subject to the provisions of Section L3.11, any such determination of the Panel shall be final and binding.

L3.11 Nothing in Sections L3.8 to L3.10 shall be taken to prevent SECCo, any Party or any RDP from making a new application to DCC to become an Authorised Subscriber, in accordance with Section L3.2, at any time.

Changes in Circumstance

L3.12 Where SECCo, a Party or an RDP which is an Authorised Subscriber becomes aware of a change in circumstance which would be likely, if it were to make a new application to the DCC to become an Authorised Subscriber, to affect whether it would satisfy the criteria set out in the relevant Certificate Policy and the SMKI RAPP for that purpose, it shall as soon as is reasonably practicable notify the DCC of that change in circumstance.

L3.13 Where the DCC receives a notification from an Authorised Subscriber in accordance with Section L3.12, or otherwise becomes aware of a change in circumstance of the nature referred to in that Section, it shall:

- (a) assess whether that Authorised Subscriber continues to satisfy the relevant criteria to be an Authorised Subscriber as set out in the relevant Certificate Policy and the SMKI RAPP; and
- (b) where it determines that the Authorised Subscriber does not continue to satisfy the relevant criteria, notify the Authorised Subscriber which, subject to Section L3.14, shall cease to be an Authorised Subscriber in accordance with the

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Certificate Policy.

L3.14 Where the DCC has notified an Authorised Subscriber in accordance with Section L3.13(b):

- (a) the provisions of Section L3.8 to L3.11 shall apply as if the person notified had made an unsuccessful application to become an Authorised Subscriber in respect of the relevant Certificate Policy; and
- (b) where the relevant Certificate Policy is the Organisation Certificate Policy, the DCC shall, subject to any determination made by the Panel in accordance with Section L3.9, revoke any Organisation Certificates for which that person is the Subscriber;
- (c) where the relevant Certificate Policy is the IKI Certificate Policy, the DCC shall, subject to any determination made by the Panel in accordance with Section L3.9, take such steps in relation to any IKI Certificates for which that person is the Subscriber as may be set out in that Certificate Policy or in the SMKI RAPP.

Eligible Subscribers

L3.15 An Authorised Subscriber:

- (a) shall be known as an “**Eligible Subscriber**” in respect of a Certificate if it is entitled to become a Subscriber for that Certificate; and
- (b) will be entitled to become a Subscriber for a Certificate only if it is identified as an Eligible Subscriber in respect of that Certificate in accordance with the following provisions of this Section L3.

Device Certificates

L3.16 A Party which is an Authorised Subscriber in accordance with the Device Certificate Policy will be an Eligible Subscriber in respect of a Device Certificate only where that Subject of that Device Certificate is one that is identified with that Party in the table immediately below.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

<u>Party</u>	<u>Subject</u>
The DCC	Either: (a) a Communications Hub Function; or (b) a Gas Proxy Function.
An Import Supplier	Either: (a) an Electricity Smart Meter; or (b) a Type 1 Device.
A Gas Supplier	Either: (a) a Gas Smart Meter; (b) a Gas Proxy Function; or (c) a Type 1 Device.
Any other Party	Either: (a) an Electricity Smart Meter (b) a Gas Smart Meter; or (c) a Type 1 Device, but only in so far as the SMI Status of that Device is not set to ‘commissioned’ or ‘installed not commissioned’.

DCA Certificates

L3.17 Where the DCC (acting in its capacity as Root DCA or Issuing DCA) is an Authorised Subscriber in accordance with the Device Certificate Policy:

- (a) it (and only it) will be an Eligible Subscriber in respect of DCA Certificates;
- (b) (save for the purposes of the replacement of the Root DCA Certificate) it will be an Eligible Subscriber only in respect of a single Root DCA Certificate.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Organisation Certificates

L3.18 Where the DCC, a Network Party or another Party which is (or is to become) a User, or any RDP, is an Authorised Subscriber in accordance with the Organisation Certificate Policy, that person will be an Eligible Subscriber in respect of an Organisation Certificate only where:

- (a) if the Subject of that Certificate is:
 - (i) either the DCC (acting pursuant to its powers or duties under the Code) or a DCC Service Provider, that person is the DCC; or
 - (ii) not the DCC, that person is the Subject of the Certificate; and
- (b) if the value of the OrganizationalUnitName field in that Certificate is a Remote Party Role corresponding to that listed in the table immediately below, either:
 - (i) that person is the DCC, and the Remote Party Role is not one in relation to which a Device may require to undertake processing in accordance with the GB Companion Specification; or
 - (ii) that person is identified with that Remote Party Role in the second column of that table, and the value of the subjectUniqueID field in the Certificate is a User ID or RDP ID associated with any such User Role or with an RDP as may be identified in the third column of that table.

<u>Remote Party Role</u>	<u>Party</u>	<u>User Role or RDP</u>
Root	The DCC	[Not applicable]
Recovery	The DCC	[Not applicable]
Transitional CoS	The DCC	[Not applicable]
wanProvider	The DCC	[Not applicable]
Access Control	The DCC	[Not applicable]

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Broker		
Issuing Authority	The DCC	[Not applicable]
networkOperator	A Network Party	Either: (a) Electricity Distributor; or (b) Gas Transporter.
supplier	A Supplier Party	Either: (a) Import Supplier; or (b) Gas Supplier.
other	An RDP or any Party other than the DCC	Either: (a) Other User; (b) Registered Supplier Agent; (c) Registration Data Provider; or (d) Export Supplier.

OCA Certificates

L3.19 Where the DCC (acting in its capacity as Root OCA or Issuing OCA) is an Authorised Subscriber in accordance with the Organisation Certificate Policy:

- (a) it (and only it) will be an Eligible Subscriber in respect of OCA Certificates;
- (b) (save for the purposes of the replacement of the Root OCA Certificate) it will be an Eligible Subscriber only in respect of a single Root OCA Certificate.

IKI Certificates

L3.20 Where SECCo or any Party or RDP is an Authorised Subscriber in accordance with the IKI Certificate Policy, it will be an Eligible Subscriber in respect of an IKI Certificate.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

ICA Certificates

L3.21 Where the DCC (acting in its capacity as Root ICA or Issuing ICA) is an Authorised Subscriber in accordance with the IKI Certificate Policy:

- (a) it (and only it) will be an Eligible Subscriber in respect of ICA Certificates;
- (b) (save for the purposes of the replacement of the Root ICA Certificate) it will be an Eligible Subscriber only in respect of a single Root ICA Certificate.

Certificates for Commissioning of Devices

L3.22 The DCC shall:

- (a) prior to the commencement of Interface Testing, or by such later date as may be specified by the Secretary of State, establish and lodge in the SMKI Repository; and
- (b) subsequently maintain,

such of its Certificates as are necessary to facilitate the installation at premises of Devices that are capable of being Commissioned.

L3.23 For the purposes of Section L3.22, the DCC shall ensure that the Certificates which are established, lodged in the SMKI Repository and subsequently maintained include at least the following:

- (a) the Root OCA Certificate;
- (b) the Issuing OCA Certificate;
- (c) the Root DCA Certificate;
- (d) the Issuing DCA Certificate;
- (e) the Recovery Certificate;
- (f) the DCC (Access Control Broker) - digitalSignature Certificate;
- (g) the DCC (Access Control Broker) – keyAgreement Certificate;

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (h) the DCC (wanProvider) Certificate; and
- (i) the DCC (transitionalCoS) Certificate.

L3.24 For the purposes of Sections L3.23(e) - (i), the Certificates which are referred to in those paragraphs mean Organisation Certificates in respect of which, in each case:

- (a) the value of the KeyUsage field is that identified in relation to the Certificate in the second column of the table immediately below;
- (b) the value of the OrganizationalUnitName field corresponds to the Remote Party Role identified in relation to the Certificate in the third column of that table; and
- (c) the Certificate is used for the purposes of discharging the obligations of the DCC in the role identified in relation to it in the fourth column of that table.

<u>Certificate</u>	<u>KeyUsage Value</u>	<u>Remote Party Role</u>	<u>DCC Role</u>
Recovery Certificate	digitalSignature	Recovery	The role of the DCC under the SMKI Recovery Procedure.
DCC (Access Control Broker) - digitalSignature Certificate	digitalSignature	AccessControlBroker	AccessControlBroker
DCC (Access Control Broker) – keyAgreement Certificate	KeyAgreement	AccessControlBroker	AccessControlBroker
DCC (wanProvider) Certificate	digitalSignature	wanProvider	wanProvider

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

DCC (transitionalCoS) Certificate	digitalSignature	Transitional CoS	The role of the DCC as CoS Party.
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Definitions

L3.25 For the purposes of this Section L3:

- (a) “**KeyUsage**” means the field referred to as such in the Organisation Certificate Policy;
- (b) “**OrganizationalUnitName**” and “**subjectUniqueID**” mean those fields which are identified as such in the Organisation Certificate Profile at Annex B of the Organisation Certificate Policy; and
- (c) “**AccessControlBroker**” and “**wanProvider**”, when used in relation to the roles of the DCC, mean those roles which are identified as such, and have the meanings given to them, in the GB Companion Specification.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L4 THE SMKI SERVICE INTERFACE

DCC: Obligation to Maintain the SMKI Service Interface

L4.1 The DCC shall maintain the SMKI Service Interface in accordance with the SMKI Interface Design Specification and make it available, for sending and receiving communications in accordance with the SMKI Code of Connection, via DCC Gateway Connections, to:

- (a) Authorised Subscribers; and
- (b) (where applicable) Parties for the purpose of undertaking SMKI Entry Process Testing.

L4.2 The DCC shall ensure that the SMKI Service Interface is available at all times (subject to Planned Maintenance undertaken in accordance with Section H8.3):

- (a) from the date on which the DCC is first obliged to provide the SMKI Services in accordance with Section L3 (The SMKI Services); and
- (b) prior to that date, on such dates and to such extent as is necessary for the purpose of facilitating SMKI Entry Process Testing.

The SMKI Service Interface

L4.3 For the purposes of this Section L4, the “**SMKI Service Interface**” means a communications interface designed to allow communications to be sent between an Authorised Subscriber and the DCC for the purposes of the SMKI Services.

SMKI Interface Design Specification

L4.4 For the purposes of this Section L4, the “**SMKI Interface Design Specification**” shall be a SEC Subsidiary Document of that name which:

- (a) shall specify the technical details of the SMKI Service Interface;
- (b) shall include the protocols and technical standards that apply to the SMKI Service Interface;

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) shall base those technical standards on PKIX/IETF/PKCS open standards, where:
 - (i) PKIX is the Public Key Infrastructure for X.509 Certificates, being an IETF set of standards for certificate and certificate revocation list profiles as specified in IETF RFC 5280;
 - (ii) the IETF is the Internet Engineering Task Force; and
 - (iii) PKCS is the Public Key Cryptography Standard;
- (d) may set out the procedure by which an Authorised Subscriber and the DCC may communicate over the SMKI Service Interface, and may in particular specify any requirements on:
 - (i) an Authorised Subscriber which accesses, or is seeking to access, the SMKI Service Interface;
 - (ii) the DCC in relation to the provision of means of access to the SMKI Service Interface and/or any steps which must be taken by it in relation to communications made by an Authorised Subscriber and received by it over the SMKI Service Interface; and
- (e) may specify limits on the use of the SMKI Service Interface, including in particular limits on the time or extent of its use, or conditions which must be satisfied for the purposes of its use at a specified time or to a specified extent.

SMKI Code of Connection

L4.5 For the purposes of this Section L4, the “**SMKI Code of Connection**” shall be a SEC Subsidiary Document of that name which:

- (a) sets out the way in which an Authorised Subscriber may access the SMKI Service Interface;
- (b) may specify limits on the use of the SMKI Service Interface, including in particular limits on the time or extent of its use, or conditions which must be satisfied for the purposes of its use at a specified time or to a specified extent;

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) specifies the procedure by which an Authorised Subscriber and the DCC may communicate over the SMKI Service Interface; and
- (d) includes a description of the way in which the mutual authentication and protection of communications taking place over the SMKI Service Interface will operate.

SMKI Interface Document Development

L4.6 The DCC shall develop drafts of the SMKI Interface Design Specification and SMKI Code of Connection:

- (a) in accordance with the process set out at Section L4.7; and
- (b) so that the drafts are available by no later than the date which falls six months prior to the commencement of Systems Integration Testing or such later date as may be specified by the Secretary of State.

L4.7 The process set out in this Section L4.7 for the development of drafts of the SMKI Interface Design Specification and SMKI Code of Connection is that:

- (a) the DCC shall, in consultation with the Parties and such other persons as it considers appropriate, produce a draft of each document;
- (b) where a disagreement arises with any person who is consulted with regard to any proposal as to the content of either document, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the document;
- (c) the DCC shall send a draft of each document to the Secretary of State as soon as is practicable after it is produced, and shall when doing so provide to the Secretary of State:
 - (i) a statement of the reasons why the DCC considers that draft document to be fit for purpose;
 - (ii) copies of the consultation responses received; and
 - (iii) a summary of any disagreements that arose during consultation and that

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

have not been resolved by reaching an agreed proposal; and

- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to either draft document, including in particular:
 - (i) any requirement to produce and submit to the Secretary of State a further draft of either document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L5 THE SMKI REPOSITORY SERVICE

The SMKI Repository

L5.1 For the purposes of this Section L5, the “**SMKI Repository**” means a System for storing and (subject to the provisions of this Section) making available copies of the following:

- (a) all Device Certificates;
- (b) all DCA Certificates;
- (c) all Organisation Certificates;
- (d) all OCA Certificates;
- (e) the IKI Certificates (to the extent required by the SMKI RAPP);
- (f) any other IKI Certificates, and any ICA Certificates, which the DCC may from time to time consider appropriate;
- (g) all versions of the Device Certificate Policy;
- (h) all versions of the Organisation Certificate Policy;
- (i) all versions of the IKI Certificate Policy;
- (j) all versions of the SMKI RAPP;
- (k) all versions of the SMKI Recovery Procedure;
- (l) all versions of the SMKI Compliance Policy;
- (m) the latest version of the Organisation CRL;
- (n) the latest version of the Organisation ARL;
- (o) such other documents or information as may be specified by the SMKI PMA from time to time; and
- (p) such other documents or information as the DCC, in its capacity as the

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

provider of the SMKI Services, may from time to time consider appropriate.

The SMKI Repository Service

L5.2 The DCC shall establish, operate, maintain and make available the SMKI Repository in accordance with the provisions of this Section L5 (the “**SMKI Repository Service**”).

L5.3 The DCC shall ensure that the documents and information described in Section L5.1 may be lodged in the SMKI Repository:

- (a) by itself, for the purpose of providing the SMKI Services or complying with any other requirements placed on it under the Code; and
- (b) (except in the case of Certificates, the CRL and the ARL) by the SMKI PMA, or by the Code Administrator acting on its behalf, for the purpose of fulfilling its functions under the Code.

L5.4 The DCC shall ensure that no person may lodge documents or information in the SMKI Repository other than in accordance with Section L5.3.

L5.5 The DCC shall ensure that the SMKI Repository may be accessed for the purpose of viewing and/or obtaining a copy of any document or information stored on it by:

- (a) any Party or RDP which reasonably requires such access in accordance, or for any purpose associated, with the Code;
- (b) the Panel (or the Code Administrator acting on its behalf); and
- (c) the SMKI PMA (or the Code Administrator acting on its behalf).

L5.6 The DCC shall ensure that no person may access documents or information in the SMKI Repository other than in accordance with Section L5.5.

SMKI PMA: Role in relation to the SMKI Repository

L5.7 The SMKI PMA shall lodge each of the following documents in the SMKI Repository promptly upon the SMKI Repository Service first becoming available or (if later) the incorporation of that document into the Code:

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the Device Certificate Policy;
- (b) the Organisation Certificate Policy;
- (c) the IKI Certificate Policy; and
- (d) the SMKI Compliance Policy.

L5.8 The SMKI PMA shall lodge in the SMKI Repository the modified version of each document referred to in Section L5.7 promptly upon any modification being made to that document in accordance with the Code.

L5.9 The SMKI PMA may require the DCC to lodge in the SMKI Repository such other documents or information as it may from time to time direct.

L5.10 Subject to Section L5.3, the SMKI PMA may lodge in the SMKI Repository such other documents or information as it may from time to time consider appropriate.

Parties: Duties in relation to the SMKI Repository

L5.11 Neither any Party nor RDP, or the SMKI PMA, may access the SMKI Repository for the purpose of viewing and/or obtaining a copy of any document or information stored on it except to the extent that it reasonably requires such access in accordance, or for any purpose associated, with the Code.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L6 THE SMKI REPOSITORY INTERFACE

DCC: Obligation to Maintain the SMKI Repository Interface

L6.1 The DCC shall maintain the SMKI Repository Interface in accordance with the SMKI Repository Interface Design Specification and make it available, via DCC Gateway Connections, to:

- (a) the Parties and RDPs;
- (b) the Panel (or the Code Administrator on its behalf); and
- (c) the SMKI PMA (or the Code Administrator on its behalf),

to send and receive communications in accordance with the SMKI Repository Code of Connection and (where applicable) for the purpose of SMKI Entry Process Testing.

L6.2 The DCC shall ensure that the SMKI Repository Interface is available at all times (subject to Planned Maintenance undertaken in accordance with Section H8.3):

- (a) from the date on which the DCC is first obliged to provide the SMKI Services in accordance with Section L3 (The SMKI Services); and
- (b) prior to that date, on such dates and to such extent as is necessary for the purpose of facilitating SMKI Entry Process Testing.

The SMKI Repository Interface

L6.3 For the purposes of this Section L6, the “**SMKI Repository Interface**” means a communications interface designed to allow communications to be sent from and received by the SMKI Repository for the purposes of the SMKI Repository Service.

SMKI Repository Interface Design Specification

L6.4 For the purposes of this Section L6, the “**SMKI Repository Interface Design Specification**” shall be a SEC Subsidiary Document of that name which:

- (a) specifies the technical details of the SMKI Repository Interface; and
- (b) includes the protocols and technical standards that apply to the SMKI

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Repository Interface.

SMKI Repository Code of Connection

L6.5 For the purposes of this Section L6, the “**SMKI Repository Code of Connection**” shall be a SEC Subsidiary Document of that name which:

- (a) sets out the way in which the Parties, the RDPs, the Panel and the SMKI PMA may access the SMKI Repository Interface;
- (b) may specify limits on the use of the SMKI Repository Interface, including in particular limits on the time or extent of its use, or conditions which must be satisfied for the purposes of its use at a specified time or to a specified extent;
- (c) specifies the procedure by which the Parties, the RDPs, the Panel and the SMKI PMA may communicate over the SMKI Repository Interface; and
- (d) includes a description of the way in which the authentication and protection of communications taking place over the SMKI Repository Interface will operate.

SMKI Repository Interface Document Development

L6.6 The DCC shall develop drafts of the SMKI Repository Interface Design Specification and SMKI Repository Code of Connection:

- (a) in accordance with the process set out at Section L6.7; and
- (b) so that the drafts are available by no later than the date which falls six months prior to the commencement of Systems Integration Testing or such later date as may be specified by the Secretary of State.

L6.7 The process set out in this Section L6.7 for the development of drafts of the SMKI Repository Interface Design Specification and SMKI Repository Code of Connection is that:

- (a) the DCC shall, in consultation with the Parties and such other persons as it considers appropriate, produce a draft of each document;
- (b) where a disagreement arises with any person who is consulted with regard to

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

any proposal as to the content of either document, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the document;

- (c) the DCC shall send a draft of each document to the Secretary of State as soon as is practicable after it is produced, and shall when doing so provide to the Secretary of State:
 - (i) a statement of the reasons why the DCC considers that draft document to be fit for purpose;
 - (ii) copies of the consultation responses received; and
 - (iii) a summary of any disagreements that arose during consultation and that have not been resolved by reaching an agreed proposal; and
- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to either document, including in particular:
 - (i) any requirement to produce and submit to the Secretary of State a further draft of either document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L7 SMKI AND REPOSITORY ENTRY PROCESS TESTS

Eligibility Generally

L7.1 A Party or RDP shall not be entitled to:

- (a) apply to become an Authorised Subscriber for the purposes of any Certificate Policy; or
- (b) access the SMKI Repository,

until that Party or RDP has successfully completed the SMKI and Repository Entry Process Tests for the purposes of paragraph (a) or (b) above (as applicable).

L7.2 Only persons that are Parties or RDPs are eligible to complete the SMKI and Repository Entry Process Tests.

SMKI and Repository Entry Guide

L7.3 The DCC shall establish and arrange for the publication on the Website of a guide to the SMKI and Repository Entry Process Tests, which shall identify any information that a Party or RDP is required to provide in support of its application to complete the SMKI and Repository Entry Process Tests (whether for the purposes of Section L7.1(a) or (b) or both).

SMKI and Repository Entry Process Tests

L7.4 A Party or RDP that wishes to complete the SMKI and Repository Entry Process Tests (whether for the purposes of Section L7.1(a) or (b) or both) must apply to the DCC in compliance with any requirements identified in the guide referred to in Section L7.3.

L7.5 On receipt of an application from a Party or RDP pursuant to Section L7.4, the DCC shall process that Party's or RDP's application to complete the SMKI and Repository Entry Process Tests in accordance with this Section L7.

SMKI and Repository Entry Process Test Requirements

L7.6 A Party or RDP wishing to:

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) become an Authorised Subscriber for the purposes of any Certificate Policy must have successfully completed the SMKI and Repository Entry Process Tests for that purpose; or
- (b) access the SMKI Repository must have successfully completed the SMKI and Repository Entry Process Tests for that purpose.

L7.7 A Party or RDP will have successfully completed the SMKI and Repository Entry Process Tests for a particular purpose once that Party or RDP has received confirmation from the DCC that it has met the relevant requirements of Section L7.6.

L7.8 Once a Party or RDP has successfully completed the SMKI and Repository Entry Process Tests for a particular purpose, the DCC shall confirm the same to the Panel.

Network Parties and RDPs

L7.9 Each Network Party shall ensure that its Registration Data Provider (being the Network Party itself where that is deemed to be the case in accordance with the definition of Registration Data Provider) shall, when acting in its capacity as the Network Party's RDP to undertake the SMKI and Repository Entry Process Tests, comply with the obligations expressed to be placed on RDPs under Section H14 (Testing Services) and the SMKI and Repository Test Scenarios Document.

L7.10 Where more than one Network Party nominates the same Registration Data Provider, each of those Network Parties shall be jointly and severally liable for any failure by that RDP, when acting in its capacity as the Network Parties' RDP to undertake the SMKI and Repository Entry Process Tests, to comply with any of the obligations expressed to be placed on RDPs under Section H14 (Testing Services) and the SMKI and Repository Test Scenarios Document.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L8 SMKI PERFORMANCE STANDARDS AND DEMAND MANAGEMENT

SMKI Services: Target Response Times

L8.1 The DCC shall undertake the following activities within the following time periods (each such time period being, in respect of each such activity, the “**Target Response Time**” for that activity):

- (a) in response to a single Certificate Signing Request, sending to an Eligible Subscriber either an Organisation Certificate or Device Certificate within 30 seconds of receipt of the Certificate Signing Request from that Eligible Subscriber over the SMKI Service Interface; and
- (b) in response to a Batched Certificate Signing Request, sending to an Eligible Subscriber the number of Device Certificates that were requested:
 - (i) where the receipt of the Batched Certificate Signing Request from that Eligible Subscriber over the SMKI Service Interface occurred between the hours of 08:00 and 20:00 on any day, by no later than 08:00 on the following day; or
 - (ii) where the receipt of the Batched Certificate Signing Request from that Eligible Supplier over the SMKI Service Interface did not occur between the hours of 08:00 and 20:00, within 24 hours of the time of that receipt.

L8.2 For the purposes of Section L8.1, a “**Batched Certificate Signing Request**” is a single communication containing Certificate Signing Requests for the Issue of more than one but no more than 50,000 Device Certificates.

L8.3 For the purposes of Section L8.1, the concepts of ‘sending’ and ‘receipt’ are to be interpreted in accordance with the explanation of those concepts in the SMKI Interface Design Specification.

SMKI Repository Service: Target Response Time

L8.4 The DCC shall send to a Party, an RDP, the Panel or the SMKI PMA (as the case may be) a copy of any document or information stored on the SMKI Repository within 3

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

seconds of receipt of a request for that document from that person or body over the SMKI Repository Interface (and that time period shall be the “**Target Response Time**” for that activity).

L8.5 For the purposes of Section L8.4, the concepts of ‘sending’ and ‘receipt’ are to be interpreted in accordance with the explanation of those concepts in the SMKI Repository Interface Design Specification.

Code Performance Measures

L8.6 Each of the following performance measures constitute a Code Performance Measure (to which the following Target Service Level and Minimum Service Level will apply, measured over the following Performance Measurement Period):

No.	Code Performance Measure	Performance Measurement Period	Target Service Level	Minimum Service Level
7	Percentage of Certificates delivered within the applicable Target Response Time for the SMKI Services.	monthly	99%	96%
8	Percentage of documents stored on the SMKI Repository delivered within the applicable Target Response Time for the SMKI Repository Service.	monthly	99%	96%

SMKI Services: Managing Demand

L8.7 Each Party which is an Authorised Subscriber in accordance with the Device Certificate Policy shall:

- (a) as soon as reasonably practicable after becoming an Authorised Subscriber; and
- (b) subsequently by the 15th Working Day of the months of March, June, September and December in each year,

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

provide the DCC with a forecast of the number of Certificate Signing Requests that the Authorised Subscriber will send in each of the 8 months following the end of the month in which such forecast is provided. Such forecast shall contain a breakdown of the total number of Certificate Signing Requests in respect of Device Certificates between those which request the Issue of a single Device Certificate and those which are Batched Certificate Signing Requests.

L8.8 The DCC shall monitor and record the aggregate number of Certificate Signing Requests sent by each Authorised Subscriber in total.

L8.9 By no later than the 10th Working Day following the end of each month, the DCC shall provide:

- (a) each Authorised Subscriber with a report that sets out the number of Certificate Signing Requests sent by that Authorised Subscriber in respect of Device Certificates during that month (in total and broken down between those which request the Issue of a single Device Certificate and those which are Batched Certificate Signing Requests), and comparing the actual numbers sent against the numbers most recently forecast for the applicable month; and
- (b) (in so far as there were one or more Parties or RDPs which were Authorised Subscribers during the applicable month) a report to the Panel that sets out:
 - (i) the aggregate number of Certificate Signing Requests in respect of Device Certificates sent by all Authorised Subscribers collectively during that month (in total and broken down between those which request the Issue of a single Device Certificate and those which are Batched Certificate Signing Requests), and comparing the actual numbers for that month sent against the numbers most recently forecast for the applicable month; and
 - (ii) where the number of Certificate Signing Requests in respect of Device Certificates sent by any Authorised Subscriber during that month is greater than or equal to 110% of the Authorised Subscriber's most recent monthly forecast for the applicable month, the identity of each such Authorised Subscriber and the number of Certificate Signing

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Requests in respect of Device Certificates sent by each such Authorised Subscriber (in total and broken down between those which request the Issue of a single Device Certificate and those which are Batched Certificate Signing Requests)

L8.10 The Panel shall publish each report provided to it pursuant to Section L8.9(b) on the Website, save that the Panel may decide not to publish one or more parts of a report concerning under-forecasting as referred to in Section L8.9(b)(ii) where the Panel considers that the under-forecasting was reasonable in the circumstances (including where it arose as a result of matters beyond the Authorised Subscriber's reasonable control).

L8.11 The DCC shall, as soon as is reasonably practicable, submit a Modification Proposal containing rules that it considers appropriate to enable the prioritisation by the DCC of Certificate Signing Requests in respect of Device Certificates sent over the SMKI Service Interface in circumstances in which the aggregate demand for the Issue of Device Certificates cannot be satisfied within the applicable Target Response Times.

L8.12 The DCC shall not be considered to be in breach of this Code with regard to the obligation to achieve the Target Response Times set out at Section L8.1 if, during the month in question, the aggregate Certificate Signing Requests in respect of Device Certificates sent by all Authorised Subscribers exceeds 110% of the aggregate demand most recently forecast for that month by all Authorised Subscribers pursuant to Section L8.7 (provided that the DCC shall nevertheless in such circumstances take reasonable steps~~use its reasonable endeavours~~ to achieve the Target Response Times).

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L9 THE SMKI DOCUMENT SET

Obligations on the SMKI PMA

L9.1 The SMKI PMA shall exercise the functions that are allocated to it under and (in so far as they apply to it) comply with the requirements of the SMKI Document Set.

Obligations on SMKI Participants

L9.2 Each SMKI Participant shall (in so far as they apply to it) comply with the requirements of the SMKI SEC Documents.

The SMKI Document Set

L9.3 For the purposes of this Section L, the "**SMKI Document Set**" means:

- (a) the SMKI SEC Documents;
- (b) the Device CPS;
- (c) the Organisation CPS; and
- (d) the IKI CPS.

The SMKI SEC Documents

L9.4 For the purposes of this Section L, the "**SMKI SEC Documents**" means the provisions of the Code comprising:

- (a) the following SEC Subsidiary Documents:
 - (i) the Device Certificate Policy;
 - (ii) the Organisation Certificate Policy;
 - (iii) the IKI Certificate Policy;
 - (iv) the SMKI Compliance Policy;
 - (v) the SMKI RAPP;
 - (vi) the SMKI Recovery Procedure;

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (vii) the SMKI Interface Design Specification;
 - (viii) the SMKI Code of Connection;
 - (ix) the SMKI Repository Interface Design Specification;
 - (x) the SMKI Repository Code of Connection;
 - (xi) the SMKI and Repository Test Scenarios Document;
- (b) the provisions of Sections L1 to L12; and
- (c) every other provision of the Code which relates to the provision or the use of the SMKI Services or the SMKI Repository Service or to any matters directly arising from or affecting the provision or the use of those Services.

The Registration Authority Policies and Procedures: Document Development

L9.5 The DCC shall develop a draft of the SMKI RAPP:

- (a) to make provision for such matters as are specified in the Certificate Policies as being matters provided for in the SMKI RAPP;
- (b) to make provision for such other matters as are necessary or appropriate in relation to the exercise of its functions as the Registration Authority;
- (c) to make provision for such matters as are necessary or appropriate in relation to Test Certificates that are being made available to Testing Participants;
- (d) to make such provision as the DCC may consider appropriate in relation to the means by which the identity and authorisation of individuals and Parties may be verified for the purposes of the DCCKI Services (in addition to any such provision made in respect of the SMKI Services);
- (e) in accordance with the process set out at Section L9.6; and
- (f) so that the draft is available by no later than the date which falls six months prior to the commencement of Systems Integration Testing or such later date as may be specified by the Secretary of State.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L9.6 The process set out in this Section L9.6 for the development of a draft of the SMKI RAPP is that:

- (a) the DCC shall, in consultation with the Parties and such other persons as it considers appropriate, produce a draft of the SMKI RAPP;
- (b) where a disagreement arises with any person who is consulted with regard to any proposal as to the content of the SMKI RAPP, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the SMKI RAPP specified in Section L9.5;
- (c) the DCC shall send a draft of the SMKI RAPP to the Secretary of State as soon as is practicable after it is produced, and shall when doing so provide to the Secretary of State:
 - (i) a statement of the reasons why the DCC considers that draft to be fit for purpose; and
 - (ii) a summary of any disagreements that arose during consultation and that have not been resolved by reaching an agreed proposal; and
- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to the draft of the SMKI RAPP, including in particular:
 - (i) any requirement to produce and submit to the Secretary of State a further draft of the document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.

The Device Certification Practice Statement

L9.7 The DCC shall establish, give effect to, maintain and comply with a document which shall be known as the “**Device CPS**”.

L9.8 The Device CPS shall be a document which:

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) sets out the policies and procedures of the DCC designed to ensure that it will comply with the requirements of the Device Certificate Policy;
- (b) incorporates the detailed operating procedures to be used by the DCC for the purposes of its compliance with the requirements of that Policy;
- (c) incorporates such other provisions as may be required by or in accordance with that Policy or any other part of the Code; and
- (d) is approved by the SMKI PMA as appropriate for these purposes.

L9.9 For the purposes of the approval of the Device CPS by the SMKI PMA in accordance with Section L9.8(d):

- (a) the DCC shall submit an initial draft of the Device CPS to the SMKI PMA by no later than the date which falls three months prior to the commencement of Systems Integration Testing or such later date as may be agreed by the SMKI PMA;
- (b) the SKMI PMA shall review the initial draft of the Device CPS and shall:
 - (i) approve the draft, which shall become the Device CPS; or
 - (ii) state that it will approve the draft subject to the DCC first making such amendments to the document as it may direct; and
- (c) the DCC shall make any amendments to the draft Device CPS that may be directed by the SMKI PMA, and the amended draft shall become the Device CPS.

L9.10 The DCC shall keep the Device CPS under review, and shall in particular carry out a review of the Device CPS whenever (and to the extent to which) it may be required to so by the SMKI PMA.

L9.11 Following any review of the Device CPS:

- (a) the DCC may propose amendments to it, which it shall submit to the SMKI PMA for its approval; and

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) those amendments may be made only to the extent to which the SMKI PMA has approved them.

L9.12 Both the DCC and the SMKI PMA shall treat the Device CPS as confidential.

The Organisation Certification Practice Statement

L9.13 The DCC shall establish, give effect to, maintain and comply with a document which shall be known as the “**Organisation CPS**”.

L9.14 The Organisation CPS shall be a document which:

- (a) sets out the policies and procedures of the DCC designed to ensure that it will comply with the requirements of the Organisation Certificate Policy;
- (b) incorporates the detailed operating procedures to be used by the DCC for the purposes of its compliance with the requirements of that Policy;
- (c) incorporates such other provisions as may be required by or in accordance with that Policy or any other part of the Code; and
- (d) is approved by the SMKI PMA as appropriate for these purposes.

L9.15 For the purposes of the approval of the Organisation CPS by the SMKI PMA in accordance with Section L9.14(d):

- (a) the DCC shall submit an initial draft of the Organisation CPS to the SMKI PMA by no later than the date which falls three months prior to the commencement of Systems Integration Testing or such later date as may be agreed by the SMKI PMA;
- (b) the SKMI PMA shall review the initial draft of the Organisation CPS and shall:
 - (i) approve the draft, which shall become the Organisation CPS; or
 - (ii) state that it will approve the draft subject to the DCC first making such amendments to the document as it may direct; and

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) the DCC shall make any amendments to the draft Organisation CPS that may be directed by the SMKI PMA, and the amended draft shall become the Organisation CPS.

L9.16 The DCC shall keep the Organisation CPS under review, and shall in particular carry out a review of the Organisation CPS whenever (and to the extent to which) it may be required to so by the SMKI PMA.

L9.17 Following any review of the Organisation CPS:

- (a) the DCC may propose amendments to it, which it shall submit to the SMKI PMA for its approval; and
- (b) those amendments may be made only to the extent to which the SMKI PMA has approved them.

L9.18 Both the DCC and the SMKI PMA shall treat the Organisation CPS as confidential.

The IKI Certification Practice Statement

L9.19 The DCC shall establish, give effect to, maintain and comply with a document which shall be known as the “**IKI CPS**”.

L9.20 The IKI CPS shall be a document which:

- (a) sets out the policies and procedures of the DCC designed to ensure that it will comply with the requirements of the IKI Certificate Policy;
- (b) incorporates the detailed operating procedures to be used by the DCC for the purposes of its compliance with the requirements of that Policy;
- (c) incorporates such other provisions as may be required by or in accordance with that Policy or any other part of the Code; and
- (d) is approved by the SMKI PMA as appropriate for these purposes.

L9.21 For the purposes of the approval of the IKI CPS by the SMKI PMA in accordance with Section L9.20(d):

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the DCC shall submit an initial draft of the IKI CPS to the SMKI PMA by no later than the date which falls one month prior to the commencement of Systems Integration Testing or such later date as may be agreed by the SMKI PMA;
- (b) the SKMI PMA shall review the initial draft of the IKI CPS and shall:
 - (i) approve the draft, which shall become the IKI CPS; or
 - (ii) state that it will approve the draft subject to the DCC first making such amendments to the document as it may direct; and
- (c) the DCC shall make any amendments to the draft IKI CPS that may be directed by the SMKI PMA, and the amended draft shall become the IKI CPS.

L9.22 The DCC shall keep the IKI CPS under review, and shall in particular carry out a review of the IKI CPS whenever (and to the extent to which) it may be required to so by the SMKI PMA.

L9.23 Following any review of the IKI CPS:

- (a) the DCC may propose amendments to it, which it shall submit to the SMKI PMA for its approval; and
- (b) those amendments may be made only to the extent to which the SMKI PMA has approved them.

L9.24 Both the DCC and the SMKI PMA shall treat the IKI CPS as confidential.

Enquiries in relation to the SMKI Document Set

L9.25 The DCC shall respond within a reasonable time to any reasonable request for information made by a Party or RDP in relation to the SMKI Services, the SMKI Repository Services or the SMKI Document Set, but excluding any request for a copy of any document or information which can be accessed through the SMKI Repository.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L10 THE SMKI RECOVERY PROCEDURE

The SMKI Recovery Procedure

L10.1 For the purposes of this Section L10, the "**SMKI Recovery Procedure**" shall be a SEC Subsidiary Document of that name which sets out, in relation to any incident in which a Relevant Private Key is (or is suspected of being) Compromised:

- (a) the mechanism by which Parties and RDPs may notify the DCC and the DCC may notify Parties, RDPs and the SMKI PMA that the Relevant Private Key has been (or is suspected of having been) Compromised;
- (b) procedures relating to the use of the Recovery Private Key and Contingency Private Key (including the use of the Symmetric Key) where such use has been required in accordance with a decision of the SMKI PMA;
- (c) procedures relating to:
 - (i) the distribution of new Root OCA Certificates and Organisation Certificates to Devices; and
 - (ii) the coordination of the submission of Certificate Signing Requests by Eligible Subscribers following the replacement of any OCA Certificate;
- (d) steps to be taken by the DCC, the Parties (or any of them, whether individually or by Party Category), RDPs, the SMKI PMA (or any SMKI PMA Members) and the Panel (or any Panel Members), including in particular in respect of:
 - (i) notification of the Compromise (or suspected Compromise); and
 - (ii) the process for taking steps to avoid or mitigate the adverse effects of, or to recover from, the (actual or suspected) Compromise, which steps may differ depending on the Relevant Private Key that has been (or is suspected of having been) Compromised and the nature and extent of the (actual or suspected) Compromise and the adverse effects arising from it; and
- (e) arrangements to be made preparatory to and for the purpose of ensuring the

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

effective operation of the matters described in paragraphs (a) to (d), and the associated technical solutions employed by the DCC, including for their periodic testing.

L10.2 The SMKI Recovery Procedure:

- (a) shall make provision for the use of the Recovery Private Key and Contingency Private Key (including the use of the Symmetric Key) only where such use has been required in accordance with a decision of the SMKI PMA;
- (b) shall make provision for the DCC, if it has reason to believe that the use of the Recovery Private Key or Contingency Private Key (including the Symmetric Key) is likely to be required by the SMKI PMA, to take or instruct any Party, any SMKI PMA Member or any Panel Member to take such preparatory steps in respect of that use as it considers appropriate; and
- (c) may make provision:
 - (i) that, in specified circumstances, certain requirements of the SMKI Recovery Procedure, or of decisions made under and in accordance with the provisions of the SMKI Recovery Procedure, may take precedence over the other provisions of the Code;
 - (ii) for the operation of procedures which, in specified circumstances, require that decisions over whether or not to take certain steps are referred to the SMKI PMA for its determination;
 - (iii) for the SMKI PMA to require any Party to nominate individuals for the purpose of performing specified tasks.

L10.3 Where the DCC follows any of the procedures specified in the SMKI Recovery Procedure, it shall, as soon as is reasonably practicable, notify the SMKI PMA of the steps that it has taken and provide such additional supporting information as the SMKI PMA reasonably requests.

SMKI Recovery Procedure: Obligations

L10.4 The DCC, each Party, the SMKI PMA (and SMKI PMA Members) and the Panel

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(and Panel Members) shall comply, in so far as applicable to it (or them), with any requirements set out in the SMKI Recovery Procedure.

L10.5 Any SMKI PMA Member or Panel Member who is appointed by (respectively) the SMKI PMA or Panel to carry out a specific role in respect of the SMKI Recovery Procedure must ~~use reasonable endeavours~~ **take reasonable steps** to act in accordance with any instructions given to him by the SMKI PMA or Panel (as the case may be) in relation to the way in which that role is to be carried out.

L10.6 The DCC shall reimburse the reasonable costs of any Party which that Party can demonstrate were incurred by it solely and directly in consequence of actions taken by it to support the maintenance of the procedures and arrangements set out in the SMKI Recovery Procedure, and which it would not otherwise have incurred.

SMKI Recovery Procedure: Document Development

L10.7 The DCC shall develop a draft of the SMKI Recovery Procedure:

- (a) in accordance with the process set out at Section L10.8; and
- (b) so that the draft is available by no later than the date which falls six months prior to the commencement of Systems Integration Testing or such later date as may be specified by the Secretary of State.

L10.8 The process set out in this Section L10.8 for the development of a draft of the SMKI Recovery Procedure is that:

- (a) the DCC shall, in consultation with the Parties, the SMKI PMA and such other persons as it considers appropriate, produce a draft of the SMKI Recovery Procedure;
- (b) where a disagreement arises with any person who is consulted with regard to any proposal as to the content of the SMKI Recovery Procedure, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the SMKI Recovery Procedure specified in Section L10.1;
- (c) the DCC shall send a draft of the SMKI Recovery Procedure to the Secretary of State as soon as is practicable after it is produced, and shall when doing so

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

provide to the Secretary of State:

- (i) a statement of the reasons why the DCC considers that draft to be fit for purpose; and
 - (ii) a summary of any disagreements that arose during consultation and that have not been resolved by reaching an agreed proposal; and
- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to the draft of the SMKI Recovery Procedure, including in particular:
- (i) any requirement to produce and submit to the Secretary of State a further draft of the document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.

The SMKI Recovery Key Guidance

L10.9 For the purposes of this Section L10, the "**SMKI Recovery Key Guidance**" shall be a document of that name which makes such provision as is appropriate, in relation to any incident in which a Relevant Private Key is (or is suspected of being) Compromised, for any one or more of the following:

- (a) any factors which shall be taken into account by the SMKI PMA in deciding whether or not to require the use of the Recovery Private Key or Contingency Private Key (including the Symmetric Key);
- (b) any other factors which may in particular be taken into account by the SMKI PMA for the purposes of that decision;
- (c) any weighting or order of priority which shall, or may, be given by the SMKI PMA to any of the factors referred to in paragraphs (a) and (b); and
- (d) any criteria that are to be applied by the SMKI PMA, any approach that is to be followed by it, or any steps that are to be taken by it, prior to making a

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

decision whether or not to require the use of the Recovery Private Key or Contingency Private Key (including the Symmetric Key).

Recovery Key Guidance: Obligations

L10.10 The SMKI PMA:

- (a) shall act in accordance with the SMKI Recovery Key Guidance in making any decision whether or not to require the use of the Recovery Private Key or Contingency Private Key (including the Symmetric Key); and
- (b) may request such information and assistance from the DCC, the Security Sub-Committee or any Party as it reasonably considers appropriate for the purposes of making any such decision or ensuring that it will be prepared to make any such decision that may fall to be made by it at a future date.

L10.11 The DCC, each other Party, and the Security Sub-Committee shall promptly provide the SMKI PMA with such information and assistance as may be requested in accordance with Section L10.10.

L10.12 The DCC shall, where requested to do so, reimburse the reasonable costs of any Party associated with the provision of assistance in accordance with Section L10.11.

Recovery Key Guidance: Document Development

L10.13 The SMKI PMA shall:

- (a) develop the SMKI Recovery Key Guidance, and for that purpose:
 - (i) consult with the DCC, the Security Sub-Committee, the Parties, the Secretary of State and the Authority; and
 - (ii) have regard to the views of each person consulted by it prior to determining the content of the document;
- (b) periodically review the SMKI Recovery Key Guidance, and in particular carry out a review whenever (and to the extent to which) it may be required to do so by the Panel or the Authority;

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) where, following any review, it proposes to amend the SMKI Recovery Key Guidance:
 - (i) consult the DCC, the Security Sub-Committee, the Parties and the Authority in relation to the proposed amendments; and
 - (ii) have regard to the views of each person consulted by it prior to making any amendments to the document; and
- (d) publish the SMKI Recovery Key Guidance, as initially determined by it and on each amendment made to that document from time to time.

Recovery Events and Recovery Costs

Recovery Events

L10.14 For the purposes of this Section L10, a "**Recovery Event**" is an event that shall be taken to have occurred when the circumstances described in either Section L10.15 or L10.16 exist.

L10.15 The circumstances described in this Section L10.15 are that:

- (a) the DCC has notified the SMKI PMA that a Relevant Private Key has been (or is suspected of having been) Compromised; and
- (b) in consequence of that (actual or suspected) Compromise, the SMKI PMA has decided to require the use of the Recovery Private Key or Contingency Private Key (including the use of the Symmetric Key) in accordance with the SMKI Recovery Procedure.

L10.16 The circumstances described in this Section L10.16 are that:

- (a) the DCC has notified the SMKI PMA that a Relevant Private Key has been (or is suspected of having been) Compromised;
- (b) the SMKI PMA has been provided with (or otherwise obtained) evidence that:
 - (i) attempts have been made, by means of sending appropriate Commands, to replace the Data comprising part of the Device Security Credentials

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

of Relevant Devices which derive from any Organisation Certificate or OCA Certificate which is (or is suspected of being) Compromised; or

- (ii) it was not feasible or appropriate for any such attempt to be made; and
- (c) the SMKI PMA has decided not to require the use of the Recovery Private Key or Contingency Private Key (including the Symmetric Key).

Recovery Costs

L10.17 For the purposes of this Section L10, the "**Recovery Costs**" shall be such costs as are reasonably incurred in consequence of a Recovery Event (and which would not otherwise have incurred) by any Party:

- (a) in respect of the use of the Recovery Private Key or Contingency Private Key (including the use of the Symmetric Key) in accordance with the requirement of the SMKI PMA; and
- (b) in taking such action as is necessary, where the Recovery Private Key or Contingency Private Key (including the Symmetric Key) has not been used or has been used unsuccessfully, to replace:
 - (i) Relevant Devices for which that Party is the Responsible Supplier; or
 - (ii) the Data comprising part of the Device Security Credentials of such Relevant Devices which derive from any Organisation Certificate or OCA Certificate which is (or is suspected of being) Compromised.

Payment of Recovery Costs by the DCC

L10.18 Where any Party incurs Recovery Costs, it may submit to the DCC a request to be recompensed in respect of those costs.

L10.19 Where any Party wishes to submit a request in accordance with Section L10.18, it shall:

- (a) within three months of the Recovery Event, notify the DCC of its intention to do so;

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) unless, at the same time as notifying the DCC of that intention it also notifies the DCC of the total amount of the costs in respect of which it requests to be recompensed:
 - (i) provide to the DCC at that time its best estimate of the likely amount of those costs; and
 - (ii) at least once in every subsequent period of three months, until such time as it notifies the DCC of the total amount of the costs in respect of which it requests to be recompensed, provide to the DCC an updated best estimate of the likely amount of those costs; and
- (c) as soon as possible, and in any event within three months of the date on which it ceases to incur Recovery Costs, notify the DCC of the total amount of the costs in respect of which it requests to be recompensed.

L10.20 A Party giving notice to the DCC in accordance with Section L10.19 shall:

- (a) subject to paragraph (b), provide to the DCC such evidence in respect of the amount of the Recovery Costs incurred by that Party:
 - (i) as the DCC may reasonably require;
 - (ii) by such dates as the DCC may reasonably specify; or
- (b) where the Panel considers the matter either of its own motion or on a referral by the Party or the DCC, provide to the DCC such evidence relating to the amount of the costs incurred by that Party:
 - (i) as the Panel may determine is reasonably required;
 - (ii) by such dates as the Panel may reasonably specify.

L10.21 The evidence referred to in Section L10.20 may include in particular, if the DCC or the Panel (as the case may be) determines that it is reasonably required, the report of an independent auditor verifying that the amount requested by a Party represents a fair and accurate statement of the Recovery Costs incurred by that Party.

L10.22 On receipt by it of a request from a Party to be recompensed in respect of Recovery

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Costs, the DCC shall, where it is satisfied that the amount of the costs requested by that Party is adequately supported by the evidence provided to it in accordance with Section L10.20, pay to the Party that amount.

L10.23 Where the DCC has any question whether the evidence provided to it by a Party is adequate to support the amount of the costs requested:

- (a) it shall refer that question to the Panel for its determination; and
- (b) the Panel shall determine that question by directing that the DCC shall pay to the Party the full amount requested or only part of that amount (in a sum that is specified by the Panel), or shall make no payment to that Party.

L10.24 Where the amount of the Recovery Costs requested by any Party is (whether alone or taken together with amounts requested by any other Parties in relation to the same Recovery Event) for a sum exceeding that which is determined from time to time by the Panel, following consultation with the Parties and the Authority, for the purposes of this Section L10.24:

- (a) the DCC may refer to the Panel, for its determination, the question of the dates on which the payments of the amounts requested shall be made;
- (b) the Panel shall determine the dates on which those payments shall be made, and may in particular determine that:
 - (i) different Parties shall be paid at different times; and
 - (ii) any amount which is to be paid to a Party shall be paid in instalments at different times; and
- (c) the Panel shall consider whether to make any Modification Proposal in relation to the Charging Methodology (taking into account whether it is proposed by the Authority to make any adjustment to the allowable revenues of the DCC, or by the DCC to amend the Charging Statement).

Breach of the Code by the Relevant Subscriber

L10.25 Where a Recovery Event occurs, and where the Relevant Subscriber is the DCC, the

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

DCC shall be deemed to be in breach of:

- (a) where the (actual or suspected) Compromise is to an Organisation Certificate, Section L11.9 (Organisation and IKI Certificates: Protection of Private Keys);
or
- (b) where the (actual or suspected) Compromise is to an OCA Certificate, Part 6.2.1 of the Organisation Certificate Policy (Cryptographic Module Standards and Controls).

L10.26 Where a Recovery Event occurs, and where the Relevant Subscriber is any Party other than the DCC, that Party shall be deemed to be in breach of Section L11.9 (Organisation and IKI Certificates: Protection of Private Keys), unless the (actual or suspected) Compromise to the Relevant Private Key which gave rise to the Recovery Event was due to the (actual or suspected) Compromise of an OCA Certificate.

L10.27 Where a Relevant Subscriber is, by virtue of Section L10.25 or L10.26, deemed to be in breach of a provision of this Code, it shall cease to be so deemed (and no such breach shall be treated as having occurred) where:

- (a) within three months of the date of the Recovery Event it refers the matter to the Panel;
- (b) following that referral it demonstrates to the reasonable satisfaction of the Panel, that the (actual or suspected) Compromise to the Relevant Private Key which gave rise to the Recovery Event was not due to its breach of Section L11.9 or of Part 6.2.1 of the Organisation Certificate Policy (as the case may be); and
- (c) the Panel determines accordingly that no such breach occurred.

L10.28 In all circumstances other than those described in Section L10.27, and subject to the provisions of Section L10.29, where a breach is deemed to have occurred in accordance with Section L10.25 or L10.26, that shall be treated as a final and binding determination of its occurrence for the purposes of this Code.

Appeal to the Authority

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L10.29 Any decision made by the Panel in accordance with Section L10.20, L10.23, L10.24 or L10.27 may be appealed to the Authority, whose decision shall be final and binding for the purposes of this Code.

Definitions

L10.30 For the purposes of this Section L10:

- (a) a "**Relevant Device**" means a Device:
 - (i) which has, or had immediately prior to a Recovery Event, an SMI Status of 'commissioned'; and
 - (ii) the Device Security Credentials of which are populated with, or are reasonably believed immediately prior to a Recovery Event to have been populated with, Data from an Organisation Certificate or OCA Certificate which has been (or is suspected of having been) Compromised as a result of an (actual or suspected) Compromise to the Relevant Private Key which gave rise to the Recovery Event;
- (b) the "**Relevant Subscriber**" means, where a Recovery Event has occurred, the Subscriber for an Organisation Certificate or OCA Certificate which has been (or is suspected of having been) Compromised as the result of an (actual or suspected) Compromise to the Relevant Private Key which gave rise to the Recovery Event;
- (c) a "**Relevant Private Key**" means a Private Key which is used to encrypt the Contingency Key Pair, or a Private Key which is associated with a Public Key contained in:
 - (i) any Organisation Certificate or OCA Certificate, Data from which is used to populate the Device Security Credentials of a Device comprising part of an Enrolled Smart Metering System; or
 - (ii) any OCA Certificate that was used as part of the process of Issuing any such Organisation Certificate or OCA Certificate;
- (d) a "**Recovery Key Pair**" means a Key Pair established by the DCC for the

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

purposes of the replacement of Organisation Certificates on Devices after a Relevant Private Key has been Compromised, and:

- (i) a "**Recovery Private Key**" means the Private Key which is part of that Key Pair; and
 - (ii) a "**Recovery Certificate**" means an Organisation Certificate Issued by the OCA and containing the Public Key which is part of that Key Pair; and
- (e) a "**Contingency Key Pair**" means a Key Pair established by the DCC for the purposes of the replacement of Root OCA Certificates on Devices after a Relevant Private Key has been Compromised, and comprising:
- (i) a "**Contingency Private Key**", being the Private Key which is part of that Key Pair; and
 - (ii) a "**Contingency Public Key**", being the Public Key which is part of that Key Pair and which is stored in the `WrappedApexContingencyKey` field of the Root OCA Certificate (being the field identified as such in the Root OCA Certificate Profile at Annex B of the Organisation Certificate Policy).

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L11 THE SUBSCRIBER OBLIGATIONS

Certificate Signing Requests

- L11.1 Each Eligible Subscriber shall ensure that all of the information contained in each Certificate Signing Request made by it is true and accurate.
- L11.2 No Eligible Subscriber may make a Certificate Signing Request which contains:
- (a) any information that constitutes a trade mark, unless it is the holder of the Intellectual Property Rights in relation to that trade mark; or
 - (b) any confidential information which would be contained in a Certificate Issued in response to that Certificate Signing Request.
- L11.3 Each Eligible Subscriber shall ensure that either:
- (a) where appropriate, in the case of a Certificate Signing Request for the Issue of an IKI Certificate, that Certificate Signing Request has been generated using a Cryptographic Credential Token that was provided by the DCC to the Eligible Subscriber in accordance with the SMKI RAPP; or
 - (b) in every other case, the Public Key that is included within a Certificate Signing Request is part of a Key Pair that has been generated using random numbers which are such as to make it computationally infeasible to regenerate that Key Pair even with knowledge of when and by means of what equipment it was generated.
- L11.4 No Eligible Subscriber may make a Certificate Signing Request for the Issue of:
- (a) a Device Certificate or DCA Certificate which contains the same Public Key as a Public Key which that Eligible Subscriber knows to be contained in any other Device Certificate or DCA Certificate;
 - (b) an Organisation Certificate or OCA Certificate which contains the same Public Key as a Public Key which that Eligible Subscriber knows to be contained in any other Organisation Certificate or OCA Certificate (except in the case of the Root OCA Certificate to the extent to which it is expressly permitted in

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

accordance with the Organisation Certificate Policy); or

- (c) an IKI Certificate or ICA Certificate which contains the same Public Key as a Public Key which that Eligible Subscriber knows to be contained in any other IKI Certificate or ICA Certificate.

Subscribing for or Rejecting Organisation Certificates

L11.5 Where any Organisation Certificate is Issued to an Eligible Subscriber in response to a Certificate Signing Request, that Eligible Subscriber shall:

- (a) establish whether the information contained in that Certificate is consistent with information that was contained in the Certificate Signing Request;
- (b) if it identifies that the Certificate contains any information which is untrue or inaccurate:
 - (i) reject that Certificate; and
 - (ii) immediately inform the DCC that it rejects the Certificate and give to the DCC its reasons for doing so; and
- (c) where it does not reject the Certificate, become a Subscriber for that Certificate.

Subscribing for or Rejecting Device Certificates

L11.6 Where any Device Certificate is Issued to an Eligible Subscriber in response to a Certificate Signing Request, that Eligible Subscriber shall:

- (a) ~~use its reasonable endeavours~~ **take reasonable steps** to establish whether the information contained in that Certificate is consistent with information that was contained in the Certificate Signing Request;
- (b) if it identifies that the Certificate contains any information which is untrue or inaccurate:
 - (i) reject that Certificate; and

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (ii) immediately inform the DCC that it rejects the Certificate and give to the DCC its reasons for doing so; and
- (c) where it does not reject the Certificate, become a Subscriber for that Certificate.

Subscribing for or Rejecting IKI Certificates

L11.7 Where any IKI Certificate is Issued to an Eligible Subscriber in response to a Certificate Signing Request, that Eligible Subscriber shall:

- (a) establish whether the information contained in that Certificate is consistent with information that was contained in the Certificate Signing Request;
- (b) if it identifies that the Certificate contains any information which is untrue or inaccurate:
 - (i) reject that Certificate;
 - (ii) immediately inform the DCC that it rejects the Certificate and give to the DCC its reasons for doing so; and
- (c) where it does not reject the Certificate, become a Subscriber for that Certificate.

Use of Certificates and Key Pairs

L11.8 Each Subscriber shall ensure that it does not use any Certificate, Public Key contained within a Certificate, or Private Key associated with a Public Key contained in a Certificate, that is held by it other than for the purposes of creating, sending, receiving and processing communications sent to and from Devices and the DCC pursuant to the Code.

Organisation and IKI Certificates: Protection of Private Keys

L11.9 Each Subscriber shall (in addition, if it is the DCC, a User or an RDP, to its obligations under Section G (Security)) ~~use its reasonable endeavours~~ **reasonable steps** to ensure that no Compromise occurs to any:

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) Private Key which is associated with a Public Key contained in an Organisation Certificate or IKI Certificate for which it is the Subscriber; or
- (b) Secret Key Material associated with that Private Key.

Organisation Certificates: Expiry of Validity Period

L11.10 Each Subscriber shall, prior to the expiry of the Validity Period of an Organisation Certificate or OCA Certificate for which it is the Subscriber:

- (a) request a replacement for that Certificate by applying for the Issue of a new Organisation Certificate or OCA Certificate in accordance with the provisions of the Organisation Certificate Policy; and
- (b) ensure that any Data from that Certificate which are used to populate the Device Security Credentials of any Device are replaced by Data from the new Certificate Issued to it by the OCA.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L12 RELYING PARTY OBLIGATIONS

Relying Parties

L12.1 For the purposes of this Section L12, a ‘Relying Party’ in relation to an Organisation Certificate, OCA Certificate, IKI Certificate or ICA Certificate means any Party or RDP which relies on the Certificate for the purposes of creating, sending, receiving or processing communications sent to and from a Device or another Party or RDP pursuant to this Code.

L12.2 For the purposes of Section L12.1, a Relying Party shall be deemed to include:

- (a) in the case of a Device which relies on a Certificate, the Responsible Supplier for that Device; and
- (b) in the case of a Communications Hub Function or Gas Proxy Function which relies on a Certificate, the DCC.

Duties in relation to Organisation Certificates, OCA Certificates, IKI Certificates and ICA Certificates

L12.3 Each Relying Party shall:

- (a) before relying on any Organisation Certificate:
 - (i) ~~check~~ **Check Cryptographic Protection the version in respect** of the Organisation CRL on the SMKI Repository, **in accordance with the GB Companion Specification**; and
 - (ii) where that Certificate is shown on the Organisation CRL as having been revoked, not rely on the Certificate;
- (b) before relying on any OCA Certificate:
 - (i) ~~check~~ **Check Cryptographic Protection in respect the version** of the Organisation ARL on the SMKI Repository, **in accordance with the GB Companion Specification**; and
 - (ii) where that Certificate is shown on the Organisation ARL as having

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

been revoked, not rely on the Certificate;

(c) before relying on any IKI Certificate:

- (i) ~~check~~ **Check Cryptographic Protection in respect the version** of the IKI CRL ~~on the SMKI Repository, in accordance with the GB Companion Specification~~; and
- (ii) where that Certificate is shown on the IKI CRL as having been revoked, not rely on the Certificate; and

(d) before relying on any ICA Certificate:

- (i) ~~check~~ **Check Cryptographic Protection in respect the version** of the IKI ARL ~~on the SMKI Repository, in accordance with the GB Companion Specification~~; and
- (ii) where that Certificate is shown on the IKI ARL as having been revoked, not rely on the Certificate.

L12.4 No Relying Party may rely on an Organisation Certificate or IKI Certificate where the Validity Period of that Certificate has expired.

L12.5 No Relying Party may rely on an Organisation Certificate, OCA Certificate, IKI Certificate or ICA Certificate where it suspects that the Certificate has been Compromised.

L12.6 Each Relying Party shall ~~take reasonable steps~~ **use its reasonable endeavours**, by means of appropriate Systems, to verify Digital Signatures, Check Cryptographic Protection, Confirm Validity and perform other appropriate cryptographic operations before relying on any Organisation Certificate, OCA Certificate, IKI Certificate or ICA Certificate.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L13 DCC KEY INFRASTRUCTURE

The DCCKI Services

The DCCKI Services

L13.1 For the purposes of this Section L13, the “**DCCKI Services**” means all of the activities undertaken by the DCC in its capacity as the DCCKI Certification Authority in accordance with the applicable requirements of the Code.

DCCKI Authorised Subscribers

L13.2 Any Party or RDP may apply to become a DCCKI Authorised Subscriber in accordance with, and by following the relevant procedures set out in, the DCCKI Certificate Policy and the DCCKI RAPP.

L13.3 The DCC shall authorise any Party or RDP to submit a DCCKI Certificate Signing Request, and so to become a DCCKI Authorised Subscriber, where that Party or RDP has successfully completed the relevant procedures and satisfied the criteria set out in the DCCKI Certificate Policy and the DCCKI RAPP.

L13.4 The DCC shall provide any DCCKI Services that may be requested by a DCCKI Authorised Subscriber where the request is made by that DCCKI Authorised Subscriber in accordance with the applicable requirements of the DCCKI SEC Documents.

L13.5 The DCC shall ensure that in the provision of DCCKI Services it acts in accordance with Good Industry Practice.

Registration Data Providers

L13.6 Where a Registration Data Provider (other than an Electricity Network Party or Gas Network Party which is deemed to be an RDP, acting in its capacity as such) has become a DCCKI Authorised Subscriber, the Network Party that nominated that Registration Data Provider shall ensure that the RDP complies with all of its obligations in that capacity under this Section L13.

L13.7 Where a Registration Data Provider has been nominated as such by more than one

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Network Party:

- (a) to the extent to which that RDP can be clearly identified as acting on behalf of one Network Party, that Network Party shall be subject to the requirements of Section L13.6 in respect of the actions of the RDP;
- (b) to the extent to which that RDP cannot be clearly identified as acting on behalf of one Network Party, each of the Network Parties which nominated that RDP shall be subject to the requirements of Section L13.6 in respect of the actions of the RDP.

DCCKI Eligible Subscribers

L13.8 A DCCKI Authorised Subscriber:

- (a) shall be known as a "**DCCKI Eligible Subscriber**" in respect of a DCCKI Certificate if it is entitled to become a DCCKI Subscriber for that DCCKI Certificate; and
- (b) will be entitled to become a DCCKI Subscriber for a DCCKI Certificate only if it is identified as a DCCKI Eligible Subscriber in respect of that DCCKI Certificate in accordance with the provisions of the DCCKI Certificate Policy and the DCCKI RAPP.

DCCKI Subscribers

L13.9 A Party or RDP shall be entitled to become a DCCKI Subscriber in accordance with, and by following the relevant procedures set out in, the DCCKI Certificate Policy and the DCCKI RAPP.

The DCCKI Service Interface

DCC: Obligation to Maintain the DCCKI Service Interface

L13.10 The DCC shall maintain the DCCKI Service Interface in accordance with the DCCKI Interface Design Specification and make it available, to DCCKI Authorised Subscribers, for sending and receiving communications in accordance with the DCCKI Code of Connection.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L13.11 The DCC shall ensure that the DCCKI Service Interface is available at all times (subject to Planned Maintenance undertaken in accordance with Section H8.3):

- (a) from the date on which the DCC is first obliged to provide the DCCKI Services in accordance with this Section L13; and
- (b) prior to that date, on such dates and to such extent as is necessary for the purpose of facilitating Entry Process Testing.

The DCCKI Service Interface

L13.12 For the purposes of this Section L13, the “**DCCKI Service Interface**” means a communications interface designed to allow communications to be sent between a DCCKI Authorised Subscriber and the DCC for the purposes of the DCCKI Services.

DCCKI Interface Design Specification

L13.13 For the purposes of this Section L13, the “**DCCKI Interface Design Specification**” shall be a SEC Subsidiary Document of that name which:

- (a) specifies the technical details of the DCCKI Service Interface;
- (b) includes the protocols and technical standards that apply to the DCCKI Service Interface; and
- (c) bases those technical standards on PKIX/IETF/PKCS open standards, where:
 - (i) PKIX is the Public Key Infrastructure for X.509 Certificates, being an IETF set of standards for certificate and certificate revocation list profiles as specified in IETF RFC 5280;
 - (ii) the IETF is the Internet Engineering Task Force; and
 - (iii) PKCS is the Public Key Cryptography Standard.

DCCKI Code of Connection

L13.14 For the purposes of this Section L13, the “**DCCKI Code of Connection**” shall be a

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

SEC Subsidiary Document of that name which:

- (a) sets out the way in which DCCKI Authorised Subscribers may access the DCCKI Service Interface;
- (b) specifies the procedure by which DCCKI Authorised Subscribers and the DCC may communicate over the DCCKI Service Interface; and
- (c) includes a description of the way in which the mutual authentication and protection of communications taking place over the DCCKI Service Interface will operate.

DCCKI Interface Document Development

L13.15 The DCC shall develop drafts of the DCCKI Interface Design Specification and DCCKI Code of Connection:

- (a) in accordance with the process set out at Section L13.16; and
- (b) so that the drafts are available by no later than the commencement of Systems Integration Testing or 2 March 2015 (whichever is earlier), or such later date as may be specified by the Secretary of State.

L13.16 The process set out in this Section L13.16 for the development of drafts of the DCCKI Interface Design Specification and DCCKI Code of Connection is that:

- (a) the DCC shall, in consultation with the Parties, RDPs and such other persons as it considers appropriate, produce a draft of each document;
- (b) where a disagreement arises with any person who is consulted with regard to any proposal as to the content of either document, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the document;
- (c) the DCC shall send a draft of each document to the Secretary of State as soon as is practicable after it is produced, and shall when doing so provide to the Secretary of State:
 - (i) a statement of the reasons why the DCC considers that draft document

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

to be fit for purpose; and

- (ii) a summary of any disagreements that arose during consultation and that have not been resolved by reaching an agreed proposal; and
- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to either draft document, including in particular:
 - (i) any requirement to produce and submit to the Secretary of State a further draft of either document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.

The DCCKI Repository Service

The DCCKI Repository

L13.17 For the purposes of this Section L13, the “**DCCKI Repository**” means a System for storing and (subject to the provisions of this Section) making available copies of the following:

- (a) all DCCKI Infrastructure Certificates;
- (b) the Root DCCKICA Certificate and the EII DCCKICA Certificate;
- (c) all versions of the DCCKI Certificate Policy;
- (d) the latest version of the DCCKI RAPP;
- (e) the latest version of the EII DCCKICA CRL;
- (f) the latest version of the DCCKI ARL; and
- (g) such other documents or information as the DCC, in its capacity as the provider of the DCCKI Services, may from time to time consider appropriate.

The DCCKI Repository Service

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L13.18 The DCC shall establish, operate, maintain and make available the DCCKI Repository in accordance with the provisions of this Section L13 (the "**DCCKI Repository Service**").

L13.19 The DCC shall ensure that the documents and information described in Section L13.17 may be lodged in the DCCKI Repository by itself for the purpose of providing the DCCKI Services or complying with any other requirements placed on it under the Code.

L13.20 The DCC shall ensure that no person may lodge documents or information in the DCCKI Repository other than in accordance with Section L13.19.

L13.21 The DCC shall ensure that the DCCKI Repository may be accessed for the purpose of viewing and/or obtaining a copy of any document or information stored on it by any Party or RDP which reasonably requires such access in accordance, or for any purpose associated, with the Code.

L13.22 The DCC shall make available a copy of any document stored on the DCCKI Repository to the Panel or the SMKI PMA (or the Code Administrator acting on their behalf) following receipt of a reasonable request to do so.

Parties: Duties in relation to the DCCKI Repository

L13.23 No Party or RDP may access the DCCKI Repository for the purpose of viewing and/or obtaining a copy of any document or information stored on it except to the extent that it reasonably requires such access in accordance, or for any purpose associated, with the Code.

The DCCKI Repository Interface

DCC: Obligation to Maintain the DCCKI Repository Interface

L13.24 The DCC shall maintain the DCCKI Repository Interface in accordance with the DCCKI Repository Interface Design Specification and make it available to the Parties and to RDPs to send and receive communications in accordance with the DCCKI Repository Code of Connection and (where applicable) for the purpose of Entry Process Testing.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L13.25 The DCC shall ensure that the DCCKI Repository Interface is available at all times (subject to Planned Maintenance undertaken in accordance with Section H8.3):

- (a) from the date on which the DCC is first obliged to provide the DCCKI Services in accordance with this Section L13; and
- (b) prior to that date, on such dates and to such extent as is necessary for the purpose of facilitating Entry Process Testing.

The DCCKI Repository Interface

L13.26 For the purposes of this Section L13, the “**DCCKI Repository Interface**” means a communications interface designed to allow communications to be sent from and received by the DCCKI Repository for the purposes of the DCCKI Repository Service.

DCCKI Repository Interface Design Specification

L13.27 For the purposes of this Section L13, the “**DCCKI Repository Interface Design Specification**” shall be a SEC Subsidiary Document of that name which:

- (a) specifies the technical details of the DCCKI Repository Interface; and
- (b) includes the protocols and technical standards that apply to the DCCKI Repository Interface.

DCCKI Repository Code of Connection

L13.28 For the purposes of this Section L13, the “**DCCKI Repository Code of Connection**” shall be a SEC Subsidiary Document of that name which sets out the way in which the Parties and RDPs may access the DCCKI Repository Interface.

DCCKI Repository Interface Document Development

L13.29 The DCC shall develop drafts of the DCCKI Repository Interface Design Specification and DCCKI Repository Code of Connection:

- (a) in accordance with the process set out at Section L13.30; and

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) so that the drafts are available by no later than the commencement of Systems Integration Testing or 2 March 2015 (whichever is earlier), or such later date as may be specified by the Secretary of State.

L13.30 The process set out in this Section L13.30 for the development of drafts of the DCCKI Repository Interface Design Specification and DCCKI Repository Code of Connection is that:

- (a) the DCC shall, in consultation with the Parties, RDPs and such other persons as it considers appropriate, produce a draft of each document;
- (b) where a disagreement arises with any person who is consulted with regard to any proposal as to the content of either document, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the document;
- (c) the DCC shall send a draft of each document to the Secretary of State as soon as is practicable after it is produced, and shall when doing so provide to the Secretary of State:
 - (i) a statement of the reasons why the DCC considers that draft document to be fit for purpose; and
 - (ii) a summary of any disagreements that arose during consultation and that have not been resolved by reaching an agreed proposal; and
- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to either draft document, including in particular:
 - (i) any requirement to produce and submit to the Secretary of State a further draft of either document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.

The DCCKI Document Set

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Obligations on the SMKI PMA

L13.31 The SMKI PMA shall exercise the functions that are allocated to it under and (in so far as they apply to it) comply with the requirements of the DCCKI Document Set.

Obligations on DCCKI Participants

L13.32 Each DCCKI Participant shall (in so far as they apply to it) comply with the requirements of the DCCKI SEC Documents.

The DCCKI Document Set

L13.33 For the purposes of this Section L13, the “**DCCKI Document Set**” means:

- (a) the DCCKI SEC Documents; and
- (b) the DCCKI CPS.

The DCCKI SEC Documents

L13.34 For the purposes of this Section L13, the “**DCCKI SEC Documents**” means the provisions of the Code comprising:

- (a) the following SEC Subsidiary Documents:
 - (i) the DCCKI Certificate Policy;
 - (ii) the DCCKI RAPP;
 - (iii) the DCCKI Interface Design Specification;
 - (iv) the DCCKI Code of Connection;
 - (v) the DCCKI Repository Interface Design Specification;
 - (vi) the DCCKI Repository Code of Connection;
- (b) the provisions of this Section L13; and
- (c) every other provision of the Code which relates to the provision or the use of the DCCKI Services or the DCCKI Repository Service or to any matters

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

directly arising from or affecting the provision or the use of those Services.

The DCCKI Registration Authority Policies and Procedures: Document Development

L13.35 The DCC shall develop a draft of the DCCKI RAPP:

- (a) to make provision for such matters as are specified in the DCCKI Certificate Policy as being matters provided for in the DCCKI RAPP;
- (b) to make provision for such other matters as are necessary or appropriate in relation to the exercise of its functions as the DCCKI Registration Authority;
- (c) in accordance with the process set out at Section L13.36; and
- (d) so that the draft is available by no later than the commencement of Systems Integration Testing or 2 March 2015 (whichever is earlier), or such later date as may be specified by the Secretary of State.

L13.36 The process set out in this Section L13.36 for the development of a draft of the DCCKI RAPP is that:

- (a) the DCC shall, in consultation with the Parties, RDPs and such other persons as it considers appropriate, produce a draft of the DCCKI RAPP;
- (b) where a disagreement arises with any person who is consulted with regard to any proposal as to the content of the DCCKI RAPP, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the DCCKI RAPP specified in Section L13.35;
- (c) the DCC shall send a draft of the DCCKI RAPP to the Secretary of State as soon as is practicable after it is produced, and shall when doing so provide to the Secretary of State:
 - (i) a statement of the reasons why the DCC considers that draft to be fit for purpose; and
 - (ii) a summary of any disagreements that arose during consultation and that have not been resolved by reaching an agreed proposal; and

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to the draft of the DCCKI RAPP, including in particular:
 - (i) any requirement to produce and submit to the Secretary of State a further draft of the document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.

The DCCKI Certification Practice Statement

L13.37 The DCC shall establish, give effect to, maintain and comply with a document which shall be known as the “**DCCKI CPS**”.

L13.38 The DCCKI CPS shall be a document which:

- (a) sets out the policies and procedures of the DCC designed to ensure that it will comply with the requirements of the DCCKI Certificate Policy;
- (b) incorporates the detailed operating procedures to be used by the DCC for the purposes of its compliance with the requirements of that Policy;
- (c) incorporates such other provisions as may be required by or in accordance with that Policy or any other part of the Code;
- (d) is reviewed by the SMKI PMA to assess whether it is appropriate for these purposes; and
- (e) is approved by the individual(s) carrying out the DCCKI PMA Functions as being appropriate for these purposes.

L13.39 For the purposes of the review of the DCCKI CPS by the SMKI PMA in accordance with Section L13.38(d), the DCC shall submit an initial draft of the DCCKI CPS to the SMKI PMA by no later than the commencement of Systems Integration Testing or 2 March 2015 (whichever is earlier), or such later date as may be agreed by the SMKI PMA.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L13.40 The DCC shall keep the DCCKI CPS under review, and shall in particular carry out a review of the DCCKI CPS:

- (a) whenever (and to the extent to which) it may be required to so by the SMKI PMA or the individual(s) carrying out the DCCKI PMA Functions; and
- (b) following receipt of a notification from the SMKI PMA in accordance with Section L1.17(e) (Duties of the SMKI PMA).

L13.41 Following:

- (a) any review of the DCCKI CPS, the DCC may propose amendments to it, which it shall submit to:
 - (i) the SMKI PMA for its review; and
 - (ii) the individual(s) carrying out the DCCKI PMA Functions for his (or their) approval;
- (b) a review carried out in accordance with Section L13.40(b), the DCC shall report to the SMKI PMA any remedial steps taken or proposed to be taken in order for it to continue to meet its obligations under Section G (Security).

Enquiries in relation to the DCCKI Document Set

L13.42 The DCC shall respond within a reasonable time to any reasonable request for information made by a Party or RDP in relation to the DCCKI Services, the DCCKI Repository Service or the DCCKI Document Set, but excluding any request for a copy of any document or information which can be accessed through the DCCKI Repository.

The DCCKI Subscriber Obligations

DCCKI Certificate Signing Requests

L13.43 Each DCCKI Eligible Subscriber shall ensure that all of the information contained in each DCCKI Certificate Signing Request made by it is true and accurate.

L13.44 No DCCKI Eligible Subscriber may make a DCCKI Certificate Signing Request

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

which contains:

- (a) any information that constitutes a trade mark, unless it is the holder of the Intellectual Property Rights in relation to that trade mark; or
- (b) any confidential information which would be contained in a DCCKI Certificate Issued in response to that DCCKI Certificate Signing Request.

Subscribing for or Rejecting DCCKI Certificates

L13.45 Where any DCCKI Certificate is Issued to a DCCKI Eligible Subscriber in response to a DCCKI Certificate Signing Request, that DCCKI Eligible Subscriber shall:

- (a) establish whether the information contained in that DCCKI Certificate is consistent with information that was contained in the DCCKI Certificate Signing Request;
- (b) if it identifies that the DCCKI Certificate contains any information which is untrue or inaccurate immediately inform the DCC that it rejects the DCCKI Certificate and give to the DCC its reasons for doing so;
- (c) in the absence of any such rejection, become a DCCKI Subscriber for that DCCKI Certificate.

Use of DCCKI Certificates

L13.46 Each DCCKI Subscriber shall ensure that it does not use any DCCKI Certificate held by it other than for the purposes of creating, sending, receiving and processing communications sent to and from the DCC pursuant to the Code.

DCCKI Certificates: Protection of Private Keys

L13.47 Each DCCKI Subscriber shall (in addition, if it is the DCC, a User or an RDP, to its obligations under Section G (Security)) take reasonable steps – use its reasonable endeavours to ensure that no Compromise occurs to any:

- (a) Private Key which is associated with a Public Key contained in a DCCKI Certificate for which it is the DCCKI Subscriber; or

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) Secret Key Material associated with that Private Key.

The DCCKI Relying Party Obligations

DCCKI Relying Parties

L13.48 For the purposes of this Section L13, a "**DCCKI Relying Party**" in relation to a DCCKI Certificate or DCCKICA Certificate, means any Party or RDP which relies on the Certificate for the purposes of creating, sending, receiving or processing communications sent to and from the DCC or another Party or RDP pursuant to this Code.

Duties in relation to DCCKI Certificates and DCCKICA Certificates

L13.49 Each DCCKI Relying Party shall:

- (a) before relying on any DCCKI Certificate:

- (i) ~~check~~ **Check Cryptographic Protection in respect** ~~the version~~ of the DCCKI CRL on the DCCKI Repository, in accordance with IETF RFC 5280; and
- (ii) where that DCCKI Certificate is shown on the DCCKI CRL as having been revoked, not rely on the DCCKI Certificate; and

- (b) before relying on any DCCKICA Certificate:

- (i) ~~check~~ **Check Cryptographic Protection in respect** ~~the version~~ of the DCCKI ARL on the DCCKI Repository, in accordance with IETF RFC 5280; and
- (ii) where that DCCKICA Certificate is shown on the DCCKI ARL as having been revoked, not rely on the DCCKICA Certificate.

L13.50 No DCCKI Relying Party may rely on a DCCKI Certificate where the Validity Period of that DCCKI Certificate has expired.

L13.51 No DCCKI Relying Party may rely on a DCCKI Certificate or DCCKICA Certificate where it suspects that the DCCKI Certificate has been Compromised.

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L13.52 Each DCCKI Relying Party shall ~~use its reasonable endeavour~~ **take reasonable steps**, by means of appropriate Systems, to verify Digital Signatures, Check Cryptographic Protection, Confirm Validity and perform other appropriate cryptographic operations before relying on any DCCKI Certificate or DCCKICA Certificate.

The DCCKI PMA Functions

Performance of the DCCKI Functions

L13.53 The DCC shall make arrangements which shall ensure that:

- (a) a senior member of DCC Personnel;
- (b) a senior member of the personnel of a DCC Service Provider; or
- (c) a number of individuals, each of whom falls within either paragraph (a) or (b), acting together,

shall carry out the DCCKI PMA Functions.

The DCCKI PMA Functions

L13.54 For the purpose of this Section L13, the “**DCCKI PMA Functions**” shall mean the activities of:

- (a) approving the DCCKI CPS, and any amendments to it;
- (b) periodically:
 - (i) reviewing the effectiveness of the DCCKI Document Set (including so as to evaluate whether the DCCKI Document Set remains consistent with the SEC Objectives); and
 - (ii) identifying any changes that should be made to the DCCKI Document Set in order to ensure that the DCC meets its obligations under Section G (Security);
- (c) as soon as is reasonably practicable following the incorporation of each of the

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

following documents into this Code, its re-incorporation, or its modification in accordance with section 88 of the Energy Act 2008, carrying out in relation to it the activities specified in paragraph (a) above:

- (i) the DCCKI Certificate Policy;
- (ii) the DCCKI RAPP;
- (d) on receipt by the DCC of a notification from the SMKI PMA in accordance with Section L1.17(e) (Duties of the SMKI PMA), carrying out in relation to the DCCKI Document Set the activities specified in paragraph (a) above, having regard in particular to any recommendation for action made by the SMKI PMA; and
- (e) performing any other duties expressly described as DCCKI PMA Functions elsewhere in this Code.

The Duties of the DCC

L13.55 Where the individual(s) carrying out the DCCKI PMA Functions notifies the DCC of any matter, or makes any recommendation with regard to the compliance by the DCC with its obligations under Section G (Security) (including in particular any recommendation for the modification of the DCCKI Document Set for the purpose of ensuring such compliance), the DCC shall:

- (a) consider and take into account the matter notified, or recommendation made, to it; and
- (b) where, having done so, it considers that it would be appropriate to make a change to the:
 - (i) DCCKI SEC Documents, submit a Modification Proposal for that purpose; and
 - (ii) DCCKI CPS, propose amendments to it in accordance with Section L13.42.

L13.56 The DCC shall ensure that the SMKI PMA and Security Sub-Committee shall each

SEC – Section L: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

be provided with such of the following information as it may request:

- (a) any notification or recommendation made to the DCC by the individual(s) carrying out the DCCKI PMA Functions; and
- (b) copies of all agenda and supporting papers available at any meeting between individuals acting together to carry out the DCCKI PMA Functions, insofar as those agenda and papers are reasonably relevant to the functions of the SMKI PMA or Security Sub-Committee (as the case may be).

L13.57 The DCC shall ensure that, where it receives any report with regard to its ISO 27001 certification and part of that report relates to any matters concerned with the DCCKI Services, it will as soon as reasonably practicable provide those parts of that report to the SMKI PMA.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

SECTION M: GENERAL

M1 COMMENCEMENT AND DURATION

Commencement

M1.1 This Code shall take effect from the effective date designated by the Secretary of State pursuant to Condition 22 of the DCC Licence.

Duration

M1.2 Once this Code comes into effect, it shall remain in effect:

- (a) in respect of the DCC, until the DCC ceases to be a Party in accordance with Section M9 (Transfer of the DCC Licence); and
- (b) in respect of each Party other than the DCC, until (subject to Section M8.14) such Party ceases to be a Party in accordance with Section M8 (Suspension, Expulsion and Withdrawal).

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M2 LIMITATIONS OF LIABILITY

Unlimited Liabilities

M2.1 Nothing in this Code or any Bilateral Agreement shall exclude or limit a Party's Liability:

- (a) for death or personal injury resulting from the negligence of that Party;
- (b) for fraud or fraudulent misrepresentation;
- (c) to pay the Charges and any interest accruing in respect of the Charges in accordance with this Code; or
- (d) for any other type of Liability which cannot by law be excluded or limited.

Exclusion of Indirect Loss

M2.2 No Party shall in any circumstances be liable to another Party for loss arising as a result of a breach of this Code and/or any Bilateral Agreement that does not directly result from such breach and that was not reasonably foreseeable as likely to occur in the ordinary course of events.

Confidentiality and Intellectual Property Rights

M2.3 Each Party's Liability for breaches of Section M4 (Confidentiality) shall be:

- (a) in the case of any breach of Section M4.20 (Confidentiality of DCC Data) relating to Data that has been clearly marked by the DCC as 'confidential', unlimited (save as provided in Section M2.2); and
- (b) in the case of any other breach of Section M4, limited to £1,000,000 (one million pounds) in respect of each incident or series of related incidents, save as provided in Section M2.3A.

M2.3A The Liability of the DCC for a breach of Section M4.1 (Prohibition on disclosure and use by DCC) shall, where the amount of that Liability is recoverable by the DCC from a DCC Service Provider in accordance with the terms of a DCC Service Provider Contract, be:

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) unlimited if the amount of the Liability that is recoverable from the DCC Service Provider is unlimited; or
- (b) limited to any amount in which the Liability that is recoverable from the DCC Service Provider is limited, or to £1,000,000 (one million pounds) in respect of each incident or series of related incidents, whichever is the greater,

but, for the purposes of this Section, no regard shall be had to any limitation in a DCC Service Provider Contract which is expressed to be set by reference to any amount specified in or calculated under this Code.

M2.4 Each Party's Liability for any breach of Section M5 (Intellectual Property Rights) shall be unlimited (save as provided in Section M2.2).

Damage to Physical Property

M2.5 Subject to Section M2.1, each Party's Liability for loss of or damage to physical property (including loss of or damage to Systems, and loss or corruption of Data) arising as a result of a breach by that Party of this Code and/or any Bilateral Agreement shall be limited as follows:

- (a) the Liability of the DCC shall be limited to £1,000,000 (one million pounds) in respect of each incident or series of related incidents; and
- (b) the Liability of each Party other than the DCC shall be limited to £1,000,000 (one million pounds) in respect of each incident or series of related incidents,

for which purposes:

- (c) where a defect in the design, manufacture, materials or workmanship of two (or more) Devices causes loss of or damage to physical property (including loss of or damage to Systems, and loss or corruption of Data), the defect in each such Device shall constitute a separate unrelated incident; and
- (d) where a Party's Liability exceeds £1,000,000 (one million pounds) and is limited under this Section M2.5 and that Liability is in respect of loss or damage suffered by more than one other Party, each such other Party shall be entitled to recover a proportion of the £1,000,000 (one million pounds)

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

calculated by reference to the amount of any loss and damage suffered by it expressed as a fraction of the total amount of loss and damage suffered by such other Parties collectively.

Recovery of Loss which is Expressly Permitted

M2.6 It is expressly agreed that a Party may recover the following losses arising as a result of a breach of this Code (and without intending to limit recovery of any other Liability that may arise as a result of such breach):

- (a) (subject to Sections F9.25 (Exclusive Remedies for Site Visits) and M2.5) where such breach causes the loss of, or damage to, a Smart Metering System (or any part of it), the Import Supplier, Export Supplier and/or Gas Supplier (as applicable) for that Smart Metering System shall be entitled to recover the reasonable costs and expenses (including reasonable labour costs) incurred in attending the relevant premises for the purpose of repairing or replacing that Smart Metering System (or the relevant part of it);
- (b) in the case of breaches of Section F6 (Delivery and Acceptance of Communications Hubs) and/or the CH Handover Support Materials, the DCC shall be entitled to recover the reasonable costs and expenses referred to in Section F6.18 (Failure to Accept Delivery);
- (c) where such breach causes an Organisation Certificate to be Compromised or issued otherwise than in accordance with the relevant Certificate Policy (and, in either case, the Subscriber wishes it to be replaced), the reasonable costs and expenses (including reasonable labour costs) incurred in replacing any or all such Compromised Certificates held on Devices (but not the costs and expenses of replacing Device Certificates), limited to £1,000,000 (one million pounds) in respect of each incident or series of related incidents; and
- (d) where such breach (including a breach which is deemed to occur in accordance with Section L10.26 (Breach of the Code by the Relevant Subscriber)) gives rise to a Recovery Event such that the DCC incurs (or is required to make payments in respect of) Recovery Costs under Section L10 (the SMKI Recovery Procedure), the DCC shall be entitled to recover the Recovery Costs

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

that it has incurred (or been required so to pay), limited to £1,000,000 (one million pounds) in respect of each Recovery Event.

Exclusion of Loss of Profit etc.

M2.7 Subject to Sections M2.1 and M2.6 and save in the case of a breach referred to in Section M2.3(b) or M2.4, no Party shall in any circumstances be liable to another Party for any of the following losses arising as a result of a breach of this Code and/or any Bilateral Agreement:

- (a) loss of profit;
- (b) loss of revenue;
- (c) loss of use;
- (d) loss of contract;
- (e) loss of goodwill; or
- (f) loss resulting from the liability of such other Party to a third party for any of the matters referred to in paragraphs (a) to (e) above.

Exclusion of Other Liabilities

M2.8 Subject to Sections M2.1 and M2.6 and save in the case of a breach of those provisions referred to in Section M2.3 or M2.4, no Party shall be liable to any other Party for loss arising from any breach of this Code and/or any Bilateral Agreement other than for losses that are subject to Section M2.5. This Section M2.8 is without prejudice to the operation of the Charging Methodology, and the payments required under Section F9.22 (Payment of Type Fault and Batch Fault Compensation) or F9.23 (Compensation for Product Recall or Technology Refresh).

M2.9 The rights and remedies provided by this Code and/or any Bilateral Agreement are exclusive and not cumulative, and exclude and are in place of all substantive (but not procedural) rights or remedies provided by common law or statute in respect of the subject matter of this Code and/or any Bilateral Agreement, including any rights that any Party may possess in tort (or delict).

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M2.10 Subject to Section M2.1, each of the Parties hereby waives to the fullest extent possible all such rights and remedies provided by common law or statute (and releases the other Parties to the same extent from all Liabilities or obligations provided by common law or statute in respect of the subject matter of this Code and/or any Bilateral Agreement).

Statutory Rights

M2.11 For the avoidance of doubt, nothing in this Section M2 shall exclude or restrict or otherwise prejudice or affect any of:

- (a) the rights, powers, duties and obligations of any Party which are conferred or created by the Relevant Instruments; or
- (b) the rights, powers and duties of the Authority or the Secretary of State.

Other Matters

M2.12 Each of the sub-clauses of this Section M2 shall be construed as a separate and severable contract term, and if one or more of such sub-clauses is held to be invalid, unlawful or otherwise unenforceable, then the other or others of such sub-clauses shall remain in full force and effect and shall continue to bind the Parties.

M2.13 In respect of all substantive (but not procedural) rights or remedies provided by common law or statute (including in tort or delict, but without prejudice to contractual rights or remedies) in respect of loss of or damage to physical property (including loss of or damage to Systems, and loss or corruption of Data) arising in relation to the subject matter of this Code and/or any Bilateral Agreement, it is agreed that:

- (a) each Party hereby waives and releases (to the fullest extent possible at law) such rights and remedies in respect of such loss or damage as such Party may otherwise have against the contractors, employees and agents of each other Party (including the DCC Service Providers) in their capacity as such;
- (b) the DCC shall ensure that each DCC Service Provider (when acting in its capacity as such) waives and releases (to the fullest extent possible at law) such rights and remedies in respect of such loss or damage as such DCC Service Provider may otherwise have against the Parties other than DCC in their

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

capacity as such (and/or against the contractors, employees and agents of such Parties in their capacity as such);

- (c) the waiver and release referred to in Section M2.13(a) is to be enforceable by the persons stated therein to have the benefit thereof in accordance with Section M11.5 (Third Party Rights); and
- (d) the DCC shall ensure that the waiver and release referred to in Section M2.13(b) is enforceable by the persons stated therein to have the benefit thereof under the Contracts (Rights of Third Parties) Act 1999.

M2.14 Each Party shall be under a duty to mitigate its loss.

M2.15 Each Party hereby acknowledges and agrees that the provisions of this Section M2 are fair and reasonable having regard to the circumstances.

Conduct of Indemnity Claims

M2.16 Where this Code provides that one Party (the “**Indemnifier**”) is to indemnify another Party (the “**Indemnified Party**”) against third party claims, the Indemnified Party shall:

- (a) promptly notify the Indemnifier of any such claim, and provide it with details in relation to the same and all relevant documentation excluding that which attracts legal privilege;
- (b) consult with the Indemnifier with respect to the subject matter of the claim and the manner in which the Indemnified Party intends to deal with the same, keep the Indemnifier promptly advised of developments concerning the same, and have due regard to the Indemnifier’s views in relation to the same;
- (c) not settle, compromise or make any admission of liability concerning any such claim, without the prior written consent of the Indemnifier (such consent not to be unreasonably withheld or delayed); and
- (d) where the Indemnifier so requests, allow the Indemnifier (or such person as the Indemnifier may nominate) to conduct all negotiations and proceedings regarding the claim (at the Indemnifier’s cost), in which case the Indemnifier

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

shall ensure that the claim is diligently defended in accordance with any reasonable instructions of the Indemnified Party and not settled or compromised without the Indemnified Party's consent (such consent not to be unreasonably withheld or delayed).

SECCo

M2.17 The provisions of this Section M2 (and the definitions used in this Section) shall apply to SECCo as if SECCo was a Party, but shall not limit SECCo's liability under Section C3.12 (Protections for Panel Members and Others).

M2.18 Nothing in this Section M2 shall limit the DCC's liability to reimburse SECCo in respect of Recoverable Costs.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M3 SERVICES FM AND FORCE MAJEURE

Force Majeure affecting the Services - Services FM

M3.1 The concept of Services FM applies in respect of the obligations of the DCC to provide the Services pursuant to this Code (including pursuant to any Bilateral Agreement).

M3.2 The DCC may claim relief from Liability for non-performance of its obligations in respect of the Services to the extent this is due to Services FM. To the extent that performance of the DCC's obligations is unaffected by the Services FM, the provisions of this Code and any Bilateral Agreement will continue to apply.

M3.3 The DCC cannot claim Services FM has occurred:

(a) in relation to any wilful act, neglect or failure to take reasonable precautions against the relevant Services FM event by the DCC or its servants, agents, employees or contractors (including the DCC Service Providers);

(b) in relation to any circumstances resulting from a failure or delay by any other person in the performance of that other person's obligations under a contract with the DCC (unless that other person is itself prevented from or delayed in complying with its obligations as a result of Services FM); and/or

(c) as a result of any shortage of labour, material or other resources unless caused by circumstances which are themselves Services FM,

and in any event, the DCC shall not be entitled to relief if and to the extent that it is required to comply with the BCDR Procedure in accordance with Sections H10.9 and H10.10 (the Business Continuity and Disaster Recovery Procedure) but has failed to do so (unless this failure is also due to Services FM affecting the operation of the BCDR Procedure).

M3.4 The DCC shall, as soon as reasonably practicable (and in any event within five (5) days of the occurrence of the Services FM), give to the Users that were due to receive the affected Services and to the Panel full details of the Services FM and any relief the DCC wishes to claim in connection with the Services FM.

M3.5 The DCC shall be entitled to relief in respect of Services FM to the extent that the

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Panel agrees (or it is subsequently determined by arbitration) that the requirements of Sections M3.2 and M3.3 are met, and that:

- (a) the DCC could not have avoided the occurrence of the Services FM (or its consequences or likely consequences) by taking steps which the DCC was required to take (or procure) under this Code and any Bilateral Agreement or might reasonably be expected to have taken;
- (b) the Services FM directly caused the non-performance of the Services for which relief is claimed;
- (c) the time lost and/or relief from the obligations under this Code and any Bilateral Agreement claimed by the DCC could not reasonably be expected to be mitigated or recovered by the DCC acting in accordance with Good Industry Practice; and
- (d) the DCC is taking all steps in accordance with Good Industry Practice to overcome or minimise the consequences of the Services FM on the performance of the Services.

M3.6 If the DCC is entitled to relief in respect of Services FM in accordance with Section M3.5, then:

- (a) the DCC shall be relieved of Liability under this Code and any Bilateral Agreement in respect of the Services to the extent to which that Liability would otherwise have arisen solely as a result of the Services FM; and
- (b) for the avoidance of doubt, the Charges (but not, for the avoidance of doubt, the Fixed Charges) payable by a User shall be reduced to the extent that the DCC does not provide the Services to that User as a result of the Services FM (and shall be calculated on the basis of the Services that are actually provided).

M3.7 The DCC shall notify the affected Users and the Panel as soon as reasonably practicable after the Services FM ceases or no longer causes the DCC to be unable to comply with its obligations under this Code and/or any Bilateral Agreement in respect of the Services. Following such notification, the Services shall continue to be performed in accordance with the terms and conditions existing immediately before

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the occurrence of the Services FM.

M3.8 The DCC hereby irrevocably and unconditionally waives all and any rights to claim any extension or allowance of time or other relief from performance of its obligations in respect of the Services other than to the extent caused by Services FM. Each User hereby irrevocably and unconditionally waives all and any rights to claim compensation (including for breach of contract or in tort) for failure by the DCC to provide the Services to the extent caused by Services FM.

Force Majeure

M3.9 The concept of Force Majeure applies in respect of:

- (a) all obligations of the DCC pursuant to this Code and any Bilateral Agreement other than the obligations of the DCC to provide the Services; and
- (b) all obligations of the other Parties pursuant to this Code and any Bilateral Agreement,

all such obligations together being in this Section M3 the “**Relevant Obligations**”.

M3.10 Subject to Section M3.11, the Affected Party will not be in breach of this Code and/or any Bilateral Agreement or otherwise liable for any failure or delay in performance of any Relevant Obligations to the extent such failure or delay is caused by Force Majeure.

M3.11 An Affected Party may only rely upon Section M3.10 in respect of a failure or delay in performance of any Relevant Obligations to the extent that the Affected Party and the Party or Parties to whom the Affected Party owes the Relevant Obligations agree (or it is determined by arbitration) that the Affected Party:

- (a) notified the Party or Parties to whom the Affected Party owes those Relevant Obligations of the matters constituting Force Majeure as soon as reasonably practicable following their occurrence;
- (b) kept such Party or Parties fully informed as to the matters relating to the Force Majeure; and

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) took all reasonable steps in accordance with Good Industry Practice to overcome the Force Majeure and/or minimise the consequences of the Force Majeure on the performance of the Relevant Obligations.

M3.12 The Affected Party shall notify the Party or Parties to whom the Affected Party owes the Relevant Obligations as soon as reasonably practicable after the Force Majeure ceases or no longer causes the Affected Party to be unable to comply with the Relevant Obligations.

M3.13 Each Party hereby irrevocably and unconditionally waives all and any rights to claim any extension or allowance of time or other relief from performance of the Relevant Obligations other than to the extent caused by Force Majeure. Each Party hereby irrevocably and unconditionally waives all and any rights to claim compensation (including for breach of contract or in tort) for, or to seek to expel the Affected Party from this Code for, any failure by the Affected Party to comply with the Relevant Obligations to the extent caused by Force Majeure.

SECCo

M3.14 The provisions of this Section M3 (and the definitions used in this Section) shall apply to SECCo as if SECCo was a Party.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M4 CONFIDENTIALITY

Prohibition on disclosure and use by DCC

M4.1 Subject to Sections M4.3 and M4.4, the DCC shall not disclose another Party's Confidential Information to, or authorise access to another Party's Confidential Information by, any person.

M4.2 Subject to Section M4.3, the DCC shall not use a Party's Confidential Information for any purpose other than the purpose for which it was provided (or otherwise made available) to the DCC, and in any event for any purpose other than the purposes of this Code.

Circumstances in which disclosure or use by the DCC are permitted

M4.3 The restrictions on disclosure and authorisation of access in Section M4.1 and on use in Section M4.2 shall not apply to the disclosure or use of, or authorisation of access to, a Party's Confidential Information to the extent:

- (a) expressly permitted or required by the DCC Licence;
- (b) necessary for the exercise by the DCC of any of its obligations under the Electricity Act, the Gas Act, the DCC Licence, or this Code;
- (c) made or given in accordance with the Authority's prior written consent;
- (d) such Confidential Information is already available in the public domain other than as a result of a breach by the DCC of this Section M4 and/or the DCC Licence; or
- (e) such Confidential Information is already lawfully in the possession of the DCC otherwise than as a result (whether directly or indirectly) of a breach of this Code and/or the DCC Licence (but without prejudice to any obligations to which the DCC is subject in respect of the use or disclosure of such Confidential Information under the arrangements relating to such lawful possession).

M4.4 The restrictions on disclosure and authorisation of access in Section M4.1 shall not

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

apply to the disclosure of, or authorisation of access to, a Party's Confidential Information to the extent:

- (a) made or given in order to comply with the DCC's duties under Laws and Directives or the rules of any recognised stock exchange; provided that, in so far as is reasonably practicable in accordance with such Laws and Directives or rules, the DCC shall provide that Party with prior notice of such proposed disclosure or authorisation of access; or
- (b) made or given to the employees, other agents, contractors or advisers of the DCC to the extent such persons require such Confidential Information for the purpose of performing their roles as such; provided that such persons are subject to restrictions on the disclosure or use of, or authorisation of access to, such Confidential Information equivalent to those under this Section M4, and provided that the DCC shall be liable for any disclosure, authorisation or use by such persons otherwise than in accordance with this Section M4. This Section M4.4(b) is without prejudice to Section M4.5.

Restriction of disclosure to DCC employees who are leaving

M4.5 The DCC shall not (having regard to the nature and effective life of the Confidential Information in question) continue to disclose Confidential Information to (or authorise access to Confidential Information by) an employee or other agent of the DCC who has notified DCC of his or her intention to become engaged as an employee or agent of:

- (a) any other Party; or
- (b) a broker or consultant who is known to provide services in relation to the Supply of Energy and/or Commercial Activities,

save where the DCC could not, in all the circumstances, reasonably be expected to refrain from divulging to such employee or other agent Confidential Information which is required for the proper performance of his or her duties.

DCC Practices, Systems and Procedures

M4.6 The DCC shall put in place and at all times maintain managerial and operational

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

practices, systems, and procedures designed to ensure that it complies with this Section M4.

Provision of Information to the Panel

M4.7 Each Party agrees, subject to any confidentiality provision binding on it, to provide to the Panel (or its Sub-Committees and/or Working Groups, including via the Code Administrator, the Secretariat or SECCo) all Data reasonably requested by the Panel (or its Sub-Committees and/or Working Groups, including via the Code Administrator, the Secretariat or SECCo) in order that they may properly carry out their duties and functions under this Code.

Confidentiality and the Panel

M4.8 Where a Party wishes its Party Data to remain confidential, it shall:

- (a) in the case of the DCC (in so far as it acts in accordance with Sections M4.22 to M4.24) clearly mark such Party Data as either 'confidential' or 'controlled' ; and
- (b) in the case of any other Party, clearly mark such Party Data as 'confidential'.

M4.9 Where a Party does not clearly mark its Party Data as 'confidential', or (in the case of the DCC only) 'controlled', the Panel (or its Sub-Committees or Working Groups, the Code Administrator, the Secretariat or SECCo, as applicable) may treat such Party Data as not being confidential (and shall have no confidentiality obligation in respect of the same).

M4.10 Subject to Section M4.11, the Panel shall not (and shall also ensure that its Sub-Committees and Working Groups, the Code Administrator, the Secretariat and SECCo shall not) disclose, or authorise access to, any Party Data provided (or otherwise made available) to them by a Party where that Party has clearly marked such Party Data as 'confidential', or (in the case of the DCC only) 'controlled', in accordance with Section M4.8.

M4.11 The restrictions in Section M4.10 on disclosures of, or authorisation of access to, Party Data shall not apply to the extent:

- (a) made or given in accordance with duties under Laws and Directives or

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

instructions of the Authority;

- (b) such Party Data is already available in the public domain other than as a result of a breach by the Panel (or its Sub-Committees or Working Groups, the Code Administrator, the Secretariat or SECCo); or
- (c) such Party Data is already lawfully in the possession of the Panel (or its Sub-Committees or Working Groups, the Code Administrator, the Secretariat or SECCo) otherwise than as a result (whether directly or indirectly) of this Code and/or the DCC Licence (but without prejudice to any obligations in respect of the use or disclosure of such Party Data under the arrangements relating to such lawful possession).

M4.12 The Parties acknowledge that, in order for the Panel (and its Sub-Committees and Working Groups, the Code Administrator, the Secretariat and SECCo) to properly carry out their duties and functions under this Code, the Panel may decide (or be obliged) to keep Data as confidential, and not disclose that Data to the Parties. The Panel shall ~~use its reasonable endeavours~~take reasonable steps to keep such instances to a minimum.

Panel Information Policy

M4.13 The Panel shall establish and maintain a policy for classifying, labelling, handling and storing Party Data received by it (and its Sub-Committees and Working Groups, the Code Administrator, the Secretariat and SECCo) pursuant to the provisions of Section G (Security), Section I (Data Privacy), and Section L (Smart Metering Key Infrastructure) and its related SEC Subsidiary Documents.

M4.14 The Panel (and its Sub-Committees and Working Groups, the Code Administrator, the Secretariat and SECCo) shall act in accordance with the policy established and maintained in accordance with Section M4.13.

Confidentiality of DCC Data

M4.15 Where Data belonging to the DCC, or relating to the DCC or the Services, is disclosed (or otherwise becomes available) to another Party under or in relation to this Code, and where the DCC wishes such Data to remain confidential, the DCC shall (in so far as it

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

acts in accordance with Sections M4.22 to M4.24) clearly mark such Data as either 'confidential' or 'controlled', and where the DCC does not do so the other Parties may treat such Data as not being confidential (and shall have no confidentiality obligation in respect of the same).

M4.16 Where a Party wishes to dispute whether or not Data which the DCC has marked as 'controlled' may be given that designation in accordance with Section M4.23, that Party may refer the matter to arbitration in accordance with Section M7 (Dispute Resolution).

M4.17 Where a Party wishes to be able to receive from the DCC Data which the DCC marks as 'confidential', that Party shall:

- (a) provide to the DCC a list containing the names and contact details of one or more individuals who are authorised by it to receive such Data; and
- (b) where it wishes to change the names and/or contact details of the individuals on the list, provide an updated version of the list to the DCC a reasonable time in advance of the update taking effect.

M4.18 Where a Party has provided to the DCC in accordance with Section M4.17 the names and contact details of one or more individuals who are authorised by it to receive Data marked by the DCC as 'confidential', the DCC shall not disclose such Data to that Party except by sending it or making it available to all of those named individuals.

M4.19 Where a Party has not provided to the DCC the names and contact details of one or more individuals who are authorised by it to receive Data marked by the DCC as 'confidential':

- (a) the DCC shall be under no obligation to, and shall not, disclose any such Data to that Party; and
- (b) paragraph (a) shall be deemed to take precedence over any contrary provision of this Code, and any such provision shall be read as if it incorporated no requirement to disclose any Data marked by the DCC as 'confidential'.

M4.20 Each Party other than the DCC shall not disclose, or authorise access to, Data that is

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

clearly marked by the DCC as either 'confidential' or 'controlled', in accordance with Section M4.15, provided that such restrictions on disclosure and access shall not apply to the extent that:

- (a) the disclosure is made or given in accordance with duties under Laws and Directives or instructions of the Authority;
- (b) such Data is already available in the public domain other than as a result of a breach of this Code by a Party;
- (c) such Data is already lawfully in the possession of the Party otherwise than as a result (whether directly or indirectly) of this Code and/or the DCC Licence (but without prejudice to any obligations in respect of the use or disclosure of such Data under the arrangements relating to such lawful possession); or
- (d) such Data is clearly marked by the DCC as 'confidential', but the DCC has disclosed it to the Party by sending or making it available to an individual not named in a list provided by the Party under Section M4.17, or by using contact details different to those specified in that list, and:
 - (i) the disclosure or access occurs as a direct consequence of that breach by the DCC of Section M4.18; and
 - (ii) if the Party was made or otherwise became aware of that breach by the DCC, it had taken all reasonable steps to avoid the disclosure or access.

Use of DCC Data

M4.21 The Parties other than the DCC may only use the Data belonging to the DCC, or relating to the DCC or the Services, which is disclosed (or otherwise becomes available) to them under or in relation to this Code for the purpose of performing their obligations or exercising their rights under this Code (or for any other use that is expressly authorised by the DCC in writing).

DCC Classification of Data

M4.22 For the purposes of Sections M4.8 and M4.15, the DCC may only mark Data as 'confidential' where:

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) that Data relates to a DCC Service Provider providing services pursuant to a DCC Service Provider Contract which was referred to in paragraph 1.5 of schedule 1 to the DCC Licence on its grant;
- (b) the DCC is subject to an existing obligation under the DCC Service Provider Contract referred to in paragraph (a) to ensure that that Data remains confidential;
- (c) the DCC's Liability for breaching the obligation referred to in paragraph (b) is unlimited; and
- (d) the DCC is not prohibited from marking that Data as 'confidential' under Section M4.24.

M4.23 For the purposes of Sections M4.8 and M4.15, the DCC may only mark Data as 'controlled' where:

- (a) the uncontrolled disclosure of, or uncontrolled authorised access to, that Data could reasonably be considered to be prejudicial to the DCC (or any DCC Service Provider); and
- (b) the DCC is not prohibited from marking that Data as 'controlled' under Section M4.24.

M4.24 The DCC shall not mark Data as either 'confidential' or 'controlled' where or to the extent that:

- (a) the DCC is expressly required to place that Data in the public domain in order to comply with its duties under Laws and Directives;
- (b) it is necessary for the exercise by the DCC of any of its obligations under the Electricity Act, the Gas Act, the DCC Licence, or this Code to place that Data in the public domain; or
- (c) that Data is already in the public domain other than as a result of a breach by the Parties or the Panel of this Section M4 and/or the DCC Licence.

Onward Supply of Supplier Party Data

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M4.25 Where the DCC is obliged under a condition of the DCC Licence to disclose to a third party for a specified purpose information relating to a Supplier Party, that Supplier Party shall, where requested to do so, consent to the further disclosure of that information by that third party to the extent such further disclosure is necessary to fulfil that specified purpose.

Injunctive Relief

M4.26 The Parties agree that damages may not be an adequate remedy in the event of breach of this Section M4, and that a Party may seek injunctive relief in respect of any breach or potential breach of this Section M4.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M5 INTELLECTUAL PROPERTY RIGHTS

SEC Materials

- M5.1 Section M5.2 applies in respect of this Code and any and all documents, materials, reports, charts and tables, diagrams and specifications, and any and all other works, inventions, ideas, designs or proposals (in whatever form, and including Modification Proposals) arising out of or in connection with the central administration, operation and development of this Code, including any and all associated drafts and working papers (collectively, the “**SEC Materials**”); provided that the SEC Materials shall not include the Consumer Data or the Services IPR.
- M5.2 The Parties agree that, as between the Parties, any and all Intellectual Property Rights subsisting in the SEC Materials and the whole of the title to the SEC Materials will:
- (a) be owned by SECCo; and
 - (b) automatically and immediately vest in SECCo upon their creation or acquisition.
- M5.3 Where a Party other than SECCo acquires (by operation of Laws and Directives or otherwise) any Intellectual Property Rights in the SEC Materials, then that Party:
- (a) (as far as is permitted by law) hereby assigns such Intellectual Property Rights to SECCo with full title guarantee, by way of present assignment of future Intellectual Property Rights; and
 - (b) (to the extent such assignment is not permitted) shall (and shall procure that any of its employees, agents or contractors shall) do all acts and things and execute all documents that may be reasonably necessary to transfer such Intellectual Property Rights to SECCo with full title guarantee (and pending such assignment shall hold such rights on trust for SECCo).
- M5.4 SECCo hereby grants to each of the other Parties (for so long as they remain a Party) a royalty-free, non-exclusive, non-transferable licence to use the SEC Materials for the sole purpose of participating as a Party (including exercising its rights and performing its obligations as a Party). Each licence granted to a Party under this Section M5.4

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

includes the right of that Party to grant sub-licences to its agents, contractors and advisers provided that they are granted solely in respect of that Party's participation as a Party (and the SEC Materials are used for no other purpose).

M5.5 SECCo hereby grants to each of the Panel Members, any Sub-Committee or Working Group members, the Code Administrator and the Secretariat (for so long as they each remain such) a royalty-free, non-exclusive, non-transferable licence to use the SEC Materials for the sole purpose of performing their roles as such. Each licence granted to a person under this Section M5.5 includes the right of that person to grant sub-licences to its agents, contractors and advisers provided that they are granted solely in respect of that person's performance of the role for which the licence was granted (and the SEC Materials are used for no other purpose).

Consumer Data

M5.6 Section M5.7 applies in respect of the Data that is obtained by the DCC (or its employees, other agents or contractors) as a result of providing Services to that User, including the Data contained in requests for Services and that is obtained as a result of communicating with Smart Metering Systems pursuant to this Code on behalf of a User (such Data being the "**Consumer Data**" of that User).

M5.7 As between the DCC and each User, any and all Intellectual Property Rights subsisting in the Consumer Data of that User shall be owned by that User (and the DCC shall make no claims in respect of such Intellectual Property Rights).

M5.8 Each User, in respect of its Consumer Data, hereby grants to the DCC a royalty-free, non-exclusive, non-transferable licence to use that Consumer Data for the sole purpose of DCC exercising its rights and performing its obligations under the Electricity Act, the Gas Act, the DCC Licence and this Code. Each licence granted to the DCC under this Section M5.8 includes the right of the DCC to grant sub-licences to its agents, contractors and advisers provided that they are granted solely in respect of the DCC's rights and obligations under the Electricity Act, the Gas Act, the DCC Licence and this Code (and the Consumer Data is used for no other purpose).

M5.9 Each User, in respect of its Consumer Data, shall ensure that the DCC (and its agents, contractors and advisers) can use that Consumer Data in the manner envisaged by

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Section M5.8, and shall indemnify the DCC in respect of any Liabilities suffered or incurred by the DCC (or its agents, contractors or advisers) as a result of claims brought by persons alleging that the use of that Consumer Data in the manner envisaged by Section M5.8 has infringed any Intellectual Property Rights.

Party Data

M5.10 Section M5.11 applies in respect of the Data (other than SEC Materials and Consumer Data) that is provided (or otherwise made available) pursuant to this Code to the Panel (or its Sub-Committees and/or Working Groups, including via the Code Administrator, the Secretariat or SECCo) by or on behalf of a Party (such Data being the “**Party Data**” of that Party).

M5.11 As between the Panel (including its Sub-Committees and/or Working Groups, the Code Administrator, the Secretariat and SECCo) and each Party, any and all Intellectual Property Rights subsisting in the Party Data of that Party shall be owned by that Party (and none of the Panel, its Sub-Committees, its Working Groups, the Code Administrator, the Secretariat or SECCo shall make any claims in respect of such Intellectual Property Rights).

M5.12 Without prejudice to Section M4.10 (Confidentiality and the Panel), each Party, in respect of its Party Data, hereby grants to SECCo, the Panel Members, any Sub-Committee or Working Group members, the Code Administrator and the Secretariat a royalty-free, non-exclusive, non-transferable licence to use that Party Data for the sole purpose of performing their roles as such. Each licence granted to a person under this Section M5.12 includes the right of that person to grant sub-licences to its agents, contractors and advisers provided that they are granted solely in respect of that person’s performance of the role for which the licence was granted (and the Party Data is used for no other purpose).

M5.13 Without prejudice to Section M4.10, each Party, in respect of its Party Data, shall ensure that SECCo, the Panel Members, any Sub-Committee or Working Group members, the Code Administrator and the Secretariat (and their agents, contractors and advisers) can use that Party Data in the manner envisaged by Section M5.12, and shall indemnify the SECCo, the Panel Members, any Sub-Committee or Working Group members, the Code Administrator and the Secretariat in respect of any

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Liabilities suffered or incurred by them (or their agents, contractors or advisers) as a result of claims brought by persons alleging that the use of that Party Data in the manner envisaged by Section M5.12 has infringed any Intellectual Property Rights.

Services IPR

M5.14 Section M5.15 applies in respect of the Intellectual Property Rights created by, arising from or that are associated with:

- (a) the activities undertaken by the DCC for the purposes of carrying on its Authorised Business (as defined in the DCC Licence) in accordance with the DCC Licence; or
- (b) the operation of a DCC Service Provider Contract in accordance with its provisions,

such Intellectual Property Rights being the “**Services IPR**”.

M5.15 As between the DCC and each User, the Services IPR shall be owned by the DCC (and no User shall make any claims in respect of the Services IPR).

M5.16 The DCC hereby grants to each User a royalty-free, non-exclusive, non-transferable licence to use the Services IPR for the sole purpose of receiving (and to the extent necessary to receive) the Services. Each licence granted by the DCC under this Section M5.16 includes the right of the User to grant sub-licences to its agents, and contractors provided that they are granted solely for the purpose of the User receiving (and to the extent necessary for the User to receive) the Services (and that the Services IPR is used for no other purpose).

M5.17 The DCC shall ensure that each User (and its agents and contractors) can use the Services IPR in the manner envisaged by Section M5.16, and shall indemnify each User in respect of any Liabilities suffered or incurred by that User (or its agents or contractors) as a result of claims brought by persons alleging that the use of that Services IPR in the manner envisaged by Section M5.16 has infringed any Intellectual Property Rights.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

General

M5.18 For the avoidance of doubt, the use by a Party of Intellectual Property Rights licensed to it under this Section M5 otherwise than in accordance with such licence shall constitute a breach of this Code.

M5.19 The Parties agree that damages may not be an adequate remedy in the event of breach of this Section M5, and that a Party may seek injunctive relief in respect of any breach or potential breach of this Section M5.

SECCo

M5.20 The provisions of this Section M5 (and the definitions used in this Section) shall apply to SECCo as if SECCo was a Party.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M6 PARTY DETAILS

Provision of the Party Details

M6.1 Each Party's original Party Details shall be provided as part of its Framework Agreement counterpart or its Accession Agreement (as applicable).

Amendments to Party Details

M6.2 Each Party may amend its Party Details by notice to the Secretariat from time to time, and each Party shall ensure that its Party Details remain up-to-date.

Publication

M6.3 The Secretariat shall maintain a record of each Party's Party Details, and shall publish that record on the Website (other than those elements of the Party Details that are identified in Schedule 5 as being confidential).

M6.4 As soon as reasonably practicable after each person becomes a Party, or following notification of an amendment to a Party's Party Details in accordance with Section M6.2, the Secretariat shall update the record referred to in Section M6.3.

M6.5 The Secretariat shall ~~use its reasonable endeavours~~ **take reasonable steps** to identify any errors or omissions in each Party's Party Details, and shall notify the relevant Party of any such errors or omissions.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M7 DISPUTE RESOLUTION

Duty to Seek to Resolve

M7.1 Where a Dispute arises between two or more Parties, each such Party shall seek to resolve the Dispute amicably within a reasonable timescale through negotiation in good faith.

Reference to the Authority

M7.2 Any Dispute of a nature that is expressly stated in this Code or in the Electricity Act or the Gas Act or in the Energy Licences to be subject to determination by the Authority shall be subject to determination by the Authority (which shall be final and binding for the purposes of this Code). For the purposes of Condition 20.3(c) of the DCC Licence, disputes of the nature referred to in Condition 20 of the DCC Licence in respect of the following Other Enabling Services shall be subject to determination by the Authority pursuant to that condition:

- (a) requests by TCH Participants for Test Communications Hubs pursuant to Section F10 Test Communications Hubs);
- (b) requests by Parties for Detailed Evaluations pursuant to Section H7.7 (Detailed Evaluations of Elective Communication Services);
- (c) requests by Parties for the provision of further assistance in respect of the Parse and Correlate Software pursuant to Section H11.12 (Provision of Support and Assistance to Users);
- (d) requests by Testing Participants for the provision of a connection to a simulation of the SM WAN for the purposes of testing pursuant to Section H14.31 (Device and User System Tests);
- (e) requests by Testing Participants for the provision of additional testing support pursuant to Section H14.33 (Device and User System Tests); and
- (f) requests by Parties for DCC Gateway Connections pursuant to Section H15 (DCC Gateway Connections).

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Reference to the Panel or its Sub-Committees

M7.3 Any Dispute of a nature that is expressly stated in this Code or a Bilateral Agreement to be subject to determination by the Panel (or one of its Sub-Committees) shall be subject to determination by the Panel (or that Sub-Committee). The Panel shall ensure that any such Dispute is determined within a reasonable period of time after its referral to the Panel (or its Sub-Committee).

M7.4 Unless such determination by the Panel (or one of its Sub-Committees) is expressly stated in this Code or a Bilateral Agreement to be final and binding, such disputes shall (following the Panel's or Sub-Committee's determination) be subject to final determination by the Authority (where this is expressly stated to be the case) or as referred to in Section M7.5.

Arbitration

M7.5 Subject to Sections M7.2, M7.3 and M7.4, any Dispute shall be subject to determination by arbitration in accordance with Section M7.6 (subject to Section M7.13).

M7.6 Where this Section M7.6 applies:

- (a) the Party seeking to initiate the arbitration shall give a written notice to the other Party or Parties involved in the Dispute, stating that the matter is to be referred to arbitration and setting out a brief summary of the Dispute;
- (b) the Party seeking to initiate the arbitration shall send a copy of that notice to the Panel;
- (c) to the extent consistent with this Section M7.6, the arbitration shall be subject to the Arbitration Act 1996 and the rules of the London Court of International Arbitration (the **LCIA**);
- (d) the arbitrator shall be a person appointed by agreement between the Parties involved in the Dispute, or (in the absence of agreement within 10 Working Days following the notice under Section M7.6(a)) appointed by the LCIA;
- (e) (unless otherwise agreed by the Parties involved in the Dispute) the arbitration

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

proceedings shall take place in London and in the English language;

- (f) the Parties involved in the Dispute agree to keep the arbitration process (and the decision or anything said, done or produced in or in relation to the arbitration process) confidential, except as may be required by Laws and Directives and provided that representatives of the Panel may attend the arbitration and receive a copy of the decision;
- (g) the Panel shall treat the decision and all other information relating to the arbitration as confidential, and Section M4.10 (Confidentiality and the Panel) shall apply to the decision and such information;
- (h) the arbitrator shall have the power to make provisional awards as provided for in Section 39 of the Arbitration Act 1996; and
- (i) subject to any contrary award by the arbitrator, each Party involved in the Dispute shall bear its own costs in relation to the arbitration and an equal share of the fees and expenses of the arbitrator.

M7.7 The decision of the arbitrator pursuant to a reference in accordance with Section M7.6 shall be final and binding on each of the Parties to the arbitration, except where there is a serious irregularity (as defined in section 68(2) of the Arbitration Act 1996) or a Party successfully appeals the arbitral award on a point of law in accordance with section 69 of the Arbitration Act 1996. Each Party shall comply with such decision provided that (for the avoidance of doubt) the arbitrator shall not have the power to modify this Code.

DCC Service Provider Disputes

M7.8 If any Dispute that is subject to determination by arbitration involves the DCC, and the DCC considers that the Dispute relates to a dispute it has under or in relation to one or more of the DCC Service Provider Contracts, then the DCC may join the relevant DCC Service Provider or DCC Service Providers to the arbitration, so that the arbitrator hears and determines the disputes under or in relation to the DCC Service Provider Contracts simultaneously with the Dispute. The Parties other than the DCC hereby consent to such joining of disputes.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- M7.9 Where the DCC is aware of any dispute arising under or in relation to one or more DCC Service Provider Contracts that may reasonably relate to a Dispute or potential Dispute that would be subject to arbitration, then the DCC may give notice of that dispute to the Panel and to any or all of the other Parties.
- M7.10 Where the DCC gives notice to a Party under Section M7.9, such notice shall only be valid if the DCC gives reasonable detail of such dispute and expressly refers to the waiver that may potentially be given by that Party under Section M7.12.
- M7.11 Within 30 Working Days after the DCC has given a valid notification to a Party under Section M7.9 in respect of a dispute under or in relation to a DCC Service Provider Contract, that Party should give notice to the DCC of any Dispute that that Party wishes to bring in relation to that dispute. Where that Dispute is to be resolved by arbitration, the DCC may then exercise its rights under Section M7.8.
- M7.12 Where the DCC gives notice to a Party in accordance with Section M7.9, and where that Party does not give notice to the DCC in accordance with Section M7.11, then that Party shall be deemed to have waived any right it may have to bring a claim against the DCC in respect of the subject matter of the dispute in question (and shall, notwithstanding Section M2 (Limitations of Liability), indemnify the DCC in full against any Liabilities incurred by the DCC as a consequence of that Party bringing any such claim).

Claims by Third Parties

- M7.13 Subject to Section M7.14, if any person who is not a Party to this Code brings any legal proceedings in any court against any Party and that Party considers such legal proceedings to raise or involve issues that are or would be the subject matter of a Dispute or potential Dispute that would (but for this Section M7.13) be subject to arbitration, then (in lieu of arbitration) the court in which the legal proceedings have been commenced shall hear and determine the legal proceedings and the Dispute between such person and the Parties.
- M7.14 If any person who is not a Party to this Code brings any legal proceedings in any court against any Party and that Party considers such legal proceedings to raise or involve issues that are the subject matter of a Dispute that is already subject to an ongoing

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

arbitration, then Section M7.13 shall only apply where the arbitrator in that arbitration determines that such legal proceedings raise or involve issues that are the subject matter of the Dispute.

Injunctive Relief

M7.15 Nothing in this Section M7 shall prevent a Party seeking interim or interlocutory remedies in any court in relation to any breach of this Code.

SECCo

M7.16 The provisions of this Section M7 (and the definitions used in this Section) shall apply to SECCo as if SECCo was a Party.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M8 SUSPENSION, EXPULSION AND WITHDRAWAL

Events of Default

M8.1 An “**Event of Default**” shall have occurred in respect of any Party other than the DCC (the “**Defaulting Party**”) if one or more of the following occurs in respect of the Defaulting Party:

- (a) the Defaulting Party does not hold an Energy Licence and has not, during any period of six consecutive months, done any or all of the following: (i) taken one or more Services; and/or (ii) made a request for a formal offer for a proposed Elective Communication Service;
- (b) the Defaulting Party has committed a material breach of Section I1.2 (User Obligations);
- (c) the Defaulting Party has failed in a material respect to comply with an enforcement notice served by the Information Commissioner pursuant to section 40 of the Data Protection Act, whether such failure has been notified to the Panel by the Information Commissioner or the Panel has otherwise become aware of such failure;
- (d) the DCC has served a notice on the Defaulting Party in accordance with Section J2.1 (Notification of Payment Failure) in respect of Charges payable by the Defaulting Party, and such Charges have not been paid within three (3) Working Days following that notice;
- (e) the DCC has issued a notice to the Defaulting Party in accordance with Section J3.14 (Breach of Credit Cover Obligations) in respect of Credit Support required to be procured by the Defaulting Party, and such Credit Support has not been provided within three (3) Working Days following that notice;
- (f) the Defaulting Party has not paid any amount other than in respect of the Charges (failures in respect of which are subject to Section M8.1(d)) which the Defaulting Party is due to have paid under this Code, and does not remedy such failure within five (5) Working Days after a notice requiring it to do so (which notice must refer to this Section M8);

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (g) the Defaulting Party has made a material misrepresentation in its Application Form;
- (h) the Defaulting Party is in material breach of any of its material obligations under this Code and/or any Bilateral Agreement (other than those that are subject to another paragraph of this Section M8.1) and the Defaulting Party has failed to remedy the breach (or to desist from the breach and mitigate its effects insofar as it is reasonably practicable to do so) within 20 Working Days after a notice requiring it to do so (which notice must describe the breach in reasonable detail and refer to this Section M8); and/or
- (i) the Defaulting Party suffers an Insolvency Type Event.

Notification of an Event of Default

M8.2 Where the DCC or the Code Administrator or the Secretariat becomes aware that an Event of Default has occurred in respect of a Party, then the DCC or the Code Administrator or the Secretariat (as applicable) shall notify the Panel of such occurrence. Where any Party other than the DCC becomes aware that an Event of Default has occurred in respect of another Party, the Party that has become so aware may notify the Panel of such occurrence.

Investigation of an Event of Default

M8.3 Where the Panel has reason to believe that an Event of Default may have occurred in respect of a Party, then the Panel may investigate the circumstances relating to such potential Event of Default. Each Party shall provide all reasonable Data and cooperation as the Panel may reasonably request in respect of any such investigation.

Consequences of an Event of Default

M8.4 Where an Event of Default occurs in respect of a Defaulting Party and while that Event of Default is continuing, the Panel may take one or more of the following steps (in each case to the extent and at such time as the Panel sees fit, having regard to all the circumstances of the Event of Default and any representations made by any Competent Authority or any Party, provided that the Panel must always take the steps referred to in Section M8.4(a) and (b)):

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) notify the Authority that such Event of Default has occurred in respect of the Defaulting Party;
- (b) notify the Defaulting Party that such Event of Default has occurred in respect of it;
- (c) notify each other Party that such Event of Default has occurred in respect of the Defaulting Party;
- (d) require the Defaulting Party to give effect to a reasonable remedial action plan designed to remedy and/or mitigate the effects of the Event of Default within a reasonable timescale (a material breach of which plan shall in itself constitute an Event of Default);
- (e) suspend one or more of the Defaulting Party's rights referred to in Section M8.5 (following such prior consultation with the Defaulting Party as the Panel considers appropriate);
- (f) instruct the DCC to suspend (in which case the DCC shall, within one Working Day thereafter, suspend) one or more of the Defaulting Party's rights referred to in Section M8.6 (following such prior consultation with the Defaulting Party as the Panel considers appropriate); and/or
- (g) expel the Defaulting Party from this Code subject to and in accordance with Section M8.10.

Suspension of Rights

M8.5 The rights referred to in Section M8.4(e) are:

- (a) the right of the Defaulting Party (and each other member of its Voting Group) to vote in Panel Member elections under Section C4 (Panel Elections);
- (b) the right of the Defaulting Party to raise new Modification Proposals under Section D (Modifications); and
- (c) the right of the Defaulting Party to influence the appointment of a Change Board Member, so that:

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (i) in the case of a Supplier Party, the Change Board Member appointed by the Voting Group of which that Supplier Party forms part shall be suspended; or
- (ii) in the case of any Party other than a Supplier Party, the Secretariat shall ignore the views of that Party when considering any request to appoint or remove a Change Board Member appointed by the Party Category of which that Party forms part.

M8.6 The rights referred to in Section M8.4(f) are:

- (a) the right of the Defaulting Party to receive Core Communication Services or Local Command Services in the 'Other User' User Role;
- (b) (subject to the Authority's approval) the right of the Defaulting Party to receive Core Communication Services or Local Command Services in any User Role other than the 'Other User' User Role;
- (c) (subject to the Authority's approval) the right of the Defaulting Party to receive any or all Elective Communication Services;
- (d) (subject to the Authority's approval) the right of the Defaulting Party to initiate Enrolment of Smart Metering Systems; and
- (e) (subject to the Authority's approval) the right of the Defaulting Party to request or receive any or all Services other than those referred to elsewhere in this Section M8.6.

M8.7 The suspension of any or all of the Defaulting Party's rights referred to in Section M8.5 or M8.6 shall be without prejudice to the Defaulting Party's obligations and Liabilities under and in relation to this Code (whether accruing prior to, during, or after such suspension). Without prejudice to the generality of the foregoing, the Defaulting Party shall continue to be liable for all Charges that it is or becomes liable to pay under this Code.

M8.8 Where the Panel has, pursuant to Section M8.4(e) and/or (f), suspended a Party's rights, then the Panel may at any time thereafter end such suspension (provided that, in

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the case of rights that the Panel cannot suspend without the Authority’s approval, the Panel may not end such suspension without the Authority’s approval).

Ceasing to be a Party

M8.9 A Party that holds an Energy Licence that requires that Party to be a party to this Code:

- (a) cannot be expelled from this Code by the Panel unless the Authority has approved such expulsion (and, in the case of any such approval, Section M8.10(a) shall apply as if the Party did not hold an Energy Licence that requires it to be a party to this Code); and
- (b) cannot voluntarily cease to be a Party while that Energy Licence remains in force.

M8.10 A Party that does not hold an Energy Licence that requires that Party to be a party to this Code:

- (a) may (while an Event of Default is continuing in respect of that Party) be expelled from this Code with effect from such time on such date as the Panel may resolve (where the Panel considers it reasonable to do so in the circumstances); and
- (b) may give notice to the Panel of that Party’s intention to voluntarily cease to be a Party and of the time on the date from which it wishes to cease to be a Party. The Panel shall, following receipt of such a notice, resolve that that Party shall cease to be a Party with effect from the time on the date notified.

M8.11 The Panel shall notify the Authority and each remaining Party in the event that any person is expelled from this Code or voluntarily ceases to be a Party.

Appeal to the Authority

M8.12 Where the Panel resolves to suspend the rights of a Party and/or to expel a Party pursuant to this Section M, then that Party may at any subsequent time apply to the Authority to have such suspension lifted or to be reinstated as a Party. The Parties and the Panel shall give effect to any decision of the Authority pursuant to such application, which shall be final and binding for the purposes of this Code.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Consequences of Ceasing to be a Party

M8.13 Where the Panel makes a resolution in respect of a Party in accordance with Section M8.10, then with effect from the time on the date at which such resolutions are effective:

- (a) that Party's accession to this Code shall be terminated, and it shall cease to be a Party; and
- (b) subject to Section M8.14, that Party shall cease to have any rights or obligations under this Code or any Bilateral Agreement.

M8.14 The termination of a Party's accession to this Code shall be without prejudice to:

- (a) those rights and obligations under this Code and/or any Bilateral Agreement that may have accrued prior to such termination; or
- (b) those provisions of this Code or any Bilateral Agreement that are expressly or by implication intended to survive such termination, including Sections A (Definitions and Interpretation), J (Charges), M2 (Limitations of Liability), M5 (Intellectual Property Rights), M7 (Dispute Resolution), M10 (Notices), and M11 (Miscellaneous).

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M9 TRANSFER OF DCC LICENCE

Introduction

M9.1 This Section M9 is included in accordance with Condition 22 of the DCC Licence, and provides for the transfer of (amongst other things) the DCC’s interest in this Code to a Successor Licensee.

Application and Interpretation of this Section M9

M9.2 This Section M9 shall only apply where two persons hold a DCC Licence at the same time. In such circumstances:

- (a) “**Transfer Date**” has the meaning given to that expression in Condition 43 of the earlier of the two DCC Licences;
- (b) until the Transfer Date, the holder of the earlier DCC Licence shall be “**the DCC**” for the purposes of this Code, and the holder of the later DCC Licence shall be “**the Successor Licensee**”; and
- (c) from the Transfer Date, all references in this Code to “**the DCC**” shall be references to the holder of the later DCC Licence.

Novation Agreement

M9.3 Where this Section M9 applies, the DCC and the Successor Licensee shall each enter into a novation agreement in a form approved by the Authority.

M9.4 Such novation agreement will, with effect from the Transfer Date, novate to the Successor Licensee all rights and obligations of the DCC under the agreements referred to in Section M9.5 (including all rights obligations and liabilities of the DCC that may have accrued in respect of the period prior to the Transfer Date).

M9.5 Such novation agreement shall be in respect of the following agreements:

- (a) the Framework Agreement;
- (b) all Accession Agreements; and

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(c) all Bilateral Agreements.

M9.6 The DCC shall enter into such novation agreement in (to the extent applicable) its own right, and also (to the extent applicable) on behalf of the Parties (which shall include SECCo) that are counterparties to the agreements referred to in Section M9.5.

DCC Authority to enter into Accession Agreements

M9.7 Each Party (which shall include SECCo) hereby irrevocably and unconditionally authorises the DCC to execute and deliver, on behalf of such Party, a novation agreement as envisaged by this Section M9.

Co-operation

M9.8 Each Party shall do all such things as the Panel may reasonably request in relation to the novation of the agreements referred to in Section M9.5 from the DCC to the Successor DCC.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M10 NOTICES

Communication via Specified Interfaces

M10.1 This Code requires certain communications to be sent via certain specified means, including as described in:

- (a) Section E2 (Provision of Registration Data);
- (b) Section H3 (DCC User Interface);
- (c) Section H8 (Service Management, Self-Service Interface and Service Desk);
and
- (d) Section L4 (The SMKI Service Interface) and L5 (The SMKI Repository Interface).

Other Notices

M10.2 Save as referred to in Section M10.1, any notice or other communication to be made by one Party to another Party under or in connection with this Code or any Bilateral Agreement shall be in writing and shall be:

- (a) delivered personally or by courier;
- (b) sent by first class prepaid post; or
- (c) sent by fax or email.

M10.3 All notices and communications as described in Section M10.2 shall be sent to the physical address, fax number or email address specified for such purpose in the relevant Party's Party Details. Where no fax or email address is specified for a particular type of notice or communication, notice may not be given in that manner.

M10.4 Subject to Section M10.5, all notices and communications as described in Section M10.2 shall be deemed to be received by the recipient:

- (a) if delivered personally or by courier, when left at the address set out for such purpose in the relevant Party's Party Details;

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) if sent by first class prepaid post, two Working Days after the date of posting;
- (c) if sent by fax, upon production by the sender's equipment of a transmission report indicating that the fax was sent to the fax number of the recipient in full without error; and
- (d) if sent by email, one hour after being sent, unless an error message is received by the sender in respect of that email before that hour has elapsed.

M10.5 Any notice that would otherwise be deemed to be received on a day that is not a Working Day, or after 17.30 hours on a Working Day, shall be deemed to have been received at 9.00 hours on the next following Working Day.

The Panel, Code Administrator, Secretariat and SECCo

M10.6 Notices between a Party and any of the Panel, the Code Administrator, the Secretariat or SECCo shall also be subject to this Section M. Notices to any of the Panel, the Code Administrator, the Secretariat or SECCo shall be sent to the relevant address given for such purpose, from time to time, on the Website (or, in the absence of any such address, to SECCo's registered office).

Process Agent

M10.7 Any Party (being a natural person) who is not resident in Great Britain or (not being a natural person) which is not incorporated in Great Britain shall, as part of its Party Details, provide an address in Great Britain for service of process on its behalf in any proceedings under or in relation to this Code and/or any Bilateral Agreement. Where any such Party fails at any time to provide such address, such Party shall be deemed to have appointed SECCo as its agent to accept such service of process on its behalf.

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

M11 MISCELLANEOUS

Entire Code

M11.1 This Code and any document referred to herein represents the entirety of the contractual arrangements between the Parties in relation to the subject matter of this Code. This Code and any document referred to herein supersedes any previous contract between any of the Parties with respect to the subject matter of this Code.

M11.2 Each Party confirms that, except as provided in this Code and without prejudice to any claim for fraudulent misrepresentation, it has not relied on any representation, warranty or undertaking which is not contained in this Code or any document referred to herein.

Severability

M11.3 If any provision of this Code shall be held to be invalid or unenforceable by a judgement or decision of any Competent Authority, that provision shall be deemed severable and the remainder of this Code shall remain valid and enforceable to the fullest extent permitted by law.

Waivers

M11.4 The failure by any Party to exercise, or the delay by any Party in exercising, any right, power, privilege or remedy provided under this Code or by law shall not constitute a waiver thereof nor of any other right, power, privilege or remedy. No single or partial exercise of any such right, power, privilege or remedy shall preclude any future exercise thereof or the exercise of any other right, power, privilege or remedy.

Third Party Rights

M11.5 The following persons shall be entitled to enforce the following rights in accordance with the Contracts (Rights of Third Parties) Act 1999:

- (a) the person referred to in Sections C3.12 (Protections for Panel Members and Others) and M2.13(a) (Other Matters) shall be entitled to enforce the respective rights referred to in those Sections; and

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(b) the Approved Finance Party for each Communications Hub Finance Facility shall be entitled to exercise and/or enforce the following rights of the DCC in respect of the Communications Hub Finance Charges relating to that facility where a Communications Hub Finance Acceleration Event has occurred in respect of that Communications Hub Finance Facility and the Authority has determined that the DCC is unwilling or unable to do so:

- (i) the right to calculate the amount of the Communications Hub Finance Charges arising as a result of that event (provided in such circumstances that the Approved Finance Party must demonstrate to the satisfaction of the Authority that the amount of the charges so calculated will in aggregate be no more than the amount contractually due and payable (but unpaid) by the DCC to the Approved Finance Party in respect of that event);
- (ii) the right to invoice the Users in respect of the Communications Hub Finance Charges arising as a result of the Communications Hub Finance Acceleration Event (whether in the amount calculated by the DCC in accordance with this Code, or in the amount calculated by the Approved Finance Party and approved by the Authority under Section M11.5(b)); and/or
- (iii) the right to enforce payment by the Users in accordance with this Code of the amount of Communications Hub Finance Charges invoiced in accordance with this Code,

and the payment of any amount by a User to an Approved Finance Party pursuant to this Section M11.5(b) shall satisfy that User's obligation to pay that amount to the DCC.

M11.6 Subject to Section M11.5, the Parties do not intend that any of the terms or conditions of this Code will be enforceable by a third party (whether by virtue of the Contracts (Rights of Third Parties) Act 1999 or otherwise).

M11.7 Notwithstanding that a person who is not a Party has the right to exercise and/or enforce particular rights in accordance with Section M11.5, the Parties may vary or

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

terminate this Code in accordance with its terms without requiring the consent of any such person.

Assignment and Sub-contracting

M11.8 Without prejudice to a Party's right to appoint agents to exercise that Party's rights, no Party may assign any of its rights under this Code without the prior written consent of the other Parties.

M11.9 Any Party may sub-contract or delegate the performance of any or all of its obligations under this Code to any appropriately qualified and experienced third party, but such Party shall at all times remain liable for the performance of such obligations (and for the acts and omissions of such third party, as if they were the Party's own). It is expressly acknowledged that the DCC has sub-contracted a number of its obligations under this Code to the DCC Service Providers.

Agency

M11.10 Nothing in this Code shall create, or be deemed to create, a partnership or joint venture or relationship of employer and employee or principal and agent between the Parties and no employee of one Party shall be deemed to be or have become an employee of another Party.

M11.11 No Party shall:

- (a) pledge the credit of another Party;
- (b) represent itself as being another Party, or an agent, partner, employee or representative of another Party; or
- (c) hold itself out as having any power or authority to incur any obligation of any nature, express or implied, on behalf of another Party.

Derogations

M11.12 A Party that holds an Energy Licence shall not be obliged to comply with its obligations under this Code to the extent to which such Party has the benefit of a derogation from the obligation to do so granted by the Authority under such Energy

SEC – Section M: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Licence.

Law and Jurisdiction

M11.13 This Code and any dispute or claim arising out of or in connection with it (including non-contractual claims) shall be governed by, and construed in accordance with, the laws of England and Wales.

M11.14 In relation to any dispute or claim arising out of or in connection with this Code (including in respect of non-contractual claims), each Party (subject to Section M7 (Dispute Resolution)) irrevocably agrees to submit to the exclusive jurisdiction of the courts of England and Wales and of Scotland. For the avoidance of doubt, the foregoing shall not limit a Party's right to enforce a judgment or order in any other jurisdiction.

SECCo

M11.15 The provisions of this Section M11 (and the definitions used in this Section) shall apply to SECCo as if SECCo was a Party.

SECTION T – TESTING DURING TRANSITION

T1 DEVICE SELECTION METHODOLOGY

Overview

T1.1 The Device Selection Methodology is the methodology for determining the Devices that are to be used by the DCC for the purposes of Systems Integration Testing, Interface Testing and User Entry Process Tests.

Use of Devices

T1.2 Systems Integration Testing, Interface Testing and User Entry Process Tests are to be undertaken using (to the extent reasonably practicable) actual Devices (rather than Test Stubs or other alternative arrangements).

Device Selection Methodology

T1.3 The DCC shall develop, publish (including on the DCC Website) and comply with a methodology (the “**Device Selection Methodology**”) concerning the selection and de-selection of Devices for the purposes of Systems Integration Testing, Interface Testing and User Entry Process Tests. The DCC shall consult with the other Parties and Manufacturers prior to finalising the Device Selection Methodology. The Device Selection Methodology shall include provision for the DCC to:

- (a) (save for Communications Hubs) select as many different Device Models as the DCC considers appropriate in order to demonstrate that the Testing Objectives have been achieved; provided that, when the DCC first selects Device Models, the DCC shall select at least the first two Gas Meter Device Models and at least the first two Electricity Meter Device Models offered in accordance with the Device Selection Methodology that meet the criteria set out in Sections T1.4 and T1.6 (as varied by Section T1.5);
- (b) (save for Communications Hubs) select the Device Models in accordance with the selection criteria described in Sections T1.4 and T1.6 (as varied by Section T1.5);
- (c) (save for Communications Hubs) publish an invitation to submit Device Models

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

for selection (such publication to be in a manner likely to bring it to the attention of Parties and Manufacturers, including publication on the DCC Website), such invitation to require Devices to be offered for use on reasonable terms specified by the DCC and from a certain date;

- (d) de-select a Device Model (for the purposes of the then current phase of testing and any future phases of testing pursuant to this Section T) if that Device Model is subsequently found to not comply with the criteria set out in Section T1.4(a), with respect to which the methodology shall describe the process to be followed by the DCC in such circumstances and provide for an appeal by a Party or a Manufacturer to the Panel. The Panel's decision on such matter may then be appealed to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs) for final determination of disputes regarding whether or not a Device Model does comply with the requirements of Section T1.4(a); and
- (e) select Communications Hubs comprising Devices of the Device Models that the DCC first proposes to make available to Supplier Parties pursuant to the Communications Hub Services (which Device Models need not, at the start of Systems Integration Testing, have CPA Certificates or (where the Secretary of State so directs) a ZigBee Alliance Assurance Certificate).

T1.4 In selecting Devices (other than those comprising Communications Hubs), the DCC shall apply the following selection criteria:

- (a) that the Device Models selected are SMETS compliant, provided that they need not (where the Secretary of State so directs) have a ZigBee Alliance Assurance Certificate or a DLMS Certificate and need not have a CPA Certificate until CPA Certificates are generally available for the relevant Physical Device Type (and the DCC need only switch to a Device Model with those Assurance Certificates where it is reasonably practicable for it to do so, having regard to the timely achievement of the Testing Objectives);
- (b) that Gas Meter Device Models and Electricity Meter Device Models are selected so that, in respect of each Communications Hub Device Model that the DCC first proposes to make available pursuant to the Communications Hub

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Services, there are at least two Gas Meter Device Models and at least two Electricity Meter Device Models of a Manufacturer which is not the Manufacturer (or an Affiliate of the Manufacturer) of that Communications Hub Device Model; and

- (c) that there will be sufficient Devices available for Systems Integration Testing, Interface Testing and User Entry Process Tests.

T1.5 Where the DCC is not able to select Devices that meet all the criteria set out in Section T1.4, it may relax the requirements in accordance with the Device Selection Methodology.

T1.6 The Device Selection Methodology must also include:

- (a) in addition to the selection criteria set out in Section T1.4, any other reasonable criteria that the DCC considers appropriate and that are consistent with those set out in Section T1.4;
- (b) an explanation of the level of assurance the DCC needs regarding the achievement of the Testing Objectives and of how the Device Selection Methodology will ensure that level of assurance; and
- (c) any amendments to the process referred to in Sections H14.37 to H14.45 (General: Testing Issue Resolution Process) for resolving Testing Issues which are to be applied by the DCC in respect of Testing Issues concerning Devices that arise during activities undertaken pursuant to this Section T.

Appeal of Methodology

T1.7 Within the 14 days after publication of the Device Selection Methodology under Section T1.3, any person that is a Party and/or a Manufacturer may refer the methodology to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs) to determine whether the methodology meets the requirements of this Section T1 (which determination shall be final and binding for the purposes of this Code).

T1.8 Following a referral in accordance with Section T1.7, the DCC shall comply with any directions of the person making the determination thereunder to reconsider and/or

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

amend the Device Selection Methodology. The DCC shall republish (including on the DCC Website) the methodology as so amended and the provisions of Section T1.7 and this Section T1.8 shall apply to any such amended methodology.

Compliance with Methodology

T1.9 Following its decision on which Device Models (or alternative arrangements) to select pursuant to the Device Selection Methodology, the DCC shall publish its decision on the DCC Website. The DCC shall not publish details of the Device Models (if any) which were proposed for selection but not selected. The DCC shall notify the Secretary of State, the Authority and the person which proposed any Device Models which were not selected of the DCC's decision (together with its reasons for selecting the Device Models (or other arrangements) that were selected, and for not selecting that person's proposed Device Models).

T1.10 Where any Party and/or Manufacturer believes that the DCC has not complied with the Device Selection Methodology as published from time to time in accordance with this Section T1, then such person may refer the matter to be determined by the Panel. The Panel's decision on such matter may be appealed to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs), whose decision shall be final and binding for the purposes of this Code.

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T2 SYSTEMS INTEGRATION TESTING

Overview

T2.1 Systems Integration Testing tests the capability of the DCC and the component parts of the DCC Systems together with the Communications Hubs selected pursuant to Section T1 to interoperate with each other and with the RDP Systems.

SIT Objective

T2.2 The objective of Systems Integration Testing (the “**SIT Objective**”) is to demonstrate that the DCC and the component parts of the DCC Systems together with the Communications Hubs selected pursuant to Section T1 interoperate with each other and with the RDP Systems to the extent necessary in order that:

- (a) the DCC is capable of complying with its obligations under Sections E (Registration Data), G (Security) and H (DCC Services); and
- (b) the Registration Data Providers are capable of complying with the obligations under Section E (Registration Data) with which the Network Parties are obliged to procure that the Registration Data Providers comply,

in each case at levels of activity commensurate with the relevant Volume Scenarios.

T2.3 For the purposes of Section T2.2, the Sections referred to in that Section shall be construed by reference to:

- (a) the decision or consultation document concerning the intended future content of those Sections most recently published by the Secretary of State prior to 14 April 2016 (regardless of whether the content of those documents has yet been incorporated into this Code or whether those Sections yet have effect), but taking into account any variations to this Code pursuant to Section X (Transition) that apply (or are due to apply on the Section or a relevant Subsidiary Document coming into effect) and that will continue to apply on Communication Services first becoming available); and
- (b) to the extent not inconsistent with any document referred to in (a), any document regarding technical or procedural requirements which support those

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Sections which is published from time to time by the Secretary of State for the purposes of this Section T2.3.

T2.4 Systems Integration Testing is to be undertaken on a Region-by-Region basis and an RDP-System-by-RDP-System basis; such that the SIT Objective is to be achieved in respect of each Region and each RDP System separately.

SIT Approach Document

T2.5 The DCC shall develop a document (the “**SIT Approach Document**”) which sets out:

- (a) the reasonable entry criteria to be satisfied with respect to each Registration Data Provider prior to commencement of Systems Integration Testing in respect of that Registration Data Provider;
- (b) the manner in which Systems Integration Testing is to be undertaken, including the respective obligations of the DCC, and each Registration Data Provider and the Volume Scenarios to be used;
- (c) a reasonable timetable for undertaking and completing Systems Integration Testing;
- (d) the frequency and content of progress reports concerning Systems Integration Testing to be provided by the DCC to the Panel (which the Panel shall make available to the Secretary of State, the Authority and Testing Participants), which reports must include details of Testing Issues identified and resolved and of any problems and solutions encountered with respect to Devices (the details of such Testing Issues to be anonymised and redacted as required in accordance with Section H14.44 (General: Testing Issue Resolution Process));
- (e) (to the extent it is not reasonably practicable to use actual Devices) details of the alternative arrangements (which may include Test Stubs) to be used in their place (together with an explanation of how such arrangements will provide sufficient assurance that the SIT Objective has been met), in which case there must also be a process describing whether and how to switch to the use of actual Devices as they become available;
- (f) where a Device Model is de-selected pursuant to the Device Selection

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Methodology, the process for switching to an alternate Device Model where practicable, or otherwise to Tests Stubs or an alternative arrangement;

- (g) a Good Industry Practice methodology for determining whether the SIT Objective has been achieved in respect of each Region and each RDP System, including details of the exit criteria to be achieved and the level of assurance that will be delivered by achievement of those exit criteria; provided that one such exit criteria for each Region must include the successful use in that Region of each Communications Hub Device Model that the DCC first proposes to make available in that Region (save that such Communications Hub Device Models need not have CPA Certificates and need not (where the Secretary of State so directs) have a ZigBee Alliance Assurance Certificate);
- (h) that the DCC will produce a report where the DCC considers that the exit criteria referred to in (g) above have been achieved for a Region or an RDP System (providing evidence of such achievement in such report), having consulted with each Registration Data Provider in relation to the exit criteria applicable to that Registration Data Provider; and
- (i) how an auditor (that is sufficiently independent of the DCC, the DCC Service Providers and the Registration Data Providers) will be selected, and how such auditor will monitor the matters being tested pursuant to Systems Integration Testing, and confirm that the exit criteria referred to in (g) above have been achieved for a Region or an RDP System (such independent auditor to be appointed by the DCC on terms consistent with Good Industry Practice).

Approval of SIT Approach Document

- T2.6 The DCC shall submit the SIT Approach Document to the Panel for the Panel's approval as fit for the purposes envisaged by this Section T2.
- T2.7 The DCC shall not submit the SIT Approach Document to the Panel under Section T2.6 until after the DCC has first published the Device Selection Methodology.
- T2.8 Before submitting the SIT Approach Document to the Panel, the DCC shall consult with the Registration Data Providers regarding the SIT Approach Document. When submitting the SIT Approach Document to the Panel, the DCC shall also submit copies

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

of the consultation responses received from the Registration Data Providers. In addition, the DCC shall publish such consultation responses (to the extent not marked confidential) on the DCC Website.

T2.9 Where the Panel decides not to approve the SIT Approach Document submitted for approval, the Panel shall notify such decision to the DCC and the Registration Data Providers giving the reasons why it considers that it is not fit for the purposes envisaged in this Section T2. In such circumstances, the DCC shall:

- (a) revise the document to address such reasons;
- (b) re-consult with the Registration Data Providers; and
- (c) re-submit the document to the Panel for approval and comply with Section T2.8 (following which this Section T2.9 or Section T2.10 shall apply).

T2.10 Where the Panel decides to approve the SIT Approach Document submitted for approval, the Panel shall notify such decision to the DCC and the Registration Data Providers. In such circumstances, the DCC and each Registration Data Provider shall have the ability (within the 14 days after notification by the Panel) to refer the matter to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs) to determine whether the SIT Approach Document:

- (a) should be approved as fit for the purposes envisaged by this Section T2;
- (b) is not fit for the purposes envisaged by this Section T2, but will be deemed to be approved if it is revised by the DCC in accordance with the determination; or
- (c) is not fit for the purposes envisaged by this Section T2 and should be revised and re-submitted by the DCC in accordance with Section T2.9,

(and any such determination shall be final and binding for the purposes of this Code).

Commencement of Systems Integration Testing

T2.11 Subject to Section T2.12, once the SIT Approach Document has been approved by the Panel (or deemed to be approved by the Panel under Section T2.10(b)), the DCC shall publish the approved document on the DCC Website and give at least 3 months' (or

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

such shorter period as the Secretary of State may direct) notice to the Registration Data Providers of the date on which Systems Integration Testing is to commence. Where directed to do so by the Secretary of State, the DCC shall determine a revised commencement date for Systems Integration Testing (provided that the DCC shall first consult on such date with such persons as the Secretary of State may specify in such direction), and shall (where specified by the Secretary of State in such direction) make consequential revisions to the SIT Approach Document (which date (and, where relevant, revisions) must be published at least 3 months (or such shorter period as the Secretary of State may direct) in advance of the revised date on which Systems Integration Testing is to commence).

T2.12 The DCC shall not publish the SIT Approach Document and give notice under Section T2.11 where the Panel’s decision has been appealed under Section T2.10 (pending approval of the document thereunder or revision in accordance with a determination made under Section T2.10(b)), save that where:

- (a) the Panel’s approval of the SIT Approach Document is appealed by one or more Registration Data Providers, the DCC shall nevertheless publish the document and give notice under Section T2.11 insofar as the document relates to the other Registration Data Providers; and/or
- (b) the Panel’s approval of the SIT Approach Document is appealed by one or more Registration Data Providers or the DCC, the Panel may nevertheless direct that the matter appealed is not of a nature that should delay notice under Section T2.11, in which case the DCC shall publish the document and give notice under Section T2.11 (noting the appeal).

T2.13 Prior to the commencement of Systems Integration Testing, the DCC shall assess whether or not each Registration Data Provider meets the entry criteria referred to in Section T2.5(a), and report to the Registration Data Provider and the Panel on the same. Each Network Party shall ensure that its Registration Data Provider:

- (a) cooperates with the DCC in its assessment of whether the Registration Data Provider meets the entry criteria referred to in Section T2.5(a);
- (b) takes all reasonable steps to meet those entry criteria by the date required in

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

accordance with the SIT Approach Document; and

- (c) notifies the Panel and the DCC as soon as reasonably practicable if the Registration Data Provider considers that it will not meet those criteria by that date.

T2.14 Systems Integration Testing in respect of each Registration Data Provider shall only commence once the Registration Data Provider meets the entry criteria referred to in Section T2.5(a). Any disagreement between the DCC and a Registration Data Provider as to whether the Registration Data Provider has met such entry criteria shall be determined by the Panel, provided that such disagreement must be notified to the Panel within 14 days of the DCC notifying its assessment to the Registration Data Provider. The Panel's decision on such matter may (within 14 days after the Panel's decision) be appealed by the DCC or the affected Registration Data Provider to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs), whose decision shall be final and binding for the purposes of this Code.

Systems Integration Testing

T2.15 The DCC shall comply with its obligations under the approved SIT Approach Document. The DCC shall ~~take reasonable steps~~~~use its reasonable endeavours~~ to ensure that Systems Integration Testing is completed as soon as it is reasonably practicable to do so.

T2.16 Each Network Party shall ensure that its Registration Data Provider complies with its obligations under the approved SIT Approach Document.

T2.17 Where requested by the DCC and/or a Registration Data Provider, each Party shall take all reasonable steps to do all such things as are within its power and necessary or expedient in order to facilitate achievement of the SIT Objective.

T2.18 Where the DCC wishes to make amendments to the SIT Approach Document (other than consequential revisions in accordance with Section T2.11), the DCC shall consult with the Registration Data Providers regarding those amendments and submit those amendments to the Panel (in accordance with Section T2.8) for approval (following which Sections T2.9 to T2.12 shall apply as if the references in those Sections to

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

approval of the document were to approval of the amendments and as if the references in Sections T2.11 and T2.12 to giving notice were not included).

Completion of Systems Integration Testing

T2.19 Subject to Section T2.20, Systems Integration Testing shall end in respect of each Region or RDP System on the date notified as the end of Systems Integration Testing for that Region or RDP System by the DCC to the Secretary of State, the Authority, the Panel, the Parties and the Registration Data Providers.

T2.20 The DCC shall not notify the end of Systems Integration Testing in respect of each Region or RDP System before the following reports have been produced in respect of that Region or RDP System:

- (a) the DCC's report in accordance with the SIT Approach Document demonstrating that the exit criteria have been met in respect of that Region or RDP System (as envisaged by Section T2.5(h)); and
- (b) the independent auditor's report to the DCC in accordance with the SIT Approach Document confirming that the exit criteria have been met in respect of that Region or RDP System (as envisaged by Section T2.5(i)).

T2.21 On notifying the end of Systems Integration Testing for one or more Regions or RDP Systems, the DCC shall provide to the Authority and the Panel and (on request) to the Secretary of State:

- (a) copies of the reports referred to in Section T2.20; and
- (b) where relevant, a list of sections of the report or reports which the DCC considers should be redacted prior to circulation of the reports to the Parties, Registration Data Providers or Testing Participants where the DCC considers that those sections contain information which may pose a risk of Compromise to the DCC Total System or RDP Systems.

T2.22 Once directed to do so by the Panel, the DCC shall make copies of the reports referred to in Section T2.20 available to the Parties, the Registration Data Providers and the Testing Participants. Prior to making such copies available, the DCC shall redact those sections of the reports which it is directed to redact by the Panel where the Panel

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

considers that those sections contain information which may pose a risk of Compromise to the DCC Total System or RDP Systems (which sections may or may not include those sections which the DCC proposed for redaction).

Testing Issues

T2.23 Sections H14.37 to H14.45 (General: Testing Issue Resolution Process) shall apply for the purposes of Systems Integration Testing. Each Registration Data Provider shall be deemed to be a Testing Participant for such purposes, and may raise a Testing Issue in respect of Systems Integration Testing.

T2.24 During Systems Integration Testing, the DCC shall provide the Secretary of State with copies of the reports which are generated by the DCC or the DCC Service Provider in respect of Testing Issues (without redacting those reports as ordinarily required by Sections H14.37 to H14.45).

Additional Systems Integration Testing

T2.25 On each occasion that the Secretary of State so directs for the purpose of this Section T2.25, the DCC shall undertake testing against the SIT Objective in respect of such Services that have not previously been the subject of testing under this Section T2 as the Secretary of State may direct (each such round of testing being “**Additional SIT**”).

T2.26 The purpose of each round of Additional SIT shall be to demonstrate the SIT Objective as described in Sections T2.2 and T2.3, but subject to the following variations (the SIT Objective as so varied being the “**Additional SIT Objective**”):

- (a) the only variations pursuant to Section X (Transition) that will be taken into account in interpreting the relevant Sections are those that will continue to apply following commencement of the provision of the Services that are the subject of that round of Additional SIT; and
- (b) the Additional SIT Objective shall not apply by reference to the document published from time to time by the Secretary of State for the purpose of Section T2.3(b), but instead by reference to the document published from time to time by the Secretary of State for the purposes of that Additional SIT.

T2.27 The provisions of this Section T2 shall apply to each round of Additional SIT, subject to

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the following:

- (a) all references in this Section T2 to "Systems Integration Testing" shall be read as references to "the relevant round of Additional SIT";
- (b) Sections T2.25 and T2.26 shall apply in place of Sections T2.2 and T2.3; for which purpose it is acknowledged that some of the capability and interoperability to be demonstrated via Additional SIT will already have been demonstrated via previous testing undertaken pursuant to this Section T (and further testing of such capability or interoperability shall not be required to the extent that it has already been sufficiently proven for the purposes of the Additional SIT Objective as part of such earlier testing);
- (c) the Additional SIT shall be undertaken only in respect of the Region or Regions and the RDP System or RDP Systems directed by the Secretary of State;
- (d) the SIT Approach Document shall apply to the Additional SIT (without prejudice to the DCC's ability to make changes to the SIT Approach Document in accordance with this Section T2);
- (e) (unless otherwise directed by the Secretary of State) the Registration Data Providers shall not be obliged to participate in the Additional SIT and the entry and exit criteria relating to RDP Systems shall not apply (and, accordingly, Registration Data Providers need not be consulted regarding, and shall have no appeal right in respect of, changes to the SIT Approach Document that relate only to Additional SIT in which the Registration Data Providers are not participating);
- (f) no period of notice need be given by the DCC in advance of commencement of Additional SIT (unless otherwise directed by the Secretary of State);
- (g) the Device Models to be used for Additional SIT are those selected pursuant to the previous phase of testing pursuant to this Section T.

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T3 INTERFACE TESTING

Overview

T3.1 Interface Testing tests the capability of the DCC and the DCC Systems together with the Communications Hubs selected pursuant to Section T1 to interoperate with User Systems.

Interface Testing Objective

T3.2 The objective of Interface Testing (the “**Interface Testing Objective**”) is to demonstrate that the DCC and the DCC Systems together with the Communications Hubs selected pursuant to Section T1 interoperate with User Systems to the extent necessary in order that the DCC is capable of complying with its obligations under Sections E (Registration Data), G (Security) and H (DCC Services) (in each case) at levels of activity commensurate with the relevant Volume Scenarios.

T3.3 For the purposes of Section T3.2, the Sections referred to in that Section shall be construed by reference to:

(a) the decision or consultation document concerning the intended future content of those Sections most recently published by the Secretary of State prior to 14 April 2016 (regardless of whether the content of those documents has yet been incorporated into this Code or whether those Sections yet have effect, but taking into account any variations to this Code pursuant to Section X (Transition) that apply (or are due to apply on the Section or a relevant Subsidiary Document coming into effect) and that will continue to apply on Communication Services first becoming available); and

(b) to the extent not inconsistent with any document referred to in (a), any document regarding technical or procedural requirements which support those Sections which is published from time to time by the Secretary of State for the purposes of this Section T3.3.

T3.4 Interface Testing is to be undertaken on a Region-by-Region basis; such that the Interface Testing Objective is to be demonstrated in respect of each Region separately. Interface Testing for a Region cannot be completed until Systems Integration Testing

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

has been completed for that Region. For the avoidance of doubt, Interface Testing cannot be completed until Systems Integration Testing has been completed for each and every Region and RDP System.

T3.5 During Interface Testing, Parties who wish to do so, and who are ready to do so in accordance with the entry criteria for the User Entry Process Tests, shall be able to undertake the User Entry Process Tests (pursuant to Section H14 (Testing Services)).

Overlapping Provision of Systems Integration Testing and Interface Testing

T3.6 Prior to the start of Interface Testing, the DCC may propose to the Secretary of State, having regard to the overriding objective of completing Interface Testing in a timely manner, that Interface Testing should be commenced from some point during Systems Integration Testing for any or all Regions. The DCC's proposal must set out its analysis of the benefits and risks of doing so. Prior to submitting its proposal to the Secretary of State, the DCC shall consult with the other Parties regarding the proposal. The DCC shall also submit copies of the consultation responses received from Parties. Where it has submitted the proposal to the Secretary of State, the DCC shall publish the proposal and such consultation responses (to the extent that they are not marked confidential) on the DCC Website.

T3.7 Where the Secretary of State agrees with the DCC's recommendation pursuant to Section T3.6, then Interface Testing shall commence from the time recommended for the Regions included in the recommendation (notwithstanding anything to the contrary in the Interface Testing Approach Document or the SIT Approach Document).

Interface Testing Approach Document

T3.8 The DCC shall develop a document (the “**Interface Testing Approach Document**”) which sets out:

- (a) the reasonable entry criteria to be satisfied by the DCC with respect to the DCC Systems and the Communications Hubs selected pursuant to Section T1, and to be met by the Registration Data Providers with respect to the RDP Systems prior to commencement of Interface Testing in each Region;
- (b) the entry criteria to be met by the Parties prior to their commencing the User

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Entry Process Tests (which criteria shall be consistent with the relevant requirements of Section H14 (Testing Services), subject only to amendments reasonably required for the purposes of Interface Testing);

- (c) the manner in which Interface Testing is to be undertaken, including the respective obligations of the DCC, each other Party and each Registration Data Provider and the Volume Scenarios to be used;
- (d) a reasonable timetable for undertaking and completing Interface Testing;
- (e) the frequency and content of progress reports concerning Interface Testing to be provided by the DCC to the Panel (which the Panel shall make available to the Secretary of State, the Authority and Testing Participants), which reports must include details of Testing Issues identified and resolved and of any problems and solutions encountered with respect to Devices (the details of such Testing Issues to be anonymised and redacted as required in accordance with Section H14.44 (General: Testing Issue Resolution Process));
- (f) (to the extent it is not reasonably practicable to use actual Devices) details of the alternative arrangements (which may include Test Stubs) to be used in their place (together with an explanation of how such arrangements will provide sufficient assurance that the Interface Testing Objective has been met), in which case there must also be a process describing whether and how to switch to the use of actual Devices as they become available;
- (g) where a Device Model is de-selected pursuant to the Device Selection Methodology, the process for switching to an alternate Device Model where practicable, or otherwise to Tests Stubs or an alternative arrangement;
- (h) the process by which the DCC will facilitate the Parties undertaking and completing the User Entry Process Tests (which process shall be consistent with the relevant requirements of Section H14 (Testing Services), subject only to amendments reasonably required for the purposes of Interface Testing);
- (i) how, to the extent it is reasonably practicable to do so, the DCC will allow persons who are eligible to undertake User Entry Process Tests (pursuant to the Interface Testing Approach Document) to undertake those tests concurrently

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(provided that, where it is not reasonably practicable to do so, the DCC shall give priority to completion of the User Entry Process Tests by the Supplier Parties);

- (j) a Good Industry Practice methodology for determining whether or not the Interface Testing Objective has been achieved in respect of each Region, including details of the exit criteria to be achieved and the level of assurance that will be delivered by achievement of those exit criteria (including, as described in Section T3.27, completion of User Entry Process Tests for that Region by two Large Supplier Parties and (where applicable pursuant to Section T3.21) by at least one Network Party in respect of the ‘Electricity Distributor’ User Role and/or at least one Network Party in respect of the ‘Gas Transporter’ User Role); and
- (k) how the DCC will report to the Panel where the DCC considers that the exit criteria referred to in (j) above have been achieved in respect of a Region (providing evidence of such achievement), having consulted with the Registration Data Providers and the Parties who are obliged by this Section T3 to undertake the User Entry Process Tests.

Approval of Interface Testing Approach Document

T3.9 The DCC shall submit the Interface Testing Approach Document to the Panel for the Panel’s approval as fit for the purposes envisaged by this Section T3.

T3.10 Before submitting the Interface Testing Approach Document to the Panel, the DCC shall consult with the other Parties, the Panel and the Registration Data Providers regarding the Interface Testing Approach Document. When submitting the Interface Testing Approach Document to the Panel, the DCC shall also submit copies of the consultation responses received from the other Parties or the Registration Data Providers. In addition, the DCC shall publish such consultation responses (to the extent not marked confidential) on the DCC Website.

T3.11 Where the Panel decides not to approve the Interface Testing Approach Document submitted for approval, the Panel shall notify such decision to the DCC and the other Parties giving reasons for such decision. In such circumstances, the DCC shall:

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) revise the document to address such reasons;
- (b) re-consult with the other Parties and the Registration Data Providers; and
- (c) re-submit the document to the Panel for approval and comply with Section T3.10 (following which this Section T3.11 or Section T3.12 shall apply).

T3.12 Where the Panel decides to approve the Interface Testing Approach Document submitted for approval, the Panel shall notify such decision to the DCC, the other Parties and the Registration Data Providers giving reasons for such decision. In such circumstances, the DCC and each other Party and each Registration Data Provider shall have the ability (within the 14 days after notification by the Panel) to refer the matter to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs) to determine whether the Interface Testing Approach Document:

- (a) should be approved as fit for the purposes envisaged by this Section T3;
- (b) is not fit for the purposes envisaged by this Section T3, but will be deemed to be approved if it is revised by the DCC in accordance with the determination; or
- (c) is not fit for the purposes envisaged by this Section T3 and should be revised and re-submitted by the DCC in accordance with Section T3.11,

(which determination shall be final and binding for the purposes of this Code).

Commencement of Interface Testing

T3.13 Subject to Section T3.14, once the Interface Testing Approach Document has been approved by the Panel (or deemed to be approved by the Panel under Section T3.12(b)), the DCC shall publish the approved document on the DCC Website and give at least 6 months' (or such shorter period as the Secretary of State may direct) notice to the other Parties of the date on which Interface Testing is to commence. Where directed to do so by the Secretary of State, the DCC shall determine a revised commencement date for Interface Testing (provided that the DCC shall first consult on such date with such persons as the Secretary of State may specify in such direction), and shall (where specified by the Secretary of State in such direction) make consequential revisions to the Interface Testing Approach Document (which date (and, where relevant, revisions)

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

must be published at least 6 months (or such shorter period as the Secretary of State may direct) in advance of the date on which Interface Testing is to commence).

T3.14 Where the Panel’s approval of the Interface Testing Approach Document is appealed by one or more persons under Section T3.12, the Panel may nevertheless direct that the matter appealed is not of a nature that should delay publication and the giving of notice under Section T3.13, in which case the DCC shall publish the document and give notice under Section T3.13 (noting the appeal). Subject to the foregoing provisions of this Section T3.14, the DCC shall not publish the Interface Testing Approach Document and give notice under Section T3.13 where the Panel’s decision has been appealed under Section T3.12 (pending the approval of the document thereunder or revision in accordance with a determination made under Section T3.12(b)).

T3.15 Prior to the commencement of Interface Testing and in accordance with the Interface Testing Approach document, the DCC shall assess whether or not each Large Supplier Party (and, where directed pursuant to Section T3.21, each Network Party) meets the entry criteria referred to in Section T3.8(b), and report to the Panel and that Party on the same. Each Large Supplier Party (and, where directed pursuant to Section T3.21, each Network Party) shall:

- (a) take all reasonable steps to ensure that it meets the entry criteria referred to in Section T3.8(b) by the date required in accordance with the Interface Testing Approach Document; and
- (b) notify the Panel and the DCC as soon as reasonably practicable if the Party considers that it will not meet those criteria by that date.

T3.16 Section H14.16 (User Entry Process Tests) shall apply where there is any disagreement between the DCC and a Party as to whether that Party has met the entry criteria for the User Entry Process Tests (as modified by the Interface Testing Approach Document), provided that:

- (a) the Panel’s decision on any such matter may be appealed to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs), whose decision shall be final and binding for the purposes of this Code; and

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) in the case of the Parties referred to in Section T3.15, any such disagreement must be notified to the Panel within 14 days of the DCC notifying its assessment to that Party and any appeal must be brought within 14 days after the Panel's decision.

Interface Testing

T3.17 The DCC shall comply with its obligations under the approved Interface Testing Approach Document. The DCC shall ~~take reasonable steps~~~~use its reasonable endeavours~~ to ensure that Interface Testing is completed as soon as it is reasonably practicable to do so.

T3.18 Each Network Party shall ensure that its Registration Data Provider complies with its obligations under the approved Interface Testing Approach Document.

T3.19 Each Party that undertakes the User Entry Process Tests prior to completion of Interface Testing shall do so in accordance with Section H14 (Testing Services) and the approved Interface Testing Approach Document.

T3.20 Each Large Supplier Party shall ~~use its reasonable endeavour~~~~stake reasonable steps~~ to commence the User Entry Process Tests as soon as reasonably practicable (in respect of the User Roles of 'Import Supplier' and/or 'Gas Supplier', depending on which Energy Supply Licence or Energy Supply Licences it holds). Each Large Supplier Party shall, on request, notify the Panel and the DCC of the Party's progress towards completing such User Entry Process Tests.

T3.21 Where directed to do so by the Secretary of State, each Network Party shall ~~take reasonable steps~~~~use its reasonable endeavours~~ to commence the User Entry Process Tests as soon as reasonably practicable (in respect of the User Roles of 'Electricity Distributor' or 'Gas Transporter', as applicable). Following any such direction, each Network Party shall, on request, notify the Panel and the DCC of the Party's progress towards completing such User Entry Process Tests.

T3.22 Section H14.21 (User Entry Process Tests) shall apply where there is any disagreement between the DCC and a Party as to whether that Party has completed the User Entry Process Tests (as modified by the Interface Testing Approach Document), provided that:

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the Panel’s decision on any such matter be appealed to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs), whose decision shall be final and binding for the purposes of this Code; and
- (b) in the case of the Parties referred to in Section T3.15, any such disagreement must be notified to the Panel within 14 days of the DCC notifying its assessment to that Party and any appeal must be brought within 14 days after the Panel’s decision.

T3.23 Where the DCC wishes to make amendments to the Interface Testing Approach Document (other than consequential revisions in accordance with Section T3.13), the DCC shall consult with the other Parties regarding those amendments and submit those amendments to the Panel (in accordance with Section T3.10) for approval (following which Sections T3.11 to T3.14 shall apply as if the references in those Sections to approval of the document were to approval of the amendments and as if the references in Sections T3.13 and T3.14 to giving notice were not included).

Completion of Interface Testing

T3.24 The DCC shall, once the DCC considers that the exit criteria (as envisaged by Section T3.8(j)) have been met in respect of any Region, in accordance with the Interface Testing Approach Document:

- (a) provide to the Panel a report evidencing that such criteria have been met;
 - (b) where relevant, list those sections of the report which the DCC considers should be redacted prior to circulation of the report to the Parties, where the DCC considers that those sections contain information which may pose a risk of Compromise to the DCC Total System, RDP Systems and/or User Systems; and
 - (c) apply to the Panel to determine whether or not such exit criteria have been met,
- and the DCC may either (as it reasonably considers appropriate in accordance with the Interface Testing Objective) do so in respect of individual Regions or some or all of the Regions collectively.

T3.25 On application of the DCC pursuant to Section T3.24, the Panel shall:

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) determine whether or not the exit criteria have been met;
- (b) notify its decision to the Secretary of State, the Authority and the Parties, giving reasons for its decision; and
- (c) direct the DCC to publish its report, subject to the redaction of those sections of the report which the Panel considers to contain information which may pose a risk of Compromise to the DCC Total System, RDP Systems and/or User Systems (which sections may or may not include those sections which the DCC proposed for redaction).

T3.26 Where the DCC has provided a report to the Panel in accordance with Section T3.24, the Panel shall provide a complete copy on request to the Secretary of State and/or the Authority.

T3.27 Subject to Section T3.28, Interface Testing shall be completed once the Panel has confirmed that the exit criteria referred to Section T3.8(j) have been met in respect of each and every Region, which must include (in respect of each Region) that the following persons have completed User Entry Process Tests (for that Region):

- (a) at least two Large Supplier Parties who are not an Affiliate of one another in respect of the ‘Import Supplier’ User Role, and at least two Large Supplier Parties who are not an Affiliate of one another in respect of the ‘Gas Supplier’ User Role; and
- (b) (only where applicable pursuant to Section T3.21) at least one Network Party in respect of the ‘Electricity Distributor’ User Role and/or at least one Network Party in respect of the ‘Gas Transporter’ User Role.

T3.28 Each Party shall have the ability (within the 14 days after notification by the Panel) to refer each of the Panel’s decisions pursuant to Section T3.25 to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs) to determine whether or not the exit criteria have been met in respect of the Region in question (which determination shall be final and binding for the purposes of this Code).

T3.29 Where, following the application of the DCC pursuant to Section T3.24, the Panel or

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the person which determines a referral under Section T3.28 determines that one or more of the exit criteria have not been met, the DCC shall undertake further testing in order to demonstrate that the exit criteria have been met and shall resubmit its report under Section T3.24.

Testing Issues

T3.30 Sections H14.37 to H14.45 (General: Testing Issue Resolution Process) shall apply for the purposes of Interface Testing. Each Party participating in Interface Testing shall be deemed to be a Testing Participant for such purposes, and may raise a Testing Issue in respect of Interface Testing.

T3.31 During Interface Testing, the DCC shall provide the Secretary of State with copies of the reports which are generated by the DCC or the DCC Service Provider in respect of Testing Issues (without redacting those reports as ordinarily required by Sections H14.37 to H14.45).

Definitions of Large and Small Suppliers

T3.32 For the purpose of this Section T3, the question of whether a Supplier Party is a Large Supplier or a Small Supplier shall be assessed at the time that this Code is first modified to include this Section T3.32.

T3.33 Each Supplier Party that is a Large Supplier in accordance with Section T3.32 shall notify the DCC of their status as such within one month after the time that this Code is first modified to include Section T3.32.

Additional Interface Testing

T3.34 On each occasion that the Secretary of State so directs for the purpose of this Section T3.34, the DCC shall undertake testing against the Interface Testing Objective in respect of such Services that have not previously been the subject of testing under this Section T3 as the Secretary of State may direct (each such round of testing being “**Additional Interface Testing**”).

T3.35 The purpose of each round of Additional Interface Testing shall be to demonstrate the Interface Testing Objective as described in Sections T3.2 and T3.3, but subject to the

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

following variations (the Interface Testing Objective as so varied being the **"Additional Interface Testing Objective"**):

- (a) the only variations pursuant to Section X (Transition) that will be taken into account in interpreting the relevant Sections are those that will continue to apply following commencement of the provision of the Services that are the subject of that round of Additional Interface Testing; and
- (b) the Additional Interface Testing Objective shall not apply by reference to the document published from time to time by the Secretary of State for the purpose of Section T3.3(b), but instead by reference to the document published from time to time by the Secretary of State for the purposes of that round of Additional Interface Testing.

T3.36 The provisions of this Section T3 shall apply to each round of Additional Interface Testing, subject to the following:

- (a) all references in this Section T3 to "Interface Testing" shall be read as references to "the relevant round of Additional Interface Testing";
- (b) Sections T3.34 and T3.35 shall apply in place of Sections T3.2 and T3.3; for which purpose it is acknowledged that some of the capability and interoperability to be demonstrated via Additional Interface Testing will already have been demonstrated via previous testing undertaken pursuant to this Section T3 (and further testing of such capability or interoperability shall not be required to the extent that it has already been sufficiently proven for the Additional Interface Testing Objective as part of such earlier testing);
- (c) the Additional Interface Testing shall be undertaken only in respect of the Region or Regions directed by the Secretary of State;
- (d) to the extent that the Additional Interface Testing relates to Additional Release Services, the references to User Entry Process Tests in Sections T3.16, T3.19, T3.20, T3.21, T3.22 and T3.27 shall be read as references to the corresponding Additional SR Tests;
- (e) the Interface Testing Approach Document shall apply to the Additional

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Interface Testing (without prejudice to the DCC's ability to make changes to the Interface Testing Approach Document in accordance with this Section T3);

- (f) one month's notice must be given by the DCC in advance of commencement of Additional Interface Testing (or such shorter period as the Secretary of State may direct);
- (g) the Device Models to be used for Additional Interface Testing are those selected pursuant to the previous phase of testing pursuant to this Section T.

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T4 END-TO-END TESTING

Overview

T4.1 End-to-End Testing allows for provision of the User Entry Process Tests and Device and User System Tests, subject to any modifications necessary for the purposes of transition.

Overlapping Provision of Interface Testing and End-to-End Testing

T4.2 Prior to the start of End-to-End Testing, the DCC may recommend to the Panel, having regard to the overriding objective of completing Interface Testing in a timely manner, that End-to-End Testing should be provided from the commencement of or from some point during Interface Testing. Where the DCC so recommends, it must provide a report to the Panel on the benefits and risks of the DCC providing End-To-End Testing in parallel with Interface Testing (rather than following completion of Interface Testing). Prior to submitting its report to the Panel, the DCC shall consult with the other Parties regarding the recommendation. The DCC shall also submit copies of the consultation responses received from Parties. Where it has submitted its report to the Panel, the DCC shall publish the report and such consultation responses (to the extent that they are not marked confidential) on the DCC Website.

T4.3 Where the Panel agrees with the DCC’s recommendation pursuant to Section T4.2, then End-to-End Testing shall commence from the time recommended (notwithstanding the notice period in Section T4.9). Otherwise, End-to-End Testing shall commence on completion of Interface Testing (or such later date as is necessary to allow compliance with Section T4.9).

End-to-End Testing Approach Document

T4.4 The DCC shall develop a document (the “**End-to-End Testing Approach Document**”) which sets out:

- (a) the manner in which User Entry Process Tests and Device and User System Tests are to be provided during End-to-End Testing, which shall be consistent with the relevant requirements of Section H14 (Testing Services) subject only to amendments reasonably required for the purposes of transition;

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (b) that, to the extent it is reasonably practicable to do so, the DCC shall allow persons who are eligible to undertake tests pursuant to the End-to-End Testing Approach Document to undertake those tests concurrently (provided that, where it is not reasonably practicable to do so, the DCC shall give priority to completion of the User Entry Process Tests by the Supplier Parties during the period prior to the completion of Interface Testing and the DCC shall otherwise schedule Testing Participants as is reasonable for the purposes of transition); and
- (c) the latest date from which the DCC will first make Test Communications Hubs available pursuant to Section F10 (Test Communications Hubs).

Approval of End-to-End Testing Approach Document

T4.5 The DCC shall submit the End-to-End Testing Approach Document to the Panel for the Panel's approval as fit for the purposes envisaged by this Section T4.

T4.6 Before submitting the End-to-End Testing Approach Document to the Panel, the DCC shall consult with the other Parties, the Panel and those persons entitled to undertake Device and User System Tests regarding the End-to-End Testing Approach Document. When submitting the End-to-End Testing Approach Document to the Panel, the DCC shall also submit copies of the consultation responses received from the other Parties and such persons. In addition, the DCC shall publish such consultation responses (to the extent not marked confidential) on the DCC Website.

T4.7 Where the Panel decides not to approve the End-to-End Testing Approach Document submitted for approval, the Panel shall notify such decision to the DCC and the other Parties giving reasons for such decision. In such circumstances, the DCC shall:

- (a) revise the document to address such reasons;
- (b) re-consult with the other Parties and those persons entitled to undertake Device and User Systems Tests; and
- (c) re-submit the document to the Panel for approval and comply with Section T4.6 (following which this Section T4.7 or Section T4.8 shall apply).

T4.8 Where the Panel decides to approve the End-to-End Testing Approach Document

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

submitted for approval, the Panel shall notify such decision to the DCC, the other Parties and the other persons who provided consultation responses in accordance with Section T4.6, giving reasons for such decision. In such circumstances, the DCC and each other Party shall have the ability (within the 14 days after notification by the Panel) to refer the matter to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs) to determine whether the End-to-End Testing Approach Document:

- (a) should be approved as fit for the purposes envisaged by this Section T4;
- (b) is not fit for the purposes envisaged by this Section T4, but will be deemed to be approved if it is revised by the DCC in accordance with the determination; or
- (c) is not fit for the purposes envisaged by this Section T4 and should be revised and re-submitted by the DCC in accordance with Section T4.7,

(and any such determination shall be final and binding for the purposes of this Code).

Commencement of End-to-End Testing

T4.9 Subject to Section T4.10, once the End-to-End Testing Approach Document has been approved by the Panel (or deemed to be approved by the Panel under Section T4.8(b)), the DCC shall publish the approved document on the DCC Website and (subject to Section T4.3) give at least 6 months' prior notice to Testing Participants of the date on which End-to-End Testing is to commence (or such shorter period as the Secretary of State may direct). Where directed to do so by the Secretary of State, the DCC shall determine a revised commencement date for End-to-End Testing (provided that the DCC shall first consult on such date with such persons as the Secretary of State may specify in such direction), and shall (where specified by the Secretary of State in such direction) make consequential revisions to the End-to-End Testing Approach Document (which date (and, where relevant, revisions) must be published at least 6 months (or such shorter period as the Secretary of State may direct) in advance of the revised date on which End-to-End Testing is to commence).

T4.10 Where the Panel's approval of the End-to-End Testing Approach Document is appealed by one or more persons, the Panel may nevertheless direct that the matter appealed is not of a nature that should delay publication and the giving of notice under Section

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T4.9, in which case the DCC shall publish the document and give notice under Section T4.9 (noting the appeal). Subject to the foregoing provisions of this Section T4.10, the DCC shall not publish the End-to-End Testing Approach Document and give notice under Section T4.9 where the Panel's decision has been appealed under Section T4.8 (pending the approval of the document thereunder or revision in accordance with a determination made under Section T4.8(b)).

End-to-End Testing

T4.11 The DCC shall comply with its obligations under the approved End-to-End Testing Approach Document.

T4.12 Each Party that seeks to undertake User Entry Process Tests or Device and System Tests during End-to-End Testing shall do so in accordance with the approved End-to-End Testing Approach Document. Where the DCC is to provide Testing Services during End-to-End Testing to a person that is not a Party, the DCC shall act in accordance with any relevant provisions of the End-to-End Testing Approach Document.

T4.13 Where the DCC wishes to make amendments to the End-to-End Testing Approach Document (other than consequential revisions in accordance with Section T4.9), the DCC shall consult with the other Parties, the Panel and those persons entitled to undertake Device and User System Tests regarding those amendments and submit those amendments to the Panel (in accordance with Section T4.6) for approval (following which Sections T4.7 to T4.10 shall apply as if the references in those Sections to approval of the document were to approval of the amendments and as if the references in Section T4.9 and T4.10 to giving notice were not included).

Disputes

T4.14 Section T3.16 shall apply during Interface Testing in respect of the entry criteria for the User Entry Process Tests. Otherwise, in the case of those disputes relating to User Entry Process Tests and Device and User System Tests that would ordinarily be subject to the Authority's determination pursuant to Section H14 (Testing Services), during End-to-End Testing, the Secretary of State may direct that such disputes are determined by the Secretary of State (or, where the Secretary of State so directs such other person

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

as the Secretary of State directs), rather than the Authority. The determination of such disputes by the Secretary of State (or such other person as the Secretary of State directs) shall be final and binding for the purposes of this Code.

Completion of End-to-End Testing

T4.15 Subject to Section T4.17, End-to-End Testing shall cease on the date 12 months after the date from which the ability to test all the Service Requests listed in the Common Test Scenarios Document has been provided, including those Service Requests that are originally deemed omitted by virtue of variations made under Section X3.6 (Provisions to be Effective Subject to Variations).

T4.16 During the third month prior to the date on which End-to-End Testing is due to complete in accordance with Section T4.15 (or at such other time as the DCC and the Panel may agree), the DCC shall submit a recommendation to the Panel as to whether or not the period of End-to-End Testing should be extended by an additional 6 months. Prior to submitting such recommendation to the Panel, the DCC shall consult the Testing Participants on the matter. When submitting such recommendation to the Panel, the DCC shall also submit copies of any consultation responses received from the Testing Participants. The DCC shall publish such consultation responses (to the extent not marked confidential) on the DCC Website.

T4.17 The Panel shall, after receipt of the DCC's recommendation in accordance with Section T4.16, decide whether or not the period of End-to-End Testing should be extended by an additional 6 months. The Panel shall notify the Testing Participants of its decision, and of the reasons for its decision. Where the Panel decides that the period of End-to-End Testing should be extended by an additional 6 months, then End-to-End Testing shall end on the date 18 months after the date it started (which decision shall be final and binding for the purposes of this Code).

Testing Issues

T4.18 Sections H14.37 to H14.45 (General: Testing Issue Resolution Process) shall apply for the purposes of End-to-End Testing. Each Party participating in User Entry Process Tests or Device and System Tests during End-to-End Testing shall be deemed to be a Testing Participant for such purposes, and may raise a Testing Issue in respect of

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

End-to-End Testing.

T4.19 During End-to-End Testing, the DCC shall provide the Secretary of State with copies of the reports which are generated by the DCC or the DCC Service Provider in respect of Testing Issues (without redacting those reports as ordinarily required by Sections H14.37 to H14.45).

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T5 SMKI AND REPOSITORY TESTING

Overview

T5.1 SMKI and Repository Testing tests the capability of the DCC and the component parts of the DCC Systems to interoperate with the Systems of Parties to the extent necessary for the SMKI Services and the SMKI Repository Service.

SRT Objective

T5.2 The objective of SMKI and Repository Testing (the “**SRT Objective**”) is to demonstrate that the DCC and the DCC Systems interoperate with each other and with Systems of Parties to the extent necessary in order that the DCC is capable of complying with its obligations under Section L (Smart Metering Key Infrastructure) at (during the relevant period) the levels of activity reasonably anticipated during the relevant period, and (thereafter) the levels of activity set out in Section L (Smart Metering Key Infrastructure). For the purposes of this Section T5.2, the relevant period is the period from commencement of the SMKI Services until the date from which Smart Meters are capable of being Commissioned pursuant to Section H5 (Smart Metering Inventory and Enrolment Services).

T5.3 For the purposes of Section T5.2, the Sections referred to in that Section shall be construed by reference to:

- (a) the decision or consultation document concerning the intended future content of those Sections most recently published by the Secretary of State prior to 14 April 2016 (regardless of whether the content of those documents has yet been incorporated into this Code or whether those Sections yet have effect, but taking into account any variations to this Code pursuant to Section X (Transition) that apply (or are due to apply on the Section or a relevant Subsidiary Document coming into effect) and that will continue to apply following the date on which the provisions in relation to the Issue of Device Certificates and Organisation Certificates under Section L3 (SMKI Services) take effect); and
- (b) to the extent not inconsistent with any document referred to in (a), any document regarding technical or procedural requirements which support those Sections which is published from time to time by the Secretary of State for the

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

purposes of this Section T5.3.

T5.4 From the date on which the SMKI and Repository Entry Process Tests can be commenced (as set out in the SRT Approach Document), Parties who wish to do so, and who are ready to do so in accordance with the entry criteria for the SMKI and Repository Entry Process Tests, shall be able to undertake the SMKI and Repository Entry Process Tests (pursuant to Section H14 (Testing Services)).

SRT Approach Document

T5.5 The DCC shall develop a document (the “**SRT Approach Document**”) which sets out:

- (a) the reasonable entry criteria to be satisfied by the DCC with respect to the DCC Systems and the Communications Hubs selected pursuant to Section T1 prior to commencement of SMKI and Repository Testing;
- (b) the entry criteria to be met by each Party prior to its commencing the SMKI and Repository Entry Process Tests (which criteria shall be consistent with the relevant requirements of Section H14 (Testing Services), subject only to amendments reasonably required for the purposes of SMKI and Repository Testing);
- (c) the manner in which SMKI and Repository Testing is to be undertaken, including the respective obligations of the DCC and each other Party;
- (d) a reasonable timetable for undertaking and completing SMKI and Repository Testing (including the date from which the SMKI and Repository Entry Process Tests can be commenced);
- (e) the frequency and content of progress reports concerning SMKI and Repository Testing to be provided by the DCC to the Panel (which the Panel shall make available to the Secretary of State, the Authority and Testing Participants), which reports must include details of Testing Issues identified and resolved and of any problems and solutions encountered with respect to Devices (the details of such Testing Issues to be anonymised and redacted as required in accordance with Section H14.44 (General: Testing Issue Resolution Process));
- (f) the process by which the DCC will facilitate Parties undertaking and completing

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

the SMKI and Repository Entry Process Tests (which process shall be consistent with the relevant requirements of Section H14 (Testing Services), subject only to amendments reasonably required for the purposes of SMKI and Repository Testing);

- (g) a Good Industry Practice methodology for determining whether or not the SRT Objective has been achieved, including details of the exit criteria to be achieved and the level of assurance that will be delivered by achievement of those exit criteria (including completion of SMKI and Repository Entry Process Tests by two Large Supplier Parties as described in Section T5.20); and
- (h) how the DCC will report to the Panel where the DCC considers that the exit criteria referred to in (g) above have been achieved (providing evidence of such achievement), having consulted with the Parties who have participated in SMKI and Repository Testing.

Approval of SRT Approach Document

T5.6 The DCC shall submit the SRT Approach Document to the Panel for the Panel's approval as fit for the purposes envisaged by this Section T5.

T5.7 Before submitting the SRT Approach Document to the Panel, the DCC shall consult with the other Parties, the Panel and the SMKI PMA regarding the SRT Approach Document. When submitting the SRT Approach Document to the Panel, the DCC shall also submit copies of the consultation responses received from the other Parties. In addition, the DCC shall publish such consultation responses (to the extent not marked confidential) on the DCC Website.

T5.8 The Panel shall consult with the SMKI PMA prior to deciding whether or not to approve the SRT Approach Document submitted for approval.

T5.9 Where the Panel decides not to approve the SRT Approach Document submitted for approval, the Panel shall notify such decision to the DCC and the other Parties giving reasons for such decision. In such circumstances, the DCC shall:

- (a) revise the document to address such reasons;
- (b) re-consult with the other Parties; and

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (c) re-submit the document to the Panel for approval and comply with Section T5.7 (following which Section T5.8 shall apply and this Section T5.9 or Section T5.10 shall apply).

T5.10 Where the Panel decides to approve the SRT Approach Document submitted for approval, the Panel shall notify such decision to the DCC and the other Parties giving reasons for such decision. In such circumstances, the DCC and each other Party shall have the ability (within the 14 days after notification by the Panel) to refer the matter to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs) to determine whether the SRT Approach Document:

- (a) should be approved as fit for the purposes envisaged by this Section T5;
- (b) is not fit for the purposes envisaged by this Section T5, but will be deemed to be approved if it is revised by the DCC in accordance with the determination; or
- (c) is not fit for the purposes envisaged by this Section T5 and should be revised and re-submitted by the DCC in accordance with Section T5.9,

(which determination shall be final and binding for the purposes of this Code).

Commencement of SMKI and Repository Testing

T5.11 Subject to Section T5.12, once the SRT Approach Document has been approved by the Panel (or deemed to be approved by the Panel under Section T5.10(b)), the DCC shall publish the approved document on the DCC Website and give at least 3 months' (or such shorter period as the Secretary of State may direct) notice to the other Parties of the date on which SMKI and Repository Testing is to commence. Where directed to do so by the Secretary of State, the DCC shall determine a revised commencement date for SMKI and Repository Testing (provided that the DCC shall first consult on such date with such persons as the Secretary of State may specify in such direction), and shall (where specified by the Secretary of State in such direction) make consequential revisions to the SRT Approach Document (which date (and, where relevant, revisions) must be published at least 3 months (or such shorter period as the Secretary of State may direct) in advance of the revised date on which SKMI and Repository Testing is to commence).

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T5.12 Where the Panel's approval of the SRT Approach Document is appealed by one or more persons under Section T5.10, the Panel may nevertheless direct that the matter appealed is not of a nature that should delay publication and the giving of notice under Section T5.11, in which case the DCC shall publish the document and give notice under Section T5.11 (noting the appeal). Subject to the foregoing provisions of this Section T5.12, the DCC shall not publish the SRT Approach Document and give notice under Section T5.11 where the Panel's decision has been appealed under Section T5.10 (pending the approval of the document thereunder or revision in accordance with a determination made under Section T5.10(b)).

T5.13 Prior to the date from when the SMKI and Repository Entry Process Tests can be commenced and in accordance with the SRT Approach document, the DCC shall assess whether or not each Large Supplier Party meets the entry criteria referred to in Section T5.5(b), and report to the Panel and that Party on the same. Each Large Supplier Party shall:

- (a) take all reasonable steps to ensure that it meets the entry criteria referred to in Section T5.5(b) prior to the date from which the SMKI and Repository Entry Process Tests can be commenced; and
- (b) notify the Panel and the DCC as soon as reasonably practicable if the Party considers that it will not meet those criteria prior to the date from which the SMKI and Repository Entry Process Tests can be commenced.

T5.14 Section H14.25 (SMKI and Repository Entry Process Tests) shall apply where there is any disagreement between the DCC and a Party as to whether that Party has met the entry criteria for the SMKI and Repository Entry Process Tests (as modified by the SRT Approach Document), provided that:

- (a) the Panel's decision on any such matter may be appealed to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs), whose decision shall be final and binding for the purposes of this Code; and
- (b) in the case of the Parties referred to in Section T5.13, such disagreement must be notified to the Panel within 14 days of the DCC notifying its assessment to that

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Party and any appeal must be brought within 14 days after the Panel's decision.

SMKI and Repository Testing

T5.15 The DCC shall comply with its obligations under the approved SRT Approach Document. The DCC shall ~~take reasonable steps~~~~use its reasonable endeavours~~ to ensure that SMKI and Repository Testing is completed as soon as it is reasonably practicable to do so.

T5.16 Each Party that undertakes the SMKI and Repository Entry Process Tests pursuant to the SRT Approach Document shall do so in accordance with Section H14 (Testing Services) and the approved SRT Approach Document.

T5.17 Each Large Supplier Party shall ~~take reasonable steps~~~~use its reasonable endeavours~~ to commence the SMKI and Repository Entry Process Tests as soon as reasonably practicable (in respect of all the roles to which the SMKI and Repository Entry Process Tests apply). Each Large Supplier Party shall, on request, notify the Panel and the DCC of the Party's progress towards completing such SMKI and Repository Entry Process Tests.

T5.18 Where the DCC wishes to make amendments to the SRT Approach Document (other than consequential revisions in accordance with Section T5.11), the DCC shall consult with the other Parties regarding those amendments and submit those amendments to the Panel (in accordance with Section T5.7) for approval (following which Sections T5.8 to T5.12 shall apply as if the references in those Sections to approval of the document were to approval of the amendments and as if the references in Sections T5.11 and T5.12 to giving notice were not included).

Completion of SMKI and Repository Testing

T5.19 The DCC shall, once the DCC considers that the exit criteria (as envisaged by Section T5.5(g)) have been met, in accordance with the SRT Approach Document:

- (a) provide to the Panel a report evidencing that such criteria have been met;
- (b) where relevant, list those sections of the report which the DCC considers should be redacted prior to circulation of the report to the Parties, where the DCC considers that those sections contain information which may pose a risk of

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Compromise to the DCC Total System, RDP Systems and/or User Systems; and

(c) apply to the Panel to determine whether or not such exit criteria have been met.

T5.20 Such exit criteria must include a requirement that at least two Large Supplier Parties who are not an Affiliate of one another have each completed the SMKI and Repository Entry Process Tests to become:

(a) an Authorised Subscriber under the Organisation Certificate Policy;

(b) an Authorised Subscriber under the Device Certificate Policy; and

(c) eligible to access the SMKI Repository.

T5.21 On application of the DCC pursuant to Section T5.19, the Panel shall:

(a) determine whether or not the exit criteria have been met;

(b) notify its decision to the Secretary of State, the Authority and the Parties, giving reasons for its decision ; and

(c) direct the DCC to publish its report, subject to the redaction of those sections of the report which the Panel considers to contain information which may pose a risk of Compromise to the DCC Total System, RDP Systems and/or User Systems (which sections may or may not include those sections which the DCC proposed for redaction).

T5.22 Where the DCC has provided a report to the Panel in accordance with Section T5.19, the Panel shall provide a complete copy on request to the Secretary of State and/or the Authority.

T5.23 Subject to Section T5.24, SMKI and Repository Testing shall be completed once the Panel has determined that the exit criteria referred to Section T5.5(g) have been met in respect of the Parties referred to in Section T5.20.

T5.24 Each Party shall have the ability (within the 14 days after notification by the Panel) to refer the Panel's decision pursuant to Section T5.21 to the Authority (or, where the Secretary of State so directs, to the Secretary of State or such other person as the Secretary of State directs) to determine whether or not the exit criteria have been met in

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

respect of the Parties referred to in Section T5.20 (which determination shall be final and binding for the purposes of this Code).

T5.25 Where, on the application of the DCC pursuant to Section T5.19, it has been determined that one or more of the exit criteria have not been met, the DCC shall undertake further testing in order to demonstrate that the exit criteria have been met and shall resubmit its report in accordance with Section T5.19.

Testing Issues

T5.26 Sections H14.37 to H14.45 (General: Testing Issue Resolution Process) shall apply for the purposes of SMKI and Repository Testing. Each Party participating in SMKI and Repository Testing shall be deemed to be a Testing Participant for such purposes, and may raise a Testing Issue in respect of SMKI and Repository Testing.

T5.27 During SMKI and Repository Testing, the DCC shall provide the Secretary of State with copies of the reports which are generated by the DCC or the DCC Service Provider in respect of Testing Issues (without redacting those reports as ordinarily required by Sections H14.37 to H14.45).

Definitions of Large and Small Suppliers

T5.28 For the purpose of this Section T5, the question of whether a Supplier Party is a Large Supplier or a Small Supplier shall be assessed at the time that this Code is first modified to include this Section T5.28.

T5.29 Each Supplier Party that is a Large Supplier in accordance with Section T5.28 shall notify the DCC of their status as such within one month after the time that this Code is first modified to include Section T5.28.

Additional SMKI and Repository Testing

T5.30 On each occasion that the Secretary of State so directs for the purpose of this Section T5.30, the DCC shall undertake testing against the SRT Objective in respect of such Services that have not previously been the subject of testing under this Section T5 as the Secretary of State may direct (each such round of testing being “**Additional SMKI and Repository Testing**”).

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T5.31 The purpose of each round of Additional SMKI and Repository Testing shall be to demonstrate the SRT Objective as described in Sections T5.2 and T5.3, but subject to the following variations (the SRT Objective as so varied being the "**Additional SRT Objective**"):

- (a) the only variations pursuant to Section X (Transition) that will be taken into account in interpreting the relevant Sections are those that will continue to apply following commencement of the provision of the Services that are the subject of that round of Additional SMKI and Repository Testing; and
- (b) the Additional SRT Objective shall not apply by reference to the document published from time to time by the Secretary of State for the purpose of Section T5.3(b), but instead by reference to the document published from time to time by the Secretary of State for the purposes of that round of Additional SMKI and Repository Testing.

T5.32 The provisions of this Section T5 shall apply to each round of Additional SMKI and Repository Testing, subject to the following:

- (a) all references in this Section T5 to "SMKI and Repository Testing" shall be read as references to "the relevant round of Additional SMKI and Repository Testing";
- (b) Sections T5.30 and T5.31 shall apply in place of Sections T5.2 and T5.3; for which purpose it is acknowledged that some of the capability and interoperability to be demonstrated via Additional SMKI and Repository Testing will already have been demonstrated via previous testing undertaken pursuant to this Section T5 (and further testing of such capability or interoperability shall not be required to the extent that it has already been sufficiently proven for the Additional SRT Objective as part of such earlier testing);
- (c) the SRT Approach Document shall apply to the Additional SMKI and Repository Testing (without prejudice to the DCC's ability to make changes to the SRT Approach Document in accordance with this Section T5);
- (d) no period of notice need be given by the DCC in advance of commencement of

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Additional SMKI and Repository Testing (unless otherwise directed by the Secretary of State);

- (e) the following Sections concerning commencement and completion of SMKI and Repository Entry Process Tests by Large Supplier Parties shall not apply: Sections T5.5(g), T5.13, T5.14, T5.16, T5.17, and T5.20; and
- (f) notwithstanding paragraph (e) above, Large Supplier Parties shall be required to participate in Additional SMKI and Repository Testing if so directed by the Secretary of State in respect of that round of Additional SMKI and Repository Testing and in the manner set out in such direction.

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T6 DEVELOPMENT OF ENDURING TESTING DOCUMENTS

Overview

T6.1 The Common Test Scenarios Document, the SMKI and Repository Test Scenarios Document and the Enduring Testing Approach Document are to be developed by the DCC pursuant to this Section T6, and incorporated into this Code pursuant to Section X5 (Incorporation of Certain Documents into this Code).

Purpose of the Test Scenarios Documents

T6.2 The purpose of each of the Common Test Scenarios Document and the SMKI and Repository Test Scenarios Document is set out in Section H14 (Testing Services).

T6.3 The Common Test Scenarios Document must include test scenarios for testing use of the Self-Service Interface and the DCC User Interface and any entry requirements (for particular User Roles) prior to execution of those tests. In respect of the DCC User Interface, such tests must include (for each User Role) a requirement for the successful testing of Service Requests for each Service set out in the DCC User Interface Services Schedule in respect of that User Role.

Purpose of the Enduring Testing Approach Document

T6.4 The purpose of the Enduring Testing Approach Document is to set out (in respect of persons who are eligible to undertake tests pursuant to the Testing Services) how and in what circumstances the Testing Services are to be provided, including details of:

- (a) the obligations with which the DCC and Testing Participants must comply in respect of the Testing Services (including in relation to security);
- (b) how the DCC will provide any Testing Services remotely (including over DCC Gateway Connections);
- (c) how the DCC will provide a connection to a simulation of the SM WAN pursuant to Section H14.31 (Device and User System Tests); and
- (d) how the DCC will make Test Certificates available pursuant to Section H14.11 (General: Test Certificates), which may make different provision in respect of

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

different categories of Test Certificates.

Process to Develop Documents

T6.5 The procedure by which the DCC is to develop each of the Common Test Scenarios Document, the SMKI and Repository Test Scenarios Document and the Enduring Testing Approach Document is as follows:

- (a) the DCC shall produce draft documents by such date as is reasonably necessary to meet the applicable date under Section T6.5(d);
- (b) in producing each draft document, the DCC must consult appropriately with the Parties;
- (c) where disagreements with the Parties arise concerning the proposed content of either document, the DCC shall seek to reach an agreed solution with them, but without prejudice to the purposes of the document;
- (d) having complied with (b) and (c) above, the DCC shall submit each draft document to the Secretary of State as soon as is reasonably practicable, and:
 - (i) in the case of the Common Test Scenarios Document and the SMKI and Repository Test Scenarios Document, in any case by the date seven months prior to the expected commencement date of Interface Testing as set out in the Interface Testing Approach Document (or such later date as the Secretary of State may direct); or
 - (ii) in the case of the Enduring Testing Approach Document, in any case by the date three months prior to the expected commencement date of End-to-End Testing as set out in the End-to-End Testing Approach Document (or such later date as the Secretary of State may direct);
- (e) when submitting a draft document under (d) above, the DCC shall indicate to the Secretary of State:
 - (i) why the DCC considers the draft to be fit for purpose;
 - (ii) copies of the consultation responses received; and

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (iii) any areas of disagreement that arose during the consultation process and that have not been resolved; and
- (f) the DCC must comply with the requirements with respect to process and timeframe of any direction that is given by the Secretary of State to resubmit either document.

SEC – Section T: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

T7 ENDING OF THE APPLICATION OF THIS SECTION T

T7.1 This Section T shall cease to apply, and this Code shall automatically be modified so as to delete this Section T, on the last to occur of the following:

- (a) completion of Interface Testing;
- (b) completion of End-to-End Testing; and
- (c) completion of SMKI and Repository Testing.

SECTION X: TRANSITION

X1 GENERAL PROVISIONS REGARDING TRANSITION

Overriding Nature of this Section

X1.1 The provisions of this Section X shall apply notwithstanding, and shall override, any other provision of this Code.

Transition Objective

X1.2 The objective to be achieved pursuant to this Section X (the “**Transition Objective**”) is the efficient, economical, co-ordinated, timely, and secure process of transition to the Completion of Implementation.

X1.3 The “**Completion of Implementation**” shall occur on the date designated for the purpose of this Section X1.3 by the Secretary of State (or such person as the Secretary of State may designate for the purposes of this Section X1.3), once the Secretary of State (or the person so designated) is of the opinion that:

- (a) the documents referred to in Section X5 and that the Secretary of State (or the person so designated) considers material to the implementation of this Code have been incorporated into this Code in accordance with that Section;
- (b) the provisions of this Code that the Secretary of State (or the person so designated) considers material to the implementation of this Code apply in full without any variation pursuant to this Section X (or, where any such variations do apply, the requirements of Sections X1.3(c) will still be met despite such variations ending in accordance with Section X1.5(a)); and
- (c) each Party that holds an Energy Licence is (or would be had such Party acted in accordance with Good Industry Practice) reasonably able (on the assumption that such Party acts in accordance with Good Industry Practice) to perform its obligations, and to exercise its rights, under this Code to the extent that the Secretary of State (or the person so designated) considers such obligations or rights material to the implementation of this Code.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X1.4 Before designating a date for the purpose of Section X1.3, the Secretary of State (or the person designated for the purposes of this Section X1.3) must consult the Authority, the Panel and the Parties in respect of the proposed date. Such consultation must allow such period of time as the Secretary of State (or the person so designated) considers appropriate in the circumstances within which representations or objections may be made.

Ending of the Application of this Section X

X1.5 With effect from the earlier of:

- (a) Completion of Implementation; or
- (b) 31 October 2018,

this Section X (and any variations to this Code provided for in, or made by directions pursuant to, this Section X) shall cease to apply (save as set out in Section X5.8), and this Code shall automatically be modified so as to delete this Section X.

General Obligations

X1.6 Each Party shall take all reasonable steps to do all such things as are within its power and necessary or expedient in order to facilitate achievement of the Transition Objective.

X1.7 Each Party shall provide such reasonable co-operation and assistance to the other Parties and to the Panel as may be necessary to facilitate compliance with the provisions of this Section X, and with any variations to this Code provided for in (or made by directions pursuant to) this Section X.

X1.8 Without prejudice to its legal rights, no Party shall take any step, or exercise any right, which is intended to (or might reasonably be expected to) hinder or frustrate the achievement of the Transition Objective.

Information

X1.9 Each Party shall provide to the Secretary of State, in such manner and at such times as the Secretary of State may reasonably require, such Data as the Secretary of State may

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

reasonably require in order to enable the Secretary of State to assess progress towards (and to facilitate) achievement of the Transition Objective. No Party shall be obliged to provide information under this Section X1.9 where such Party is obliged to provide such information under its Energy Licence, or where such information is expressly excluded from the information that such Party is obliged to provide under its Energy Licence.

X1.10 If a Party is aware of any matter or circumstance which it considers will materially delay or frustrate the achievement of the Transition Objective, that Party shall promptly inform the Secretary of State of such matter or circumstance.

Network Parties to become Subscribers

X1.11 Prior to the commencement of the provision of Enrolment Services by the DCC pursuant to Section H5 (Smart Metering Inventory and Enrolment Services), each Network Party shall ensure that it has become a Subscriber for those Organisation Certificates which pertain to it and that are required by Responsible Suppliers for the purpose of complying with their obligations under Clause 5 (Post-Commissioning Obligations) of the Inventory Enrolment and Withdrawal Procedures.

Day-One Elective Communication Services

X1.12 Where the Secretary of State designates one or more draft Bilateral Agreements for the purposes of this Section X1.12 (each of which drafts must specify the potential Elective Communication Services to be provided thereunder, and the DCC's potential counterparty thereunder), then:

- (a) the DCC shall, within 10 Working Days thereafter, make a formal offer to each of the counterparties in question for the Elective Communication Services in question as if Section H7.12 (Formal Offer) applied;
- (b) such offer shall be on the basis of the draft Bilateral Agreement designated by the Secretary of State (subject only to the addition of the applicable Elective Charges, any termination fee and any credit support requirements);
- (c) the counterparty shall be under no obligation to accept such offer; and

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (d) any agreement entered into pursuant to this Section X1.12 shall be a Bilateral Agreement.

Disputes

X1.13 In the event of any dispute between the Parties (or between the Panel and any Party) as to whether a particular Party is obliged to undertake a particular activity pursuant to Section X1.6 to X1.12 (inclusive), a Party (or the Panel) may refer the matter to the Secretary of State (or, where designated by the Secretary of State for such purposes, the Panel or the Authority) for determination (which determination may include a requirement to comply with such terms and conditions as the person making it considers appropriate in all the circumstances of the case). Any determination by the Secretary of State or by the Authority pursuant to this Section X1.13 shall be final and binding for the purposes of this Section X1. Any determination by the Panel pursuant to this Section X1.13 shall be subject to appeal to the Secretary of State (or, where designated by the Secretary of State for such purposes, to the Authority), the determination of such appeal being final and binding for the purposes of this Section X1.

Modification of this Section X

X1.14 The variations to this Code provided for in, or made by directions pursuant to, this Section X shall not constitute modifications that should be subject to Section D (Modification Process). For the avoidance of doubt, this Section X shall be capable of being modified under Section D (Modification Process).

SECCo

X1.15 The provisions of this Section X1 (and the definitions used in this Section) shall apply to SECCo as if SECCo was a Party.

Publication of Draft Subsidiary Documents by the DCC

X1.16 Where, pursuant to this Code or the DCC Licence, the DCC is required to prepare or produce and to consult upon a draft (or further draft) of a document (or to resubmit a document) that is intended to be incorporated into this Code as a SEC Subsidiary Document, the DCC shall, at or around the same time as the DCC sends such

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

document to the Secretary of State, publish on the DCC Website:

- (a) a copy of the document sent to the Secretary of State; and
- (b) a summary of any material comments raised in response to the consultation and a brief description of the reasons why any associated changes to the document were or were not made.

Testing in respect of Additional Release Services

X1.17 A Party seeking to become a User for a particular User Role must undertake the User Entry Process Tests relevant to that User Role, as described in Sections H1 (User Entry Process) and H14 (Testing). Completion of User Entry Process Tests by certain Parties in relation to certain User Roles also forms part of Interface Testing under Section T3 (Interface Testing), and (for so long as Section T4 (End-to-End Testing) applies) User Entry Process Test are to be undertaken as part of End-to-End Testing. Certain Services are only available to Parties that have become a User for the applicable User Role, as described in Section H3 (DCC User Interface) and the DCC User Interface Services Schedule. Where the Secretary of State makes directions pursuant to Section X3 (Provisions to Become Effective Following Designation) whereby the Common Test Scenarios Document is varied on it first becoming effective so that there are Service Requests that are deemed to be omitted from the document, then the following provisions shall apply:

- (a) the Service Requests that are subject to such a direction shall, for so long as the variation in respect of that Service Request remains in effect, be "**Additional Release Services**";
- (b) Parties that start User Entry Process Tests at a time where there are Additional Release Services shall undertake (and be able to successfully complete) the User Entry Process Tests without reference to those Additional Release Services;
- (c) a User that completes User Entry Process Tests that did not include testing of Service Requests that used to be (but are no longer) Additional Release Services shall (notwithstanding any other provision of this Code) not be an

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Eligible User for those Service Requests until that User has successfully completed the applicable Additional SR Tests for those Service Requests; and

- (d) "**Additional SR Tests**" means, in respect of one or more Service Requests that used to be (but are no longer) Additional Release Services, testing equivalent to User Entry Process Tests but undertaken only in respect of those Service Requests. Accordingly, and without limitation, the following shall apply:
- (i) Additional SR Tests shall constitute a Testing Service, and shall therefore be subject to the provisions of Section H14 (Testing Services);
 - (ii) Additional SR Tests shall be provided by the DCC, and shall be capable of being undertaken by Parties, in accordance with Sections H14.12 to H14.21 (User Entry Process Tests), but:
 - (A) construed by reference to only those relevant Service Requests;
 - (B) where a Party has already demonstrated capability for the purposes of User Entry Process Tests, this can be relied upon for the purposes of the Additional SR Tests (unless the DCC considers that this is not appropriate for those Additional SR Tests);
 - (C) potentially (as provided for in the Common Test Scenarios Document) without the need to re-test the DCC Gateway Connection;
 - (D) without the need to re-test the Self-Service Interface; and
 - (E) subject to any other exceptions provided for in the Common Test Scenarios Document; and
- (e) any provisions from time to time applying to User Entry Process Tests pursuant to the Interface Testing Approach Document or the End-to-End Testing Approach Document shall apply equally to Additional SR Tests (unless otherwise set out in those approach documents).

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

DCC Live Services Criteria Report

X1.18 This Section X1.18 shall apply where the DCC produces a report concerning its readiness to commence provision of the Services (or any part of the Services), and where the Secretary of State directs the Panel to review that report. Where this Section X1.18 applies, the Panel shall review the DCC's report and report to the Secretary of State in accordance with the criteria, scope and timing specified in the Secretary of State's direction.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X2 EFFECTIVE PROVISIONS AT DESIGNATION

Provisions to have Effect from Designation

X2.1 The following Sections, Schedules and SEC Subsidiary Documents shall be effective from the date of this Code's designation (subject to the other provisions of this Section X):

- (a) Section A (Definitions and Interpretation);
- (b) Section B (Accession);
- (c) Section C (Governance);
- (d) Section D (Modification Process);
- (e) Section E (Registration Data);
- (f) Section K (Charging Methodology);
- (g) Section M (General);
- (h) Section X (Transition);
- (i) Schedule 1 (Framework Agreement);
- (j) Schedule 2 (Specimen Accession Agreement);
- (k) Schedule 4 (Establishment of SECCo);
- (l) Schedule 5 (Accession Information); and
- (m) Schedule 6 (Specimen Form Letter of Credit).

Effectiveness of Section J

X2.2 Section J (Charges) shall be effective (subject to the other provisions of this Section X) from the earlier of:

- (a) the date three months after the date of this Code's designation; or
- (b) the date notified by the DCC to the other Original Parties on not less than 10

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Working Days prior notice (on the basis that the DCC may only specify one such date from which date all of Section J shall be effective),

provided that the DCC shall be entitled to recover Charges in respect of the period from the designation of this Code.

Variations in respect of Section D

X2.3 Notwithstanding that Section D (Modifications) is stated in Section X2.1 to be effective, it shall, until the date designated by the Secretary of State for the purposes of this Section X2.3, apply as varied by this Section X2.3. The variations to apply pursuant to this Section X2.3 are that Section D (Modifications) is to apply subject to the following:

- (a) the only Modification Proposals that may be raised are:
 - (i) subject to paragraph (b), a Path 2 Modification or a Path 3 Modification which is not an Urgent Proposal;
 - (ii) a Fast-Track Modification which is not an Urgent Proposal; and
 - (iii) a Modification Proposal of any type that is an Urgent Proposal;
- (b) where either a Path 2 Modification or Path 3 Modification which is not an Urgent Proposal is raised, Section D (Modifications) shall apply to the Modification Proposal subject to the following variations:
 - (i) Section D8.20 (Communicating the Change Board Vote) shall apply as if each reference in that Section to "the Authority" referred to "the Secretary of State and the Authority";
 - (ii) the following provisions shall apply as if each reference in them to "the Authority" referred to "the Secretary of State": Section D8.3(a) (Effect of Change Board Decision); Section D9.2 (Path 1 Modifications and Path 2 Modifications); Section D9.3 (Send-Back Process); Section D9.4 (Path 3 Modifications); and Sections D10.5 and D10.6 (Subsequent Amendment to Implementation Timetable);
- (c) any Modification Proposal that is raised by a Proposer on the basis that it is

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

urgent, but which is subsequently determined by the Authority (as provided for in Section D4) not to be an Urgent Proposal, shall be cancelled and shall not be progressed;

- (d) the Secretary of State shall be entitled to direct the Panel to cancel or suspend any Modification Proposal, in which case the Panel shall cancel or suspend the Modification Proposal in question and it shall not then be further progressed or implemented (or, in the case of suspension, shall not then be further progressed or implemented until the Secretary of State so directs); and
- (e) the Change Board need not be established on the designation of this Code, but the Panel shall establish the Change Board as soon as reasonably practicable after the designation of this Code, and until the Change Board is established the Panel shall perform the function of the Change Board in respect of Modification Proposals (in which case, the Panel shall vote on whether to approve or reject a Modification Proposal in accordance with the Panel Objectives and on the basis of a simple majority).

Variations in respect of Section E

X2.4 Notwithstanding that Section E (Registration Data) is stated in Section X2.1 to be effective, it shall, until the date designated by the Secretary of State for the purposes of this Section X2.4, apply as varied by this Section X2.4. The variations to apply pursuant to this Section X2.4 are that Section E (Registration Data) is to apply as if:

- (a) the information to be provided under Sections E2.1 and E2.2 is (subject to Section X2.4(b)) in respect of each Metering Point or Supply Meter Point (as applicable):
 - (i) the MPAN or MPRN (as applicable);
 - (ii) the identity of the person Registered for that Metering Point or Supply Meter Point (as applicable);
 - (iii) the identity of the Gas Network Party for the network to which the Supply Meter Point relates;
 - (iv) whether or not the Metering Point has a status that indicates that it is

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

energised;

- (v) whether or not the Supply Meter Point has a status that indicates that gas is offtaken at that point;
 - (vi) the profile class (as referred to in Section E2.1) relating to each such Metering Point; and
 - (vii) whether the Supply Meter Point serves a Domestic Premises or a Non-Domestic Premises;
- (b) the information to be provided under Section E2.2 in respect of the period until the end of the 15th of September 2015 (or such later date as the Secretary of State may direct) is capable of being provided either by reference to MPRNs or by reference to ‘Supply Point Registration Numbers’ (as defined in the UNC);
- (c) the text at Sections E2.3 and E2.4 (Obligation on the DCC to Provide Data) was deleted;
- (d) the text at Section E2.5 (Frequency of Data Exchanges) was replaced with “The Data to be provided in accordance with this Section E2 shall be provided or updated on the last Working Day of each month (or as soon as reasonably practicable thereafter), so as to show the position as at the end of the 15th day of that month” and the variation set out in this paragraph (d) shall be capable of being cancelled with effect from different dates in respect of Sections E2.1, E2.2 and E2.3 (and the obligation in Section E2.5 to provide a full set of Data on Section E2.5 coming into full force and effect shall be an obligation to provide a full set of Data under Section E2.1, E2.2 or E2.3 on the variation to Section E2.5 being cancelled in respect of that Section);
- (e) the text at Section E2.6 (Frequency of Data Exchanges) was replaced with “The Data to be provided in accordance with this Section E2 shall be provided in such format, and shall be aggregated in such manner, as the DCC may reasonably require in order to enable the DCC to comply with its obligations under the DCC Licence or this Code”; and

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (f) the text at Sections E2.7 to E2.11 (inclusive) and E2.13 was deleted .

Variations in respect of Section K

X2.5 Notwithstanding that Section K (Charging Methodology) is stated in Section X2.1 to be effective, it shall, until the date designated by the Secretary of State for the purposes of this Section X2.5, apply as varied by this Section X2.5. The variations to apply pursuant to this Section X2.5 are that:

- (a) in respect of the Fixed Charges payable for each of the months up to and including November 2013 (or such later month as the Secretary of State may direct), the DCC shall calculate the Fixed Charges as if there were no Export Suppliers and as if all Export Suppliers were Import Suppliers (and the DCC shall not therefore require data in respect of such months pursuant to Section E2.1 that distinguishes between Import MPANs and Export MPANs); and
- (b) insofar as the Registration Data provided to the DCC under Section E2.2 is by reference to ‘Supply Points’ (as defined in the UNC), rather than MPRNs, the DCC may calculate the number of Mandated Smart Metering Systems (as defined in Section K11.1) by reference to the number of such Supply Points.

Variations in respect of Section M

X2.6 Notwithstanding that Section M (General) is stated in Section X2.1 to be effective, it shall, until the date designated by the Secretary of State for the purposes of this Section X2.6, apply as varied by this Section X2.6. The variation to apply pursuant to this Section X2.6 is that Section M8.1(a) shall not apply.

General

X2.7 Where a Section is stated in this Section X2 to apply subject to more than one variation, then the Secretary of State may:

- (a) designate different dates from which each such variation is to cease to apply; and/or
- (b) designate a date from which one or more such variations are to cease to apply (without prejudice to the continued application of the other such variations).

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X2.8 Before designating any dates for the purpose of this Section X2, the Secretary of State must consult the Authority, the Panel and the Parties in respect of the proposed date. Such consultation must allow such period of time as the Secretary of State considers appropriate in the circumstances within which to make representations or objections with respect to the proposed date. The requirement for consultation may be satisfied by consultation before, as well as after, the designation of this Code.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X3 PROVISIONS TO BECOME EFFECTIVE FOLLOWING DESIGNATION

Effective Dates

X3.1 Each Section, Schedule and SEC Subsidiary Document (or any part thereof) not referred to in Section X2.1 or X2.2 shall only be effective from the date:

- (a) set out or otherwise described in this Section X3; or
- (b) designated in respect of that provision by the Secretary of State for the purpose of this Section X3.

X3.2 The following Sections, Schedules and Appendices shall be effective from the following dates (subject to the other provisions of this Section X):

- (a) the following provisions of Section F (Smart Metering System Requirements) shall have effect as follows:
 - (i) Section F1 (Technical Architecture and Business Architecture Subcommittee) shall have effect from the date on which this Code is first modified to include that Section;
 - (ii) Sections F4.1 (Operational Functionality), F4.2 to F4.4 (Interoperability with DCC Systems), F4.5 (Remote Access by the DCC), F4.6 and F4.7 (Physical Access to Devices by Parties) and F4.8 (Communications with Communication Hubs by DCC over the SM WAN) shall have effect from the date on which this Code is first modified to include this Section X3.2(a)(ii); and
 - (iii) Sections F4.10 to F4.14 (inclusive) (Communications Hub Procurement) shall have effect from the date on which this Code is first modified to include those Sections;
- (b) Section F5 (Communications Hub Forecasting and Orders) shall have effect from the date designated by the Secretary of State for the purposes of this Section X3.2(b);
- (c) Section F10 (Test Communications Hubs) shall have effect from the date on

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

which this Code is first modified to include that Section;

- (d) Section G (Security) shall have effect from the date on which this Code is first modified to include that Section;
- (e) Section I (Data Privacy) shall have effect from the date on which this Code is first modified to include Section I2 (Other User Privacy Audits);
- (f) Sections H10.1 to H10.8 (inclusive) (Emergency Suspension of Services) shall have effect from the date on which this Code is first modified to include those Sections;
- (g) Section H12 (Intimate Communications Hub Interface Specification) shall have effect from the date on which this Code is first modified to include this Section X3.2(g);
- (h) Section H13 (Performance Reporting) shall have effect from the date on which this Code is first modified to include this Section X3.2(h);
- (i) Section H14 (Testing Services) shall have effect as follows:
 - (i) Section H14.8 (General: Forecasting) shall have effect from the commencement of Interface Testing;
 - (ii) Section H14.11 (General: SMKI Test Certificates) shall have effect from the commencement of Systems Integration Testing; and
 - (iii) all the other provisions of Section H14 (Testing Services) shall have effect:
 - (A) in respect of the User Entry Process Tests, from the commencement of Interface Testing;
 - (B) in respect of the SMKI and Repository Entry Process Tests, from the date from which the SMKI and Repository Entry Process Tests can be commenced (as set out in the SRT Approach Document);
 - (C) in respect of Device and User System Testing, from the

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

commencement of End-to-End Testing;

- (D) in respect of Modification Proposal implementation testing (as described in Section H14.34), from the date on which Modification Proposals that are neither Urgent Proposals nor Fast Track Modifications may first be raised under Section D (Modifications); and
- (E) in respect of all other Testing Services, from the end of End-to-End Testing;
- (j) Sections L1 (SMKI Policy Management Authority), L2 (SMKI Assurance), L4 (The SMKI Service Interface), L6 (The SMKI Repository Interface), L8 (SMKI Performance Standards and Demand Management), L9 (The SMKI Document Set) and L10 (The SMKI Recovery Procedure) shall have effect from the date on which this Code is first modified to include those Sections;
- (k) Section N (SMETS1 Meters) shall have effect from the date on which this Code is first modified to include that Section;
- (l) Section T (Testing During Transition) shall have effect from the date on which this Code is first modified to include that Section;
- (m) Schedule 7 (Specimen Enabling Services Agreement) shall have effect from the date on which this Code is first modified to include that Schedule;
- (n) Appendices A (SMKI Device Certificate Policy), B (SMKI Organisation Certificate Policy) and C (SMKI Compliance Policy) shall all have effect from the date on which this Code is first modified to include those Appendices; and
- (o) Appendix F (Minimum Communication Services for SMETS1 Meters) shall have effect from the date on which this Code is first modified to include that Appendix.

Variations in respect of Section F

X3.3 Notwithstanding that Section F5 (Communications Hub Forecasting and Orders) is stated in Section X3.2 to be effective from a date to be designated, it shall apply once

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

effective as varied by this Section X3.3. For the purposes of this Section X3.3, the “**Initial Delivery Date**” shall be 1 November 2015 (or such later date as the Secretary of State may designate as such date for the purposes of this Section X3.3). The variations to apply pursuant to this Section X3.3 are that:

- (a) each Supplier Party shall (and each other Party that intends to order Communications Hubs may), subject to any contrary timings specified by the Secretary of State on designating the date from which Section F5 is to have effect:
 - (i) submit its first Communications Hub Forecast during the month ending nine months in advance of the start of the month in which the Initial Delivery Date occurs;
 - (ii) submit further Communications Hub Forecasts on a monthly basis until the month ending five months in advance of the month in which the Initial Delivery Date occurs (from which time further Communications Hub Forecasts shall be submitted without reference to this Section X3.3); and
 - (iii) ensure that the Communications Hub Forecasts submitted pursuant to this Section X3.3 cover a 24-month period commencing with the month in which the Initial Delivery Date occurs;
- (b) no Communications Order may specify a Delivery Date that is prior to the Initial Delivery Date;
- (c) until 1 June 2015 (or such later date as the Secretary of State may direct for the purposes of this Section X3.3(c)):
 - (i) the DCC shall not be obliged to make the CH Ordering System available;
 - (ii) Parties shall submit the Communications Hub Forecasts required in accordance with Section X3.3(a) by a secure means of communication (as reasonably determined by the DCC) using the template made available by the DCC for such purposes (such template to be in a

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

readily available and commonly used electronic format);

- (iii) the DCC shall accept Communications Hub Forecasts submitted by other Parties in accordance with Section X3.3(c)(ii), and shall take all reasonable steps to verify that the forecasts so submitted were submitted by the Party by which they are purported to have been submitted; and
- (iv) the DCC shall make the following information available to other Parties (using a readily available and commonly used electronic format), in respect of each post code area within Great Britain:
 - (A) that the SM WAN is expected to be available within that post code area on the date from which the Enrolment Services first become available;
 - (B) where the SM WAN is not expected to be available within that post code area on that date but is expected to be available within that postcode area before 1 January 2021, the date from which the SM WAN is expected to first become available within that post code area; or
 - (C) that the SM WAN is not expected to be available within that post code area before 1 January 2021;and
- (d) (until the following information is available via the Self-Service Interface) the DCC shall (using a readily available and commonly used electronic format) make information available to the other Parties concerning any requirement to use a particular WAN Variant (and, where applicable, in combination with any particular Communications Hub Auxiliary Equipment) for any given location in order that the Communications Hub will be able to establish a connection to the SM WAN (such information to be made available as far in advance of the date from which the SM WAN is expected to be available in that location as is reasonably practicable (and, in any event, at least 8 months in advance)).

X3.3A Notwithstanding that Section F1 (Technical Architecture and Business Architecture Sub-Committee) is stated in Section X3.2 to be effective, it shall apply as varied by

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

this Section X3.3A. The variation to apply pursuant to this Section X3.3A is that no review under Section F1.4(f) or F1.4(g) is required before the date from which Smart Meters are first capable of being Commissioned pursuant to Section H5 (Smart Metering Inventory and Enrolment Services).

Variations in respect of Sections G and I

X3.4 Notwithstanding that Sections G (Security) and I (Data Privacy) are stated in Section X3.2 to be effective, they shall apply as varied by this Section X3.4. The variations to apply pursuant to this Section X3.4 are that:

- (a) the process to appoint the first User Independent Security Assurance Service Provider and the process to appoint the first Independent Privacy Auditor shall be run concurrently with the intent (subject to paragraph (ii) below) that one and the same person is appointed to carry out both such roles, but:
 - (i) for the avoidance of doubt, this requirement shall apply only in respect of the process to appoint the first person to carry out each such role; and
 - (ii) where it is not possible to appoint to both such roles one person who would be suitably independent (in accordance with Sections G8.7 and I2.4) in performing the functions under Sections G8 and I2 in respect of every Party, the Panel may designate another person to perform either such role to the extent necessary to ensure that a suitably independent person is available to perform those functions in relation to each Party; and
- (b) the first annual SOC2 assessments pursuant to Section G9.3(b)(i) do not need to be completed until 12 months after the commencement of any Enrolment Services or Communications Services.

Variations in respect of Section L

X3.5 Notwithstanding that Section L8 (SMKI Performance Standards and Demand Management) is stated in Section X3.2 to be effective, it shall apply as varied by this Section X3.5. The variation to apply pursuant to this Section X3.5 is that Sections

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

L8.1 (SMKI Services: Target Response Times) to L8.6 (Code Performance Measures) will not apply until the Stage 2 Assurance Report has been published (or such later date as the Secretary of State may designate for the purposes of this Section X3.5).

Provisions to be Effective Subject to Variations

X3.6 In designating the date from which a provision of this Code is to be effective for the purpose of this Section X3, the Secretary of State may direct that such provision is to apply subject to such variation as is necessary or expedient in order to facilitate achievement of the Transition Objective (which variation may or may not be specified to apply until a specified date).

X3.7 Where the Secretary of State directs that a provision of this Code is to apply subject to such a variation, the Secretary of State may subsequently designate a date from which the provision is to apply without variation.

X3.8 Where the Secretary of State directs that a provision of this Code is to apply subject to more than one such variation, then the Secretary of State may:

(e) designate different dates from which each such variation is to cease to apply; and/or

(f) designate a date from which one or more such variations are to cease to apply (without prejudice to the continued application of the other such variations).

General

X3.9 Before designating any dates and/or making any directions for the purpose of this Section X3, the Secretary of State must consult the Authority, the Panel and the Parties in respect of the proposed date and/or the draft direction (as applicable). Such consultation must allow such period of time as the Secretary of State considers appropriate in the circumstances within which to make representations or objections with respect to the proposed date and/or the draft direction (as applicable).

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X4 GOVERNANCE SET-UP ARRANGEMENTS

General

X4.1 The provisions of Section C (Governance) shall have effect subject to the provisions of this Section X4.

Elected Members

X4.2 The Elected Members to be appointed on the designation of this Code shall be the individuals nominated by the Secretary of State for the purposes of this Section X4.2 (chosen on the basis of the election process administered by the Secretary of State on behalf of prospective Parties prior to the designation of this Code).

X4.3 Of the persons appointed as Elected Members in accordance with Section X4.2:

(a) certain of them shall retire 12 months after the designation of this Code; and

(b) certain of them shall retire 24 months after the designation of this Code,

as specified in the document by which they are nominated by the Secretary of State for the purposes of Section X4.2.

Panel Chair

X4.4 There shall be no separate Panel Chair on the designation of this Code. The Panel Members shall select (and may deselect and reselect) from among the Elected Members a person to act as Panel Chair until a person is appointed as Panel Chair pursuant to Section X4.6.

X4.5 The Elected Member acting, from time to time, as Panel Chair in accordance with Section X4.4 shall retain his or her vote as a Panel Member, but shall have no casting vote as Panel Chair.

X4.6 The Panel shall appoint a separate Panel Chair by a date no later than five months after the designation of this Code. The Panel Chair shall be appointed in accordance with a process developed by the Panel for such purpose; provided that such process must be designed to ensure that:

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (a) the candidate selected is sufficiently independent of any particular Party or class of Parties;
- (b) the appointment is conditional on the Authority approving the candidate;
- (c) the Panel Chair is appointed for a three-year term (following which he or she can apply to be re-appointed);
- (d) the Panel Chair is remunerated at a reasonable rate;
- (e) the Panel Chair's appointment is subject to Section C3.8 (Panel Member Confirmation) and terms equivalent to those set out in Section C4.6 (Removal of Elected Members); and
- (f) the Panel Chair can be required to continue in office for a reasonable period following the end of his or her term of office in the event of any delay in appointing his or her successor.

X4.7 Until such time as a separate Panel Chair has been appointed pursuant to Section X4.6, the Panel Chair shall only be entitled to appoint an additional Panel Member under Section C3.6 (Panel Chair Appointee) with the unanimous approval of the Panel.

DCC Member and Consumer Members

X4.8 The DCC Member and the Consumer Members to be appointed on the designation of this Code shall be the individuals nominated as such by the Secretary of State for the purposes of this Section X4.8.

Code Administrator and Secretariat

X4.9 The Panel shall, on the designation of this Code, be deemed to have appointed as Code Administrator and Secretariat such person or persons as the Secretary of State nominates for the purposes of this Section X4.9 (chosen on the basis of the procurement process administered by the Secretary of State on behalf of the prospective Panel prior to the designation of this Code).

X4.10 As soon as reasonably practicable following the designation of this Code, the Panel

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

shall direct SECCo to enter into contracts with such person or persons under which they are to perform the roles of Code Administrator and Secretariat. Such contracts shall be on terms and conditions approved by the Secretary of State for the purposes of this Section X4.10.

X4.11 Without prejudice to the ongoing duties of the Panel, the appointments of, and contracts with, the Code Administrator and Secretariat made in accordance with this Section X4 are deemed to have been properly made.

Recoverable Costs

X4.12 The requirement for Recoverable Costs to be provided for in, or otherwise consistent with, an Approved Budget (as set out in Section C8.2 (SEC Costs and Expenses)) shall not apply until such time as the first Approved Budget is established. The Panel shall establish the first Approved Budget (to cover the period from the designation of this Code) as soon as reasonably practicable following the designation of this Code.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X5 INCORPORATION OF CERTAIN DOCUMENTS INTO THIS CODE

Smart Metering Equipment Technical Specification

X5.1 The document designated by the Secretary of State as the Smart Metering Technical Specification in accordance with paragraph 27(b) Condition 22 of the DCC Licence shall, from the relevant date designated by the Secretary of State for the purpose of such document and of this Section X5.1, be incorporated into this Code as the Schedule specified in such designation.

Communications Hub Technical Specification

X5.2 The document designated by the Secretary of State as the Communications Hub Technical Specification in accordance with paragraph 27(b) of Condition 22 of the DCC Licence shall, from the relevant date designated by the Secretary of State for the purpose of such document and this Section X5.2, be incorporated into this Code as the Schedule specified in such designation.

Certificate Policies

X5.3 Any document designated by the Secretary of State as a Certificate Policy in accordance with paragraph 27(c) of Condition 22 of the DCC Licence shall, from the relevant date designated by the Secretary of State for the purpose of such document and this Section X5.3, be incorporated into this Code as the Schedule or SEC Subsidiary Document specified in such designation.

Other Technical Specifications

X5.4 Each of the technical specifications and procedural or associated documents designated by the Secretary of State in accordance with paragraph 27(d) of Condition 22 of the DCC Licence shall, from the relevant date designated by the Secretary of State for the purpose of such document and this Section X5.4, be incorporated into this Code as the Schedule or SEC Subsidiary Document specified in such designation.

Re-Designation of Documents

X5.5 Paragraph 28(b) of Condition 22 of the DCC Licence includes a power for the Secretary of State to re-designate any document of a type referred to in Sections X5.1

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

to X5.4, subject to such amendments as he considers requisite or expedient. Where the Secretary of State exercises that power in relation to any such document:

- (a) it shall be incorporated into this Code in substitution for the form of that document that was previously incorporated;
- (b) the other provisions of this Section X5 shall apply to it as if it were a document being designated for the first time; and
- (c) references in those provisions to the document being designated shall be read as referring to it being re-designated

Supplementary Provisions

X5.6 Paragraph 29 of Condition 22 of the DCC Licence includes a power for the Secretary of State to specify supplementary, incidental, consequential, governance or other provisions which are to have effect in this Code from the date designated for such purpose by the Secretary of State. This Code shall automatically be amended so as to include such provisions with effect from such date.

General

X5.7 This Code provides for the development of certain documents which may then be incorporated into this Code pursuant to this Section X5. Where this Code sets out the required purpose or content of such documents, the Secretary of State may designate for incorporation under this Section X5 documents that fulfil only part of that purpose or include only part of that content, with a view to subsequently re-designating more complete documents at a later date.

X5.8 The incorporation of documents into this Code pursuant to this Section X5 (and any provisions made pursuant to Section X5.6) shall not constitute a modification that should be subject to Section D (Modification Process). The incorporation of documents into this Code pursuant to this Section X5 (and any provisions made pursuant to Section X5.6) shall not constitute a variation of this Code that is time limited in accordance with Section X1.5 (and such documents and provisions shall remain part of this Code notwithstanding the deletion of this Section X on Completion of Implementation).

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X5.9 The documents incorporated into this Code pursuant to this Section X5 (and any provision made pursuant to Section X5.6) shall, from the date of their incorporation, be subject to modification in accordance with the provisions of this Code.

X5.10 Before designating any dates for the purpose of this Section X5, the Secretary of State must consult the Authority, the Panel and the Parties in respect of the proposed date. Such consultation must allow such period of time as the Secretary of State considers appropriate in the circumstances within which to make representations or objections with respect to the proposed date to be designated. The requirement for consultation may be satisfied by consultation before, as well as after, the designation of this Code.

X5.11 Before designating any date from which a document is to be incorporated into this Code pursuant to this Section X5, the content of such document must have been subject to such consultation as the Secretary of State considers appropriate in the circumstances (whether or not under this Code, whether or not undertaken by the Secretary of State and whether before or after the designation of this Code).

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X6 TRANSITIONAL VARIATIONS

Status of this Section X6

X6.1 This Section X6 is without prejudice to Section D (Modification Process), as (where applicable) varied pursuant to Section X2.

Secretary of State's Power to Vary for Purposes of Transition

X6.2 In pursuance of facilitating the achievement of the Transition Objective, the Secretary of State may direct that such provisions of this Code as the Secretary of State may specify are to apply subject to such variations as the Secretary of State may specify.

X6.3 Such a direction shall only be validly made if it specifies a date or dates from which the specified provision or provisions shall apply without variation. The Secretary of State may subsequently designate an earlier date from which the relevant provision is to apply without variation.

X6.4 The purposes for which such directions may be made includes purposes relating to the design, trialling, testing, set-up, integration, commencement and proving of the DCC Systems and the User Systems and the processes and procedures relating to the SEC Arrangements.

X6.5 The variations referred to in Section X6.2 may suspend the application of specified provisions of this Code and/or specify additional provisions to apply in this Code, and may include variations which:

- (a) add additional limitations on Liability provided for in this Code;
- (b) provide for indemnities against Liabilities to which a Party might be exposed; and/or
- (c) provide for the referral to, and final determination by, the Secretary of State (or, where designated by the Secretary of State for such purposes, the Panel or the Authority) of certain Disputes.

General

X6.6 Before designating any dates and/or making any directions for the purpose of this

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Section X6, the Secretary of State must consult the Authority, the Panel and the Parties in respect of the proposed date and/or the draft direction (as applicable). Such consultation must allow such period of time as the Secretary of State considers appropriate in the circumstances within which representations or objections may be made.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X7 TRANSITIONAL INCIDENT MANAGEMENT PROCEDURES

Period of Application

- X7.1 This Section X7 shall have effect from the date on which this Code is first modified to include this Section X7.
- X7.2 This Section X7 shall have effect until such time as the relevant enduring policy has been incorporated into this Code (or, if later, the time from which such policy is stated in Section X3 (Provisions to Become Effective following Designation) to have effect).
- X7.3 For the purposes of Section X7.2, the relevant enduring policy is the Incident Management Policy.
- X7.4 [Not used]

Transitional Provisions for Incident Management

- X7.5 Each Party other than the DCC that has rights and/or obligations under those Sections referred to in the definition of Services (and which are effective in accordance with Section X3 (Provisions to Become Effective following Designation)) shall provide the DCC with an up-to-date list from time to time of nominated individuals who are authorised to log Incidents on behalf of such Party, including for each such individual suitable contact details as reasonably requested by the DCC.
- X7.6 Each Network Party shall ensure that its Registration Data Provider provides the DCC with an up-to-date list from time to time of nominated individuals who are authorised to log Incidents on behalf of such Registration Data Provider, including for each such individual suitable contact details as reasonably requested by the DCC.
- X7.7 The individuals identified from time to time pursuant to Section X7.5 or X7.6 in respect of each Party or Registration Data Provider shall be the "**Nominated Incident Contacts**" for that Party or Registration Data Provider.
- X7.8 Each Party shall (and each Network Party shall ensure that its Registration Data Provider shall) comply with any reasonable request of the DCC in relation to the validation of the information provided by that Party (or that Registration Data Provider) in relation to its Nominated Incident Contacts.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X7.9 The DCC shall treat the information from time to time provided to it pursuant to Section X7.5 or X7.6 as Confidential Information.

X7.10 For those Parties and Registration Data Providers that have provided details of their Nominated Incident Contacts, the DCC shall provide a means by which Incidents can be reported to the DCC and information regarding Incidents sought from the DCC (the "**Interim Service Desk**"), which shall include (as a minimum) one or more email addresses and telephone numbers.

X7.11 The DCC shall ensure that the Interim Service Desk operates between 08.00 hours and 18.00 hours on Working Days.

X7.12 Parties and Registration Data Providers may report Incidents with the DCC by their Nominated Incident Contacts contacting the Interim Service Desk and providing their contact details, the nature of the Incident, the time and date of the occurrence, and the impact of the Incident.

X7.13 The DCC shall determine the prioritisation of Incidents, but subject to such prioritisation shall take all reasonable steps to mitigate and resolve each Incident such that its impact on Parties is minimised.

X7.14 The DCC shall have the right to assign reasonable actions to other Parties and/or the Registration Data Providers as reasonably required by the DCC in order to assist the DCC in mitigating and/or resolving one or more Incidents. Each Party shall (and each Network Party shall ensure that its Registration Data Provider shall) comply with any such actions so assigned to them.

X7.15 The DCC shall notify any Parties and Registration Data Providers likely to be affected by an Incident of which the DCC has become aware of: the occurrence of such Incident; its priority status; progress regarding its resolution; and its resolution. The DCC shall provide such notifications to the Nominated Incident Contacts. The DCC shall provide such notification of an Incident's resolution within one Working Day following its resolution.

X7.16 The DCC shall establish a process by which Nominated Incident Contacts can discuss with DCC the priority assigned to an Incident where a Party or Registration Data Provider disagrees with the prioritisation assigned to an Incident by the DCC.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Transitional Provisions Relating to Business Continuity and Disaster Recovery

- X7.17 In the event that the Interim Service Desk is unavailable and is unlikely to resume availability within two Working Days, then the DCC shall establish an alternative means of communication by which Incidents can be reported to the DCC and information regarding Incidents sought from the DCC. Such alternative means of communication must include a telephone number that can be used to contact the DCC's Incident manager in the case of disaster events.
- X7.18 In the event that an alternative means of communication is established by the DCC pursuant to Section X7.17, the DCC shall notify the Parties and the Registration Data Providers of such alternative means of communication. Such notification shall be given to the Nominated Incident Contacts via (as a minimum) email (or, if email is unavailable, SMS). Such a notification shall include a brief explanation of the reason for the Interim Service Desk's unavailability and the expected time by which it will be available as normal.
- X7.19 Once the Interim Service Desk is available as normal (following a period of unavailability), the DCC shall notify the Parties and the Registration Data Providers that this is the case (such notification to be given to the Nominated Incident Contacts via (as a minimum) email).
- X7.20 In the event of the Interim Service Desk being unavailable for two Working Days or more, the DCC shall (within five Working Days following the Interim Service Desk's return to normal availability) compile a report on such event setting out the cause and future mitigation. The DCC shall make any such report available to Parties, Registration Data Providers and the Panel (and, upon request, to the Authority or the Secretary of State).

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X8 DEVELOPING CH SUPPORT MATERIALS

Overview

X8.1 The CH Support Materials are to be developed by the DCC pursuant to this Section X8.1, and incorporated into this Code pursuant to Section X5 (Incorporation of Certain Documents into this Code).

Purpose of the CH Support Materials

X8.2 The purpose of the CH Support Materials is to make provision for such matters as are specified in Sections F5 (Communications Hub Forecasting and Orders), F6 (Delivery and Acceptance of Communications Hubs), F7 (Installation and Maintenance of Communications Hubs), F8 (Removal and Return of Communications Hub), F9 (Categories of Communications Hub Responsibility), and F10 (Test Communications Hubs), and to provide further processes and detail required to facilitate the delivery, installation, maintenance and return of Communications Hubs and Test Communications Hubs pursuant to this Code.

Process to Develop Documents

X8.3 The DCC shall develop and consult on the CH Support Materials so that drafts of each document are submitted to the Secretary of State by 1 March 2015 (or by such later date as the Secretary of State may direct for the purposes of this Section X8.3).

X8.4 The procedure by which the DCC is to develop each of the documents comprising the CH Support Materials is as follows:

- (a) the DCC shall, in consultation with the Parties and such other persons as are likely to be interested, produce a draft of each of the documents;
- (b) where a disagreement arises with any person who is consulted with regard to any proposal as to the content of the documents, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the CH Support Materials;
- (c) the DCC shall send a draft of each document to the Secretary of State as soon as is practicable after it is produced, and shall when doing so provide to the

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Secretary of State:

- (i) a statement of the reasons why the DCC considers that draft to be fit for purpose;
 - (ii) copies of the consultation responses received; and
 - (iii) a summary of any disagreements that arose during consultation and that have not been resolved by reaching an agreed proposal; and
- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to the draft document, including:
- (i) any requirement to produce and submit to the Secretary of State a further draft of the document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X9 INTERIM DEVICE AND USER SYSTEM TESTING¹

Interim Device Testing

X9.1 The DCC shall provide a testing service (referred to in this Section X9 as "**GFI Testing**") to enable eligible persons to test the interoperability of Devices (other than those comprising Communications Hubs) with the DCC Systems and with the Communications Hubs to be provided as part of the Testing Services, such that those Devices are able to respond to Commands received from or via the DCC in accordance with the requirements defined in the GB Companion Specification. The DCC shall provide GFI Testing as soon as reasonably practicable after this Section X9.1 takes effect, and (in any event) from the commencement of End-to-End Testing.

X9.2 The following shall apply in respect of GFI Testing:

- (a) the following persons shall be eligible to undertake GFI Testing: Parties and persons that have signed agreements based on the Specimen Enabling Services Agreement (subject only to such variations from such specimen form as are reasonable in the circumstances, including so as to require compliance with this Section X9.2);
- (b) the references in Section X9.1 to “Communications Hubs”, “DCC Systems” and “Devices” shall be interpreted as including reference to prototypes or simulations of those things (and GFI Testing shall not include communication via the SM WAN, or a simulation of the SM WAN);
- (c) Section H14 (Testing Services) shall apply in respect of GFI Testing as if GFI Testing was a Testing Service, and the DCC and each person undertaking GFI Testing shall comply with Sections H14 in respect of GFI Testing as if GFI Testing was a Testing Service (provided that none of the following shall apply: Sections H14.3, H14.9, H14.10 and H14.11);
- (d) persons undertaking GFI Testing must each comply with such reasonable supplemental obligations as the DCC may notify to them from time to time

¹ This Section X.9 included for completeness but it is not legally in effect nor text to be laid (as it is being brought into effect through designation).

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

(provided that such obligations are not inconsistent with the provisions of the Code that are in effect at that time); and

- (e) the Testing Issue process in Section H14.37 to H14.45 (General: Testing Issue Resolution Process) shall not apply to GFI Testing, but the DCC must take reasonable steps to provide support and assistance to a person undertaking GFI Testing in order to assist that person in resolving Testing Issues encountered when undertaking GFI Testing.

Pre-UEPT Testing

X9.3 The DCC shall allow each Party that is entitled to use a DCC Gateway Connection to establish and validate a connection via that DCC Gateway Connection to a test environment to be used for the purposes of Pre-UEPT Testing.

X9.4 The DCC shall, with effect from 6 May 2016, provide a testing service (referred to in this Section X9 as "**Pre-UEPT Testing**") that enables Parties to test their capability (and that of their Systems) to undertake the following activities over a DCC Gateway Connection:

- (a) the sending of (at least) the following Service Requests (which are identified by reference to the numbering used in the Common Test Scenarios Document):
 - (i) 4.1.1;
 - (ii) 5.1, 5.2 and 5.3;
 - (iii) 6.2.7, 6.11, 6.15.1, 6.15.2, 6.17, 6.20.1, 6.21 and 6.23;
 - (iv) 8.1.1, 8.2, 8.3, 8.4, 8.6, 8.7.1, 8.7.2, 8.8.1, 8.8.2, 8.9, 8.11, 8.12.1, 8.12.2, 8.13, 8.14.1, 8.14.2, 8.14.3 and 8.14.4; and
 - (v) 11.1, 11.2, 11.3, 12.1 and 12.2;
- (b) the sending of one or more Signed Pre-Commands; and
- (c) the receipt of Pre-Commands and Service Responses in respect of (at least) the Service Requests set out in paragraph (a) above (in the case of Pre-Commands,

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

only to the extent those Service Requests are designed to generate Pre-Commands).

X9.5 From as soon as the DCC is reasonably able to do so, the DCC shall expand the Pre-UEPT Testing to include the ability of Parties to test their capability (and that of their Systems) to send each of the Service Requests identified in the Common Test Scenarios Document but not listed in Section X9.4(a).

X9.6 The following shall apply in respect of Pre-UEPT Testing:

- (a) the references in Sections X9.4 and X9.5 to “Service Requests”, “Signed Pre-Commands”, “Pre-Commands”, “Service Responses”, “Device Alerts” and “DCC Alerts” shall be interpreted as including simulations of those things, which simulations may:
 - (i) include standardised or sample Data; and
 - (ii) omit Certificates, GBCS Payloads, Digital Signatures or Message Authentication Codes that would otherwise be required;
- (b) Section H14 (Testing Services) shall apply in respect of Pre-UEPT Testing as if Pre-UEPT Testing was a Testing Service, and the DCC and each Party undertaking Pre-UEPT Testing shall comply with Sections H14 in respect of Pre-UEPT Testing as if Pre-UEPT Testing was a Testing Service (provided that none of the following shall apply: Sections H14.3, H14.4, H14.9 and H14.10);
- (c) persons undertaking Pre-UEPT Testing must each comply with such reasonable supplemental obligations as the DCC may notify to them from time to time (provided that such obligations are not inconsistent with the provisions of the Code that are in effect at that time); and
- (d) the Testing Issue process in Section H14.37 to H14.45 (General: Testing Issue Resolution Process) shall not apply to Pre-UEPT Testing, but the DCC must take reasonable steps to provide support and assistance to a Party undertaking Pre-UEPT Testing in order to assist that Party in resolving Testing Issues encountered when undertaking Pre-UEPT Testing.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

Interaction with Device and User Systems Tests

- X9.7 The DCC shall not provide (and no Party shall be entitled to undertake) any testing of Devices under Section H14.31(a) (Device and User System Tests) during the period (if any) between commencement of GFI Testing and commencement of End-to-End Testing.
- X9.8 The DCC shall not provide (and no Party shall be entitled to undertake) any testing of Systems under Section H14.31(b) (Device and User System Tests) during the period between commencement of Pre-UEPT Testing and commencement of End-to-End Testing.
- X9.9 The DCC shall continue to make the tests under this Section X9 available following the commencement of End-to-End Testing.

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

X10 THRESHOLD ANOMALY DETECTION PROCEDURES

Overview

X10.1 The Threshold Anomaly Detection Procedures are to be developed by the DCC pursuant to this Section X10.1, and incorporated into this Code pursuant to Section X5 (Incorporation of Certain Documents into this Code).

Purpose of the Threshold Anomaly Detection Procedures

X10.2 The purpose of the Threshold Anomaly Detection Procedures is to make provision for such matters as are described in Section G6.1 (Threshold Anomaly Detection Procedures), and to provide further processes and detail required to facilitate those matters.

Process to Develop Document

X10.3 The DCC shall develop and consult on the Threshold Anomaly Detection Procedures in accordance with Section X10.4, and submit the document to the Secretary of State by no later than the date which falls seven months prior to the commencement of Interface Testing (or by such later date as the Secretary of State may direct).

X10.4 The procedure by which the DCC is to develop the Threshold Anomaly Detection Procedures is as follows:

- (a) the DCC shall, in consultation with the Parties and such other persons as are likely to be interested, produce a draft of the document;
- (b) where a disagreement arises with any Party or other person with regard to any proposal as to the content of the document, the DCC shall endeavour to reach an agreed proposal with that person consistent with the purposes of the Threshold Anomaly Detection Procedures;
- (c) the DCC shall send a draft of Threshold Anomaly Detection Procedures to the Secretary of State as soon as is practicable after completion of the process described in (a) and (b) above, and shall when doing so provide to the Secretary of State:

SEC – Section X: May 2016 (showing in mark-up and blue highlight concluded (or previously concluded) text to be laid – mark-up against legal in effect plus laid)

- (i) a statement of the reasons why the DCC considers that draft to be fit for purpose;
 - (ii) copies of the consultation responses received; and
 - (iii) a summary of any disagreements that arose during consultation and that have not been resolved by reaching an agreed proposal; and
- (d) the DCC shall comply with any requirements in a direction given to it by the Secretary of State in relation to the draft document, including:
- (i) any requirement to produce and submit to the Secretary of State a further draft of the document; and
 - (ii) any requirement as to the process to be followed by the DCC (and the time within which that process shall be completed) prior to submitting a further such draft.