



Peterhead CCS Project

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Executive Summary

The purpose of this document is to provide an overview of the likely structure of Tier 1 Sub Contracts and Tier 2 Sub-Contracts applicable to the Project Phase “Structure”, together with a description of the major relevant components and services within each of the contracts to be supplied. Tier 1 Sub-Contracts are sub-contracts during the Execute phase of the PCCS project which will be contracted by the Developer. Tier 2 Sub-Contracts are sub-contracts that will be contracted by the Tier 1 Sub-Contractors during Execute and Tier 3 Sub-Contracts are sub-contracts that will be contracted by the Tier 2 Sub-Contractors during Execute.

This report provides a description of the:

- i. Structure, and;
- ii. Components for each of the identified contracts within the Structure.

Appendix 1 illustrates how the major components and services are envisaged to be procured from the supply chain.

Reference should be made to the Scope of Work for Execute Contracts – KKD 11.058 [1] which provides an overview of the technical scope of work to be carried out for the Peterhead Carbon Capture and Storage project during the Execute project phase and in particular describes how it is intended this work will be contracted.



1. Introduction

1.1. Project Introduction

The Peterhead CCS Project aims to capture around one million tonnes of CO₂ per annum, over a period of up to 15 years, from an existing combined cycle gas turbine (CCGT) located at SSE's Peterhead Power Station in Aberdeenshire, Scotland. This would be the world's first commercial-scale demonstration of post-combustion CO₂ capture, transport and offshore geological storage from a gas-fired power station.

As the Goldeneye gas-condensate field has ceased production, the production facility will be modified to allow the injection of dense phase CO₂ captured from the post-combustion gases of Peterhead Power Station into the depleted Goldeneye reservoir.

The CO₂ will be captured from the flue gas produced by one of the gas turbines at Peterhead Power Station (GT13) using amine-based technology provided by Cansolv (a wholly-owned subsidiary of Shell). After capture the CO₂ will be routed to a compression facility, where it will be compressed, cooled and conditioned for water and oxygen removal to meet suitable transportation and storage specifications. The resulting dense phase CO₂ stream will be transported direct offshore to the wellhead platform via a new offshore pipeline which will tie in subsea to the existing Goldeneye pipeline.

Once at the platform the CO₂ will be injected into the Goldeneye CO₂ Store (a depleted hydrocarbon gas reservoir), more than 2 km under the seabed of the North Sea. The project layout is depicted in Figure 1-1 below:



Figure 1-1: Project Location



1.2. Supply Chain Structure

The purpose of this document is to provide an overview of the likely structure of Tier 1 Sub Contracts and Tier 2 Sub-Contracts applicable to the Project Phase “Structure”, together with a description of the major relevant components and services within each of the contracts to be supplied. It should be noted that currently Shell intends to implement the project through a company known as Peterhead CCS Limited (“PCCSL”).

PCCSL will submit its EPC Contracts to DECC on the basis of a suite of executed agreements, recognising that Tier 2 Sub-Contracts will only be entered into during the Execute phase of the Project should the UK government decide to proceed.

Appendix 1 provides an overview of the applicable contracts and includes:

- A brief outline of the scope of work/service;
- Whether the Sub-Contract is a Key Sub-Contract (above £50M or a component of critical importance to the Project) or a Material Sub-Contract (any Sub-Contract which is not a Key Sub-Contract entered into by PCCSL or a Key Sub-Contractor with any other person and with a value greater than ten million pounds (£10,000,000) (Indexed) or such lower amount as may be agreed in individual cases and designated by DECC as a Material Sub-Contract);
- The anticipated reimbursement mechanism; and
- Whether it is a Tier 1 or Tier 2 Sub-Contract.

The major relevant components are:

- Onshore CCCC Plant (including SSE Power station modifications);
- Landfall, Pipeline and Subsea;
- Well Engineering;
- Logistics;
- Seismic;
- Offshore Goldeneye Modifications; and
- Operations and Maintenance and Commissioning.

Supporting services for each of these components are described in Appendix 1.

Within the Project Phase Supply Chain Structure, the integration risk will be managed as follows:

- a) The appointment in the Project Execution Phase of an Integration Manager ;
- b) The inclusion of appropriate terms and conditions in the EPC Contracts; and
- c) The close collaboration of the Contract holders appointed to manage each of the sub-contracts awarded.

Furthermore, the C&P Manager will have overall accountability for integrating the different contracts.



2. Conclusion

There are no unique characteristics of this Project which have required a wholesale re-think on how Shell should contract with its supply chain.



3. References

- [1] Scope of Work for Execute Contracts – KKD 11.058



4. Glossary of Terms

Term	Definition
CCCC	Carbon Capture, Compression and Conditioning
CCS	Carbon Capture and Storage
CO ₂	Carbon Dioxide
DCC	Direct Contact Cooler
DCS	Distributed Control System
DSV	Diving Support Vessel
EPC	Engineering, Procurement and Construction
EPCI	Engineering, Procurement, Construction and Installation
EWL	Electric Wire Line
FA	Frame Agreement
FID	Final Investment Decision
GRE	Glass Reinforced Epoxy
HDD	Horizontal Directional Drilling
HVAC	Heating, Ventilating, and Air Conditioning
IP	Intelligent Pigging
ISC	Integrated Services Contractor
IT	Information Technology
ITT	Invitation to Tender
KSC	Key Sub-Contract
LS	Lump Sum
LTSA	Long Term Service Agreement
MFL	Magnetic Flux Leakage
NDT	Non-destructive Testing
NRV	Non Return Valve
OTS	Operator Training Simulator
PCCSL	Peterhead CCS Limited
PMO	Project Management Office
SCR	Selective Catalytic Reduction
SSIV	Subsea Isolation Valve
SVCS	Services
TBD	To Be Decided
WBS	Work Breakdown Structure



APPENDIX 1. Project Phase Supply Chain Contract Structures

The following tables provide a listing of the Contracts to be awarded during Project Execution. These are split into the following Tables:

Table 4-1: Onshore Contracts

Table 4-2: HDD, Pipeline and Subsea - Contracts

Table 4-3: Logistics Contracts

Table 4-4: Well Engineering Contracts

Table 4-5: Seismic Contracts

Table 4-6: Offshore Contracts

Table 4-7: Commissioning Contracts

Table 4-8: Operations and Maintenance Contracts



Table 4-1: Onshore Contracts

Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Main Subcontract of PSSCL with SSE	KSC	Power Station	Single Source	Lump Sum with Reimbursable Elements
2	Subcontract of SSE	KSC	SSE EPC - Power Island	Competitive tender	Lump Sum
2	Subcontract of SSE	KSC	SSE EPC Contract - Balance of Plant (including Demolition)	Competitive tender	Target Cost
2	Subcontract of SSE	KSC	LTSA	Single Source	Part Lump Sum and part variable, during Operation Phase.
3	Subcontract of SSE EPC contract within EPC scope	KSC	Steam turbine (included in Power Island or Balance of Plant EPC Contract)	Competitive tender	Lump Sum
3	Subcontract of SSE EPC contract within EPC scope	KSC	SCR (included in Power Island EPC Contract)	Competitive tender	Request Lump sum , but may be delivered via a Target cost Contract, under the Power Island or Balance of Plant EPC Contract scope
2	Subcontract of PCCSL EPC contract within EPC scope	KSC	Technology Provider Licence Agreement	Single Source	
3	Subcontract of Cansolv	KSC	Amine Processing Unit	Single Source	
3	Subcontract of Cansolv	KSC	Thermal Reclaimer Unit	Single Source	
2	Provided by Cansolv	KSC	Absorbent	Single Source	
1	Main EPC Subcontract of PCCSL	KSC	Onshore CCCC Plant EPC Contract	Competitive tender	LS for Engineering and Procurement. Target Price/ Reimbursable for Construction
2	Subcontract of PCCSL EPC contract within EPC scope	KSC	CO ₂ Compressor	Competitive tender	LS with reimbursable elements



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope	KSC	High Pressure CO ₂ Metering	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope	KSC	Oxygen Removal Package	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope	MSC	Main Civil works, Buildings and Temporary Facilities	Competitive Tender	LS with Reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope	MSC	CO ₂ Absorber Tower and DCC Internals	Competitive Tender	LS with Reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope	MSC	Structural, Mechanical and Piping Erection Works	Competitive Tender	LS with Reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope	MSC	Ducting	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope	MSC	Electrical Instrumentation and Automation Equipment	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope	MSC	Steelwork	Competitive tender	LS with reimbursable elements
1	Subcontract of PCCSL	MSC	PMO	Competitive tender	Management Fee and reimbursable rates
2	Subcontract of PCCSL EPC contract within EPC scope		Security Services	Use incumbent SSE Security Services Contract	LS with Reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Facilities Management	Competitive Tender	Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Electrical and Instrumentation Works	Competitive Tender	LS with Reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Heavy Lifting Works	Competitive Tender	LS with Reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Modular Buildings	Competitive Tender	LS with Reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Site Erected Tanks	Competitive Tender	LS with Reimbursable elements



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Scaffolding Works	Competitive Tender	LS with Reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Oxygen Removal Reactor	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Booster Fan	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Gas to Gas Heat Exchanger	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Hydrotesting and Precommissioning Services	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Inspection Services	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Dimensional Survey Services	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Integrated Telecoms and IT Services	Mini tender against Frame Agreement (Multi Asset)	LS with reimbursable elements
1	Subcontract of PCCSL		Integrated Services Contractor (St Fergus)	Competitive tender	LS with reimbursable elements
1	Subcontract of PCCSL		Integrated Services Contractor (onshore CCCC Plant)	Competitive tender	Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Glass Reinforced Epoxy Specialist Supply	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Piping Pre-Fabrication Works	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		EX inspection and certification services supply	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Valves, Flanges and Bends	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		System Preservation Services	Competitive tender	LS with reimbursable elements



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Stripper (Regeneration) Column	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Distributed Control System (DCS) Supply	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Operator Training Simulator (OTS) Supply	Competitive tender	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Schoepentoeter (vane type inlet device)	Single Source	LS with reimbursable elements
2	Subcontract of PCCSL EPC contract within EPC scope		Structure packing	Single Source	LS with reimbursable elements



Table 4-2: HDD, Pipeline and Subsea - Contracts

Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Main EPCI Subcontract of PCCSL	KSC	Landfall, Subsea and Pipelines	Competitive Tender	EPCI LS
2	Subcontract of PCCSL EPCI contract within EPCI scope	KSC	Pipeline Installation of 20" pipe	To be carried out by EPCI Contractor	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope	KSC	Landfall	Competitive Tender	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Linepipe	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		SSIV Umbilical	Competitive tender via EPC	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		SSIV and small onshore valves	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Fabrication of SSIV structure, Spools and installation aids	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Subsea Fabrication including land based items	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		DSV for Subsea Tie-in and SSIV Installation and pre-commissioning activities	Competitive Tender exercise as part of EPCI package	LS
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Subsea Control System	Sole award - Existing Frame Agreement	LS with Reimbursable elements
2	Subcontract of PCCSL EPCI contract within EPCI scope		Spoolpieces	Multi-Asset. Competitive tender or via existing Frame Agreement	LS



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
2	Subcontract of PCCSL EPCI contract within EPCI scope		Linepipe Concrete Coating	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Field Joint Coating	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Subsea 20" Ball Valves	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Flanges and Fittings, Bolts and Gaskets	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Pre-commissioning and Testing Activities	Competitive Tender exercise as part of EPCI package	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Rockdumping	via EPCI - Competitive tender	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Piling Services	Competitive Tender	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Mechanical Connector	Competitive Tender	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Buoyancy Tanks	Competitive Tender	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Pipeline Anodes	Competitive Tender	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Protection mattresses and pipeline supports	Competitive Tender	LS
2	Subcontract of PCCSL EPCI contract within EPCI scope		Subsea pipeline plug	Competitive Tender	LS



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Pumping Operations Service Contractor for Intelligent Pig Run	Multi-Asset. Competitive tender or via existing Frame Agreement	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Magnetic cleaning conditioning pig, Magnetic flux leakage pig , Ultrasonic pig	Competitive tender or via existing Frame Agreement	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Calliper profiling tool	Competitive tender or via existing Frame Agreement	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Intelligent Pig run	Competitive tender or Sole award - Existing Frame Agreement	Reimbursable



Table 4-3: Logistics Contracts

Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL	MSC	Walk to Work Vessel	Competitive Tender	Reimbursable (Day rate)
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement		Walk 2 Work Gangway Lease and Services	Sole award - Existing Frame Agreement	Reimbursable (Day Rate)
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement		Standby Vessel	Multi-Asset. Sole award - Existing Frame Agreement	Reimbursable (Day Rate)
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement		Supply Vessels	Multi-Asset. Sole award - Existing Frame Agreement	Reimbursable (Day Rate)
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement		Helicopters	Multi-Asset. Sole award - Existing Frame Agreement	Reimbursable



Table 4-4: Well Engineering Contracts

Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL	KSC	Jack-up Rig	Competitive Tender	Reimbursable Day rate
1	Subcontract of PCCSL	KSC	Subsurface Safety Valve	Competitive Tender	LS with reimbursable elements
1	Subcontract of PCCSL		Well Engineering Integrated Services Contractor	Competitive Tender	LS with reimbursable elements
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Christmas Trees	Existing Frame Agreement (Multi Asset)	LS with reimbursable elements
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Wellhead / Tubing Hanger	Existing Frame Agreement (Multi Asset)	LS with reimbursable elements
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Tubulars	Existing Frame Agreement (Multi Asset)	Fixed price equipment with reimbursable services
1 or 2	TBD		Packers	Sole award - Existing Frame Agreement (Multi Asset)	LS with reimbursable elements
1 or 2	TBD		Sand Screens	Competitive tender	LS with reimbursable elements
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Cementing	Competitive tender or Sole award - Existing Frame Agreement (Multi Asset)	LS with reimbursable elements
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Gauges	Competitive tender or Sole award - Existing Frame Agreement (Multi Asset)	LS with reimbursable elements
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		EWL	Sole award - Existing Frame Agreement (Multi Asset)	LS with reimbursable elements



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Slickline/Well Test / Subsea	Sole award - Existing Frame Agreement (Multi Asset)	LS with reimbursable elements
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement		Tractors / Specialist Tooling	Sole award - Existing Frame Agreement (Multi Asset)	LS with reimbursable elements



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Seismic data acquisition & surveys	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Surface & Geomatics	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Surface & Geomatics	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Surface & Geomatics	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Surface & Geomatics	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Geology	Multi Asset. Existing FA Contract	Reimbursable



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Seismic data processing	Multi Asset. Existing FA Contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Seismic data processing	Multi Asset. Existing FA Contract	Reimbursable



Table 4-6: Offshore Contracts

Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Main EPC Subcontract of PCCSL	KSC	Platform Construction and Modifications	Competitive Tender	Lump Sum plus Target Price (plus Provisional Sums)
2	Subcontract of PCCSL EPC contract within EPC scope		Integrated Telecoms & IT Services	Competitive tender using Existing Frame Agreement (Multi- Asset) by Onshore EPC	Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		NDT Services	Competitive tender via EPC	Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Hydro testing and Precommissioning Services	Competitive tender via EPC	Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Inspection Services	Competitive tender via EPC	Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Fabrication associated with the Goldeneye Accommodation Module	Competitive tender via EPC	Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Automation (Equipment and installation)	Use of Existing Frame Agreement (Multi Asset)	Lump Sum
2	Subcontract of PCCSL EPC contract within EPC scope		Valves	Competitive tender via EPC	Lump Sum
2	Subcontract of PCCSL EPC contract within EPC scope		Mechanical and Piping vessels	Competitive tender via EPC	Lump Sum
2	Subcontract of PCCSL EPC contract within EPC scope		Instrumentation	Competitive tender via EPC	Lump Sum
2	Subcontract of PCCSL EPC contract within EPC scope		Cabling	Competitive tender via EPC	Lump Sum
2	Subcontract of PCCSL EPC contract within EPC scope		Structural steel	Competitive tender via EPC	Lump Sum
2	Subcontract of PCCSL EPC contract within EPC scope		Bulk Materials (bucket of items still to be defined)	Competitive tender via EPC	Lump Sum



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
2	Subcontract of PCCSL EPC contract within EPC scope		Metering Skid	Competitive tender via EPC	Lump Sum
2	Subcontract of PCCSL EPC contract within EPC scope		CO ₂ Filter Skid	Competitive tender via EPC	Lump Sum
2	Subcontract of PCCSL EPC contract within EPC scope		CO ₂ Gas Detection instruments and Equipment	Competitive tender via EPC	Reimbursable



Table 4-7: Commissioning Contracts

Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL	MSC	Integrated Commissioning Services	Competitive Tender	Reimbursable



Table 4-8: Operations and Maintenance Contracts

Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Control systems	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Maintenance and upkeep of Control Systems	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Maintenance and Engineering for F&G & ESD systems	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Metering	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Control valves and services	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Field Instruments	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Field Instruments & Actuators	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Field Instruments & Actuators	Multi Asset - Existing FA contract	Reimbursable



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	HVAC and engineering services	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Provisions of specialist engineering and maintenance services	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Hoses and hose management	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Crane services	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Aftermarket Contracts (various Suppliers)	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Purchasing Contract	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Call-Off Contracts (various Suppliers)	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Rotating equipment aftermarket goods and services	Multi Asset - Existing FA contract	Reimbursable



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Gas turbine maintenance & overhaul services	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Aftermarket rotating equipment and servicing	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Aftermarket products and services (various suppliers)	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Compressor maintenance – UK onshore & offshore	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	St. Fergus Frame 5 Package aftermarket support	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Maintenance (various Suppliers)	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Purging and leak testing services	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Chemicals	Multi Asset - Existing FA contract	Reimbursable



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Chemicals (various Suppliers)	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Inspection (various Suppliers)	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Verification & certification	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Pipeline Inspection (various Suppliers)	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Maintenance (various Suppliers)	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Electrical	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Provision of switchgear services	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL- Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Disposal	Multi Asset - Existing FA contract	Reimbursable



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Modifications to switchgear	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Provision of air hydraulic services	Multi Asset - Existing FA contract	Reimbursable
1	Multi Asset Agreement	Multi Asset Agreement	Instrumentation	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Inspection and Maintenance	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Supply of gaskets	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Supply and Maintenance	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Supply of pipes, flanges & fittings	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Supply of on/off valves	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Provision of filters	Multi Asset - Existing FA contract	Reimbursable



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Maintenance and support	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Turbine material rejuvenation	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Maintenance	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Maintenance and repair	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Materials and services	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Structural mooring & technical support	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Support and maintenance	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Corrosion support	Multi Asset - Existing FA contract	Reimbursable



Tier 1 or Tier 2	Contracting Parties	Segmentation	Category	Method of Award	LS or Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Supply of valves / fittings	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Supply of valves / fittings	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Material supply	Multi Asset - Existing FA contract	Reimbursable
1	Subcontract of PCCSL-Compatibility with other systems multi-asset agreement	Multi Asset Agreement	Pipeline services	Multi Asset - Existing FA contract	Reimbursable