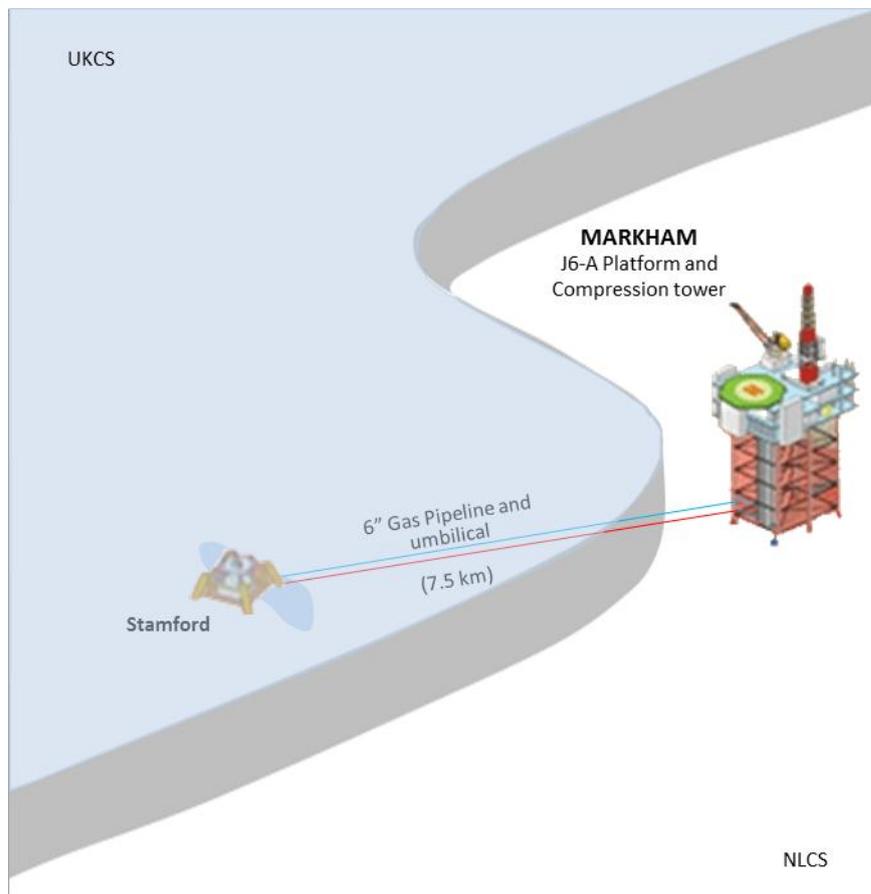


Stamford Decommissioning Programmes



Final Version – 07 April 2015

DOCUMENT CONTROL

Document ID:		CEU-PRJ-GMA0042-REP-0009	
Document Classification:		PUBLIC	
Document Ownership:		Decommissioning Group within Projects	
Date of Document:	07/04/15	Signature	Date
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REVISION RECORD

Revision No.	Date of Revision	Reason
A1	09/01/15	Issued for Review and Comment
A2	28/01/15	Issued for Consultation
A3	20/03/15	Issued to DECC for final review
A4	23/03/15	Draft
C1	07/04/15	FINAL VERSION

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TERMS AND ABBREVIATIONS

ABBREVIATION	EXPLANATION
API	American Petroleum Institute
Centrica	Centrica Energy, Centrica North Sea Gas Ltd
CTP	Compression Tower Platform (adjacent to Markham J6A)
DCR	Design and Construction Regulations
DECC	Department of Energy & Climate Change
Dec Min	(WGS84) Decimal Minute
DSV	Diving Support Vessel
ESDV	Emergency Shutdown Valve
GMA	Greater Markham Area
HSE	Health and Safety Executive
ID	Identifier
km	Kilometre
LSA	Low Specific Activity
Markham Platform	Markham Compression Tower Platform (CTP) and J6A Platform
MAT	Master Application Template
N/A	Not Applicable
NCLS	Netherlands Continental Shelf
N, E, S, W	North, East, South, West
NIFPO	Northern Irish Fish Producer's Organisation
NFFO	National Federation of Fishermen's Organisations
NORM	Naturally Occurring Radioactive Material
OGUK	Oil & Gas UK
OSPAR	Oslo and Paris Conventions
P&A	Plug and Abandon
PON	Petroleum Operations Notice
PP	Paint Protection
PWA	Pipeline Works Authorisation
SAT	Subsidiary Application Template
SFF	Scottish Fishermen's Federation
SUTU	Subsea Umbilical Termination Unit
TUTU	Topsides Umbilical Termination Unit
UKCS	United Kingdom Continental Shelf
UKHO	United Kingdom Hydrographic Office
WGS84	World Geodetic System 1984
WGT	Westgastransport (pipeline system)
WHPS	Wellhead Protection Structure

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1. EXECUTIVE SUMMARY

1.1 Combined Decommissioning Programmes

This document contains two Decommissioning Programmes, one for each set of notices under Section 29 of the Petroleum Act 1998:

- The Stamford installation (a wellhead protection structure), and;
- The associated pipeline and umbilical.

Although the decommissioning of the Stamford installation and pipelines is being planned as a standalone project we will continue to explore cost saving synergies with other projects.

1.2 Requirement for Decommissioning Programmes

Installation: In accordance with the Petroleum Act 1998, Centrica North Sea Gas Limited (Centrica), as operator of the Stamford Field and on behalf of the Section 29 notice holders (see Table 1.2) is applying to the Department of Energy and Climate Change (DECC) to obtain approval for decommissioning the subsea installation detailed in Section 2 of this programme.

Pipeline: In accordance with the Petroleum Act 1998, Centrica as operator of the Stamford pipelines and on behalf of the Section 29 notice holders (see Table 1.4) is applying to DECC to obtain approval for decommissioning the pipelines detailed in Section 2 of this programme.

In conjunction with public, stakeholder and regulatory consultation, the decommissioning programmes are submitted in compliance with national and international regulations and DECC guidelines. The schedule outlined in this document is for a two and a half year decommissioning plan due to begin in 2015.

1.3 Introduction

The Stamford Field is wholly owned by Centrica North Sea Gas Limited and lies in the UK sector (block 49/10c). The field was discovered in 1990 by Total Oil Marine, but was developed by Venture Production in 2008. Ownership moved to Centrica in 2009 following the Venture Production acquisition.

The field was developed by tying back a single Stamford appraisal/development well to the Markham platform located in the Dutch sector 7.5km from the Stamford well. The Stamford pipeline and umbilical crosses the median line into the Dutch sector. Therefore, Centrica is liaising with the State Supervision of Mines and the Ministry of Economic Affairs in Netherlands. Production from Stamford has been intermittent since the latter part of 2010 with production ceasing in mid-2012. A cessation of production justification was submitted on 20 August 2014 and accepted by DECC by letter dated 10 September 2014.

Following public, stakeholder and regulatory consultation, the decommissioning programmes will be submitted in full compliance with DECC guidelines. The decommissioning programmes explain the principles of the removal activities and are supported by an environmental impact assessment. The decommissioning programme for the pipeline and umbilical is supported by a comparative assessment.

1.4 Overview of Installation(s)/Pipeline(s) Being Decommissioned

1.4.1 Installation

Table 1.1: Installation Being Decommissioned			
Field name		Quad/Block	
Stamford		49/10c	
Surface Installation		Subsea Installation	
Total Number	Type	Total Number	Type
None	n/a	1	WHPS
Number of Wells		Drill Cuttings Piles	
Platform	Subsea	Number of Piles	Total Est volume (m ³)
None	1	None	n/a
Production Type (Oil/Gas/Condensate)	Water Depth (m)	Distance from nearest UK coastline (km)	Distance to Median Line (if less than 5km)
Gas	Approx. 37m	140km	n/a (5.105km)

Table 1.2: Installation Section 29 Notice Holders Details		
Section 29 Notice Holder(s)	Registration Number	Equity Interest (%)
Centrica North Sea Gas Limited	SC182822	100
Centrica Resources (UK) Limited	06791610	0
GB Gas Holdings Limited	03186121	0

1.4.2 Pipelines

Table 1.3: Pipelines Being Decommissioned		
Number of Pipeline(s) / Umbilical(s)	2	(See Table 2.3)

Table 1.4: Pipelines Section 29 Notice Holders Details		
Section 29 Notice Holder(s)	Registration Number	Equity Interest (%)
Centrica North Sea Gas Limited	SC182822	100
Centrica Resources (UK) Limited	06791610	0
GB Gas Holdings Limited	03186121	0

1.5 Summary of Proposed Decommissioning Programme(s)

Table 1.5: Summary of Decommissioning Programmes		
Selected Option	Reason for Selection	Proposed Decommissioning Solution
1. Topsides		
n/a		
2. Jacket/Floating Facility (FPSO etc.)		
n/a		
3. Subsea Installation		
WHPS will be removed.	To remove all structures and leave a clean seabed. To comply with OSPAR requirements.	WHPS will be removed from the seabed.
4. Pipelines, Flowlines & Umbilicals		
Flexible riser will be re-used if possible. Pipeline will be flushed and left buried <i>in situ</i> . Umbilical will be flushed and left buried <i>in situ</i>	The pipeline is sufficiently buried and stable, posing no hazard to marine users. Minimal seabed disturbance, lower energy usage, reduced risk to personnel engaged in the activity. The umbilical is sufficiently buried and stable, posing no hazard to marine users. Minimal seabed disturbance, lower energy usage, less risk to personnel engaged in the activity.	The 6 inch pipeline will be left <i>in situ</i> , with the short end sections re-buried/cut to conform to recommendations by the National Federation of Fishermen's Organisations. Surveys indicate pipeline will remain buried. Degradation will occur over a long period within seabed sediment, and this is not expected to represent a hazard to other users of the sea. The flexible riser at Markham will be unbolted at the pipeline and left with the platform and re-used if possible. The umbilical will be left <i>in situ</i> with the short end section in the UK sector being cut and removed to conform to recommendations by the National Federation of Fishermen's Organisations. Surveys indicate that the umbilical will remain buried. Degradation will occur over a long period within seabed sediment, and this is not expected to represent a hazard to other users of the sea. The section of umbilical within the J-tube at the Markham platform will be fully removed, but within the NLCS a short section of the umbilical within the Markham platform 500m zone will remain where it is covered by protection mattresses and removed along with the Markham platform as part of future decommissioning activities.
5. Wells		
Well will be plugged and abandoned to comply with HSE "Offshore Installations and Wells DCR 1996" and in accordance with OGUK Guidelines for the Suspension and Abandonment of Wells.	Meets DECC and HSE regulatory requirements.	The Stamford well will be plugged and abandoned using a drill rig. A Master Application Template (MAT) and the supporting Subsidiary Application Templates (SAT) will be submitted in support of works carried out. A PON5 will also be submitted to DECC for application to abandon the well.
6. Drill Cuttings		
No cuttings pile exists at Stamford.	Cuttings were widely dispersed and fall below OSPAR 2006/5 thresholds	n/a
7. Interdependencies		
Mattresses and grout bags will be removed as part of the partial pipeline and umbilical removal activities.		

1.6 Field Location Including Field Layout and Adjacent Facilities



Figure 1.6-1: Stamford Field Location in UKCS

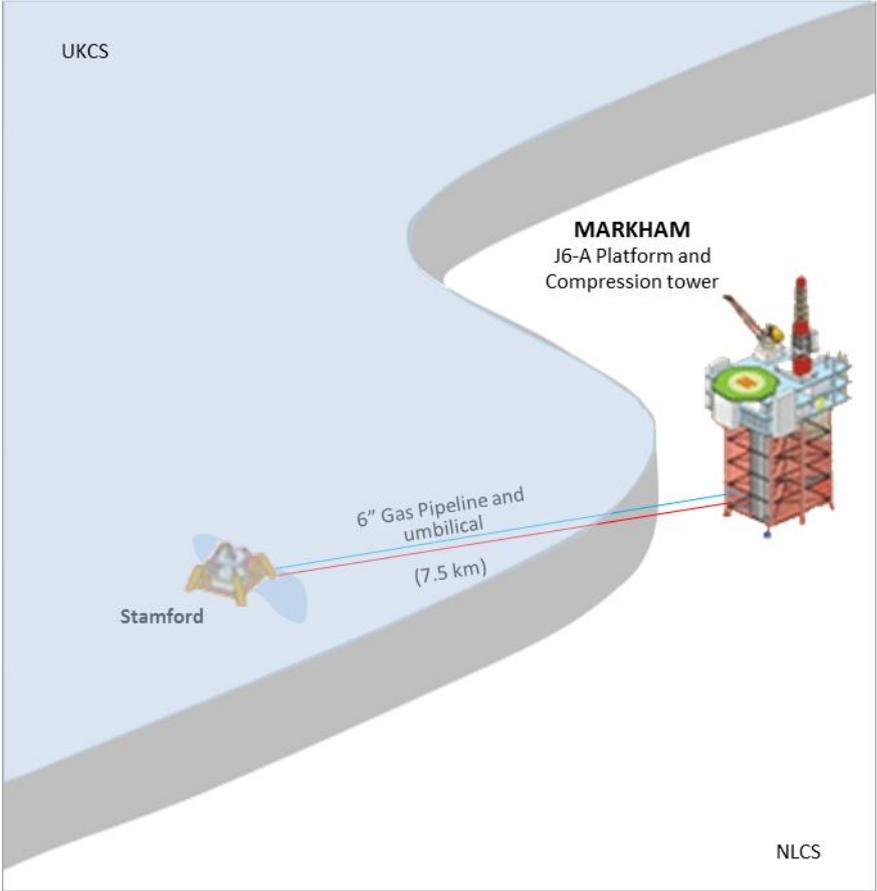


Figure 1.6-2: Stamford Field Layout

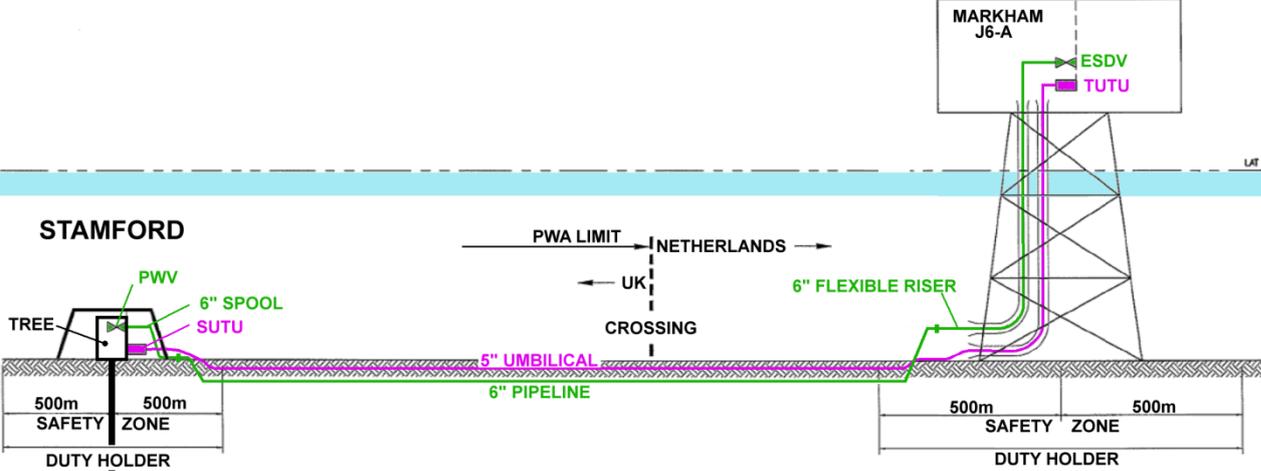


Figure 1.6-3: Stamford Field PWA Limits

Table 1.6: Adjacent Facilities

Owner	Name	Type	Distance/Direction	Information	Status	
Centrica	CTP/J6A	Bridge linked platforms at Markham	Reception for Stamford pipeline, 7.5km NE of Stamford well		Host platform for various subsea gas tiebacks. Exports gas and condensate to Wintershall operated K-13A platform, which in turn exports to Den Helder in the Netherlands	
			WGS84 Decimal	53.823484 2.943308		
			WGS84 Dec Min	53° 49.409' N 02° 56.598' E		
Centrica	PL2639 PLU2640	10" gas pipeline and 2" methanol line	At CTP/J6A (from Grove platform, 13.4km long)		Markham platform is host for the Grove platform	
			WGS84 Decimal	53.823484 2.943308		
			WGS84 Dec Min	53° 49.409' N 02° 56.598' E		
Centrica	ST-1	Platform	Approx. 5km NE of Stamford Well, approx. 5km NW of J6A		Host platform for Windermere. Exports gas from Windermere & ST-1 to J6A	
			WGS84 Decimal	53.842116 2.867643		
			WGS84 Dec Min	53° 50.527' N 02° 52.059' E		
Centrica	PL992 PL993	12" gas pipeline and 2" methanol line	At J6A (from ST-1 platform, 6.4km long)		Crossed by PL2567 (flexible riser) and PLU2568 at J6A	
			WGS84 Decimal	53.823247 2.943719		
			WGS84 Dec Min	53° 49.395' N 02° 56.623' E		
Centrica	PL2353 PL2354	10" gas pipeline and 2" methanol line	At CTP/J6A (from Chiswick, 18.3km long)		Crossed by PL2567 (flexible riser) and PLU2568 at J6A	
			WGS84 Decimal	53.823484 2.943308		
			WGS84 Dec Min	53° 49.409' N 02° 56.598' E		
TotalFinaElf	No ID	4.5" gas pipeline and 3" umbilical	At J6A (from K4-aD, 7.3km long)		Wholly routed in Dutch Sector from K4-aD to J6A	Operational
TotalFinaElf	No ID	14" gas pipeline and 2" methanol line	At J6A (from K1-A, 9.1km long)		Wholly routed in Dutch Sector from K1-A to J6A	Operational
Wintershall Nordzee B.V.	No ID	24" gas export line	At J6A (to K13-A 85.8km long)		Wholly routed in Dutch Sector	Operational
Impacts of Decommissioning Proposals						
No impact is expected.						

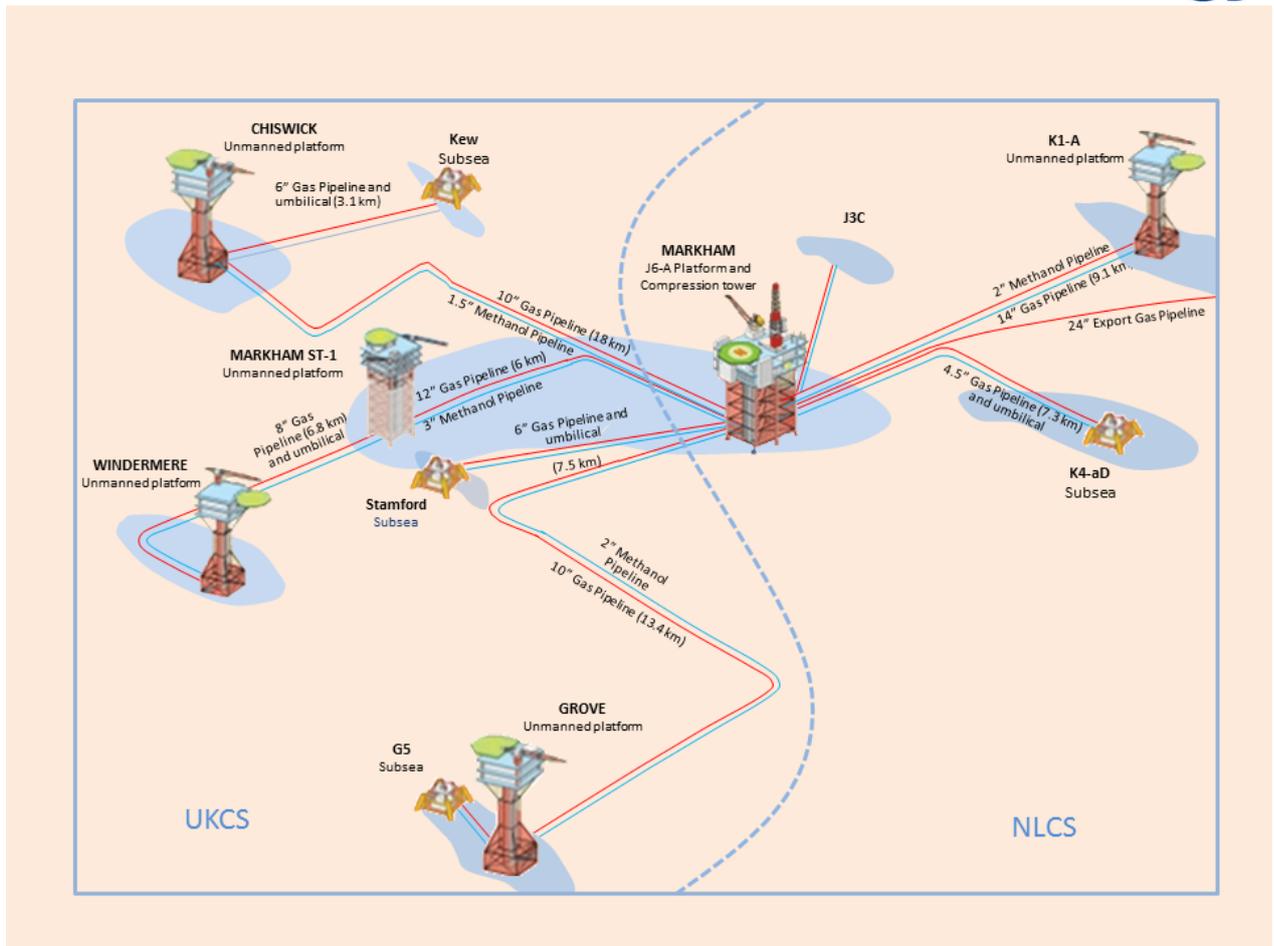


Figure 1.6-4: Adjacent Facilities

1.7 Industrial Implications

The work to decommission the Stamford installation and pipelines will be largely completed from a Diving Support Vessel (DSV), while well plug and abandonment operations will be done using a drilling rig.

It is Centrica's intention to use existing framework agreements for the decommissioning of the pipeline, umbilical and stabilisation features. Centrica will also try to combine Stamford decommissioning activities with other development or decommissioning works should the opportunity arise. A drill rig is already on charter for a number of well plug and abandonment activities in the southern North Sea and as such it is possible that the sequence of work may change. Therefore, the decommissioning schedule is extended to allow flexibility for when decommissioning operations are carried out and completed.

2. DESCRIPTION OF ITEMS TO BE DECOMMISSIONED

2.1 Installation: Surface Facilities

Table 2.1: Surface Facilities Information								
Name	Facility Type	Location ED50 Format	Topsides/Facilities		Jacket (if applicable)			
			Weight (Te)	No of modules	Weight (Te)	Number of legs	Number of piles	Weight of piles (Te)
n/a								

2.2 Installation: Subsea including Stabilisation Features

Table 2.2: Subsea Installations and Stabilisation Features					
Subsea installations including Stabilisation Features	Number	Size/Weight (Te)	Location		Comments/Status
Wellhead	1	3.1	WGS84 Decimal	53.803445 2.835659	Well is live and shut in. It will undergo plug and abandonment.
			WGS84 Dec Min	53° 48.207' N 02° 50.140' E	
Wellhead Protection Structure (WHPS)	1	33.7	WGS84 Decimal	53.803445 2.835659	WHPS is attached to wellhead and not piled. WHPS will be lifted in sections and transported to shore for re-use, unless the condition is found to preclude refurbishment when it will be recycled.
			WGS84 Dec Min	53° 48.207' N 02° 50.140' E	
Tree	1	17.2	WGS84 Decimal	53.803445 2.835659	Tree is located within the WHPS and will be lifted to shore for re-use, unless the condition is found to preclude refurbishment when it will be recycled.
			WGS84 Dec Min	53° 48.207' N 02° 50.140' E	
Concrete mattresses	n/a				
Grout bags	n/a				
Formwork	n/a				
FronD Mats	n/a				
Rock Dump	n/a				

2.3 Pipelines Including Stabilisation Features

Table 2.3: Pipeline/Flowline/Umbilical Information										
Description	Region	Pipeline Number (as per PWA)	Diameter (inches)	Length (km)	Description of Component Parts	Product Conveyed	From – To End Points	Burial Status	Pipeline Status	Current Content
Flowline (7.331km)	UK	PL2567	6"	5.105	6" Rigid Flowline. Carbon steel with 3 Layer PP	Natural Gas, Condensate, Water	Stamford Well Spools – Median Line	Trenched and buried. For burial profile, please refer Figure 6.6-1, Appendix A.1	Operational	Hydrocarbon
	UK	PL2567	6"	0.040	6" Rigid Spoolpiece. Carbon steel with 3 Layer PP	Natural Gas, Condensate, Water	Stamford Well – PL2567	Under concrete mattresses	Operational	Hydrocarbon
	Netherlands	PL2567	6"	2.226	6" Rigid Flowline. Carbon steel with 3 Layer PP	Natural Gas, Condensate, Water	Median Line – CTP/J6A Platform Flexible Riser	Trenched and buried. For burial profile, please refer Figure 6.6-1, Appendix A.1	Operational	Hydrocarbon
Umbilical 7.683km	UK	PLU2568	5"	5.350	Composite Flexible	Chemicals	Stamford Well – Median Line	Trenched and buried. For burial profile Figure 6.6-3, Appendix A.2	Operational	Chemicals
	Netherlands	PLU2568	5"	2.333	Composite Flexible	Chemicals	Median Line – CTP/J6A Platform Flexible Riser		Operational	Chemicals
Flexible Riser	Netherlands	n/a	6"	0.200	7 1/16" API 6A TYPE 6BX 10K Composite Flexible	Natural Gas, Condensate, Water	PL2567 Markham Platform Topside	Seabed portion under concrete mattresses / grout bags	Operational	Hydrocarbon

Table 2.4: Subsea Pipeline Stabilisation Features

Stabilisation Feature	Region	Total Number	Weight (Te)	Locations	Exposed/Buried/Condition
Concrete Mattresses	UK	32	192	Within 500m of Stamford wellhead	Exposed
	Netherlands	32	192	Within 500m of the Markham platform	Exposed
Grout Bags	UK	Approx. 100	2.5	Within 500m of Stamford wellhead (pipeline ends)	Exposed
	Netherlands	Approx. 100	2.5	Markham platform surrounding area	Exposed
Rock Dump	UK	Please refer Figure 2.3-1 below	5,356	For an indication of the distribution and location please refer sketch in Figure 2.3-1 below	Exposed
	Netherlands	Please refer Figure 2.3-1 below	3,847	For an indication of the distribution and location please refer sketch in Figure 2.3-1 below	Exposed

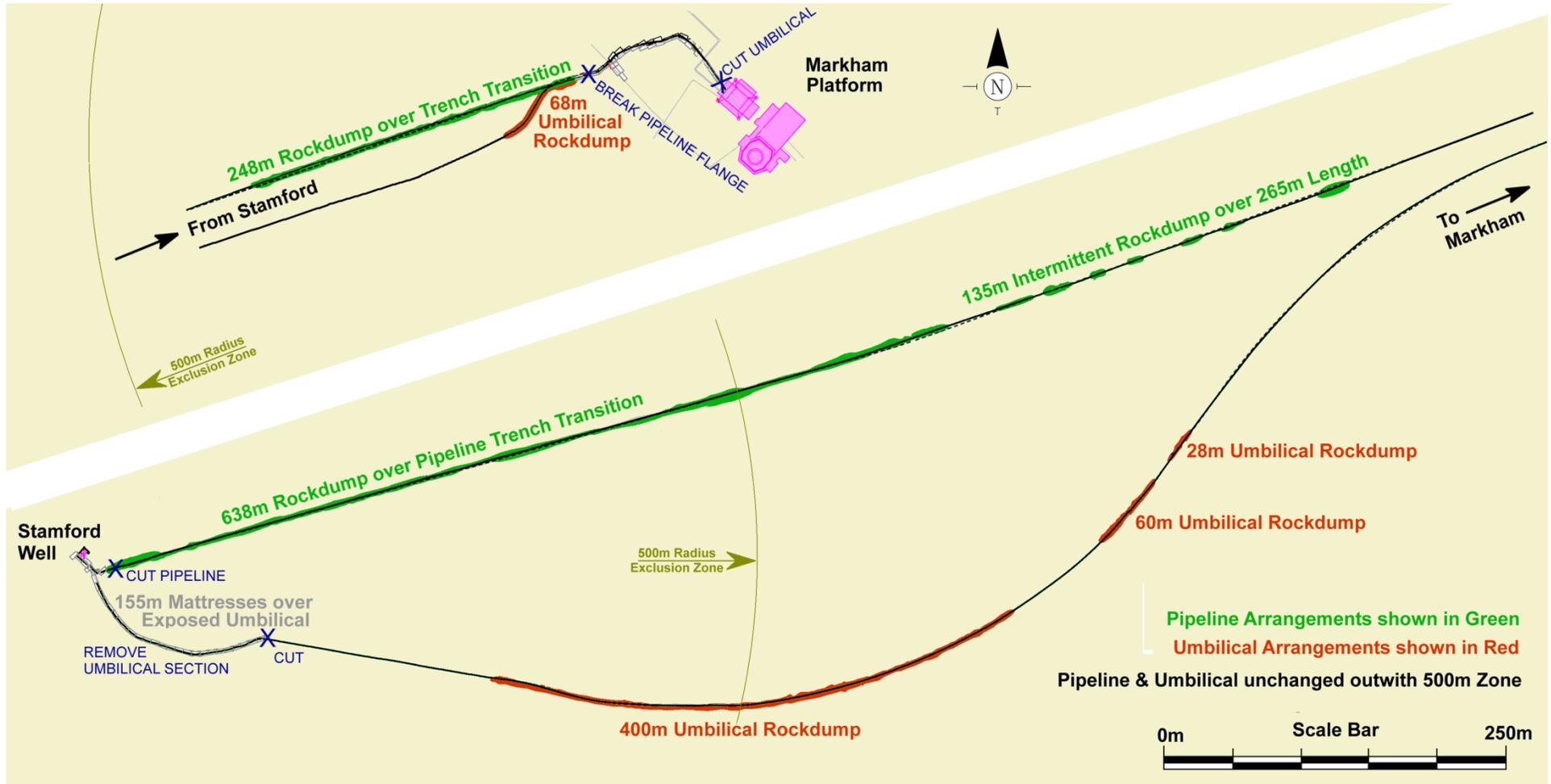


Figure 2.3-1: Sketch showing locations of rock dump and pipeline cut locations

2.4 Wells

Table 2.5: Well Information			
Platform Wells	Designation	Status	Category of Well
n/a			
Subsea Wells			
49/10b-3	Gas Production	Live and Shut In	3

For details of well categorisation see the Oil & Gas UK Guidelines for the Suspension or Abandonment of Wells. Issue 4, July 2012.

2.5 Drill Cuttings

(See Section 3.7 for further information)

Table 2.6: Drill Cuttings Pile Information		
Location of Pile Centre (Latitude/Longitude)	Seabed Area (m ²)	Estimated volume of cuttings (m ³)
No drill cuttings pile was found at Stamford. Refer [3] in section 7	n/a	n/a

2.6 Inventory Estimates

Please refer to section 5.6 in the Environmental Impact Assessment [1] for a discussion concerning the material inventory.

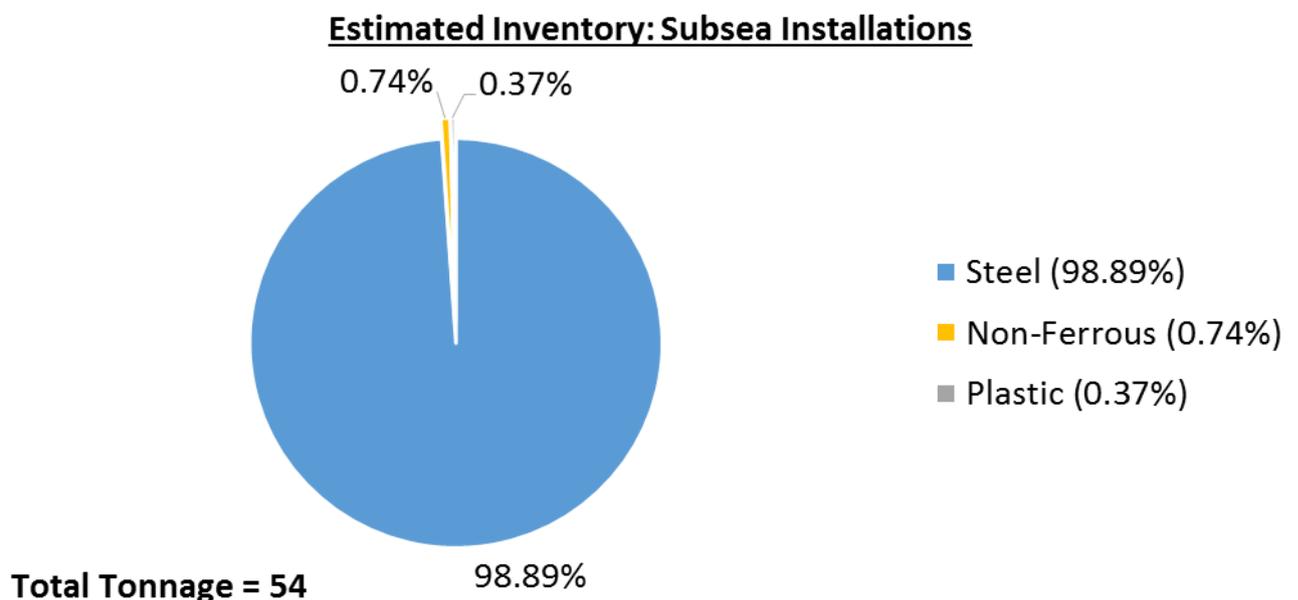
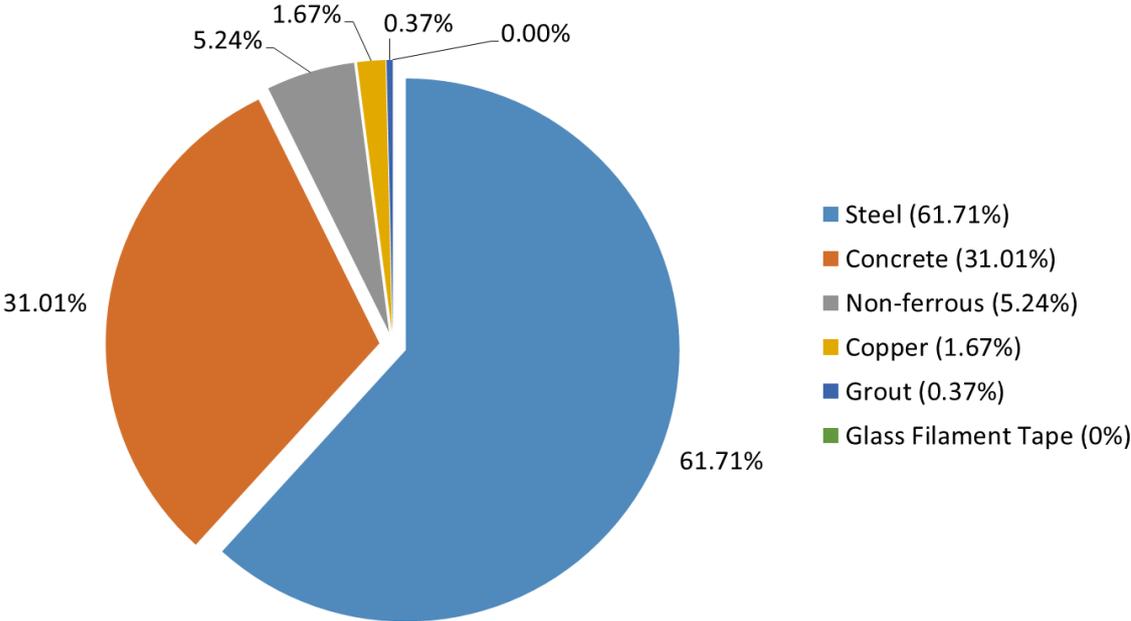


Figure 2.6-1: Pie Chart of Estimated Installation Inventory, in UK only

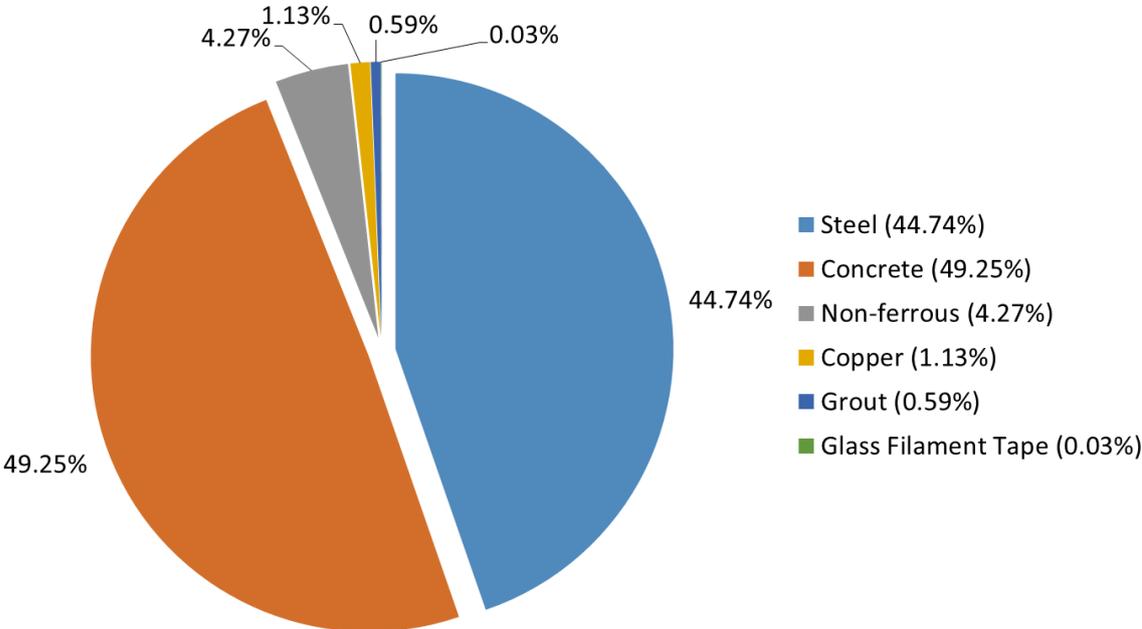
Estimated UK Material Inventory: Pipelines



Total Tonnage = 673

Figure 2.6-2: Pie Chart of Estimated Pipeline Inventory, UK

Estimated NL Material Inventory: Pipelines



Total Tonnage = 424

Figure 2.6-3: Pie Chart of Estimated Pipeline Inventory, NL

3. REMOVAL AND DISPOSAL METHODS

Wastes generated during decommissioning will be segregated and recorded by type and periodically transported to shore in an auditable manner through licensed waste contractors. Steel and other recyclable metals are estimated to account for the greatest proportion of the materials inventory.

3.1 Topsides

N/A

3.2 Jacket

N/A

3.3 Subsea Installation and Stabilisation Features

Table 3.1: Subsea Installation and Stabilisation Features			
Subsea installation and stabilisation features	Number	Option	Disposal Route (if applicable)
Wellhead	1	Full recovery as part of campaign to P&A wells	Return to shore for re-use, unless the condition is found to preclude refurbishment when it will be recycled.
Manifolds	n/a		
Templates	n/a		
Wellhead Protection Structure	1	Full recovery	Return to shore for re-use, unless the condition is found to preclude refurbishment when it will be recycled.
Tree	1	Full recovery	Return to shore for re-use, unless the condition is found to preclude refurbishment when it will be recycled.
Concrete Mattresses	n/a		
Grout Bags	n/a		
Formwork	n/a		
Froned Mats	n/a		
Rock Dump	n/a		
Other	n/a		

3.4 Pipelines

Decommissioning Options:

The two options considered for both flowline and umbilical are:

Option 1 – Complete removal

Option 2 – Partial removal and make safe the pipeline ends

Table 3.2: Pipeline or Pipeline Groups Decommissioning Options			
Pipeline or Group (as per PWA)	Condition of line/group (Surface laid/Trenched/ Buried/ Spanning)	Whole or part of pipeline/group	Decommissioning Options considered
PL2567	Trenched & buried	Whole pipeline	1, 2
PLU2568	Trenched & buried	Whole umbilical	1, 2

Comparative Assessment Method:

A comparative assessment of the decommissioning options was done in accordance with the Centrica Guidance for Comparative Assessments for Decommissioning. Each decommissioning option was qualitatively assessed against Safety, Environmental, Technical, Societal, and Cost criteria. Please refer [2] for details.

Outcome of Comparative Assessment:

Table 3.3: Outcomes of Comparative Assessment		
Pipeline or Group	Recommended Option	Justification
PL2567	Option 2. Partial removal: Leave <i>in situ</i> and remove part of the pipeline from under the nearest rock dump back to the Stamford wellhead in UKCS and unbolt the pipeline in the Markham platform 500m zone leaving the flexible riser with Markham platform for potential reuse.	<p>The majority of the pipeline will be left <i>in situ</i> due to technical difficulty and cost to remove. Most of the seabed area comprises 'silty fine sand with occasional shell fragments', while the sediment within the elevated south-west area is 'gravelly sand with occasional cobbles and boulders'.</p> <p>Although there are some short lengths with relatively shallow spots, for most of its length the pipeline is buried to a depth greater than 0.6m, and will be safe to leave <i>in situ</i>. Minimal seabed disturbance, lower energy usage, reduced risk to personnel. Please refer reference [2] Appendix B for burial profiles.</p> <p>In the UKCS the end of the pipeline in the Stamford 500m zone will be cut underneath the rock dump at the location shown in Figure 2.3-1. Here the pipeline will be cut from inside and retrieved from underneath the rock dump. This will involve the removal of approximately 40m of pipe spools and 12m of pipeline.</p> <p>In the NLCS the flexible riser to pipeline connection in the Markham 500m platform zone will be unbolted, with the flexible riser being repositioned slightly and left with the Markham platform for potential re-use. The remainder of the fixed pipeline in the NLCS will remain in place untouched. Stabilisation features such as concrete mattresses will be repositioned slightly to suit the adjusted location of the flexible riser but will essentially be left in place and decommissioned with the Markham platform.</p> <p>Monitoring to confirm the pipeline remains buried will be</p>

		done to a schedule agreed with DECC and SSM.
PLU2568	Option 2: Partial removal: Leave <i>in situ</i> and rectify exposed ends by cutting and removal; remove umbilical from inside J-tube at Markham	<p>The umbilical will be left <i>in situ</i> due to there being little to differentiate the decommissioning options except for cost. Most of the seabed area comprises 'silty fine sand with occasional shell fragments', while sediment within the elevated south-west area is 'gravelly sand with occasional cobbles and boulders'.</p> <p>In the UKCS and NLCS for the most part, the umbilical is either trenched and buried to a depth greater than 0.6m or rock dumped. The respective ends of the umbilical will be cut and removed as shown in Figure 2.3-1.</p> <p>In the UKCS outside the Stamford 500m zone, the short lengths of umbilical either side of the 60m rock dump shown in Figure 2.3-1 are buried to a depth slightly shallower than 0.6m but remain stable, so in these areas the umbilical will be left in place and untouched.</p> <p>In the UKCS an estimated 162m of umbilical measured from the wellhead will be removed to shore. It is intended to excavate to the cut location and backfill rather than cut the umbilical at surface and then trench and bury the end.</p> <p>In the NLCS at the Markham platform an estimated 91m length of umbilical will be cut and removed. This is the section routed between the concrete mattress protection and inside the J-tube up to the Markham topsides. The remaining umbilical within the Markham 500m zone and within the NLCS will remain <i>in situ</i> and covered with the same concrete protection mattresses used for the pipeline. This short section of umbilical will be decommissioned at the same time as the Markham platform sometime in future.</p> <p>Monitoring to confirm the umbilical remains buried will be done to a schedule agreed with DECC and SSM.</p>

3.5 Pipeline Stabilisation Feature(s)

Table 3.4: Pipeline Stabilisation Features				
Stabilisation features	Region	Number	Option	Disposal Route (if applicable)
Concrete Mattresses	UK	32	Full recovery	Recover to shore for re-use, recycling or disposal.
	Netherlands	32	Re-position with riser, then leave <i>in situ</i> for potential re-use	Leave <i>in situ</i> . Decommissioning deferred.
Grout Bags	UK	Approx. 100	Full recovery	Recover to shore for re-use, recycling or disposal.
	Netherlands	Approx. 100	Re-position with riser, then leave <i>in situ</i> for potential re-use	Leave <i>in situ</i> . Decommissioning deferred
Rock Dump	UK	5,356Te	Leave <i>in situ</i> .	Leave <i>in situ</i> . Please refer Figure 2.3-1 above
	Netherlands	3,847Te	Leave <i>in situ</i>	Leave <i>in situ</i> . Please refer Figure 2.3-1 above

3.6 Wells

Table 3.5: Well Plug and Abandonment
<p>The Stamford field consists of a single production well (49/10b-3). The well listed in Section 2.4 (Table 2.5) above will be plugged and finally abandoned in accordance with Oil and Gas UK Guidelines for the Suspension and Abandonment of Wells, Issue 4, July 2012. A Master Application Template (MAT) and the supporting Subsidiary Application Template (SAT) will be submitted in support of works carried out. A PON5 will also be submitted to DECC for application to abandon the wells. Plug and abandonment is scheduled to occur in 2015.</p>

3.7 Drill Cuttings

There are no existing drill cuttings piles associated with Stamford, as confirmed by a survey in the immediate vicinity of the wells, conducted in Q3 2013, reference document [3] in section 7.

3.8 Waste Streams

Table 3.6: Waste Stream Management Methods	
Waste Stream	Removal and Disposal method
Bulk liquids	The pipeline will be pigged and left filled with seawater. The flexible riser will be filled with potable water to preserve it for reuse. The corrosion inhibitor and methanol will be removed from the umbilical prior to the start of the decommissioning works. Any residual fluids from within the sections of pipeline and umbilical will be released to marine environment under permit prior to removal to shore. Further cleaning and decontamination will take place onshore prior to recycling / re-use.
Marine growth	Removed offshore. Disposed of according to guidelines and company policies.
NORM/LSA Scale	NORM is not expected. However, tests for NORM will be done offshore and any NORM encountered will be dealt with and disposed of in accordance with guidelines and company policies.
Asbestos	n/a
Other hazardous wastes	Will be recovered to shore and disposed of according to guidelines and company policies.
Onshore Dismantling sites	Appropriate licensed sites will be selected. Dismantling site must demonstrate proven disposal track record and waste stream management throughout the deconstruction process and demonstrate their ability to deliver innovative reuse and recycling options.

Table 3.7: Inventory Disposition					
Inventory (excludes rock)	Region	Total Inventory Tonnage	Planned tonnage to shore	Planned tonnage to be decommissioned <i>in situ</i>	Planned tonnage left <i>in situ</i> for potential re-use or deferred decommissioning
Installations	UK	54	54	0	0
	Netherlands	0	0	0	0
Pipelines	UK	673	222	451	0
	Netherlands	424	3	194	227

A distinction is made between the planned tonnage decommissioned *in situ* and that left for potential re-use. The planned tonnage decommissioned *in situ* comprises the flowline (inclusive of coating and an end flange) and umbilical. Centrica has identified a possible re-use opportunity for some items such as the flexible riser and associated stabilisation features in the vicinity of Markham platform. A small section of umbilical which shares stabilisation features with the flexible riser will also remain in place. These items will be decommissioned as part of the Markham platform inventory at some point in the future.

All recovered material will be transported to shore for re-use, recycling or disposal. It is not possible to predict the market for re-usable materials with any confidence; so the figures in Table 3.8 are aspirational.

Table 3.8: Re-use, Recycle & Disposal Aspirations for Material Recovered to Shore				
Inventory	Region	Re-use	Recycle	Disposal
Installations	UK (54 Tonnes)	Approx. 40%	Approx. 60%	<5%
	Netherlands	n/a	n/a	n/a
Pipelines	UK (222 Tonnes)	<5%	Approx. 95%	<5%
	Netherlands	<5%	Approx. 95%	<5%

For further information please refer the Environmental Statement [1], section 7. Any lengths of umbilical removed from NL will be recovered for disposal in the UK. Centrica has consulted with the Environment Agency who have advised that the pragmatic approach would be to treat the umbilical as waste in the country where it is landed, despite the fact that that some of the umbilical is situated in the Dutch sector. On this basis the Environment Agency would not seek to apply waste shipment controls to this part of the project.

4. ENVIRONMENTAL IMPACT ASSESSMENT

4.1 Environmental Sensitivities

Table 4.1: Environmental Sensitivities	
Environmental Receptor	Main Features
Conservation interests	There are no anticipated impacts on Annex I Habitats or Annex II species as a result of the decommissioning works. The proposed Markham Triangle MCZ (UK sector) and Cleaverbank SAC (NL sector) could be impacted should a large hydrocarbon release occur. However the likelihood of such an event is very low and the control and mitigation measures in place will minimise the impact therefore the residual risk to the areas is low. No additional conservation management is required.
Seabed	<p>The seabed in the area comprises two main sediment types: the majority of the area comprises 'silty fine sand with occasional shell fragments', while sediments within the elevated south-west area is 'gravelly sand with occasional cobbles and boulders'. Chemical analysis of the sediment has shown it to be comparable to that expected for the area.</p> <p>The pipeline will be pigged and flushed to remove hydrocarbons. The methanol and chemical injection lines in the umbilical line will also be flushed. Therefore, discharges to marine environment will be small and the impact of changes to the chemical composition of the sediment is low.</p> <p>That the pipeline and umbilical will be left <i>in situ</i> is not expected to have any effect as it will remain buried beneath the seabed and allowed to degrade and collapse naturally. The pipeline and umbilical ends will be dealt with in such a way that no residual hazard to marine users remains. Therefore an assessment of the potential for impact on the seabed concluded that the significance of the impacts is low.</p> <p>Impact on the seabed and its associated ecosystem will be short-term with rapid recovery.</p>
Atmosphere	<p>In general, conditions offshore provide an environment which will lead to rapid dispersion and dilution of any emissions to atmosphere. Impacts arising as a result of emissions from decommissioning activities (largely comprising combustion gases) are therefore likely to be short term and highly localised and assessed as of low significance.</p> <p>The emission of combustion gases will contribute to global effects (e.g. global warming and acid rain). However, given the relatively small volume of gases to be emitted and the control and mitigation measure that will be implemented the significance of the impact is low.</p>

Table 4.1: Environmental Sensitivities

Environmental Receptor	Main Features
Birds	<p>The greatest risk to birds from the Stamford activities would be the accidental occurrence of a large hydrocarbon release. Oil spill modelling has shown that should a worst case scenario diesel release occur, only small volumes can be expected to remain on the surface after 10 days. Although birds could be affected by the diesel release, given the nature of diesel and the relatively short duration it would be expected to remain on the sea surface (therefore being available to oil birds feathers) the potential impact is of low significance.</p>
Fish	<p>Fish populations in the area could be affected by chemical / hydrocarbon releases to the area, and of the increased noise.</p> <p>The pipeline and umbilical will be flushed and cleaned prior to the operations, therefore only relatively small volumes of chemicals will be released to the environment and these will be permitted under the Offshore Chemical Regulations. As such the impact of the releases on the fish population has been assessed as of low significance.</p> <p>Given the existing background noise levels and the relatively short duration of the Stamford decommissioning activities, the underwater noise levels generated during the decommissioning are unlikely to lead to physiological damage to fish therefore the significance of the impact has been assessed as low.</p>
Marine Mammals	<p>Given the existing background noise levels and the relatively short duration of the Stamford decommissioning activities, the underwater noise levels generated by vessels are unlikely to lead to physiological damage to marine mammals.</p> <p>The harbour porpoise is an Annex II (Habitats Directive) species which has been regularly sighted in the vicinity of Stamford. The locally resident or transiting populations of marine mammals may be disturbed by noise in the immediate vicinity, but any such disturbance is expected to be short-term with and the impact has been assessed as of low significance.</p>
Fishing industry	<p>Impacts on fishing industry have been assessed as of low significance as the decommissioning activities will be relatively short-term. The area will be over trawled to identify if there are snag hazards after the decommissioning activities have been completed. The safety exclusion zone at Stamford will be removed on completion of the project, thereby increasing the acreage available for fishing.</p>
Other Users of the Sea	<p>There will be a relatively short period when vessels will be operating around Stamford and there will be a higher than normal level of shipping activity. However, the associated effects will be short-term. The pipeline and umbilical will remain buried to a depth of greater than 0.6m below the seabed, therefore the long term impact of leaving these <i>in situ</i> on other users of the sea has been assessed as low.</p>
Onshore Communities	<p>The impact of the disposal of waste from the decommissioning activities on onshore communities would be slightly beneficial as it will contribute to the continuation of jobs. However this is expected to be small as the disposal sites already exist and the volume of waste is relatively small.</p>

4.2 Potential Environmental Impacts and their Management

Environmental Impact Assessment Summary:

There will be some planned and unplanned environmental impacts arising from decommissioning of the Stamford infrastructure (49/10b-3). Long-term environmental impacts from the decommissioning operations are expected to be low. Incremental cumulative impacts and trans-boundary effects associated with the planned decommissioning operations are also expected to be low. There will be a requirement for a new environmental management protection plan to be produced and submitted to DECC should the decommissioning programmes change.

Overview:

Table 4.2: Environmental Impact Management		
Activity	Main Impacts	Management
Topsides Removal	n/a	
Jacket /Floating Facility Removal	n/a	
Subsea Installation Removal	For decommissioning and removal of the WHPS and the wellhead the impacts are disturbance of the seabed by lifting, temporary lay down (if required) and possible dropped objects, noise from vessels and cutting and operational discharges from vessels. Impacts are expected to be short term and localised and of low significance.	Decommissioning activities will be planned to be executed as efficiently as possible, minimising cutting and disturbance of the seabed in order to reduce the potential for impact on the area around the wellhead. Vessels will be managed to minimise the durations required and associated discharged. In addition, on board operational practices will address fuel efficiency, noise management and minimise waste.
Decommissioning Pipelines	Decommissioning of the pipeline and umbilical <i>in situ</i> will require activities such as local jetting, cutting and temporary lay down of equipment or components. For the most part decommissioning of the umbilical will require it to be severed and removed from the J-tube at the Markham platform and recovered to shore. At Stamford a section of the umbilical will be recovered to shore. Any exposed ends at Stamford will be cut back at the buried location. At the Markham platform some mattresses will be relocated. Removed components will be	Decommissioning activities will be planned to be executed as efficiently as possible, minimising cutting and disturbance of the seabed in order to reduce the potential for impact on the area around the pipeline and umbilical. Consideration will be given where equipment and/or components should be temporarily laid down on the seabed prior to removal. Vessels will be managed to minimise the durations required and associated discharged. In addition, on board operational practices will address fuel efficiency, noise management and minimise waste.

Table 4.2: Environmental Impact Management

Activity	Main Impacts	Management
	<p>lifted from the seabed by DSV. Principal impacts will include disturbance of the seabed and noise from removal and cutting activities plus operational support vessels. These effects are expected to be short term and localised. The seabed and associated ecosystem is expected to recover rapidly once activities cease.</p>	
Decommissioning Stabilisation Features	<p>The decommissioning programme includes the removal of concrete mattresses and grout bags which may be temporarily laid down on the seabed. Mattresses and grout bags will be lifted from the seabed by DSV. Impacts will include disturbance of the seabed and noise from vessels. These effects are expected to be short-term and localised. The seabed and associated ecosystem is expected to recover rapidly once activities cease.</p>	<p>Decommissioning activities will be planned to be executed as efficiently as possible, minimising cutting and disturbance of the seabed in order to reduce the potential for impact.</p> <p>Consideration will be given to how the work is to be conducted and where equipment and/or components should be temporarily laid down prior to removal.</p> <p>Vessels will be managed to minimise the durations required and associated discharges. In addition on board operational practices will address fuel efficiency, noise management and minimise waste.</p>
Decommissioning Drill Cuttings	n/a	

5. INTERESTED PARTY CONSULTATIONS

Consultations Summary:

During the public consultation period (02 February to 03 March 2015), copies of the Decommissioning Programmes and supporting documents were forwarded to the following Statutory Consultees:

- The National Federation of Fishermen's Organisations (NFFO);
- The Scottish Fishermen's Federation (SFF);
- The Northern Ireland Fish Producer's Organisation (NIFPO); and,
- Global Marine Systems Limited (GMS).

Meetings and telephone calls have been held with NFFO to advise of progress and to provide more detail of the proposals.

We also sent copies of the Decommissioning Programmes and supporting documents to SMart Wind Ltd.

Copies of the Decommissioning Programmes and supporting documents were also made available as a download from the Stamford Decommissioning website: <http://www.centricaenergy.com/stamford>

A bound copy of the Decommissioning Programmes was also made available in the Great Yarmouth Community Library.

A public notice was published in the Eastern Daily Press and the London Gazette on 02 and 03 February 2015 respectively (please refer to Appendix B.1 for a copy of the public notice). The public notice gave instructions for representations to be made in writing by Tuesday 03 March 2015. Centrica received no comments or any written or verbal representation from the public in direct response to the public notice or during the public consultation period.

Copies were also submitted for consideration to DECC.

Table 5.1: Summary of Stakeholder Comments		
Stakeholder	Comment	Response
INFORMAL CONSULTATIONS		
SMart Wind Ltd	SMart Wind Ltd have no concerns and no comment to make in relation to the Draft Stamford Decommissioning Programmes and Comparative Assessment.	Refer Appendix B.6
STATUTORY CONSULTATIONS		
NFFO	Having been in regular contact with regards to the decommissioning we at the Federation have no adverse comment to make.	Refer Appendix B.2 The NFFO have been provided with a copy of the rig schedule and will be informed with regards to timing of decommissioning operations
SFF	Given the location of the Stamford installation (Southern North Sea), SFF would be in agreement with any comments and recommendations made on this decommissioning project by the National Federation of Fishermen's Organisation (NFFO).	Refer Appendix B.3
NIFPO	This field is outside the main area of operation for our members and as such we have no comment to make on the proposals.	Refer Appendix B.4
Global Marine Systems	<p>No further comments have been received from colleagues, and with specific comments on the programme of works itself as no cables should be directly affected in the immediate vicinity, and if any interaction were unexpectedly to be necessary in the course of engineering the project, then it would be necessary to liaise with specific cable owners. The closest cable is NSC-1 owned by Tampnet.</p> <p>Contact details and general cable information can be found using KIS-ORCA cable awareness charts/interactive map http://www.kis-orca.eu/map#.VPmDJHZFDIU.</p> <p>We recommend that when notice to mariners were arranged for the offshore works, then the kingfisher fortnightly bulletin be updated to include details of the works to inform sea users as well as notifying the relevant authorities and UKHO.</p>	Refer Appendix B.5 Centrica will keep Kingfisher informed of any planned operations
Public	No concerns or objections were raised.	

6. PROGRAMME MANAGEMENT

6.1 Project Management and Verification

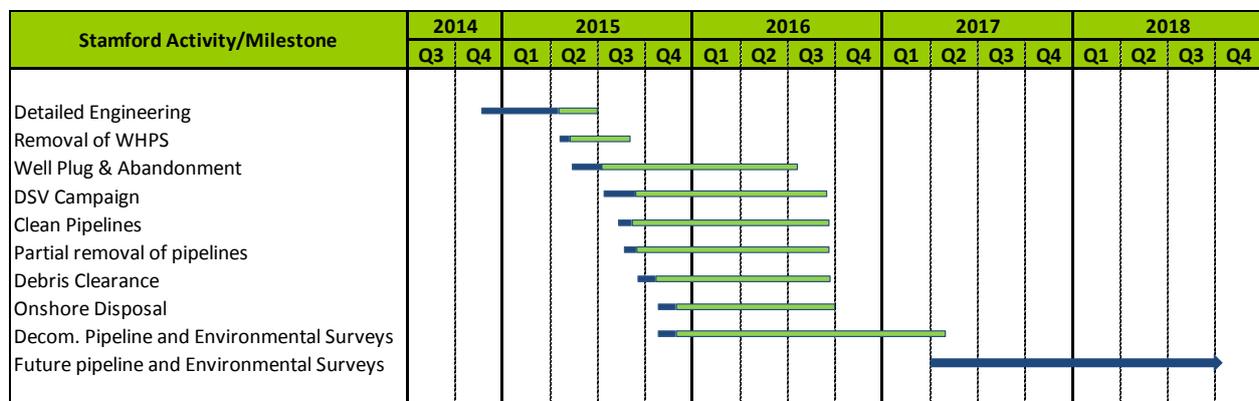
A Centrica project management team will be appointed to manage the operations of competent contractors selected for all decommissioning activities. The team will ensure decommissioning is executed safely, in accordance with legislation, Centrica Health and Safety principles. If required, any changes to the Decommissioning Programmes will be discussed with DECC and any necessary approval sought.

6.2 Post-Decommissioning Debris Clearance and Verification

A post-decommissioning environmental seabed survey at the Stamford wellhead location and along the pipeline and umbilical route will be compared with the pre-decommissioning environmental survey. Results of this survey will be available once the work is complete, with a copy forwarded to DECC.

All pipeline routes and the Stamford installation site will be the subject of debris and trawlability surveys when decommissioning activities have concluded. The survey will include a 200 metre-wide corridor along the pipeline and umbilical routes and the wellhead 500 metre zone. Any seabed oil and gas debris will be recovered for onshore disposal or recycling in line with existing disposal methods. Independent verification of seabed state will be obtained by trawling the well and pipeline area and this will be supported by a Certificate of Clearance. This will be included in the Close Out Report and sent to the Seabed Data Centre (Offshore Installations) at the Hydrographic Office.

6.3 Schedule



Key
 Earliest potential activity ■
 Activity window to allow flexibility with availability of Drill Rig and DSV ■

Figure 6.3-1: Gantt Chart of Project Plan

6.4 Costs

Table 6.1: Cost of Provisional Decommissioning Programmes	
Item	Estimated Cost (£m)
Platform(s) /Jacket(s) - Preparation / Removal and Disposal	n/a
Pipeline, Umbilical and Subsea Installation Decommissioning	13.6
Well Abandonment	9.5
Future Pipeline and Environmental Survey Requirements*	1.0
TOTAL	24.1

* Based on four inspections - Two environmental and two pipeline surveys

6.5 Close Out

A close out report will be submitted to DECC within four months of the completion of the offshore work, including debris clearance and post-decommissioning surveys, as required in DECC Guidance Notes. The report will explain any variance from the Decommissioning Programmes.

6.6 Post-Decommissioning Monitoring and Evaluation

After decommissioning has been completed, pipeline status surveys and environmental surveys will be done with the findings being sent to DECC. The frequency of future surveys will be agreed with DECC and State Supervision of Mines in Netherlands.

7. SUPPORTING DOCUMENTS

Table 7.1: Supporting Documents	
Document Number	Title
[1] CEU-HSEQ-GMA0042-REP-0002	Stamford Development Decommissioning Environmental Statement
[2] CEU-PRJ-GMA0042-REP-0010	Stamford Decommissioning Comparative Assessment
[3] FSLTD Report No: 131229.4V2.2. Fugro EMU Report No: J/3/25/2595	Volume 2 of 2: Pre-Decommissioning Environmental Survey

APPENDIX A BURIAL PROFILES – PIPELINE & UMBILICAL

Appendix A.1 Burial Profile - Pipeline

Stamford pipeline survey data from 2014 is presented in Figure 6.6-1 below, where the Markham platform is depicted at KP0, and the Stamford well at KP7.4. The pipeline shows excellent levels of burial along the majority of the length.

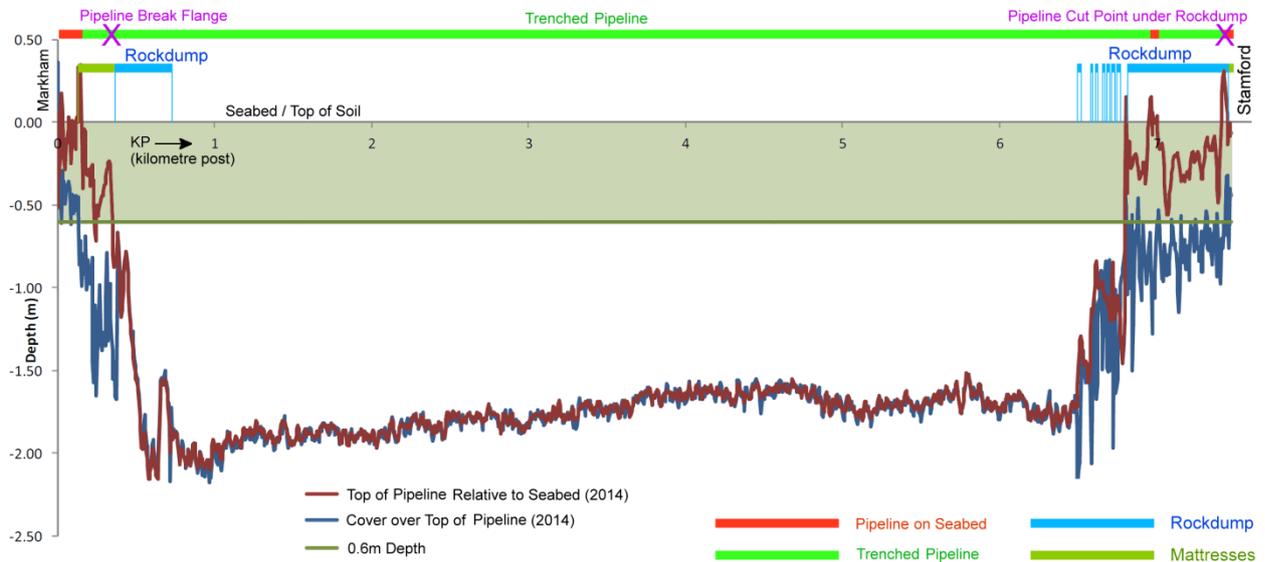


Figure 6.6-1: Pipeline burial profile

KP6.4 onwards is shown in Figure 6.6-2 where towards the well end the pipeline rises out of the trench into a length buried in rock dumped. The survey shows consistent cover of 0.6m above the pipeline (pipeline depth of cover is indicated by the solid blue line).

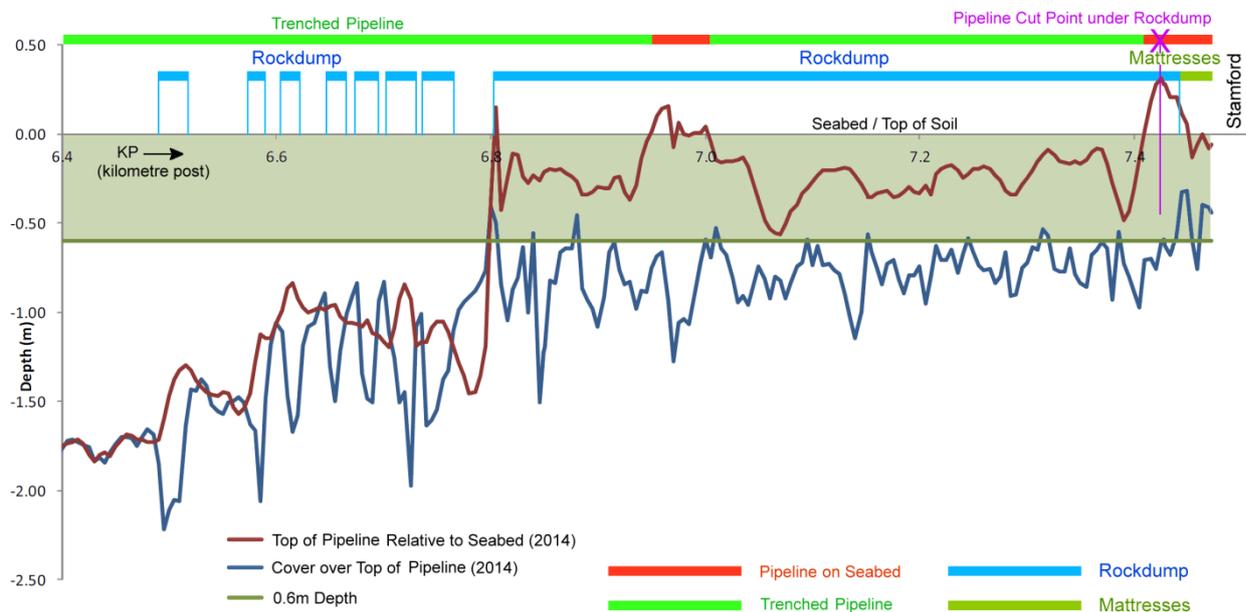


Figure 6.6-2: Pipeline burial profile at Stamford well end

APPENDIX B PUBLIC NOTICE & CONSULTEE CORRESPONDENCE

Appendix B.1 Public Notices

<p style="text-align: center;">Public Notice The Petroleum Act 1998 STAMFORD DECOMMISSIONING PROJECT</p> <p>Centrica North Sea Gas Ltd has submitted, for the consideration of the Secretary of State for Energy and Climate Change, draft Decommissioning Programmes for the Stamford installation and associated pipelines in accordance with the provisions of the Petroleum Act 1998. It is a requirement of the Act that interested parties be consulted on such decommissioning proposals.</p> <p>The facilities covered by the Decommissioning Programmes are:</p> <ul style="list-style-type: none"> • The Stamford field, 140km offshore UK, block 49/10c in the southern North Sea, including the wellhead, wellhead protection structure and tree. • The flowline, umbilical and flexible riser connecting Stamford to the nearby Markham platform offshore Netherlands. • The concrete mattresses, grout bags and rock dump used as subsea pipeline stabilisation features offshore UK and offshore Netherlands. <p>Centrica North Sea Gas Ltd hereby gives notice that a summary of the Stamford Decommissioning Programmes can be viewed at the internet address: www.centricaenergy.com/stamford</p> <p>Alternatively a copy of the Programmes can be inspected by contacting Ross Davidson, External Communications Manager, at the following location during office hours: Centrica Energy, iQ Building, 15 Justice Mill Lane, Aberdeen AB11 6EQ</p> <p>A copy of the Programmes will also be made available at Great Yarmouth Community Library, Tolhouse Street, Great Yarmouth, Norfolk, NR30 2SH.</p> <p>Representations regarding the Stamford Decommissioning Programme should be submitted in writing to Ross Davidson, External Communications Manager, at the above address. Representations should be received by Tuesday, 3 March, 2015, and should state the grounds upon which any representations are being made.</p> <p>Date: 2 February, 2015 Ross Davidson, External Communications Manager, Centrica Energy, iQ Building, 15 Justice Mill Lane, Aberdeen, AB11 6EQ</p>	<h2 style="text-align: center;">ENVIRONMENT & INFRASTRUCTURE</h2> <p style="text-align: center;">ENERGY</p> <p style="text-align: center;">CENTRICA NORTH SEA GAS LTD THE PETROLEUM ACT 1998 STAMFORD DECOMMISSIONING PROJECT</p> <p>Centrica North Sea Gas Ltd has submitted, for the consideration of the Secretary of State for Energy and Climate Change, draft Decommissioning Programmes for the Stamford installation and associated pipelines in accordance with the provisions of the Petroleum Act 1998. It is a requirement of the Act that interested parties be consulted on such decommissioning proposals.</p> <p>The facilities covered by the Decommissioning Programmes are:</p> <ul style="list-style-type: none"> • The Stamford field, 140km offshore UK, block 49/10c in the southern North Sea, including the wellhead, wellhead protection structure and tree. • The flowline, umbilical and flexible riser connecting Stamford to the nearby Markham platform offshore Netherlands. • The concrete mattresses, grout bags and rock dump used as subsea pipeline stabilisation features offshore UK and offshore Netherlands. <p>Centrica North Sea Gas Ltd hereby gives notice that a summary of the Stamford Decommissioning Programmes can be viewed at the internet address: www.centricaenergy.com/stamford</p> <p>Alternatively a copy of the Programmes can be inspected by contacting Ross Davidson, External Communications Manager, at the following location during office hours: Centrica Energy iQ Building 15 Justice Mill Lane Aberdeen AB11 6EQ</p> <p>A copy of the Programmes will also be made available at Great Yarmouth Community Library, Tolhouse Street, Great Yarmouth, Norfolk, NR30 2SH.</p> <p>Representations regarding the Stamford Decommissioning Programme should be submitted in writing to Ross Davidson, External Communications Manager, at the above address. Representations should be received by Tuesday, 3 March, 2015, and should state the grounds upon which any representations are being made.</p>
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Public Notices: Eastern Daily Press (02 Feb 2015) & The London Gazette (03 Feb 2015)

Appendix B.2 NFFO – Mr Alan Piggott via Email

From: Alan Piggott [<mailto:Alan@nffo.org.uk>]
Sent: 06 March 2015 10:32
To: Axon, Simon
Cc: info@nffoservices.com; Watson, John; Davidson, Ross
Subject: RE: QUERY: Rose Field Decommissioning Proposals

Good morning Simon
Please accept my apologies for the lateness of this reply, having been in regular contact with regards to the decommissioning we at the Federation have no adverse comment to make.
With the support of NFFO Services with regards to the supply of Guard vessels for the programme we feel it should be a successful operation.

Best Regards
Alan Piggott
General Manager
National Federation of Fishermen's Organisations
30 Monkgate, York, YO31 7PF

From: Davidson, Ross [<mailto:Ross.Davidson@centrica.com>]
Sent: 30 January 2015 12:12
To: apiggott@nffo.org.uk
Cc: Aberdeen DC
Subject: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment
Attachments: CEU-PRJ-GMA0042-REP-0009; CEU-PRJ-GMA0042-REP-0010

Dear Alan,

Centrica North Sea Gas Ltd has submitted, for the consideration of the Secretary of State for Energy and Climate Change, draft Decommissioning Programmes for the Stamford installation and associated pipelines in accordance with the provisions of the Petroleum Act 1998. It is a requirement of the Act that interested parties be consulted on such decommissioning proposals.

The facilities covered by the Decommissioning Programmes are:

- The Stamford field, 140km offshore UK block 49/10c in the southern North Sea, including the wellhead, wellhead protection structure and tree.
- The flowline, umbilical and flexible riser connecting Stamford to the nearby Markham platform offshore Netherlands
- The concrete mattresses, grout bags and rock dump used as subsea pipeline stabilisation features.

Centrica North Sea Gas Ltd hereby gives notice that from Monday, 02 February, 2015, the Stamford Decommissioning Programmes can be viewed at the internet address: www.centricaenergy.com/stamford
Alternatively, electronic copies of the Decommissioning Programmes and Comparative Assessment are attached to this email.

Separately you will receive a document transmittal from our document control department, please can you return this to acknowledge receipt.

Please can you confirm that you've received all the information you require, and if you have any questions or concerns, please make any representations to the undersigned by Monday, 2 March, 2015.

Best regards,
Ross Davidson
External Communications Manager
Centrica Energy Exploration & Production
+44 (0) 7557 617098
www.centricaenergy.com/upstream

Centrica Energy Exploration & Production, iQ Building, 15 Justice Mill Lane, Aberdeen, AB11 6EQ

Appendix B.3 SFF - Mr. John Watt via Email

From: John Watt [<mailto:J.Watt@sff.co.uk>]

Sent: 26 February 2015 14:48

To: Davidson, Ross

Cc: Axon, Simon; Steven Alexander

Subject: RE: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment

Good afternoon Ross,

Given the location of the Stamford installation (Southern North Sea), we would be in agreement with any comments and recommendations made on this decommissioning project by our colleagues from National Federation of Fishermen's Organisation (NFFO).

Kind regards,

John

John Watt

Industry Advisor

Scottish Fishermen's Federation

24 Rubislaw Terrace, Aberdeen, AB10 1XE

From: Davidson, Ross [<mailto:Ross.Davidson@centrica.com>]

Sent: 30 January 2015 12:13

To: j.watt@sff.co.uk

Cc: Aberdeen DC

Subject: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment

Attachments: CEU-PRJ-GMA0042-REP-0009; CEU-PRJ-GMA0042-REP-0010

Dear John,

Centrica North Sea Gas Ltd has submitted, for the consideration of the Secretary of State for Energy and Climate Change, draft Decommissioning Programmes for the Stamford installation and associated pipelines in accordance with the provisions of the Petroleum Act 1998. It is a requirement of the Act that interested parties be consulted on such decommissioning proposals.

The facilities covered by the Decommissioning Programmes are:

- The Stamford field, 140km offshore UK block 49/10c in the southern North Sea, including the wellhead, wellhead protection structure and tree.
- The flowline, umbilical and flexible riser connecting Stamford to the nearby Markham platform offshore Netherlands
- The concrete mattresses, grout bags and rock dump used as subsea pipeline stabilisation features.

Centrica North Sea Gas Ltd hereby gives notice that from Monday, 2 February, 2015, the Stamford Decommissioning Programmes can be viewed at the internet address: www.centricaenergy.com/stamford

Alternatively, electronic copies of the Decommissioning Programmes and Comparative Assessment are attached to this email.

Separately you will receive a document transmittal from our document control department, please can you return this to acknowledge receipt.

Please can you confirm that you've received all the information you require, and if you have any questions or concerns, please make any representations to the undersigned by Monday, 2 March, 2015.

Best regards,

Ross Davidson

External Communications Manager

Centrica Energy Exploration & Production

+44 (0) 7557 617098

www.centricaenergy.com/upstream

Centrica Energy Exploration & Production, iQ Building, 15 Justice Mill Lane, Aberdeen, AB11 6EQ

Appendix B.4 NIFPO - Mr. Ian Kelly via Email

From: Ian Kelly [<mailto:nifpo@btconnect.com>]

Sent: 06 March 2015 11:21

To: Axon, Simon

Subject: RE: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment

Simon

As per phone call, this field is outside the main area of operation for our members and as such we have no comment to make on the proposals.

Ian

From: Davidson, Ross [<mailto:Ross.Davidson@centrica.com>]

Sent: 30 January 2015 12:13

To: info@anifpo.com

Cc: Aberdeen DC

Subject: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment

Attachments: CEU-PRJ-GMA0042-REP-0009; CEU-PRJ-GMA0042-REP-0010

Dear sir/madam,

Centrica North Sea Gas Ltd has submitted, for the consideration of the Secretary of State for Energy and Climate Change, draft Decommissioning Programmes for the Stamford installation and associated pipelines in accordance with the provisions of the Petroleum Act 1998. It is a requirement of the Act that interested parties be consulted on such decommissioning proposals.

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Best regards,

Ross Davidson

External Communications Manager

Centrica Energy Exploration & Production

+44 (0) 7557 617098

www.centricaenergy.com/upstream

Centrica Energy Exploration & Production, iQ Building, 15 Justice Mill Lane, Aberdeen, AB11 6EQ

Appendix B.5 Global Marine Systems Ltd – Mr John Wrottesley via Email

From: Wrottesley, John (GMSL) [<mailto:John.Wrottesley@globalmarinesystems.com>]

Sent: 06 March 2015 10:46

To: Axon, Simon

Cc: Davidson, Ross; Kabra, Girish

Subject: RE: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment

Hi Simon,

I have not received any further comments from colleagues, and don't have any specific comments on the programme of works itself as no cables should be directly affected in the immediate vicinity, and if any interaction were unexpectedly to be necessary in the course of engineering the project, then it would be necessary to liaise with specific cable owners. The closest cable is NSC-1 owned by Tampnet. Contact details and general cable information can be found using KIS-ORCA cable awareness charts/interactive map <http://www.kis-orca.eu/map#.VPmDJHZFDIU>.

I would recommend that when notice to mariners were arranged for the offshore works, then the [kingfisher fortnightly bulletin](#) be updated to include details of the works to inform sea users as well as notifying the relevant authorities and UKHO.

Kind regards,

John

From: Davidson, Ross [<mailto:Ross.Davidson@centrica.com>]

Sent: 30 January 2015 12:14

To: john.wrottesley@globalmarinesystems.com

Cc: Aberdeen DC

Subject: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment

Attachments: CEU-PRJ-GMA0042-REP-0009; CEU-PRJ-GMA0042-REP-0010

Dear John,

Centrica North Sea Gas Ltd has submitted, for the consideration of the Secretary of State for Energy and Climate Change, draft Decommissioning Programmes for the Stamford installation and associated pipelines in accordance with the provisions of the Petroleum Act 1998. It is a requirement of the Act that interested parties be consulted on such decommissioning proposals.

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Best regards,

Ross Davidson

External Communications Manager

Centrica Energy Exploration & Production

+44 (0) 7557 617098

www.centricaenergy.com/upstream

Centrica Energy Exploration & Production, iQ Building, 15 Justice Mill Lane, Aberdeen, AB11 6EQ

Appendix B.6 SMart Wind Ltd – Mr. Chris Jenner via Email

From: Chris Jenner [<mailto:Chris.Jenner@mainstreamrp.com>]

Sent: 30 January 2015 13:40

To: Davidson, Ross

Cc: DL-aberdeenDC; Sara Thomas

Subject: RE: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment

Ross

Many thanks for your consultation information.

I can confirm on behalf of SMart Wind Ltd, developer of the Hornsea Round 3 Offshore Wind Farm, that we have no concerns and no comment to make in relation to the Draft Stamford Decommissioning Programmes and Comparative Assessment.

Kind regards,

Chris

Chris Jenner

Development & Consents Manager

Mainstream Renewable Power, 11th Floor, 140 London Wall, London EC2Y 5DN

From: Davidson, Ross [<mailto:Ross.Davidson@centrica.com>]

Sent: 30 January 2015 12:15

To: chris.jenner@mainstreamrp.com

Cc: Aberdeen DC

Subject: REQUEST: Submission of Draft Stamford Decommissioning Programmes and Comparative Assessment

Attachments: CEU-PRJ-GMA0042-REP-0009; CEU-PRJ-GMA0042-REP-0010

Dear Chris,

Centrica North Sea Gas Ltd has submitted, for the consideration of the Secretary of State for Energy and Climate Change, draft Decommissioning Programmes for the Stamford installation and associated pipelines in accordance with the provisions of the Petroleum Act 1998. It is a requirement of the Act that interested parties be consulted on such decommissioning proposals.

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Separately you will receive a document transmittal from our document control department, please can you return this to acknowledge receipt.

Please can you confirm that you've received all the information you require, and if you have any questions or concerns, please make any representations to the undersigned by Monday, 2 March, 2015.

Best regards,

Ross Davidson

External Communications Manager

Centrica Energy Exploration & Production

+44 (0) 7557 617098

www.centricaenergy.com/upstream

Centrica Energy Exploration & Production, iQ Building, 15 Justice Mill Lane, Aberdeen, AB11 6EQ