

HUNTINGTON Decommissioning Programme for FPSO Float-off

FINAL VERSION – 31 March 2020

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Approvals

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Terms and Abbreviations

Abbreviation	Explanation
CATS	Central Area Transmission System
CoR	Close-out Report
DP	Decommissioning Programme
DPN	Disused Pipeline Notification
DSV	Diving Support Vessel
DUTA	Dynamic Umbilical Termination Assembly
EA	Environmental Appraisal
ECH	Electric, Chemical, Hydraulic (subsea umbilical)
EMT	Environmental Management Team
ESDV	Emergency Shut-down Valve
FPSO	Floating Production Storage and Offloading
HSE	Health & Safety Executive
Km	Kilometre
LSA	Low Specific Activity
m	Metre
MCA	Maritime and Coastguard Agency
N/A	Not Applicable
NORM	Naturally Occurring Radioactive Material
ODU	Offshore Decommissioning Unit
OEI	Offshore Environmental Inspectorate
OGA	Oil & Gas Authority
OPRED	Offshore Petroleum Regulator for Environment and Decommissioning
PLANC	Permits, Licences, Authorisations, Notifications and Consents (management system)
PWA	Pipeline Works Authorisation
SEPA	Scottish Environmental Protection Agency
SFF	Scottish Fishermen's Federation
SSIV	Subsea Isolation Valve
Te	Tonne
TFSW	Trans Frontier Shipment of Waste
UKCS	United Kingdom Continental Shelf
UTA	Umbilical Termination Unit
VSS	Valve Support Structure
XT	Christmas Tree

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1 EXECUTIVE SUMMARY

1.1 Decommissioning Programme

This document contains the Decommissioning Programme for the departure of the Voyageur Spirit Floating Production Storage and Offloading (FPSO) facility and the removal of the associated riser system from the Huntington field.

The remaining Huntington field infrastructure which is on the Section 29 Notice will be subject to a separate Decommissioning Programme at the end of field life.

The Voyageur Spirit will be utilised for the initial decommissioning activities, namely the flushing/de-oiling of the subsea infrastructure i.e. manifolds, risers, subsea pipelines and umbilical, and to support with the implementation of positive isolations. The FPSO is then not required to perform any further decommissioning related activities on the subsea infrastructure after completion of the decommissioning activities above, and it is proposed that the vessel is removed thereafter from its current location. Activities associated with subsequent decommissioning stages of the subsea pipelines, umbilical, risers and other subsea infrastructure will require the services provided by other specialist vessels.

The early removal of this Installation will not prejudice any further decommissioning work in the Huntington Field.

1.2 Requirement for Decommissioning Programme

Installation(s):

In accordance with the Petroleum Act 1998, the Section 29 notice holders of the Huntington Field's Floating Production Facility (Voyageur Spirit) are notifying The Offshore Petroleum Regulator for Environment and Decommissioning (OPRED) of the intention to re-use the Voyageur Spirit at different location and that the Section 29 notice holders of the Huntington Field's subsea installations (see Table 1.1) are notifying and are applying to OPRED to obtain approval for decommissioning the subsea installations

Pipeline(s):

In accordance with the Petroleum Act 1998, the Section 29 notice holders of the Huntington pipelines (see Table 1.2) are applying to the Offshore Petroleum Regulator for Environment and Decommissioning (OPRED) to obtain approval for decommissioning the pipelines detailed in Section 2.2 of this programme.

Premier Oil have investigated various alternative production strategies to further extend the life of the Huntington field, but no viable alternative to decommissioning has been identified. Options considered by Premier Oil to extend field life included:

- Near-field tie-back opportunities
- Enhanced Oil Recovery methods
- Alternative offtake routes

The Huntington field is currently producing via Teekay’s Voyageur Spirit FPSO (“Voyageur”), and the operation will be continued until relevant notices are made to cease production.

Currently, alternative production strategies have been found to be uneconomic. A Cessation of Production application for the field has been discussed with and submitted to the Oil and Gas Authority, and was approved on 26/11/2019.

This Decommissioning Programme is submitted in compliance with national and international regulations and OPRED guidelines. The schedule outlined in this document is for a two year decommissioning project plan due to begin in April 2020.

Table1.1 Installations Section 29 Notice Holders Details

Section 29 Notice Holder	Registration Number	Equity Interest (%)
Voyageur L.L.C.	962014	100 (FPSO)
Premier Oil E&P UK Limited	02761032	100 (Subsea Equipment)
Premier Oil PLC	SC234781	0%
Iona UK Huntington Limited	07385624	Exited
Noreco Oil (UK) Limited	03629582	Exited
Premier Oil UK Limited	SC048705	Exited
Sevan 300 PTE. LTD.	200510084Z	Exited
Teekay Offshore Partners L.P.	MH30036AQ	Exited

Table 1.2 Pipeline Section 29 Notice Holder Details

Section 29 Notice Holder	Registration Number	Equity Interest (%)
Premier Oil E&P UK Limited	02761032	100.00
Premier Oil PLC	SC234781	0%
Noreco Oil (UK) Limited	03629582	Exited
IONA UK Huntington Limited	07385624	Exited
Premier Oil UK Limited	SC048705	Exited

1.3 Overview of Infrastructure Being Decommissioned

The Huntington Field is located in block 22/14b of the Central North Sea, approximately 230km from Aberdeen, 28km from the UK/NOR median line, in a water depth of approximately 89m. Production started in 2013. Produced oil is stored in cargo oil tanks and exported using shuttle tankers. Dehydrated gas is also exported to shore via the Central Area Transmission System.

Removal of the Voyageur Spirit FPSO is part of the overall Huntington Field decommissioning project, the scope of which is split up into three phases, proposed to be executed over a seven year period. The FPSO will be removed in phase 1, as described in this Decommissioning Programme. Preparation for removal includes flushing of the FPSO systems and subsea infrastructure, implementation of the required isolations, disconnection and removal of dynamic risers/umbilical. Disconnection and removal of the mooring system is also included in this phase.

The remaining subsea infrastructure (pipelines, structures and stabilisation features) will be decommissioned during phase 2; the wells plugging and abandoned (including drill template removal), environmental surveys, debris clearance (and verification) will be carried out in phase 3. Both 2nd and 3rd phases will be covered by the Huntington Field Decommissioning Programmes.

Following disconnection, the Huntington Christmas Trees (XTs) will have fully tested barriers and will be positively isolated using fully-rated flanges; and they are physically protected inside a template structure. Premier Oil will carry out a risk assessment to determine the required frequency of integrity tests and visual inspections of the disconnected wells in the interim period, based on their conditions and following industry guidelines.

The FPSO is on the Huntington Field under a Lease and Operate Contract between Premier Oil and Teekay. As Teekay's business model includes the deployment and re-deployment of floating production facilities, leading up to CoP and/or post Phase 1 decommissioning, Teekay will pursue and/or secure alternative arrangements for re-deployment of the floating production facility.

Removal of the mooring system (lines and anchors) is subject to marine coastal regulations. Information on the installations is provided below. The mooring system will be included in the initial screening for the Comparative Assessment input to the Huntington Decommissioning Programme. Depressions / berms associated with the removal of the mooring system, which are capable of posing a hazard to future commercial fishing operations, will be mitigated. If an anchor cannot be removed, a dialogue will be opened with OPRED to agree an alternative decommissioning approach.

The subsea infrastructure to be removed under this Decommissioning Programme consists of the 8" Huntington Gas Export/Import riser, 8" Production riser, 8" Water Injection riser, 4" Gas Lift riser, the dynamic section of the ECH Control Umbilical and XT drop-down spools. There are 69 concrete mattresses associated with the above infrastructure; these are generally in good condition (confirmed by the pipelines survey carried out in 2017). It is Premier Oil's intention to remove them; however, if mattresses cannot be safely recovered (due to degradation), OPRED will be consulted before any alternative option is executed.

The remaining of the Huntington field infrastructure will be covered in its separate Decommissioning Programme.

After FPSO removal, a guard vessel will be deployed to notify other users of the sea of potential snag hazards associated with non-fishing-friendly subsea infrastructure and/or pre-remedial rectification work localities such as anchor mounds/anchor scarring areas, for as long as these hazards are deemed to be unmitigated. Consideration will be given to the capability of vessels engaged in field decommissioning activities to perform a 'guard vessel' role, as a substitute for a dedicated guard vessel. A 500m subsea safety zone has been applied for, and a risk assessment will be undertaken to determine whether additional safety measures are required once the subsea safety zone has been established. Additionally, all decommissioning activities undertaken by Premier Oil (including locations of known potential hazards) will be published in the Kingfisher Bulletin.

Following stakeholder and regulatory consultation, the Decommissioning Programme is submitted without derogation and in full compliance with OPRED guidelines. The Decommissioning Programme explains the principles of the removal activities and is supported by environmental permits which will be obtained for the decommissioning activities described in this DP, as required.

1.4 Field Location

Figure 1.1: Field Location in UKCS

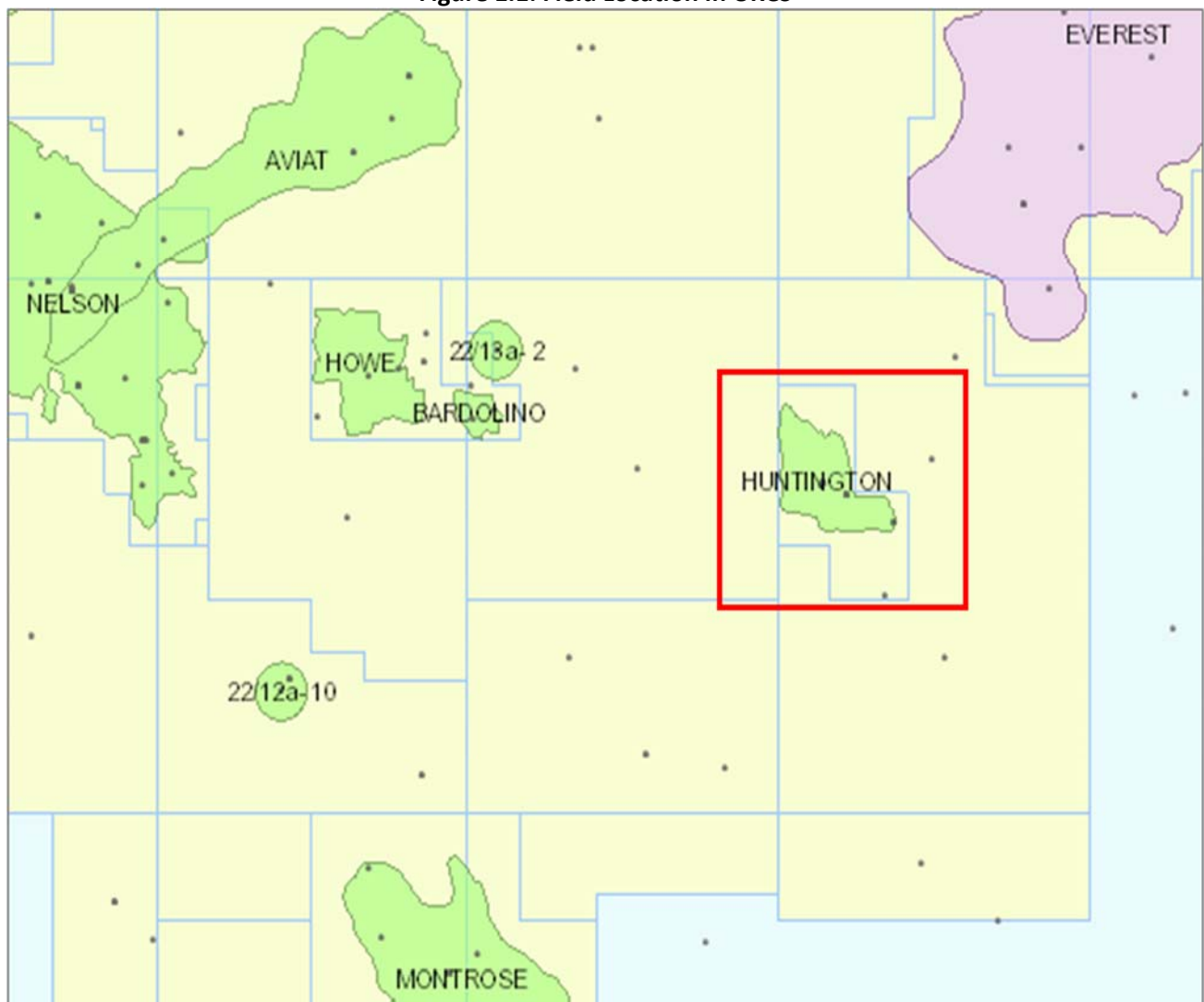


Figure 1.2: Field Layout – Pre sailaway

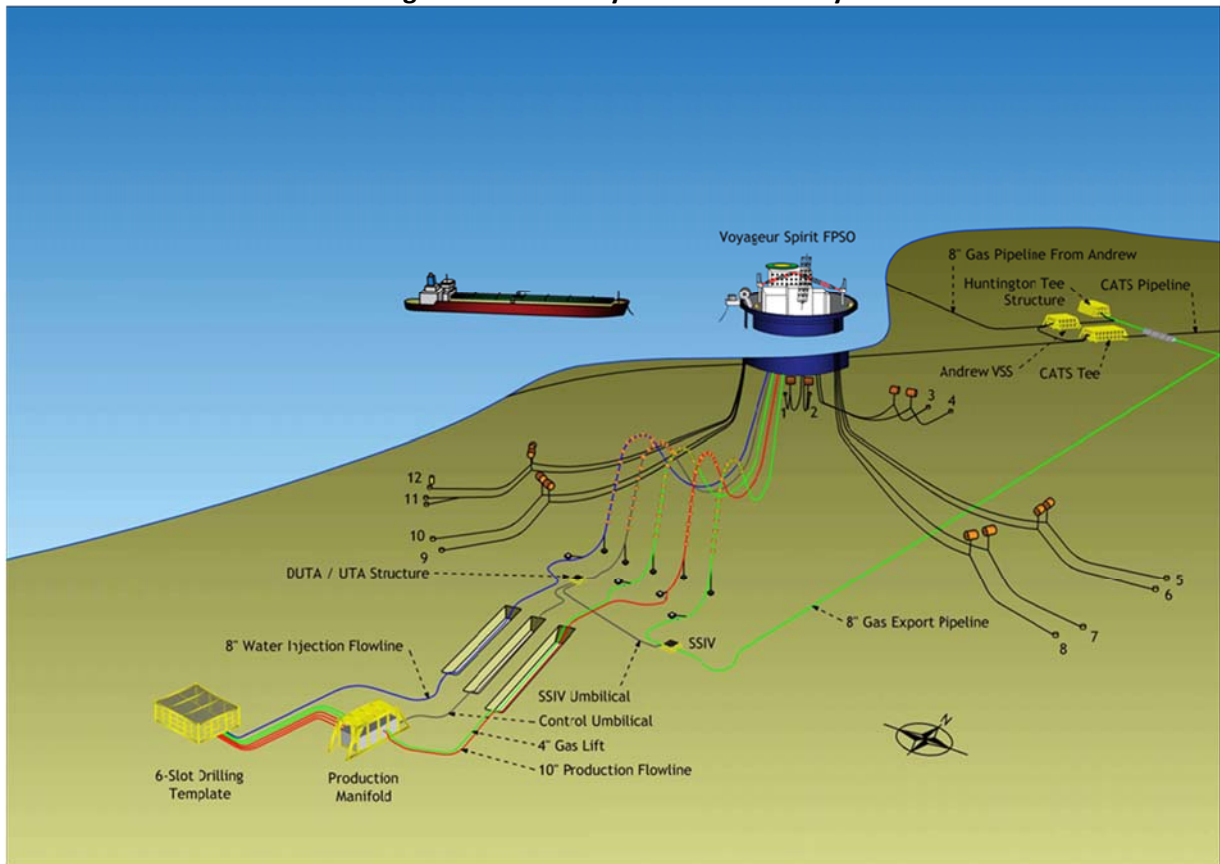
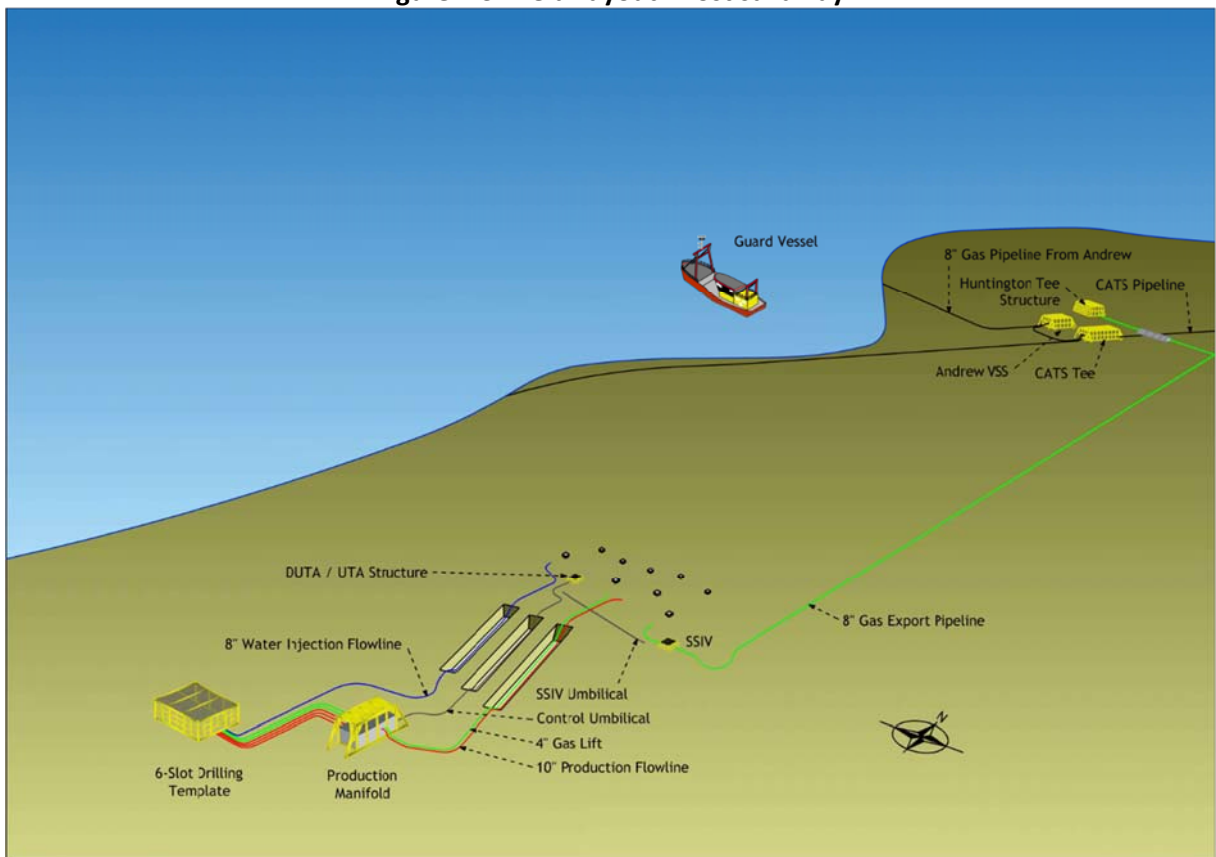


Figure 1.3: Field Layout - Post sailaway



2 DESCRIPTION OF ITEMS TO BE DECOMMISSIONED

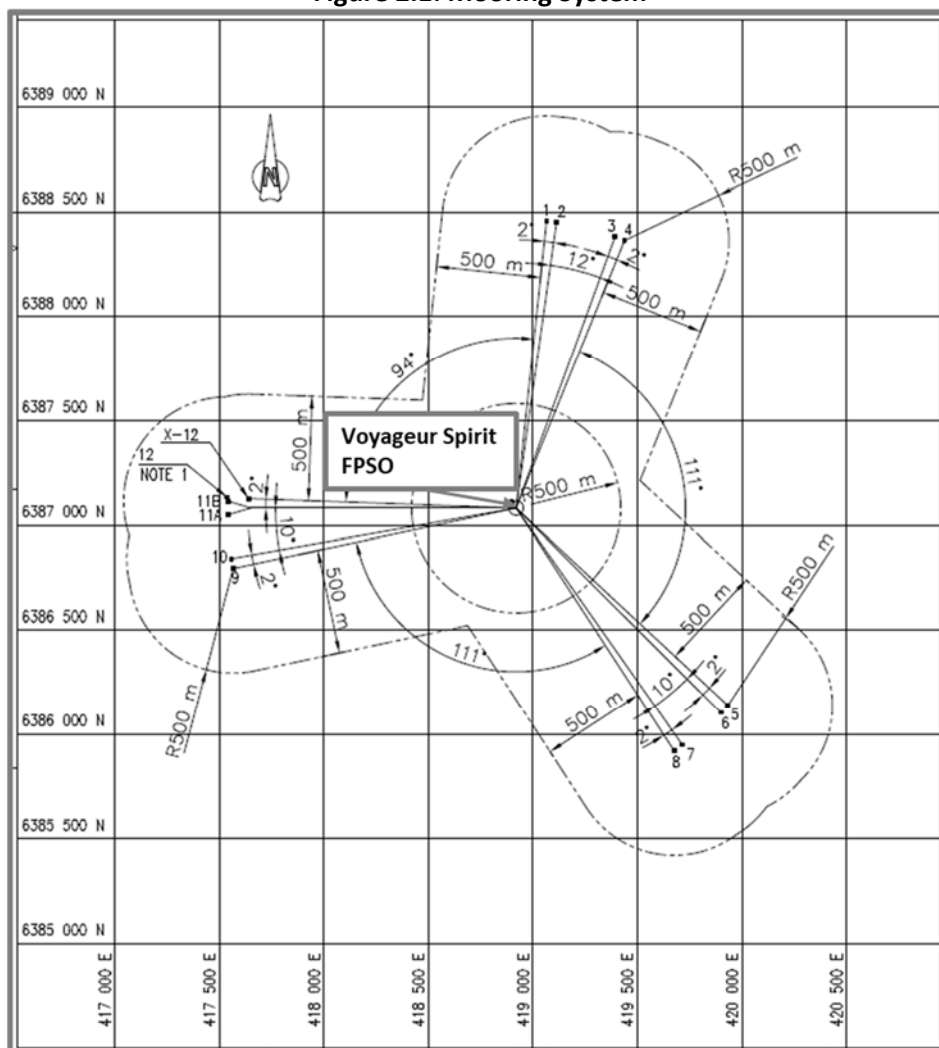
2.1 Installations*

Table 2.1 Summary of Installation to be decommissioned				
Installation	Size/Weight (Te)	Location		Reason for early removal
Voyageur Spirit FPSO	ø 60 m 27,596 Te	WGS84 Decimal	57.617 N, 1.641 E	End of Lease Contract
		WGS84 Decimal Minute	57° 37' 00.659" N 01° 38' 28.259" E	
Anchor 1	ø 9 x 9 m 112 Te	WGS84 Decimal	57.629 N, 1.643 E	
		WGS84 Decimal Minute	57° 37' 45.260" N 01° 38' 35.254" E	
Anchor 2	ø 9 x 8 m 105 Te	WGS84 Decimal	57.629 N, 1.644 E	
		WGS84 Decimal Minute	57° 37' 45.098" N 01° 38' 38.152" E	
Anchor 3	ø 9 x 12.5 m 168 Te	WGS84 Decimal	57.629 N, 1.649 E	
		WGS84 Decimal Minute	57° 37' 42.981" N 01° 38' 55.111" E	
Anchor 4	ø 9 x 8.5 m 109 Te	WGS84 Decimal	57.629 N, 1.649 E	
		WGS84 Decimal Minute	57° 37' 42.495" N 01° 38' 57.905" E	
Anchor 5	ø 9 x 10.5 m 156 Te	WGS84 Decimal	57.609 N, 1.659 E	
		WGS84 Decimal Minute	57° 36' 30.916" N 01° 39' 30.805" E	
Anchor 6	ø 9 x 13 m 193 Te	WGS84 Decimal	57.608 N, 1.658 E	
		WGS84 Decimal Minute	57° 36' 29.303" N 01° 39' 27.853" E	
Anchor 7	ø 6 x 10 m 106 Te	WGS84 Decimal	57.607 N, 1.655 E	
		WGS84 Decimal Minute	57° 36' 24.437" N 01° 39' 17.488" E	
Anchor 8	ø 6 x 9.5 m 104 Te	WGS84 Decimal	57.607 N, 1.654 E	
		WGS84 Decimal Minute	57° 36' 23.540" N 01° 39' 15.051" E	
Anchor 9	ø 9 x 8.5 m 122	WGS84 Decimal	57.614 N, 1.619 E	
		WGS84 Decimal Minute	57° 36' 50.165" N 01° 37' 06.970" E	
Anchor 10	ø 7 x 5.5 m 91 Te	WGS84 Decimal	57.614 N, 1.618 E	
		WGS84 Decimal Minute	57° 36' 51.937" N 01° 37' 06.301" E	
Anchor 11a	ø 7 x 10 m 120 Te	WGS84 Decimal	57.616 N, 1.618 E	
		WGS84 Decimal Minute	57° 36' 58.715" N 01° 37' 05.077" E	

Table 2.1 Summary of Installation to be decommissioned				
Installation	Size/Weight (Te)	Location		Reason for early removal
Anchor 11b	ø 7 x 10 m 120 Te	WGS84 Decimal	57.617 N, 1.618 E	End of Lease Contract
		WGS84 Decimal Minute	57° 37' 00.782" N 01° 37' 05.059" E	
Anchor 12	ø 6 x 15 m 120 Te	WGS84 Decimal	57.617 N, 1.618 E	
		WGS84 Decimal Minute	57° 37' 01.361" N 01° 37' 04.796" E	
Anchor 12-X	ø 7 x 8.5 m 110 Te	WGS84 Decimal	57.617 N, 1.620 E	
		WGS84 Decimal Minute	57° 37' 01.916" N 01° 37' 10.984" E	
Mooring lines	14 off 3,400 Te	From each anchor location to the Voyageur Spirit FPSO		

* Note: The above installations are owned by Teekay and are intended to be re-used.

Figure 2.1: Mooring System



2.2 Pipelines

All relevant permits and consents applications will be submitted to the Oil & Gas Authority (OGA) Consents & Authorisations and Health & Safety Executive (HSE) to gain approval prior to the removal of the below pipelines. As the pipelines are taken out of use, variations to Pipeline Works Authorisations (PWA) will be submitted to OGA, and Disused Pipeline Notification (DPN) forms may be submitted to OPRED if deemed appropriate.

Table 2.2: Pipeline/Flowline/Umbilical Information									
Description	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
Gas Export/Import Pipeline Riser	PL2805 (Ident 2)	8"	0.366	Flexible	Gas	FPSO ESDV – Gas Export/Import SSIV	Surface laid	Operational	Hydrocarbon
Production Riser	PL2806 (Ident 3)	8"	0.325	Flexible	Multiphase Fluids	Flexible Production Flowline – FPSO ESDV	Surface laid	Operational	Hydrocarbon
Gas Lift Riser	PL2807 (Ident 2)	4"	0.325	Flexible	Gas	FPSO ESDV – Flexible Gas Lift Flowline	Surface Laid	Operational	Hydrocarbon
Water Injection Riser	PL2808 (Ident 2)	8"	0.325	Flexible	Water	FPSO ESDV – Flexible Water Injection Flowline	Surface Laid	Operational	Water
Dynamic Umbilical	PLU2809 (Ident 2)	7"	0.325	Flexible	Chemicals	FPSO ESDV – DUTA Structure	Surface Laid	Operational	Chemicals

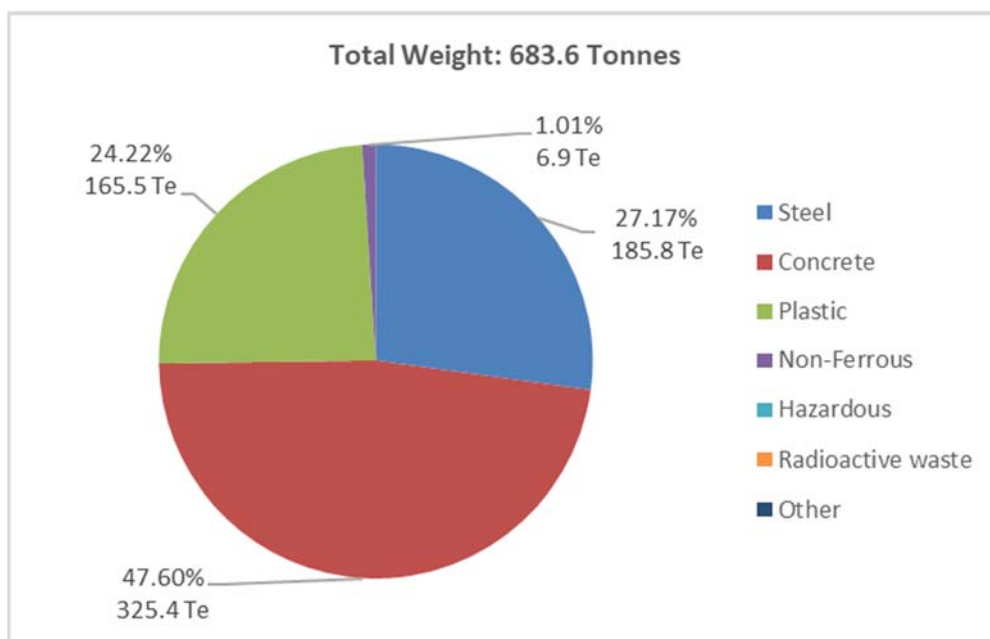
2.3 Stabilisation Features

Table 2.3: Subsea Pipeline Stabilisation Features				
Stabilisation Feature	Total Number	Weight (Te)	Location(s)	Exposed/Buried/Condition
Concrete mattress (6x3x0.15m)	69	331	Dispersed over each riser	Exposed, in good condition

2.4 Inventory Estimates

Table 2.4 Inventory Estimate (Pipelines*)		
Material	Weight (Te)	Estimated volume (m ³)
Steel	185.8	N/A
Concrete	325.4	N/A
Plastic	165.5	N/A
Non Ferrous	6.9	N/A
Hazardous (Residual hydrocarbons, chemicals)	Trace	N/A
Radioactive waste (NORM etc.)	Trace	N/A
Other	0	N/A
Total (Te):	683.6	N/A

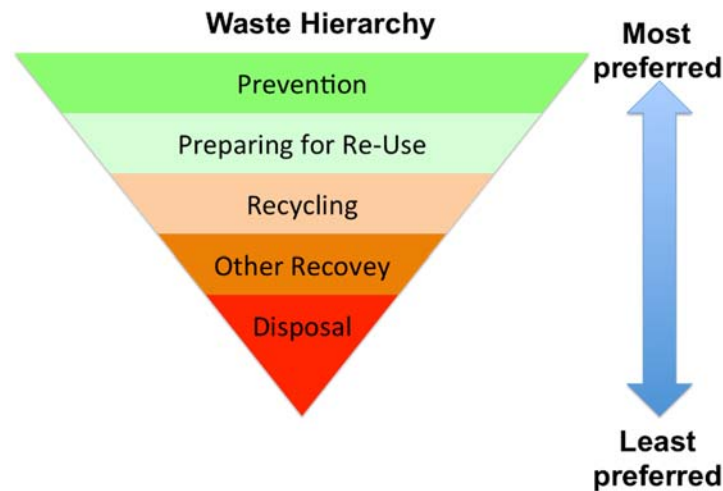
Figure 2.2: Pie Chart of Estimated Inventory



* The Inventory Estimate is for the Premier owned riser system and associated stabilisation only.

3 REMOVAL AND DISPOSAL METHODS FOR WASTES

Decommissioning of the Huntington field infrastructure will generate a quantity of waste. Premier Oil is committed to establishing and maintaining environmentally acceptable methods for managing wastes in line with the Waste Framework Directive and principles of the waste hierarchy:



Recovered subsea infrastructure will be returned to shore and transferred to a suitably licenced waste treatment facility. It is expected that the recovered infrastructure, i.e. risers will be cleaned before being largely recycled.

An appropriately licensed waste management company and yard will be identified through a selection process that will ensure that the chosen facility demonstrates a proven track record of waste stream management throughout the deconstruction process, the ability to deliver innovative reuse / recycling options, and ensure the aims of the waste hierarchy are achieved.

Geographic locations of potential disposal yard options may require the consideration of Trans Frontier Shipment of Waste (TFSW), including hazardous materials. Early engagement with the relevant waste regulatory authorities will ensure that any issues with TFSW are addressed.

Premier Oil will engage with other companies and industries to identify potential reuse opportunities. However Premier Oil believes that such opportunities are best achieved through the tendering and selection of a waste management contractor with the expert knowledge and experience in this area.

3.1 Floating Production Vessel (FPSO)

The FPSO is on the Huntington Field under a Lease and Operate Contract between Premier Oil and Teekay. After completion of the operation at the Huntington field the unit is to be redeployed for operation. Thus decommissioning is not relevant for the unit at this stage.

3.2 Waste Streams

The Premier Oil Waste Management Strategy specifies the requirements for the contractor waste management plan. The waste management plan will be developed once the contract has been awarded during the project execution phase. The plans shall adhere to the waste stream licensee conditions and controlled accordingly. Discussion with the regulator will ensure that all relevant permits and consents are in place.

Table 3.1 Waste Stream Management Methods	
Waste Stream	Removal and Disposal method if applicable
Bulk liquids	Bulk flushing/de-oiling by either round-trip flushing from/to the Voyageur Spirit FPSO or utilising DSVs to flush to the Voyageur Spirit FPSO. Waste fluids will be processed and may be discharged to sea under appropriate permit or will be offloaded for onshore treatment.
Marine growth	Some marine growth may be removed offshore. Onshore disposal will be managed by the selected waste management contractor.
NORM/LSA Scale	NORM contaminated material may be removed and discharged offshore under appropriate permit, or returned to shore to be disposed of by the selected onshore waste management contractor.
Asbestos	n/a
Other hazardous wastes	Will be recovered onshore and will be managed by the selected waste management contractor and disposed of under appropriate permit. The inventory of hazardous materials will identify hazardous materials present and Premier Oil's risk management process will be used to prevent spills offshore.
Onshore Dismantling sites	Appropriate licenced contractor and sites will be selected. Facility selected must demonstrate competence and proven disposal track record and waste stream management & traceability throughout the deconstruction process and demonstrate their ability to deliver innovative recycling options.

4 ENVIRONMENTAL APPRAISAL OVERVIEW

All required environmental permits will be identified and managed through Weston's PLANCC.

The Environmental Appraisal for the Huntington field will be submitted with the full Huntington field Decommissioning Programme.

5 INTERESTED PARTY CONSULTATIONS

Consultations Summary:

The following key stakeholders have been identified with whom to engage regarding decommissioning activities and schedule relating to Huntington FPSO removal:

- Huntington Field License Holder – Premier Oil
- Voyageur Spirit FPSO Owner / Operator - Teekay
- OPRED Offshore Decommissioning Unit (ODU)
- OPRED Environmental Management Team (EMT)
- OPRED Offshore Environmental Inspectorate (OEI)
- Oil & Gas Authority (OGA)
- Health & Safety Executive (HSE)
- Scottish Fishermen's Federation (SFF)
- Scottish Environmental Protection Agency (SEPA)
- Maritime and Coastguard Agency (MCA)

Premier Oil have and will continue to engage with the stakeholders regarding overall decommissioning plans and in particular the removal plans for the FPSO under the Decommissioning Programme arrangements.

6 PROGRAMME MANAGEMENT

6.1 Schedule

Project Plan:

The high level Gantt chart Figure 6.1 provides the overall schedule for the Huntington FPSO removal programme of decommissioning activities, based on the FPSO contract minimum term. Prior to the removal of the FPSO, Premier Oil will flush the subsea pipelines associated with the Huntington field.

Figure 6.1: Gantt Chart of Project Plan

Activity	Execution Window				
	2019	2020			
		Q1	Q2	Q3	Q4
Decommissioning Planning & Surveys	[Bar]				
Detailed Engineering	[Bar]				
Cessation of Production		▼			
Pipeline Flushing / Disconnection			[Bar]		
FPSO Make Safe / Disconnect / Removal			[Bar]		
Riser removal			[Bar]		
Mooring system removal*			[Bar]		
Closeout Reports					[Bar]

* It is possible that the Lower Mooring section could be wet stored for an extended period as the operation involving recovery and handling of the Suction Anchors is highly dependent on weather.

The first draft of the full Decommissioning Programme for the Huntington field will be submitted in Q1 2020.

6.2 Post Debris Clearance & Verification

A full scale post decommissioning seabed survey centred around the Huntington Field FPSO Location, will be carried out as part of the wider Huntington field Decommissioning Programme. Results of this survey will be available once the work is complete, with a copy forwarded to OPRED.

6.3 Close-out Report

In accordance with OPRED guidelines, a CoR will be submitted to OPRED explaining any variations from the DP, normally within 12 months of completion of the offshore decommissioning scope.

6.4 Costs

An overall cost estimate following UK Oil & Gas Guidelines on Decommissioning Cost Estimates will be provided to OPRED.

7 PARTNER LETTER(S) OF SUPPORT

Voyageur L.L.C.



Offshore Petroleum Regulator for Environment and Decommissioning
Department for Business, Energy and Industrial Strategy
Crimon Place
Aberdeen
AB10 1BJ

FAO: Mrs. Debbie Taylor

3 April 2020

Dear Sirs,

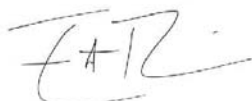
Letter of Support: Huntington Decommissioning Programme for FPSO Float-off

Voyageur L.L.C. hereby confirm that Premier Oil E&P UK Limited ("Premier") is authorised to submit, on our behalf, the Decommissioning Programme, as detailed in document no. AB-HU-PMO-LL-PM-PG-0002 revision B03, dated March 2020 and titled HUNTINGTON Decommissioning Programme for FPSO Float-off, as directed by the Secretary of State in your letter of 19 March 2020.

We confirm our agreement to the proposals detailed in the Huntington Decommissioning Programme for FPSO Float-off dated 31 March 2020, which is to be submitted by Premier, in so far as they relate to those facilities in respect of which we are instructed to submit a programme under Section 29 of the Petroleum Act 1998.

For the avoidance of doubt, and in accordance with our earlier correspondence, Voyageur L.L.C. (as part of the Altera Infrastructure group) maintains that it is inappropriate for FPSO owners to be issued with notices under Section 29. The current legislation, as interpreted by OPRED, is incompatible with the aspirations of MER UK and detrimental to the remaining opportunities in the UKCS basin. Altera Infrastructure will continue to follow up with you directly in due course.

Yours faithfully



Edie Robinson
Director
Voyageur L.L.C.

Altera Infrastructure L.P. (formerly Teekay Offshore Partners L.P.)



Offshore Petroleum Regulator for Environment and Decommissioning
Department for Business, Energy and Industrial Strategy
Crimon Place
Aberdeen
AB10 1BJ

FAO: Mrs. Debbie Taylor

3 April 2020

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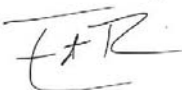
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Yours faithfully



Edie Robinson
Vice President & Company Secretary, Altera Infrastructure GP L.L.C.
General Partner of Altera Infrastructure L.P.

APPENDIX I – PUBLIC NOTICES

The Daily Telegraph

Public Notices

The Petroleum Act 1998

Huntington Decommissioning Programme for FPSO Float-off

Premier Oil E&P UK Limited (Premier) has submitted, for the consideration of the Secretary of State for Business, Energy & Industrial Strategy, the draft Huntington Decommissioning Programme for FPSO Float-off, 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 Huntington field is located in block 22/14b of the Central North Sea, approximately 230km from Aberdeen and 28km from the UK/NOR median line. The field was developed using a Floating Production Storage and Offloading (FPSO) vessel. Produced oil is stored in cargo oil tanks and exported using shuttle tankers. Dehydrated gas is exported to shore via the Central Area Transmission System.

The Huntington Decommissioning Programme for FPSO Float-off covers the departure of the Voyageur Spirit FPSO facility and the removal of the associated riser system from the Huntington field.

Premier hereby gives notice that the Huntington Decommissioning Programme for FPSO Float-off is available on its website at www.premier-oil.com, or alternatively a hard copy of the programme can be inspected at the following location during office hours:

Premier Oil
Upper Denburn House, Prime Four Business Park,
Kingswells Causeway, Kingswells,
Aberdeen, AB15 8PU
Contact: Pieter voor de Poorte

Representations regarding the Huntington Decommissioning Programme for FPSO Float-off should be submitted in writing to the person named at the above address, or via email to abzdecommissioning@premier-oil.com, by the consultation closing date of 22nd February 2020.

Submissions should state the grounds upon which any representations are being made.

Date: 7th February 2020
Decommissioning Team
Premier Oil

The Press and Journal

PUBLIC NOTICE

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