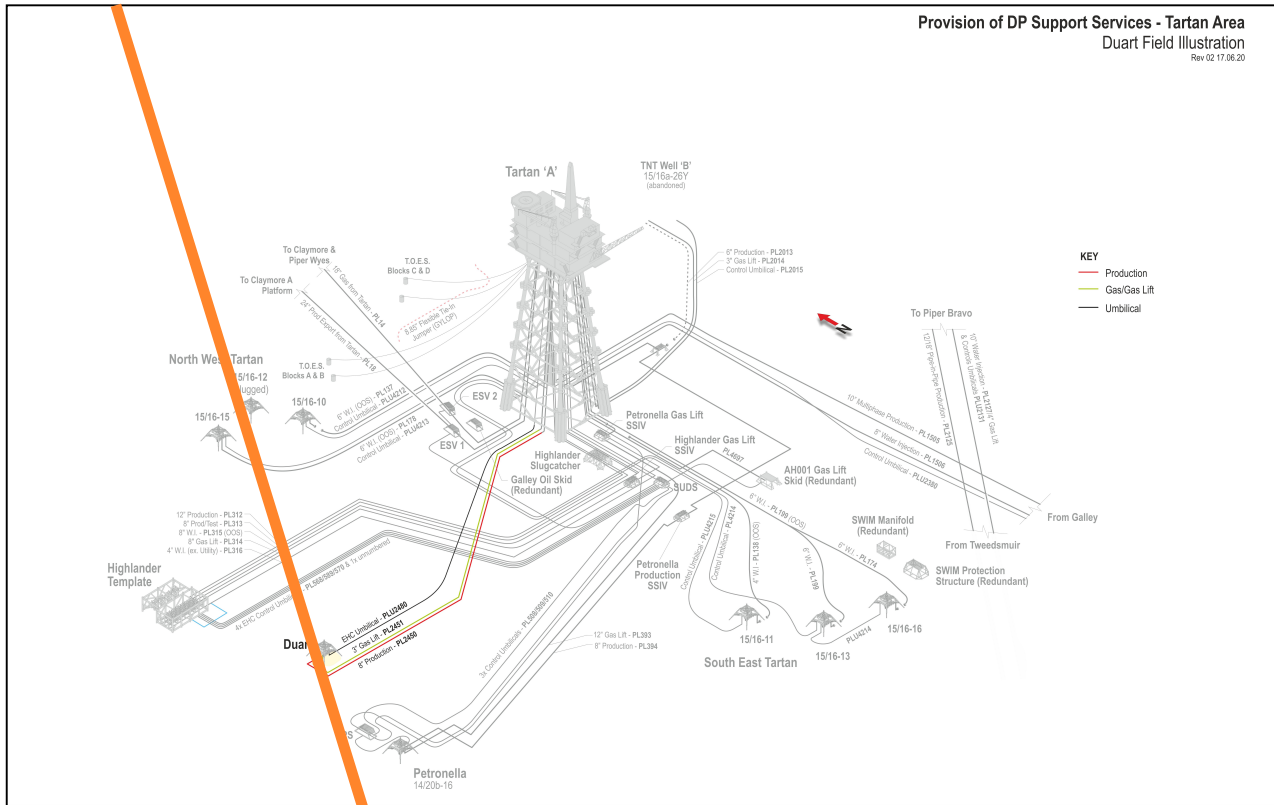




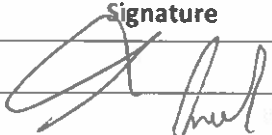
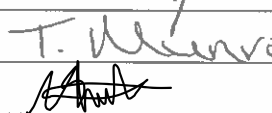
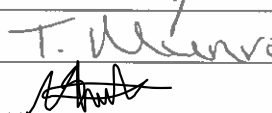
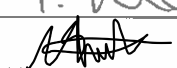
**DUART  
DECOMMISSIONING PROGRAMMES**

**FINAL**

**October 2022**

## Document Control

### Approvals

|             | Name                | Signature                                                                          | Date         |
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### Revision Control

| Revision No | Reference                            | Changes/Comments                        | Issue Date   |
|-------------|--------------------------------------|-----------------------------------------|--------------|
| 0.1         | 1 <sup>st</sup> pre-draft programmes | First Issue                             | 11/08/20     |
| 0.2         | 2 <sup>nd</sup> pre-draft programmes | OPRED comments incorporated             | 13/11/20     |
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| 0.4         | Consultation Draft programmes        | OPRED comments incorporated             | 27/04/21     |
| 0.5         | Consultation Draft - Final           | Finalised Consultation Draft            | 07/10/21     |
| 0.6         | Final Version                        | Post Consultation Comments Incorporated | 01/08/22     |
| 0.7         | Final Version                        | Letters of support incorporated         | October 2022 |

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## Terms and Abbreviations

| Abbreviation   | Explanation                                                                                      |
|----------------|--------------------------------------------------------------------------------------------------|
| "              | Inches                                                                                           |
| %              | Percentage                                                                                       |
| °              | Degrees                                                                                          |
| BAT            | Best Available Technique                                                                         |
| c.             | circa                                                                                            |
| CA             | Comparative Assessment                                                                           |
| DCR            | The Offshore Installation and Wells (Design and Construction etc.) Regulations 1996 (SI1996/913) |
| DP             | Decommissioning Programme                                                                        |
| E              | East                                                                                             |
| EA             | Environmental Appraisal                                                                          |
| ESAS           | European Seabirds at Sea                                                                         |
| EUNIS          | European Nature Information System                                                               |
| FPAL           | First Point Assessment                                                                           |
| H              | Height                                                                                           |
| HLV            | Heavy Lift Vessel                                                                                |
| HSE            | Health and Safety Executive                                                                      |
| ICES           | International Council for Exploration of the Sea                                                 |
| JNCC           | Joint Nature Conservation Committee                                                              |
| km             | Kilometre                                                                                        |
| KP             | Kilometre Post                                                                                   |
| L              | Length                                                                                           |
| m              | Metre                                                                                            |
| m <sup>2</sup> | Metres squared                                                                                   |
| m <sup>3</sup> | Cubic Metres                                                                                     |
| MAT            | Master Application Template                                                                      |
| N              | North                                                                                            |
| NCMPA          | Nature Conservation Marine Protected Area                                                        |
| NFFO           | National Fishermen's Federation Organisation                                                     |
| NORM           | Naturally Occurring Radioactive Material                                                         |
| N/A            | Not Applicable                                                                                   |
| OGA            | Oil and Gas Authority                                                                            |

| Abbreviation | Explanation                                                                                             |
|--------------|---------------------------------------------------------------------------------------------------------|
| OGUK         | Oil and Gas UK                                                                                          |
| OPRED        | Offshore Petroleum Regulator for Environment and Decommissioning                                        |
| OSPAR        | from Oslo/Paris, the Convention for the Protection of the Marine Environment of the North East Atlantic |
| OSPAR 2006/5 | OSPAR Recommendation on a Management Regime for Offshore Cuttings Piles                                 |
| P&A          | Plug & Abandon                                                                                          |
| PL           | Pipeline (number)                                                                                       |
| PLU          | Umbilical (number)                                                                                      |
| PMF          | Priority Marine Features                                                                                |
| PON5         | Petroleum Operations Notice 5                                                                           |
| PWA          | Pipeline Works Authority                                                                                |
| SAC          | Special Area of Conservation                                                                            |
| SAT          | Subsidiary Application Template                                                                         |
| SCAP         | Supply Chain Action Plan                                                                                |
| SE           | South East                                                                                              |
| SEPA         | Scottish Environmental Protection Agency                                                                |
| SFF          | Scottish Fisherman's Federation                                                                         |
| SLV          | Single Lift Vessel                                                                                      |
| SNH          | Scottish National Heritage                                                                              |
| Te/ te       | tonnes                                                                                                  |
| TFSW         | Trans Frontier Shipment of Waste                                                                        |
| THP          | Tartan, Highlander, Petronella                                                                          |
| TNT          | Tartan North Terrace                                                                                    |
| TS           | Tartan Satellite                                                                                        |
| UK           | United Kingdom                                                                                          |
| UKBAP        | United Kingdom Biodiversity Action Plan                                                                 |
| UKCS         | United Kingdom Continental Shelf                                                                        |
| UKHO         | United Kingdom Hydrographic Office                                                                      |
| W            | Width                                                                                                   |
| WGS84        | World Geodetic System 1984                                                                              |
| WHPS         | Well Head Protection Structure                                                                          |
| £m           | Million Pounds                                                                                          |

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## **1 EXECUTIVE SUMMARY**

### **1.1 Decommissioning Programmes**

This document contains two Decommissioning Programmes (DPs) for the subsea infrastructure associated with the Duart field operated by Repsol Sinopec Resources UK Limited.

It forms part of the overall Tartan Development Area Decommissioning, which also includes the Tartan Topsides, Tartan Substructure (Jacket), Tartan Subsea (TNT, TS, Petronella & Highlander) and Galley which will be covered by separate Decommissioning Programmes.

A summary of the subsea installations, pipelines and umbilicals to be decommissioned is detailed in the Tables in Sections 1.4.1 and 1.4.2.

### **1.2 Requirement for Decommissioning Programmes**

#### **Installation(s):**

In accordance with the Petroleum Act 1998, the Section 29 notice holders of the Tartan Development Area field pipelines (see Table 1.2) are applying to the Offshore Petroleum Regulator for Environment and Decommissioning (OPRED) to obtain approval for the decommissioning of the Subsea Installations detailed in Section 2.2 of this programmes. (See also Section 8 – Partner Letter(s) of Support).

#### **Pipeline(s)/ Structures(s):**

In accordance with the Petroleum Act 1998, the Section 29 notice holders of the Tartan Development Area field pipelines (see Table 1.4) are applying to the Offshore Petroleum Regulator for Environment and Decommissioning (OPRED) to obtain approval for the decommissioning of the pipelines, umbilicals and structures detailed in Section 2.3 of this programmes. (See also Section 8 – Partner Letter(s) of Support).

In conjunction with public, stakeholder and regulatory consultations, these DPs are submitted in compliance with national and international regulations and OPRED guidelines. The offshore decommissioning activities started in 2020 with the Tartan field CoP, and the Duart decommissioning project activities are expected to last until 2033 with a contingency to end in 2037 (see Section 6.3).

### **1.3 Introduction**

The Tartan Development Area comprises a number of fields; tied back to the Tartan Alpha (A) platform located in Block 15/16, approximately 140km east of the nearest Scottish coastline and in a water depth of approximately 135m. The fields include Tartan, Highlander, Duart, Petronella and Galley. From the Tartan A platform, the processed oil is exported to the Claymore platform. In addition, a gas export/import pipeline ties into the Frigg Gas Pipeline System. The Tartan Development Area consists of 92 wells; 21 Platform wells and 71 subsea wells; however, these DPs relate specifically to the Duart field which consists of just a single well; Figure 1-2.

The Duart Field is operated by Repsol Sinopec Resources UK Limited and is situated in Block 14/20, approximately 134km east of the nearest Scottish coastline and in a water depth of approximately 135m. The Duart field was discovered in October 1987 by the exploration well, 14/20b-18, and is tied back to Tartan; it is located 8km west of the Tartan A platform.

The Duart field lies in the south-eastern area of the Fladen Ground in the central North Sea within the area covered by the Scottish National Marine Plan. It is c. 25km from the Scanner Pockmark Special Areas of Conservation (SAC's), and c. 35km from the Central Fladen Nature Conservation Marine Protected Area (NCMPA).

The Duart field has not formally ceased production. Decommissioning operations will commence based on the assumption that Cessation of Production will have been formally approved by the North Sea Transition Authority. Following public, stakeholder and regulatory consultation, these DPs will be submitted without derogation and in full compliance with OPRED guidelines. These DPs explain the proposed decommissioning activities and is supported by a Comparative Assessment (CA) [Ref: 1] for the pipelines and umbilicals and an Environmental Appraisal (EA) [Ref: 2].

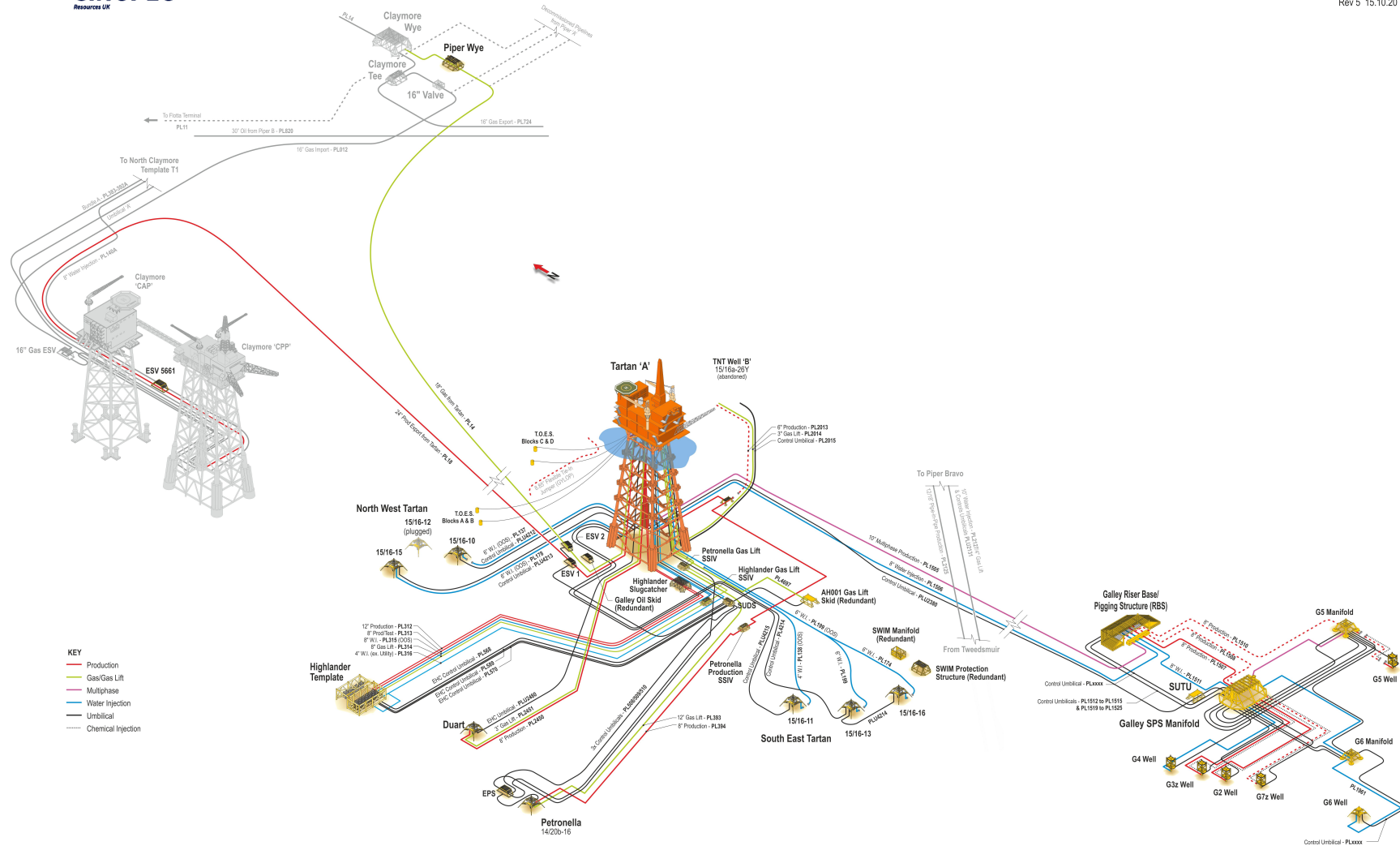
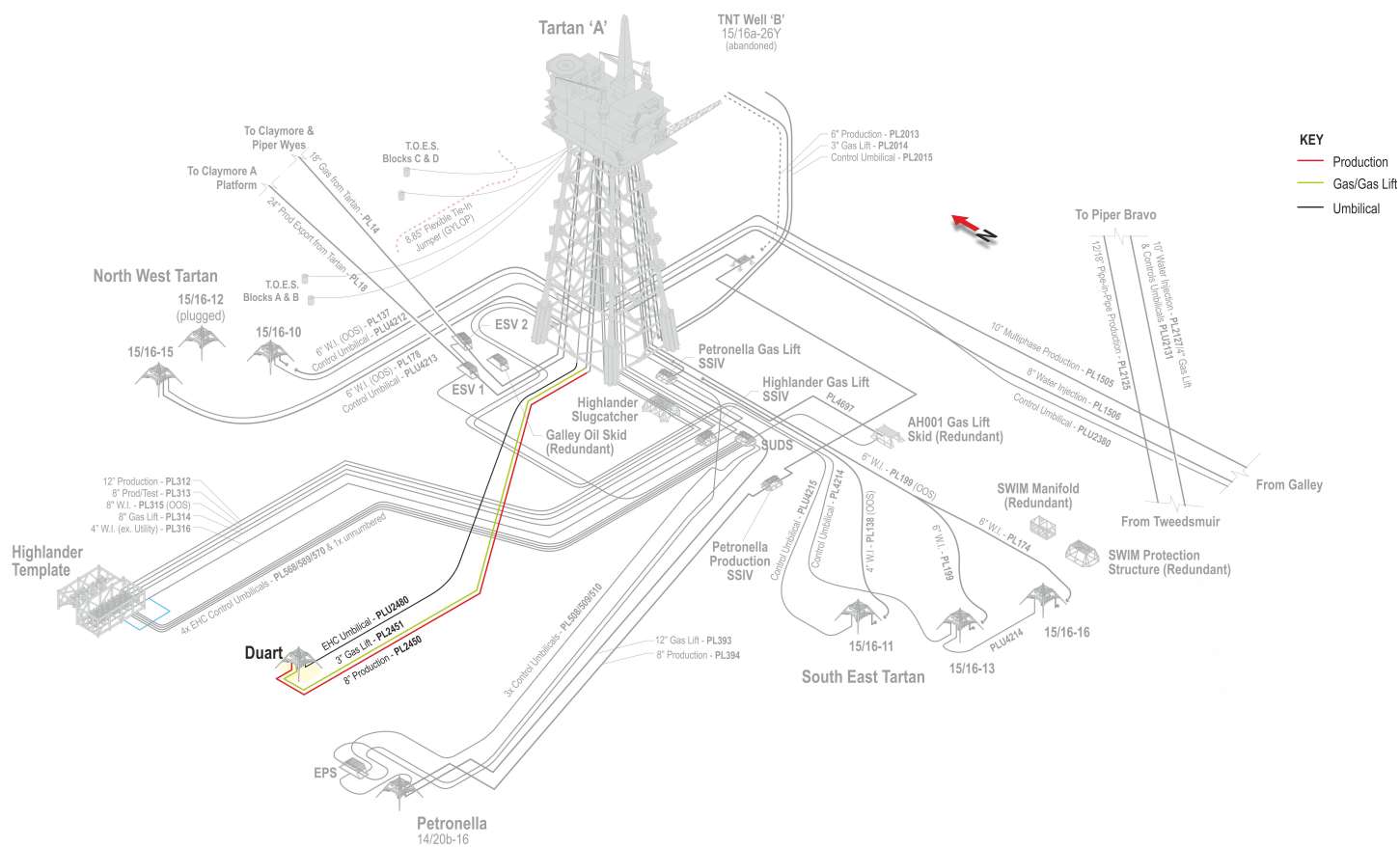


Figure 1-1: Schematic showing the Tartan Development Area



**Figure 1-2: Duart Field Layout**

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

### 1.4.1 Installation(s)

| Table 1-1: Installation(s) Being Decommissioned |                                       |                                          |                    |
|-------------------------------------------------|---------------------------------------|------------------------------------------|--------------------|
| Field(s)                                        | Duart                                 | Production Type (Oil/Gas/Condensate)     | Oil                |
| Water Depth (m)                                 | 135                                   | UKCS block                               | 14/20              |
| Distance to median (km)                         | 91                                    | Distance from nearest UK coastline (km)  | 134                |
| Surface Installation(s)                         |                                       |                                          |                    |
| Number                                          | Type                                  | Topsides Weight (Te)                     | Jacket Weight (Te) |
| N/A <sup>1</sup>                                |                                       |                                          |                    |
| Subsea Installation(s)                          |                                       | Number of Wells                          |                    |
| Number                                          | Type                                  | Platform                                 | Subsea             |
| 1                                               | Wellhead Protection Structure         | 0                                        | 5                  |
| 1                                               | Chemical Injection Valve Support Skid |                                          |                    |
| Drill Cuttings pile(s)                          |                                       |                                          |                    |
| Number of Piles                                 | N/A <sup>2</sup>                      | Total Estimated Volume (m <sup>3</sup> ) |                    |

<sup>1</sup> Decommissioning of the Tartan A topsides and substructure are covered by separate DP submissions.

<sup>2</sup> There is no cuttings pile at the Duart drill centre. It is recognised that a section of the Duart lines are laid through the Tartan A cuttings pile. The impacts of disturbing the Tartan A cuttings pile when decommissioning the Tartan Development Area pipelines, including the Duart lines, is dependent on the outcome of the Tartan A substructure CA. Management of the Tartan A cuttings pile is and captured within the Tartan A substructure DP.

**Table 1-2: Installation(s) Section 29 Notice Holders Details**

| Section 29 Notice Holder(s)                         | Registration Number | Equity Interest (%) |
|-----------------------------------------------------|---------------------|---------------------|
| <i>Section 29 Notices Holders who are owners</i>    |                     |                     |
| Repsol Sinopec LNS limited                          | 02483161            | 50.00               |
| Neo Energy (Production) Limited                     | 05896824            | 50.00               |
| <i>Section 29 Notice Holders who are not owners</i> |                     |                     |
| CNOOC Petroleum Farragon U.K. Limited               | 05645503            | Exited              |
| CNOOC Petroleum Europe Limited                      | 01051137            | Exited              |
| Repsol Sinopec Oil Trading Limited                  | 02307374            | Exited              |
| Repsol Sinopec Resources UK Limited                 | 00825828            | 0.00                |
| NEO Energy (SNS) Limited                            | SC291165            | Exited              |

#### 1.4.2 Pipeline(s)

**Table 1-3: Pipeline(s) Being Decommissioned**

|                                                  |          |
|--------------------------------------------------|----------|
| Number of Pipeline(s) Details given in Table 2.3 | <b>3</b> |
|--------------------------------------------------|----------|

**Table 1-4: Pipeline(s) Section 29 Notice Holders Details**

| Section 29 Notice Holder(s)                         | Registration Number | Equity Interest (%) |
|-----------------------------------------------------|---------------------|---------------------|
| <i>Section 29 Notices Holders who are owners</i>    |                     |                     |
| Repsol Sinopec LNS limited                          | 02483161            | 50.00               |
| Neo Energy (Production) Limited                     | 05896824            | 50.00               |
| <i>Section 29 Notice Holders who are not owners</i> |                     |                     |
| CNOOC Petroleum Farragon U.K. Limited               | 05645503            | Exited              |
| CNOOC Petroleum Europe Limited                      | 01051137            | Exited              |
| Repsol Sinopec Oil Trading Limited                  | 02307374            | Exited              |
| NEO Energy (SNS) Limited                            | SC291165            | Exited              |

## 1.5 Summary of Proposed Decommissioning Programmes

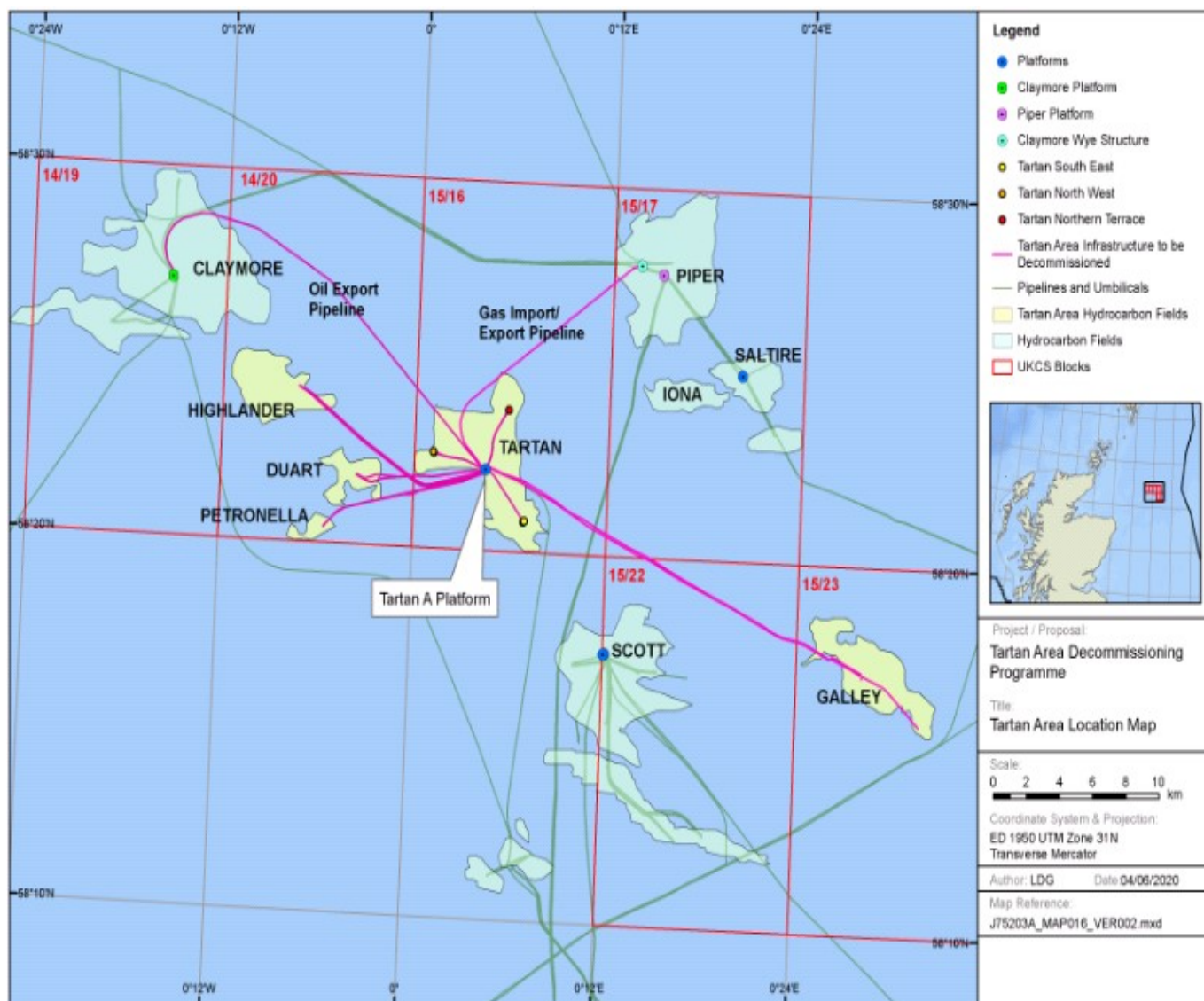
| Table 1-5: Summary of Decommissioning Programme(s)                                                                                       |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Selected Option                                                                                                                          | Reason for Selection                                                                                                                                       | Proposed Decommissioning Solution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>1. Topsides</b>                                                                                                                       |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N/A                                                                                                                                      |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>2. Substructures</b> (Jackets/FPSO etc)                                                                                               |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| N/A                                                                                                                                      |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>3. Subsea Installation(s)</b>                                                                                                         |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Complete removal and recycling onshore.                                                                                                  | To comply with OSPAR requirements leaving unobstructed seabed. Removes a potential obstruction to fishing operations and maximises recycling of materials. | WHPS is secured by conductor which will be cut -3m below seabed<br>Chemical Injection Valve Support Skid, which is a gravity base structure will be recovered.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>4. Pipelines, Flowlines &amp; Umbilicals</b>                                                                                          |                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| All pipelines and umbilicals are already trenched and buried and will be decommissioned in-situ with remediation of any exposed sections | Those lines to be decommissioned in situ are trenched and buried for most of their lengths and will not affect other users of the sea.                     | The trenched and buried pipelines and umbilicals will be decommissioned in situ. The exposed sections will be remediated by trenching and burying (the most preferred option)<br><br>Other remediation options such as cutting and removing exposed sections to shore or by covering exposed sections with rock will also be carried forward to the Contracting and Procurement (C&P) engagement exercise and tendering process on all three options and the Operator will consult with OPRED should this exercise result in a change in preference of the remediation option. |

| 5. Wells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Well will be plugged and abandoned to Repsol Sinopec Resources UK Limited standards which comply with “Offshore Installations and Wells (Design and Construction, etc.) Regulations 1996” and align with Oil & Gas UK Guidelines for the Suspension and Abandonment of Wells (Issue 6, June 2018).                                                                                                                                                                                                                                                                               | Meets HSE regulatory requirements in accordance with O&G UK and OGA. | A Master Application Template (MAT) and the supporting Subsidiary Application Template (SAT) will be submitted in support of activities carried out. A PON5 will also be submitted to OGA for application to abandon the wells. Additionally, planned work will be reviewed by a well examiner to Repsol Sinopec Resources UK Limited standards then submitted to the HSE for review. |
| 6. Drill Cuttings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |
| N/A <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |
| 7. Interdependencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>Recovery of the Duart Well WHPS will require plugging &amp; abandonment of the associated well and Xmas tree recovery to be completed prior to recovery of the structure.</p> <p>The selected decommissioning options for the Tartan A substructure may impact on how the Tartan A ends of the Duart pipelines and umbilical are decommissioned. In addition, the BAT assessment being carried out to determine the optimal approach for managing the cuttings pile will take account of the results of the Tartan A substructure CA and the pipelines and umbilicals CA.</p> |                                                                      |                                                                                                                                                                                                                                                                                                                                                                                       |

<sup>3</sup> No cuttings pile at the Duart drill centre whilst the management of the Tartan A cuttings pile is captured in the Tartan A substructure DP.

## 1.6 Field Location Including Field Layout and Adjacent Facilities

Figure 1-3: Field Location in UKCS.



**Table 1-6: Adjacent Facilities**

| Owner                               | Name                              | Type                                             | Distance/Direction   | Information                                                  | Status                                    |
|-------------------------------------|-----------------------------------|--------------------------------------------------|----------------------|--------------------------------------------------------------|-------------------------------------------|
| CNOOC International                 | Scott                             | Fixed Platform                                   | 13km South East      | Production steel drilling and Accommodation steel jack-up    | Active                                    |
| Repsol Sinopec Resources UK Limited | Piper B                           | Fixed Platform                                   | 13km North East      | Drilling Production & Accommodation Fixed steel              | Active                                    |
| Repsol Sinopec Resources UK Limited | Saltire                           | Fixed Platform                                   | 16km East North East | Drilling production steel                                    | Active                                    |
| Repsol Sinopec Resources UK Limited | Claymore                          | Fixed Platform                                   | 27km North West      | Drilling Production & Accommodation - steel                  | Active                                    |
| Repsol Sinopec Resources UK Limited | Tartan                            | Fixed Platform                                   | 8km East             | Drilling Production & Accommodation Fixed steel              | Cessation of Production (Wells Suspended) |
| Repsol Sinopec Resources UK Limited | PL2013 / PL2014 / PLU2015         | 6" Production / 3" Gas Lift / Control Umbilical  | 10km East North East | Tartan North Terrace Subsea Infrastructure <sup>NOTE 1</sup> | Cessation of Production (Well Abandoned)  |
| Repsol Sinopec Resources UK Limited | PL137 / PL178 / PLU4212 / PLU4213 | 2No. 6" Water Injection / 2No. Control Umbilical | 5km East North East  | Tartan North West Subsea Infrastructure <sup>NOTE 1</sup>    | Cessation of Production (Wells Suspended) |
| Repsol Sinopec Resources UK Limited | PL138 / PL199 / PLU4214 / PLU4215 | 2No. 6" Water Injection / 2No. Control Umbilical | 10km East South East | Tartan South East Subsea Infrastructure <sup>NOTE 1</sup>    | Cessation of Production (Wells Suspended) |

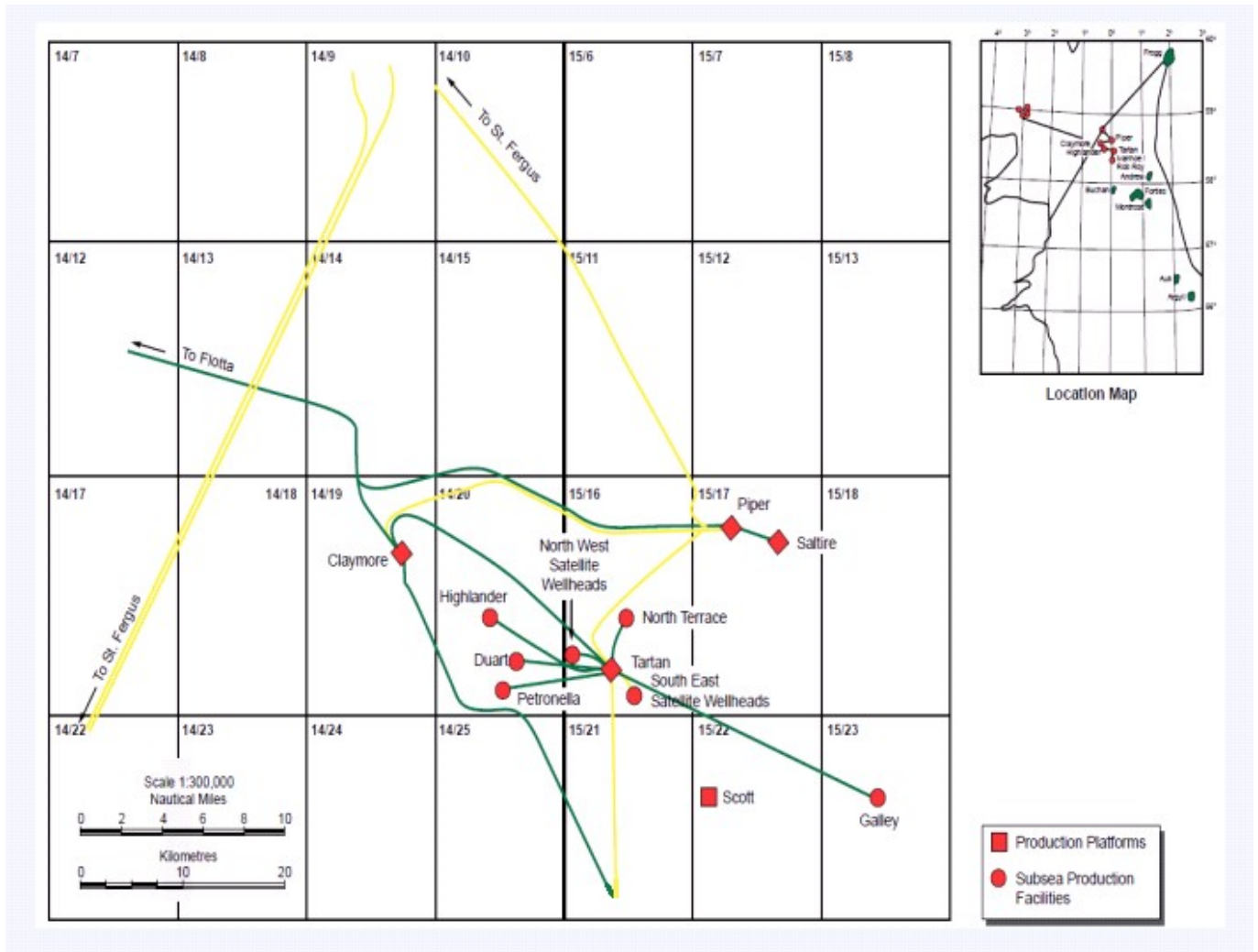
|                                     |                                                                                                                                                 |                                                                                                                                                                                                          |                      |                                                    |                                           |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------|-------------------------------------------|
| Repsol Sinopec Resources UK Limited | PL312 /<br>PL313 /<br>PL314 /<br>PL315 /<br>PL316 /<br>PL568 /<br>PL569 /<br>PL570                                                              | 12" Production /<br>8" Test & Production /<br>8" Gas Lift /<br>8" Water Injection /<br>4" Water Injection /<br>3No. Control Umbilical                                                                    | 6km North West       | Highlander Subsea Infrastructure <sup>NOTE 1</sup> | Cessation of Production (Wells Suspended) |
| Repsol Sinopec Resources UK Limited | PL393 /<br>PL394 /<br>PL508 /<br>PL509 /<br>PL510                                                                                               | 12" Gas Lift /<br>8" Production /<br>3No. Control Umbilical                                                                                                                                              | 3km South West       | Petronella Subsea Infrastructure <sup>NOTE 1</sup> | Cessation of Production (Well Suspended)  |
| Repsol Sinopec Resources UK Limited | PL1505 /<br>PL1506 /<br>PL1507 /<br>PL1508 /<br>PL1510 /<br>PL1511 /<br>PL1961 /<br>PLU2380 /<br>PLU5056 /<br>PLU5058 /<br>PLU5059 /<br>PLU5060 | 10" Production /<br>8" Water Injection /<br>3No. 8" In-field<br>Production /<br>8" In-field Water Injection /<br>6" In-field Water Injection /<br>Control Umbilical /<br>3No. In-field Control Umbilical | 32km East South East | Galley Subsea Infrastructure <sup>NOTE 1</sup>     | Cessation of Production (Wells Suspended) |

#### Impacts of Decommissioning Proposals

None of the adjacent facilities listed above are affected by these decommissioning programmes. However, the operators of these installations will be contacted to investigate any benefits and cost savings available through co-operation and alignment of decommissioning activities.

<sup>NOTE 1</sup> Tartan 'Area' infrastructure which it is assumed will form part of a single Decommissioning Project for the Tartan 'Area'. As these crossings are overlaid with rock, no further work is expected at these locations. It is recognised there are numerous 'in field' crossings which will impact the methodology and sequencing of the individual lines as part of the decommissioning campaign.

**Figure 1-4: Adjacent Facilities.**



## 1.7 Industrial Implications

It is Repsol Sinopec Resources UK Limited's intention to develop a contract strategy that will result in an efficient and cost-effective execution of the decommissioning works. Repsol Sinopec Resources UK Limited will also try to combine Duart decommissioning activities with other developments or decommissioning activities in the Tartan Development Area to reduce mobilisation and demobilisation costs and realise efficiency gains through economies of scale. The decommissioning schedule is intended to allow flexibility for when decommissioning operations are carried out and completed.

Repsol Sinopec Resources UK Limited will demonstrate this intention by:

- Publishing information on the decommissioning project and timelines on its decommissioning website;
- Working closely with OGA and other industry bodies in engagement sessions with the decommissioning supply chain on issues relating to these DPs and timelines, including engaging directly with disposal yards that serve the North Sea;
- Utilising the First Point Assessment (FPAL) database as a source for establishing tender lists for contracts/purchases;
- Competitively tendering all removal scopes, including the onshore disposal scope;
- Aligning supply chain and decommissioning activity, wherever possible, with Operators of adjacent infrastructure to optimise efficiencies and cost reduction;
- Development and submission of the Supply Chain Action Plan (SCAP) to the OGA.

## 2 DESCRIPTION OF ITEMS TO BE DECOMMISSIONED

### 2.1 Installation(s): Surface Facilities (Topsides/Jacket(s)/FPSO etc.)

| Table 2-1: Surface Facilities Information |               |          |  |                     |               |                        |                |                 |                      |
|-------------------------------------------|---------------|----------|--|---------------------|---------------|------------------------|----------------|-----------------|----------------------|
| Name                                      | Facility Type | Location |  | 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(s): Subsea including Stabilisation Features

| Table 2-2: Subsea Installations and Stabilisation Features |        |                                                 |                            |                                     |                                                                                                                                                                      |
|------------------------------------------------------------|--------|-------------------------------------------------|----------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subsea installations including Stabilisation Features      | Number | Size(m)/Weight (Te)                             | Location                   |                                     | Comments/Status                                                                                                                                                      |
| Duart Well WHPS                                            | 1      | 9.2m (L) x<br>8.7m (W) x<br>5.4m (H)<br>72.0 Te | WGS84<br>Decimal           | 58.864617<br>0.059436               | Structure is secured to the seabed by well conductor.<br><br>Combined structure & Xmas tree to be removed during P&A activity.                                       |
|                                                            |        |                                                 | WGS84<br>Decimal<br>Minute | 58° 51' 52.62" N<br>0° 03' 33.97" W |                                                                                                                                                                      |
| Chemical Injection Valve Support Skid                      | 1      | 0.7m (L) x<br>0.4m (W) x<br>0.6m (H)<br>1.5 Te  | WGS84<br>Decimal           | 58.864617<br>0.059436               | Structure is a gravity-based structure, afforded protection by the Duart Well WHPS, by being on the seabed underneath / within the footprint of the Duart Well WHPS. |
|                                                            |        |                                                 | WGS84<br>Decimal<br>Minute | 58° 51' 52.62" N<br>0° 03' 33.97" W |                                                                                                                                                                      |
| Concrete Mattresses                                        | 0      |                                                 | N/A                        |                                     |                                                                                                                                                                      |

## 2.3 Pipelines Including Stabilisation Features

| Table 2-3: Pipeline/Flowline/Umbilical Information |                 |                   |             |                                                                                      |                                                                                    |                                       |                       |                 |                                                                                         |
|----------------------------------------------------|-----------------|-------------------|-------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------|-----------------------|-----------------|-----------------------------------------------------------------------------------------|
| Description                                        | Pipeline Number | Diameter (inches) | Length (km) | Description of Component Parts                                                       | Product Conveyed                                                                   | From – To End Points                  | Burial Status         | Pipeline Status | Current Content                                                                         |
| Production pipeline                                | PL2450          | 8                 | 8.05        | carbon steel / plastic coatings                                                      | Oil                                                                                | Duart North Well to Tartan A Platform | Trenched / Backfilled | Out of Use      | Treated seawater                                                                        |
| Gas Lift Pipeline                                  | PL2451          | 3                 | 8.043       | carbon steel / plastic coatings                                                      | Lift Gas                                                                           | Tartan A Platform to Duart North Well | Trenched / Backfilled | Out of Use      | Treated seawater                                                                        |
| Umbilical to Duart Well                            | PLU2480         | 4.9 / 5.2         | 8.40        | Electrical, Hydraulic & Chemical<br>Carbon steel / copper / plastic & misc. coatings | Hydraulic Fluid / Methanol / Wax Inhibitor / Corrosion Inhibitor / Scale Inhibitor | Tartan A Platform to Duart North Well | Trenched / Backfilled | Out of Use      | Hydraulic cores filled with Pelagic 100/<br>Chemical cores filled with Treated seawater |

**Table 2-4: Subsea Pipeline Stabilisation Features**

| Stabilisation Feature                                                  | Total Number | Weight (Te) | Location(s)                                                          | Exposed/Buried/Condition |
|------------------------------------------------------------------------|--------------|-------------|----------------------------------------------------------------------|--------------------------|
| Concrete mattresses<br>(11 x 8.3Te/ 6x3x0.3m & 75 x 4.7Te / 6x3x0.15m) | 86           | 443.8       | Tartan Alpha Platform                                                | Exposed                  |
| Grout Bags (25kg)                                                      | 100          | 2.5         | Tartan Alpha Platform                                                | Exposed                  |
| Rock cover                                                             | N/A          | 138         | Tartan Alpha Platform                                                | N/A                      |
| Concrete mattresses<br>(22 x 8.3Te / 6x3x0.3m)                         | 22           | 182.6       | Highlander Pipeline Crossings                                        | Buried in rockcover      |
| Rock cover                                                             | N/A          | 15,100      | Highlander Pipeline Crossings                                        | N/A                      |
| Rock cover                                                             | N/A          | 60,000      | Intermittently along Duart to Tartan Alpha Production Pipeline Route | N/A                      |
| Concrete mattresses<br>(36 x 4.7Te / 6x3x0.15m)                        | 36           | 169.2       | Duart Well                                                           | Exposed                  |
| Grout Bags (25kg)                                                      | 100          | 2.5         | Duart Well                                                           | Exposed                  |
| Rock cover                                                             | N/A          | 138         | Duart Well                                                           | N/A                      |

## 2.4 Wells

| Table 2-5: Well Information |                   |           |                  |
|-----------------------------|-------------------|-----------|------------------|
| Platform Wells              | Designation       | Status    | Category of Well |
| None                        |                   |           |                  |
| Subsea Wells                |                   |           |                  |
| 14/20-7                     | Appraisal         | Abandoned | N/A              |
| 14/20b-18                   | Exploration       | Abandoned | N/A              |
| 14/20b-21                   | Exploration       | Abandoned | N/A              |
| 14/20b-28                   | Appraisal         | Abandoned | N/A              |
| 14/20b-33                   | Gas Lift Producer | Shut-in   | SS 4/3/3         |

## 2.5 Drill Cuttings

| Table 2-6: Drill Cuttings Pile(s) Information   |                                  |                                                   |
|-------------------------------------------------|----------------------------------|---------------------------------------------------|
| Location of Pile Centre<br>(Latitude/Longitude) | Seabed Area<br>(m <sup>2</sup> ) | Estimated volume of<br>cuttings (m <sup>3</sup> ) |
| N/A <sup>4</sup>                                |                                  |                                                   |

<sup>4</sup> No cuttings pile at the Duart drill centre and management of the Tartan A cuttings pile is captured in the Tartan A substructure DP.

## 2.6 Inventory Estimates

Figure 2-1: Estimated Inventory – Subsea Installations

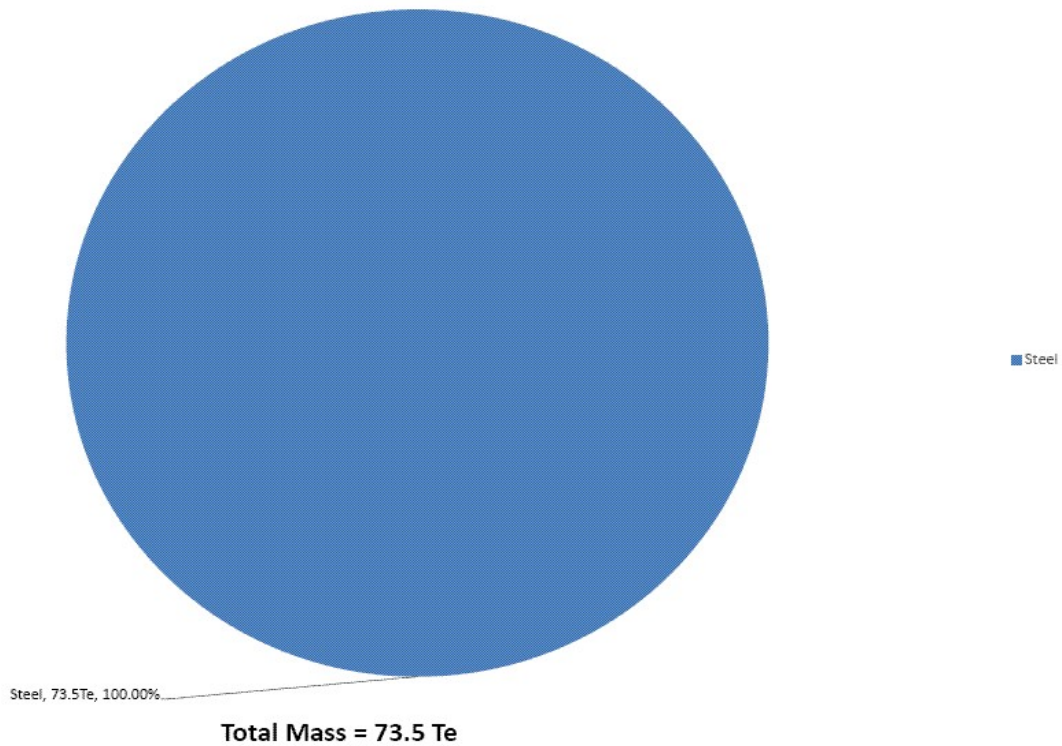
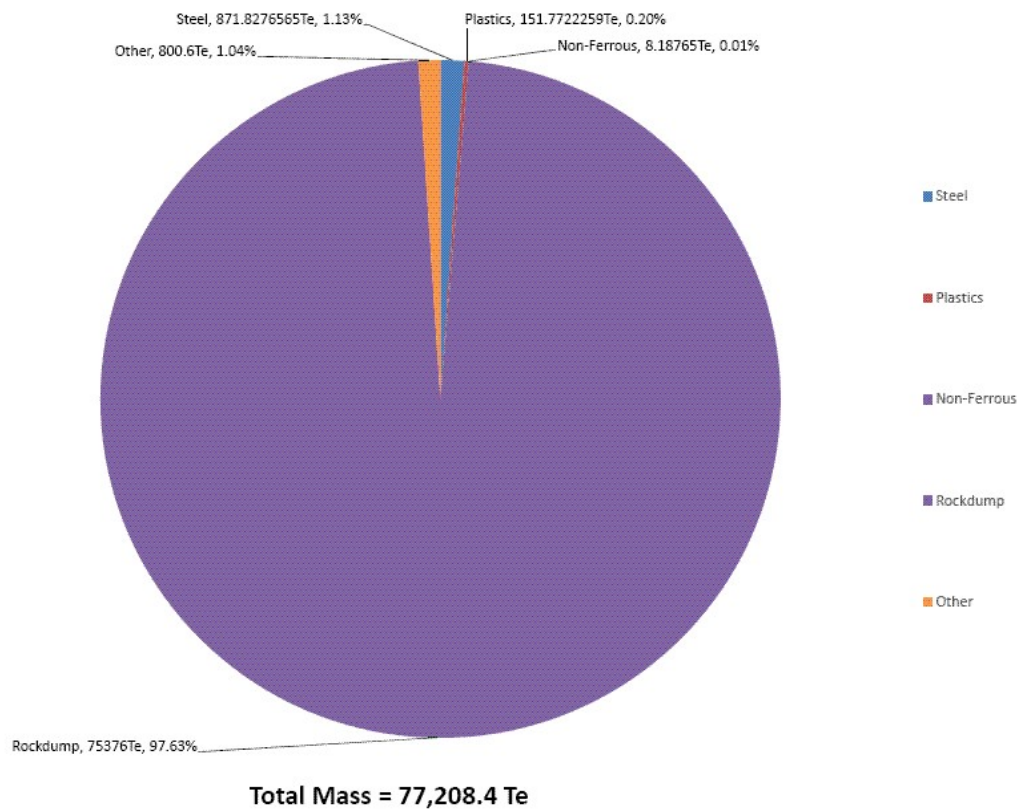


Figure 2-2: Estimated Inventory – Pipelines, Umbilicals, Risers & Stabilisation features



### 3 REMOVAL AND DISPOSAL METHODS

In line with the waste management hierarchy, the re-use of an installation (or parts thereof) is first in the order of decommissioning options. Repsol Sinopec Resources UK Limited considered other potential reuse options, however, none yielded a viable commercial opportunity.

On removal and where practicable, Repsol Sinopec Resources UK Limited will ensure the principles of the waste management hierarchy will be met in the handling of materials from the Duart decommissioning to maximise the amount of material which can be reused or recovered/ recycled.

Repsol Sinopec Resources UK Limited and the selected contractor (s) will monitor and review the disposal route of all materials and waste to the point of final reuse, recycling or disposal. As the decommissioning is not scheduled to be completed imminently, Repsol Sinopec Resources UK Limited propose to take advantage of any future advances in technology to aid waste management, including the further reuse, recycle or scrapping of parts of the installations as appropriate.

#### 3.1 Topsides

##### **Topsides Decommissioning Overview:**

N/A

##### **Preparation/Cleaning:**

| Table 3-1: Cleaning of Topsides for Removal |                      |                |
|---------------------------------------------|----------------------|----------------|
| Waste Type                                  | Composition of Waste | Disposal Route |
| N/A                                         |                      |                |

##### **Removal Methods:**

| Table 3-2: Topsides Removal Methods                                                                                                                                       |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1) HLV (semi-submersible crane vessel) <input type="checkbox"/> 2) SLV <input type="checkbox"/> 3) Piece small <input type="checkbox"/> 4) Other <input type="checkbox"/> |             |
| Method                                                                                                                                                                    | Description |
| N/A                                                                                                                                                                       |             |

## 3.2 Jacket(s)

### 3.2.1 Jacket Decommissioning Overview:

N/A

### 3.2.2 Jacket Removal Methods

| Table 3-3: Jacket Removal Methods                                                                                                                |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| 1) HLV (semi-submersible crane vessel) <input type="checkbox"/> 2) SLV <input type="checkbox"/> 3) Piece small <input type="checkbox"/> 4) Other |             |
| Method                                                                                                                                           | Description |
| N/A                                                                                                                                              |             |

## 3.3 Subsea Installations and Stabilisation Features

| Table 3-4: Subsea Installation(s) and Stabilisation Feature(s) decommissioning Options |        |              |                                                |
|----------------------------------------------------------------------------------------|--------|--------------|------------------------------------------------|
| Subsea installation(s) and stabilisation feature(s)                                    | Number | Option       | Disposal Route (if applicable)                 |
| Duart Well WHPS                                                                        | 1      | Full Removal | Return to shore for reuse/ recycling/ disposal |
| Chemical Injection Valve Support Skid                                                  | 1      | Full Removal | Return to shore for reuse/ recycling/ disposal |

### 3.4 Pipelines

#### Decommissioning Options:

\*Key to Options:

- |                                                        |                                                               |                                                        |
|--------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------|
| 1) Total removal - by reverse reeling                  | 2) Total removal – by reverse S-lay                           | 3) Total removal – cut and lift                        |
| 4) Remediation in-situ – exposed sections rock covered | 5) Remediation in-situ – exposed sections trenched and buried | 6) Remediation in-situ – exposed sections cut and lift |

**Table 3-5: Pipeline or Pipeline Groups Decommissioning Options**

| Pipeline or Group (as per PWA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Condition of line/group<br>(Surface laid/trenched/<br>buried/spanning) | Whole or part of<br>pipeline/group                                                                                           | Decommissioning options*<br>considered |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Group C <sup>Note 1</sup><br>PL2450<br>PL2451<br>PLU2480                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rigid Pipelines and<br>umbilicals, trenched and<br>buried              | Part of a pipeline group<br>covering pipelines in<br>other fields within the<br>Tartan Development<br>Area <sup>Note 1</sup> | 1), 4), 5), 6) <sup>Note 2</sup>       |
| <p>Notes</p> <p>1. One combined CA workshop was convened covering all pipelines and umbilicals across all fields within the Tartan Development Area and for expediency some pipeline groups with similar facets were grouped together, regardless of field location. Only pipelines/umbilicals within the Duart field are reported in this table, with other pipelines within the pipeline group located in other fields reported in their applicable Decommissioning Programmes. See Figure 3-1 for details.</p> <p>2. Option 2) Total Removal by reverse S-Lay and Option 3) Total Removal by cut and lift were discounted for this pipeline Group C during the pre-screening studies and before the CA workshop as this pipeline group consists of smaller diameter pipelines which could be recovered using reverse reeling techniques, which achieved a Total Removal Option in a more efficient method than Options 2) and 3), incurring less deck space requirements, less manual handling and lower cost than adopting Reverse S-lay techniques.</p> |                                                                        |                                                                                                                              |                                        |

#### Comparative Assessment Method:

A Comparative Assessment (CA) was carried out for all pipelines and umbilicals in line with the recommendations of the Offshore Petroleum Regulator for Environment and Decommissioning (OPRED) Guidance Notes. The CA considered Technical, Safety and Environmental Risks and Societal and Economic Impacts. The assessments closely followed the Guidelines on CA's in DPs published by Oil and Gas UK (OGUK).

A combined CA Workshop covering all pipelines and umbilicals in the Tartan Development Area was held by Repsol Sinopec Resources UK Limited (representatives from the safety, environmental and subsea teams present) using established terms of reference, detailed data on field facilities, results were recorded and approved by participants. The results specific to the pipelines and umbilicals the Duart field only are described in these DPs.

**Figure 3-1: Field Layout showing Pipeline Groups**

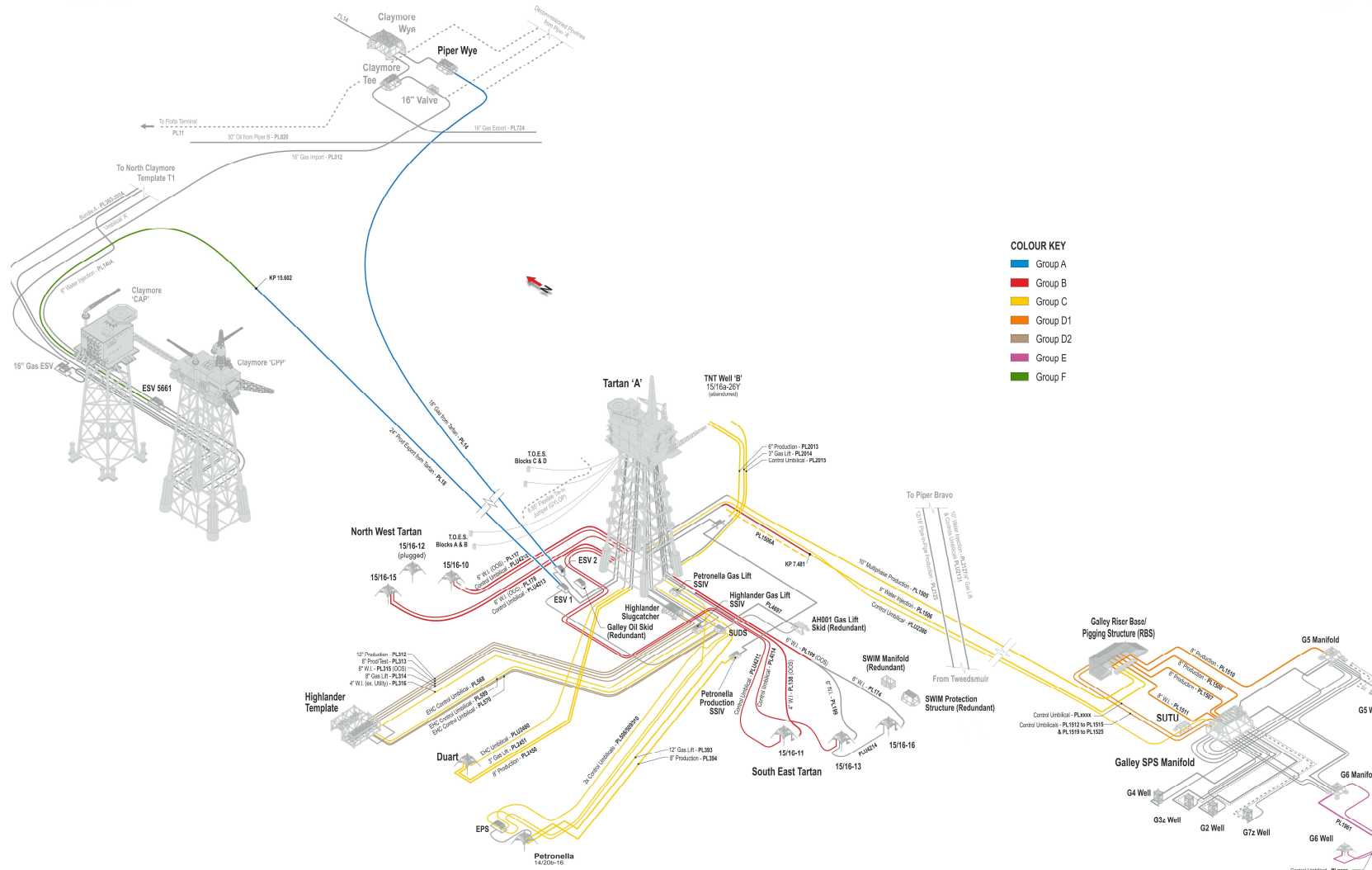


Table 3-6: Outcome of Comparative Assessment

| Pipeline or Group (as per PWA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Recommended Option                                                                                                                                  | Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Group C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Decommission by leaving trenched and buried sections in situ and remediating the exposed sections by trench and bury techniques <sup>Note 1</sup> . | <p>The pipelines and umbilicals in this group are buried to an average depth greater than 0.6m to top of pipe and, based on a review of the historic survey information it is expected or has been demonstrated that these pipelines and umbilicals will remain buried.</p> <p>Total removal options were discounted for these trenched and buried pipelines as full removal of the lines would be technically challenging, whilst the increased safety risk exposure time to project personnel both offshore and onshore in having to handle large pipeline and umbilical lengths was a concern. In addition, recovery of the pipelines would result in excessive seabed disturbance.</p> <p>There will be minimum legacy risk to other users of the sea in leaving these pipelines <i>in-situ</i> as historical surveys have demonstrated that the trenched and buried sections of the pipelines will remain stable.</p> <p>The exposed sections will be remediated by trench and bury <sup>Note 1</sup>.</p> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <p><sup>Note 1</sup> The conclusion of the CA was that there is no significant differentiator on each of the remediation options for the exposed sections of pipelines and umbilical. However, the slight differences have resulted in the remediate in situ options being prioritised for Group C as follows:</p> <ul style="list-style-type: none"> <li>• Priority 1 – Trench and bury (Option 5)</li> <li>• Priority 2 – Cut and lift (Option 6)</li> <li>• Priority 3 – Rock cover (Option 4)</li> </ul> <p>Given that there is no significant differentiator Repsol Sinopec Resources UK Limited intend to carry out a Contracting and Procurement (C&amp;P) engagement exercise and tendering process on all three options and will consult with OPRED should this exercise result in a change in preference of the remediation option from Option 5).</p> |                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### 3.5 Pipeline Stabilisation Feature(s)

| Table 3-7: Pipeline Stabilisation Feature(s)           |        |                                                                                                                                                                                                                                                                                                                      |                                                |
|--------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Stabilisation feature(s)                               | Number | Option                                                                                                                                                                                                                                                                                                               | Disposal Route (if applicable)                 |
| Exposed Concrete Mattresses (11 x 8.3Te / 111 x 4.7Te) | 122    | Full recovery of exposed concrete mattresses.<br>It is intended that the mattresses will be recovered to shore, however in the event of practical difficulties during the removal execution, OPRED will be consulted and an alternative method of decommissioning will be examined through a comparative assessment. | Return to shore for reuse/ recycling/ disposal |
| Exposed Grout Bags (25kg)                              | 200    | Full recovery.                                                                                                                                                                                                                                                                                                       | Return to shore for reuse/ recycling/ disposal |
| Rock cover (Te)                                        | 75,376 | To remain in place.                                                                                                                                                                                                                                                                                                  | N/A                                            |
| Buried Concrete Mattresses (8.3Te)                     | 22     | To remain in place (buried under rock cover).                                                                                                                                                                                                                                                                        | N/A                                            |

### 3.6 Wells

| Table 3-8: Well Plug and Abandonment                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The well (listed in Table 2.5) will be plugged in compliance with the requirements of the Offshore Installations and Wells (Design and Construction, etc.) Regulations 1996 (DCR) and abandoned in accordance with the latest version of the Oil & Gas UK Guidelines for the Suspension and Abandonment of Wells (Issue 6, June 2018). |

### 3.7 Drill Cuttings

| Table 3-9: Drill Cuttings decommissioning Options                                                                                                                                                                                                                                                                                    |                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| How many drill cuttings piles are present?                                                                                                                                                                                                                                                                                           | N/A <sup>5</sup> |
| Tick options examined:<br><input type="checkbox"/> Remove and re-inject <input type="checkbox"/> Leave in place <input type="checkbox"/> Cover<br><input type="checkbox"/> Relocate on seabed <input type="checkbox"/> Remove and treat onshore <input type="checkbox"/> Remove and treat offshore<br><input type="checkbox"/> Other |                  |
| <b>Review of Pile characteristics</b>                                                                                                                                                                                                                                                                                                | <b>Pile 1</b>    |
| How has the cuttings pile been screened? (desktop exercise/actual samples taken)                                                                                                                                                                                                                                                     |                  |
| Dates of sampling (if applicable)                                                                                                                                                                                                                                                                                                    |                  |
| Sampling to be included in pre-decommissioning survey?                                                                                                                                                                                                                                                                               |                  |
| Does it fall below both OSPAR thresholds?                                                                                                                                                                                                                                                                                            |                  |
| Will the drill cuttings pile have to be displaced                                                                                                                                                                                                                                                                                    |                  |
| What quantity (m <sup>3</sup> ) would have to be displaced/removed?                                                                                                                                                                                                                                                                  |                  |
| Will the drill cuttings pile have to be displaced in order to remove any pipelines?                                                                                                                                                                                                                                                  |                  |
| What quantity (m <sup>3</sup> ) would have to be displaced/removed?                                                                                                                                                                                                                                                                  |                  |
| Have you carried out a Comparative Assessment of options for the Cuttings Pile?                                                                                                                                                                                                                                                      |                  |
|                                                                                                                                                                                                                                                                                                                                      |                  |

**Comparative Assessment Method:**

N/A

**Outcome of Comparative Assessment:**

N/A

<sup>5</sup> No cuttings pile at the Duart drill centre and details of the Tartan A cuttings pile are captured in the Tartan A substructure DP.

### 3.8 Waste Streams

**Table 3-10: Waste Stream Management Methods**

| Waste Stream              | Removal and Disposal method                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bulk liquids              | Residual hydrocarbons will be removed and transported to shore. Pipework will be drained prior to removal to shore and shipped in accordance with maritime transportation guidelines. Further cleaning and decontamination will take place onshore prior to recycling/re-use.<br>All pipelines will be flushed, cleaned and filled with seawater prior to decommissioning activities taking place. |
| Marine growth             | Where necessary and practicable to allow access, some marine growth will be removed offshore. The remainder will be brought ashore and disposed of in accordance with health, safety and environmental protocols.                                                                                                                                                                                  |
| NORM                      | Tests for NORM will be undertaken offshore and work will be carried out in full compliance with all relevant regulations.                                                                                                                                                                                                                                                                          |
| Asbestos                  | N/A                                                                                                                                                                                                                                                                                                                                                                                                |
| Other hazardous wastes    | Will be recovered to shore and disposed of in full compliance with all relevant regulations.                                                                                                                                                                                                                                                                                                       |
| Onshore Dismantling sites | Appropriate licensed sites will be selected. Dismantling sites must demonstrate waste stream management throughout the deconstruction process and the ability to deliver innovative reuse and recycling options. Existing sites would need a proven track record.                                                                                                                                  |

As part of the Contracting Strategy, Repsol Sinopec Resources UK Limited will ensure the selection of waste competent Contractor(s), experienced in the handling of all wastes associated with the decommissioning of Oil and Gas infrastructure.

The waste management provider's/disposal yards shall follow the waste management hierarchy in the handling of materials from the Tartan Development Area decommissioning Project to maximize the amount of material from the projects which is reused or recovered/recycled. Repsol Sinopec Resources UK Limited and the selected removal contractor(s) will, monitor and review the disposal route of all materials and waste to the point of final reuse, recycling or disposal and reserves the right to audit to fulfil any Duty of Care responsibilities. 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.

**Table 3-11: Inventory Disposition**

|                      | Total Inventory Tonnage | Planned tonnage to shore | Planned left in situ |
|----------------------|-------------------------|--------------------------|----------------------|
| Installations        | N/A                     | N/A                      | N/A                  |
| Subsea Installations | 73.5te                  | 73.5te                   | 0                    |
| Pipelines            | 77,208.4te              | 694.2te                  | 76,514.2te           |

## 4 ENVIRONMENTAL APPRAISAL OVERVIEW

### 4.1 Environmental Sensitivities (Summary)

| Table 4-1: Environmental Sensitivities |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Receptor                 | Main Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Conservation interests                 | <p>The nearest protected areas to the Tartan Development Area are the Scanner Pockmark Special Area of Conservation (SAC), and the Central Fladen Nature Conservation Marine Protected Area (NCMPA), located c. 25 km west and c. 35 km north of the fields, respectively. Given the distance to these sites, the activities associated with decommissioning the Duart Field will not impact on designated areas. .</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Seabed                                 | <p>Repsol Sinopec Resources UK Limited commissioned a pre-decommissioning environmental survey in September/October 2019. As part of the survey, video, stills of the seabed and seabed samples were collected to assess the existing environmental conditions.</p> <p>The sediments across the area covered by the pre-decommissioning survey were considered to be relatively homogenous and to comprise three main habitats: circalittoral fine mud (EUNIS A5.36), circalittoral sandy mud (EUNIS A5.35) and deep circalittoral mixed sediment (EUNIS A5.45).</p> <p>The sea pens <i>Virgularia mirabilis</i> and <i>Pennatula phosphorea</i> and burrows and tracks created by megafauna (e.g. <i>Nephrops norvegicus</i>) were widespread throughout the survey area. The majority of the Tartan Development Area is therefore considered to meet the criteria for the OSPAR listed threatened and/or declining habitat 'Sea pen and burrowing megafauna communities' as well as the UK Habitat Feature of Conservation Importance and UKBAP habitat 'mud habitats in deep water'.</p> <p>Juvenile specimens of the OSPAR protected species ocean quahog (<i>Arctica islandica</i>) were recorded in a number of the grab samples taken as part of the environmental survey at the Duart field.</p> <p>The survey did not identify any accumulations of drill cuttings in the Duart Field such that there is no cuttings pile associated with the drill centre.</p> |
| Fish                                   | <p>Several fish species are known to spawn in the area including (but not limited to): cod, whiting, lemon sole, Norway pout, <i>Nephrops</i>, and sprat. Group 0 fish for a number of species have been found in the area indicating it is used as a nursery ground for these species including (but not limited to): anglerfish, whiting, cod, hake, haddock, Norway pout, <i>Nephrops</i>, blue whiting and sprat.</p> <p>Of the fish species identified in the area, cod, Norway pout, whiting, blue whiting and anglerfish have been assessed by the Scottish Natural Heritage (SNH) and the Joint Nature Conservation Committee (JNCC) as Priority Marine Features (PMFs) in Scotland.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fisheries              | The infrastructure associated with the Duart field occurs within International Council for Exploration of the Sea (ICES) rectangles 45E9 and 45F0. Pelagic, demersal and shellfish species are fished from both these rectangles. Available data suggests that these ICES rectangles encompass an area that is relatively important to the UK fishing industry such that fishing activity in the area can be considered high. A review of the Scottish Government landings data for 2014 to 2018 shows that trawl gear is used in both rectangles, whilst seine nets are also active in rectangle 45E9. |
| Marine Mammals         | The Atlas of Cetacean Distribution in Northwest European Waters suggests that moderate to low densities of Atlantic white-sided dolphin and harbour porpoise and high to low densities of white-beaked dolphin and minke whale have been sighted in the immediate vicinity of the Tartan Development Area infrastructure.                                                                                                                                                                                                                                                                               |
| Birds                  | European Seabirds at Sea (ESAS) data collected over 30 years , indicates the presence of a number of bird species in the area including but not limited to the northern gannet, northern fulmar, black-legged kittiwake, lesser and greater black-backed gull, razorbill, great and Arctic skua, little auk, herring gull, common gull, common guillemot and Atlantic puffin.                                                                                                                                                                                                                           |
| Onshore Communities    | At this stage of the project, the onshore dismantling and disposal yards are not yet chosen and therefore it is not possible to describe the specific locations where activities will take place.<br><br>Repsol Sinopec Resources UK Limited intends to engage approved dismantling contractors to handle the recovered materials. In addition, approved waste management contractors will be selected to handle, store and dispose of any materials that cannot be recycled or reused.                                                                                                                 |
| Other Users of the Sea | Based on available data, shipping activity in the vicinity of the Tartan Development Area is considered low.<br><br>There are no offshore windfarm developments within the vicinity of the Tartan Development Area.<br><br>The fields are located in a well-developed oil and gas area with a number of developments in the area including Scott (c. 13 km southeast), Piper B (c. 13 km northeast) Saltire (c. 16 km east northeast) and Claymore (c. 27 km northwest).                                                                                                                                |
| Atmosphere             | Offshore, emissions to the atmosphere will arise from the vessels used to decommission the Duart infrastructure. Onshore emissions will result from the yard activities including recycling of the steel associated with the material returned to shore. Repsol Sinopec Resources UK Limited acknowledge that these emissions will contribute to the cumulative effect of emissions on climate change, though the impact will be minimised via the application of the mitigation measures identified in Table 4-2.                                                                                      |

## 4.2 Potential Environmental Impacts and their Management

### Environmental Impact Assessment Summary:

| Table 4-2: Environmental Impact Management |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Activity                                   | Main Impacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Topsides Removal                           | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Jacket(s)/Floating Facility Removal        | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Subsea Installation(s) Removal             | <p>When assessing the impacts associated with recovery of the two subsea installations identified in Table 3-4 the aspects considered as part of the EA process included:</p> <ul style="list-style-type: none"> <li>• The physical presence of vessels;</li> <li>• Energy use and atmospheric emissions;</li> <li>• Underwater noise from vessels;</li> <li>• Discharges to sea from vessels;</li> <li>• Temporary disturbance to the seabed from activities, including cutting and recovery;</li> <li>• Discharges to sea from the subsea installations during recovery operations;</li> <li>• Production of waste materials.</li> </ul> <p>Applying the mitigations summarised in this table (to be detailed in the EA Report) the environmental and societal significance of the proposed activities associated with recovering the subsea installations is considered low.</p> | <p>During decommissioning of the subsea installations, a number of mitigation measures will be adhered to, in order to minimise the marine environmental and socio-economic impacts. These will be identified in the EA Report and are summarised here:</p> <ul style="list-style-type: none"> <li>• Repsol Sinopec Resources UK Limited will carry out a detailed assurance process on all vessels prior to contract award and all contractors will originate from countries signed up to the International Maritime Organisation and will adhere to their guidelines.</li> <li>• Vessel use will be optimised.</li> <li>• Flushing and cleaning have been completed in line with BAT/BEP (Best Available Technique/Best Environmental Practice) requirements.</li> <li>• Work procedures will be in place to minimise duration of activities and minimise likelihood of dropped objects.</li> <li>• Any potential SIMOPS (simultaneous operations) will be managed through bridging documents and communications.</li> <li>• Cutting/dredging/jetting work plans will be in place.</li> <li>• Internal cutting of the conductor associated with the WHPS.</li> <li>• Preference will be given to the use of side scan sonar surveys to</li> </ul> |

**Table 4-2: Environmental Impact Management**

| Activity                               | Main Impacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Management                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p>determine a clear seabed.</p> <ul style="list-style-type: none"> <li>• Post decommissioning survey strategy.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Decommissioning Pipelines              | <p>The two Duart pipelines and the Duart umbilical described in Table 2-3 are trenched and buried with an average depth of cover &gt; 0.6 m. The three lines will be decommissioned <i>in situ</i> with remediation of the exposed ends.</p> <p>Aspects considered for the decommissioning of the pipelines and umbilical include those considered for 'Subsea Installation Removal'. In addition, they included:</p> <ul style="list-style-type: none"> <li>• Legacy impacts.</li> </ul> <p>Applying the mitigations summarised in this table (to be detailed in the EA Report) the environmental and societal significance of the activities associated with decommissioning the pipelines and umbilical is considered low.</p> | <p>During decommissioning of the pipelines and umbilical the relevant mitigation measures identified for 'Subsea Installation Removal' (see above) will be applied. In addition:</p> <ul style="list-style-type: none"> <li>• With respect to remediating the pipeline and umbilical ends trench and bury or cut and recover will be prioritised over the use of rockcover.</li> <li>• If rockcover is used it will be minimised and will be laid in profiles aligned with industry standards.</li> <li>• Preference will be given to the use of side scan sonar surveys to determine a clear seabed.</li> <li>• Post decommissioning survey strategy.</li> </ul> |
| Decommissioning Stabilisation Features | <p>The base case is to decommission the existing rockcover in situ and recover the exposed mattresses and grout bags. The 22 buried mattresses (see Table 3-7) will be decommissioned in situ.</p> <p>Aspects considered for the decommissioning of the stabilisation materials include those considered for 'Subsea Installation Removal'.</p> <p>In addition, as for 'Decommissioning of Pipelines' legacy impacts were also considered.</p> <p>Following the mitigations summarised in this table (to be detailed further in the EA Report) the environmental and societal significance of the activities associated with decommissioning</p>                                                                                  | <p>During decommissioning of the 'Stabilisation Features' the relevant mitigation measures identified for 'Subsea Installation Removal' (see above) will be applied. In addition:</p> <ul style="list-style-type: none"> <li>• In the event that any exposed mattresses or grout bags cannot be recovered Repsol Sinopec Resources UK Limited will consult with OPRED to discuss alternative approaches.</li> <li>• A survey strategy will be agreed with OPRED for monitoring any stabilisation features that will be decommissioned <i>in situ</i>.</li> </ul>                                                                                                  |

| Table 4-2: Environmental Impact Management |                                               |            |
|--------------------------------------------|-----------------------------------------------|------------|
| Activity                                   | Main Impacts                                  | Management |
|                                            | the stabilisation features is considered low. |            |
| Decommissioning Drill Cuttings             | N/A                                           | N/A        |

## 5 INTERESTED PARTY CONSULTATIONS

### Consultations Summary:

As part of the informal stakeholder engagement process in August 2020 Repsol Sinopec Resources UK Limited issued a Scoping Report to a number of stakeholders.

The Scoping Report provided an overview of the Tartan Development Area, the proposed decommissioning activities and an overview of the impacts to be assessed in this EA. Recipients of the Scoping Report were invited to comment on the Scoping Report with respect to any concerns they may have.

In addition to issuing the Scoping Report, Repsol Sinopec Resources UK Limited carried out a number of informal stakeholder engagement sessions including separate meetings with various stakeholders as the project progressed. Repsol Sinopec Resources UK Limited also carried out two Stakeholder Engagement Workshops in February 2020 to share the proposed decommissioning activities. No major concerns were raised.

Table 5.1 summarises the main concerns that the stakeholders have identified to date and full details are provided in Chapter 2 of the EA Report.

| Table 5-1: Summary of Stakeholder Comments |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Who                                        | Comment                                                                                                                                                                                                                                                                                                                                                                                                | Response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Informal Stakeholder Consultations         |                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| OPRED                                      | No response was received from OPRED on the Scoping Report<br>OPRED attended the Stakeholder Engagement Workshop and raised no concerns.                                                                                                                                                                                                                                                                | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| JNCC                                       | In response to the Scoping Report, JNCC provided guidance on information to be included in the EA.<br>In addition, they requested that the amount of additional hard substrate is minimised.<br><br>At the Stakeholder Engagement Workshop, JNCC raised discussion points on the cuttings pile modelling carried out to support the EA and on the use of rock cover to mitigate exposed line sections. | JNCC's guidance with respect to the EA has been noted and applied where relevant.<br>All surface laid pipelines and umbilicals will be recovered. The base case is to trench and bury or cut and recover the exposed sections of the buried pipelines and umbilical. Should the application of rockcover be selected during the C&P process, rock volumes will be minimised and laid in line with industry standards.<br>At the Stakeholder Engagement Workshop, JNCC raised no concerns in relation to the proposed decommissioning activities. The discussion points raised are detailed in Chapter 2 of the EA Report. |
| Scottish Environment                       | No response was received from SEPA on the Scoping Report.                                                                                                                                                                                                                                                                                                                                              | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection Agency (SEPA)                  | SEPA attended the Stakeholder Engagement Workshop and raised no concerns.                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
| United Kingdom Hydrographic Office (UKHO) | In response to the Scoping Report, the UKHO advised that at this point of the project they had no specific requests and would comment on the DPs issued for public consultation.                                                                                                                                                                                                                                                | N/A                                                                                                                                                                                                                                                                                                                                                                                |
| Scottish Fishermen's Federation (SFF)     | In their response to the Scoping Report, SFF referred Repsol Sinopec Resources UK Limited to their Oil and Gas Decommissioning Policy and advised they had no comments on the Scoping Report.<br>At the Stakeholder Engagement Workshop, SFF raised discussions in relation to: <ul style="list-style-type: none"> <li>• Fate of subsea structures; and</li> <li>• Exposures on lines decommissioned <i>in situ</i>.</li> </ul> | Repsol Sinopec Resources UK Limited will continue to take account of the SFF Oil and Gas Decommissioning Policy during the Tartan Development Area Decommissioning Project.<br>Repsol Sinopec Resources UK Limited confirmed that all subsea structures will be recovered. In addition, they confirmed that all exposures would be mitigated such that no free spans would remain. |
| Marine Scotland science (MSS)             | No response was received from MSS on the Scoping Report.<br>MSS attended the Stakeholder Engagement Workshop and raised discussions on (1) the cuttings piles and potential impacts of disturbance, and (2) pipeline exposures.                                                                                                                                                                                                 | Repsol Sinopec Resources UK Limited confirmed that the cuttings piles occur within existing 500 m exclusion zones, and that the EA Report assesses any potential cumulative impacts of disturbing the different cuttings piles. In addition, Repsol Sinopec Resources UK Limited confirmed that all exposures would be mitigated.                                                  |
| Oil and Gas Authority (OGA)               | No response was received from the OGA on the Scoping Report.<br>The OGA attended the Stakeholder Engagement Workshop and raised discussions on potential reuse options for the pipelines.                                                                                                                                                                                                                                       | Repsol Sinopec Resources UK Limited confirmed that reuse options had been considered but were not found to be feasible.                                                                                                                                                                                                                                                            |
| Health and Safety Executive (HSE)         | No response was received from the HSE on the Scoping Report.<br>The HSE attended the Stakeholder Engagement Workshop and raised discussions on post activity ground truthing of the results of the modelling of the disturbance to the cuttings piles and sediment types in the area.                                                                                                                                           | Repsol Sinopec Resources UK Limited confirmed that post decommissioning surveys would be carried out (further details are included in the EA Report). In addition, Repsol Sinopec Resources UK Limited confirmed the sediment types associated with the area (further details are included in the EA Report).                                                                      |
| <b>Statutory Consultations</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                    |
| Various Statutory Consultees              | Following statutory consultation (5 <sup>th</sup> April – 27 <sup>th</sup> May 2022), RSRUK received a number of guidance notes, questions and actions relating to the Duart Decommissioning Programmes and supporting documents                                                                                                                                                                                                | All consultee comments have been satisfactorily addressed throughout OPRED's process, and minor updates to the Decommissioning Programmes and supporting documents have been                                                                                                                                                                                                       |

|        |                       |                                |
|--------|-----------------------|--------------------------------|
|        | from the consultees.  | implemented where appropriate. |
| Public | No comments received. | N/A                            |

## **6 PROGRAMME MANAGEMENT**

### **6.1 Project Management and Verification**

Repsol Sinopec Resources UK Limited has established a multi-disciplinary team lead by a Project Manager responsible for the implementation of activities and co-ordination of all services. An execution plan will align with established Repsol Sinopec Resources UK Limited Health, Safety and Environment policies and meet all relevant legislative requirements. A contracting strategy will be based on Repsol Sinopec Resources UK Limited procurement and contracts policies, including competitive tendering for all contractor services. Where possible, activities will be co-ordinated with other decommissioning operations and take account of any initiatives promoted by the OGA. Repsol Sinopec Resources UK Limited will report regularly on the execution of the DPs to OPRED and discuss any changes in plans in advance.

### **6.2 Post-Decommissioning Debris Clearance and Verification**

A pre-decommissioning survey has been completed to identify debris within the installations' 500 m zones and within the 100 m pipeline corridors. Any seabed debris related to offshore oil and gas activities will be recovered for onshore recycling or disposal in line with existing waste management policies. The clear seabed will either be validated by an independent verification trawl over the installation sites and pipeline corridors or by the post decommissioning survey. A 100m corridor of the pipeline routes and within a 500m radius of the installation sites will be the subject to oilfield debris clearance and as-left verification surveys when decommissioning activity has concluded. The main risk from infrastructure remaining in situ is the potential for interaction with other users of the sea, specifically from fishing related activities. Where the infrastructure is trenched below seabed level or trenched & buried below, the effect of interaction with other users of the sea is considered to be negligible. The infrastructure is currently shown on Admiralty Charts and the FishSafe system. Once the Duart field installations and pipelines are removed RSRUK will inform OPRED and provide evidence of removal. When decommissioning activity has been completed, updated information will be made available to update Admiralty Charts and FishSafe system. When decommissioning activities have been completed, and where applicable, the safety zones around offshore infrastructure will be removed.

The licence holders recognise their commitment to undertake post-decommissioning monitoring of infrastructure left in situ. After the post-decommissioning survey reports have been sent to OPRED and reviewed, a post-decommissioning monitoring survey regime, scope and frequency, will be agreed with OPRED.

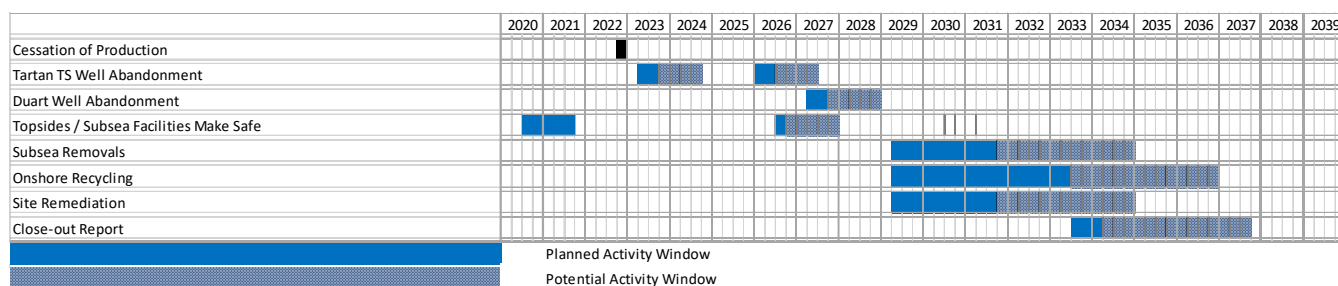
### **6.3 Schedule**

The main milestones on the Duart DPs are:

- Wells abandonment
- Subsea infrastructure removal
- Post removal survey

The schedule may change to maximise economic recovery or to exploit opportunities to minimise decommissioning impacts by combining other decommissioning activities within our portfolio into campaigns, or by combining Tartan Development Area decommissioning operations with third party decommissioning. The schedule for the Duart DPs are outlined in Figure 6.1.

**Figure 6-1: Gantt Chart of Project Plan**



<sup>Note</sup> The Duart subsea facilities make safe operations have been completed as part of the 2020 decommissioning project campaign.

## 6.4 Costs

| Table 6-1: Provisional Decommissioning Programme(s) costs                    |                                        |
|------------------------------------------------------------------------------|----------------------------------------|
| Item                                                                         | Estimated Cost (£m)                    |
| Platform(s)/Jacket(s) - Preparation/Removal and Disposal                     | N/A                                    |
| Pipeline(s) Decommissioning                                                  | Will be provided to OPRED <sup>1</sup> |
| Subsea Installation(s) and Stabilisation Feature(s)                          | Will be provided to OPRED <sup>1</sup> |
| Well Abandonment                                                             | Will be provided to OPRED <sup>1</sup> |
| Continuing Liability – Future Pipeline and Environmental Survey Requirements | Will be provided to OPRED <sup>1</sup> |
| <b>TOTAL</b>                                                                 | Will be provided to OPRED <sup>1</sup> |

<sup>1</sup> Estimated Costs are confidential and will be provided separately to OPRED

## 6.5 Close Out

A close out report will be submitted to OPRED within 12 months of the completion of decommissioning completion, including debris clearance and post-decommissioning surveys. The close out report will notify OPRED of any variances to outcomes that have been detailed in these DPs.

## 6.6 Post-Decommissioning Monitoring and Evaluation

A post decommissioning environmental seabed survey, covering pipeline routes and sites of wellheads and installations, will be carried out when decommissioning activity has been concluded. The survey will focus on chemical and physical disturbances due to the decommissioning and be compared with the pre-decommissioning survey. Results of the survey will be forwarded to OPRED to enable a post monitoring survey regime to be agreed by both parties.

## 7 SUPPORTING DOCUMENTS

| Table 7-1: Supporting Documents |                                                                       |
|---------------------------------|-----------------------------------------------------------------------|
| Document Number                 | Title                                                                 |
| RP-DTATAR001-GE-0096            | Tartan Development Area Decommissioning Comparative Assessment Report |
| RP-DTATAR001-HS-0151            | Subsea Environmental Appraisal Report                                 |

## **8     PARTNER LETTER(S) OF SUPPORT**



CNOOC PETROLEUM EUROPE LIMITED  
Prospect House 97 Oxford Road  
Uxbridge UB8 1LU United Kingdom  
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www.intl.cnoccltd.com  
Email maurice.barcley@intl.cnoccltd.com

**Offshore Petroleum Regulator for Environment and Decommissioning**

Department for Business, Energy & Industrial Strategy

3rd Floor, Wing C

AB1 Building

Crimon Place

Aberdeen

AB10 1BJ

Your ref: 12.04.06.05/324C

DATE: 3/11/22

Dear Sir or Madam,

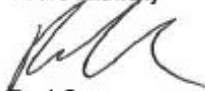
**DUART FIELD DECOMMISSIONING PROGRAMMES PETROLEUM ACT 1998**

We acknowledge receipt of your letter dated 05 October 2022.

We, CNOOC Petroleum Europe Limited (Company number 01051137), a company registered in England and Wales and having their registered office at Prospect House, 97 Oxford Road, Uxbridge UB8 1LU, as a holder of a Section 29 notice relative to the Duart field and in accordance with the Guidance Notes confirm that we authorise Repsol Sinopec LNS Limited (Company number 02483161) to submit on our behalf abandonment programmes relating to the Duart field pipelines as directed by the Secretary of State on 05 October 2022.

We confirm that we support the proposals detailed in the Repsol Sinopec LNS Limited Decommissioning Programmes dated October 2022, which is to be submitted by Repsol Sinopec LNS Limited to the Secretary of State, in so far as they relate to those facilities in respect of which we are required to submit an abandonment programme under section 29 of the Petroleum Act 1998.

Yours faithfully



Paul Gunn

Director

For and on behalf of **CNOOC Petroleum Europe Limited**

Registered in England No 1051137  
Registered Office: Prospect House 97 Oxford Road Uxbridge UB8 1LU U.K.  
VAT Registration No: 830 9476 15



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**Offshore Petroleum Regulator for Environment and Decommissioning**  
Department for Business, Energy & Industrial Strategy  
3rd Floor, Wing C  
AB1 Building  
Crimon Place  
Aberdeen  
AB10 1BJ

Your ref: 12.04.06.06/121C

DATE: 3/11/22

Dear Sir or Madam,

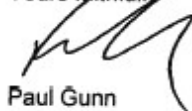
**DUART SUBSEA INSTALLATIONS DECOMMISSIONING PROGRAMMES  
PETROLEUM ACT 1998**

We acknowledge receipt of your letter dated 05 October 2022.

We, CNOOC Petroleum Europe Limited (Company number 01051137), a company registered in England and Wales and having their registered office at Prospect House, 97 Oxford Road, Uxbridge UB8 1LU, as a holder of a Section 29 notice relative to the Duart field and in accordance with the Guidance Notes confirm that we authorise Repsol Sinopec LNS Limited (Company number 02483161) to submit on our behalf abandonment programmes relating to the Duart Subsea Installations as directed by the Secretary of State on 05 October 2022.

We confirm that we support the proposals detailed in the Repsol Sinopec LNS Limited Decommissioning Programmes dated October 2022, which is to be submitted by Repsol Sinopec LNS Limited to the Secretary of State, in so far as they relate to those facilities in respect of which we are required to submit an abandonment programme under section 29 of the Petroleum Act 1998.

Yours faithfully



Paul Gunn  
Director

For and on behalf of CNOOC Petroleum Europe Limited

Registered in England No 1051137  
Registered Office: Prospect House 97 Oxford Road Uxbridge UB8 1LU U.K.  
VAT Registration No: 930 9476 15



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3rd Floor, Wing C  
AB1 Building  
Crimon Place  
Aberdeen  
AB10 1BJ

Your ref: 12.04.06.05/324C

DATE: 3/11/22

Dear Sir or Madam,

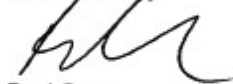
**DUART FIELD DECOMMISSIONING PROGRAMMES PETROLEUM ACT 1998**

We acknowledge receipt of your letter dated 05 October 2022.

We, CNOOC Petroleum Farragon UK Limited (Company number 05645503), a company registered in England and Wales and having their registered office at Prospect House, 97 Oxford Road, Uxbridge UB8 1LU, as a holder of a Section 29 notice relative to the Duart field and in accordance with the Guidance Notes confirm that we authorise Repsol Sinopec Resources UK Limited (Company number 02483161) to submit on our behalf abandonment programmes relating to the Duart field pipelines as directed by the Secretary of State on 05 October 2022.

We confirm that we support the proposals detailed in the Repsol Sinopec LNS Limited Decommissioning Programmes dated October 2022, which is to be submitted by Repsol Sinopec LNS Limited to the Secretary of State, in so far as they relate to those facilities in respect of which we are required to submit an abandonment programme under section 29 of the Petroleum Act 1998.

Yours faithfully



Paul Gunn  
Director

For and on behalf of CNOOC Farragon UK Limited

Registered in England No 1051137  
Registered Office: Prospect House 97 Oxford Road Uxbridge UB8 1LU U.K.  
VAT Registration No: 830 9476 15



CNOOC PETROLEUM FARRAGON UK LIMITED  
Prospect House 97 Oxford Road  
Uxbridge UB8 1LU United Kingdom  
T +44 (0) 1895 555 139 F +44 (0) 1895 555001  
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**Offshore Petroleum Regulator for Environment and Decommissioning**  
Department for Business, Energy & Industrial Strategy  
3rd Floor, Wing C  
AB1 Building  
Crimon Place  
Aberdeen  
AB10 1BJ

Your ref: 12.04.06.06/121C

DATE: 3/11/22

Dear Sir or Madam,

**DUART SUBSEA INSTALLATIONS DECOMMISSIONING PROGRAMMES  
PETROLEUM ACT 1998**

We acknowledge receipt of your letter dated 05 October 2022.

We, CNOOC Petroleum Farragon UK Limited (Company number 05645503), a company registered in England and Wales and having their registered office at Prospect House, 97 Oxford Road, Uxbridge UB8 1LU, as a holder of a Section 29 notice relative to the Duart field and in accordance with the Guidance Notes confirm that we authorise Repsol Sinopec LNS Limited (Company number 02483161) to submit on our behalf abandonment programmes relating to the Duart Subsea Installations as directed by the Secretary of State on 05 October 2022.

We confirm that we support the proposals detailed in the Repsol Sinopec LNS Limited Decommissioning Programmes dated October 2022, which is to be submitted by Repsol Sinopec LNS Limited to the Secretary of State, in so far as they relate to those facilities in respect of which we are required to submit an abandonment programme under section 29 of the Petroleum Act 1998.

Yours faithfully



Paul Gunn  
Director  
For and on behalf of CNOOC Farragon UK Limited

Registered in England No 1051137  
Registered Office: Prospect House 97 Oxford Road Uxbridge UB8 1LU U.K.  
VAT Registration No: 830 9476 15



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REPSOL SINOPEC  
LNS LIMITED

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F +44 (0)1224 353400  
W [www.repsolsinopecuk.com](http://www.repsolsinopecuk.com)

8 November 2022  
Our Ref: 22GEN001/LC

Dear Sir or Madam

**Duart Decommissioning Programmes**

**PETROLEUM ACT 1998**

We acknowledge receipt of your letters dated 5<sup>th</sup> October 2022.

We, Repsol Sinopec LNS Limited confirm that we authorise Repsol Sinopec Resources UK Limited to submit on our behalf abandonment programmes relating to the Duart installations and pipelines as directed by the Secretary of State on 5<sup>th</sup> October 2022.

We confirm that we support the proposals detailed in the Duart Decommissioning Programmes dated October 2022, which is to be submitted by Repsol Sinopec Resources UK Limited in so far as they relate to those facilities in respect of which we are required to submit an abandonment programme under section 29 of the Petroleum Act 1998.

Yours faithfully

For and on behalf of **Repsol Sinopec LNS Limited**



Director

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Registered in England and Wales No. 2483161. Registered Office, Suite 1, 7<sup>th</sup> Floor, 50 Broadway, London, SW11 0BL



Offshore Petroleum Regulator for Environment and  
Decommissioning  
Department for Business, Energy & Industrial Strategy  
3rd Floor, Wing C  
AB1 Building  
Crimon Place  
Aberdeen  
AB10 1BJ

Dear Sir or Madam

**Duart Decommissioning Programmes**

**PETROLEUM ACT 1998**

We acknowledge receipt of your letters dated 5<sup>th</sup> October 2022.

We, Repsol Sinopec Oil Trading Limited confirm that we authorise Repsol Sinopec Resources UK Limited to submit on our behalf abandonment programmes relating to the Duart installations and pipelines as directed by the Secretary of State on 5<sup>th</sup> October 2022.

We confirm that we support the proposals detailed in the Duart Decommissioning Programmes dated October 2022, which is to be submitted by Repsol Sinopec Resources UK Limited in so far as they relate to those facilities in respect of which we are required to submit an abandonment programme under section 29 of the Petroleum Act 1998.

Yours faithfully

For and on behalf of **Repsol Sinopec Oil Trading Limited**



Director

REPSOL SINOPEC  
OIL TRADING LIMITED

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8 November 2022  
Our Ref: 22GEN001/LC

**LEADERSHIP • EXCELLENCE • ACCOUNTABILITY • POSITIVITY**

Registered in England and Wales No. 02307374 - Registered Office, Suite 1, 7<sup>th</sup> Floor, 50 Broadway, London, SW1H 0BL



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Decommissioning  
Department for Business, Energy & Industrial Strategy  
3rd Floor, Wing C  
AB1 Building  
Crimon Place  
Aberdeen  
AB10 1BJ

Dear Sir or Madam

**Tartan Topsides Decommissioning Programme, the Tartan Subsea – Tartan North Terrace  
(TNT) & Tartan Satellite (TS) Decommissioning Programmes and the Duart Decommissioning  
Programmes  
PETROLEUM ACT 1998**

We acknowledge receipt of your letters dated 5<sup>th</sup> October 2022.

We, Repsol Sinopec Resources UK Limited, as operator on behalf of ourselves Repsol Sinopec North Sea Limited, Repsol Sinopec Alpha Limited, Repsol Sinopec LNS Limited, Repsol Sinopec Oil Trading Limited and Transworld Petroleum (U.K.) Limited hereby submit the Tartan Topsides Decommissioning Programme, the Tartan Subsea – Tartan North Terrace (TNT) & Tartan Satellite (TS) Decommissioning Programmes and the Duart Decommissioning Programmes dated October 2022 as directed by the Secretary of State on 5<sup>th</sup> October 2022.

The Tartan Topsides Decommissioning Programme, the Tartan Subsea – Tartan North Terrace (TNT) & Tartan Satellite (TS) Decommissioning Programmes and the Duart Decommissioning Programmes dated October 2022 are submitted by Repsol Sinopec Resources UK Limited on behalf of the Section 29 Notice Holders under section 29 of the Petroleum Act 1998.

Yours faithfully

For and on behalf of **Repsol Sinopec Resources UK Limited**



Director

REPSOL SINOPEC RESOURCES  
UK LIMITED

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8 November 2022  
Our Ref: 22GEN001/LC



**Offshore Petroleum Regulator for Environment and Decommissioning  
Department for Business, Energy & Industrial Strategy**

3rd Floor, Wing C  
AB1 Building  
Crimon Place  
Aberdeen  
AB10 1BJ

08 November 2022

Dear Sir or Madam

**Duart Field Decommissioning Programmes, Petroleum Act 1998**

We, NEO Energy (SNS) Limited (Registered Number, SC291165), confirm that we authorise Repsol Sinopec LNS Limited, (Registered Number 02483161) to submit on our behalf abandonment programmes relating to the Duart Field installations and pipelines as directed by the Secretary of State on 5 October 2022.

We confirm that we support the proposals detailed in the Repsol Sinopec LNS Limited Decommissioning Programmes dated October 2022, which is to be submitted by Repsol Sinopec LNS Limited in so far as they relate to those facilities in respect of which we are required to submit an abandonment programme under section 29 of the Petroleum Act 1998.

Yours faithfully



**Andrew Barker**

Development and Technical Services Manager  
For and on behalf of NEO Energy (SNS) Limited (Registered Number SC291165)

Level 32, The Gherkin  
30 St Mary Axe  
London EC3A 8BF

9th Floor, The Silver Fin Building  
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Department for Business, Energy & Industrial Strategy**

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Aberdeen  
AB10 1BJ

08 November 2022

Dear Sir or Madam

**Duart Field Decommissioning Programmes, Petroleum Act 1998**

We, NEO Energy (Production) Limited (Registered Number, 05896824), confirm that we authorise Repsol Sinopec LNS Limited, (Registered Number 02483161) to submit on our behalf abandonment programmes relating to the Duart Field subsea installations and pipelines as directed by the Secretary of State on 5 October 2022.

We confirm that we support the proposals detailed in the Repsol Sinopec LNS Limited Decommissioning Programmes dated October 2022, which is to be submitted by Repsol Sinopec LNS Limited in so far as they relate to those facilities in respect of which we are required to submit an abandonment programme under section 29 of the Petroleum Act 1998.

Yours faithfully



**Andrew Barker**

Development and Technical Services Manager

For and on behalf of NEO Energy (Production) Limited (Registered Number 05896824)

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London EC3A 8BF

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www.neweuropeanoffshore.com

## 9 APPENDIX A – PUBLIC NOTICE

**Public Notices**

**PUBLIC NOTICE**  
The Petroleum Act 1998

**Tartan Area fields Decommissioning**

Repsol Sinopec Resources UK Limited has submitted, for the consideration of the Secretary of State for Business, Energy and Industrial Strategy, a number of draft Decommissioning Programmes (DPs) for the installations and pipelines associated with the Tartan Area field infrastructure 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 items/facilities covered by the Decommissioning Programme(s) are:

- Tartan Alpha production platform (topsides) including platform wells;
- Tartan Subsea wells, including TNT, TS and all related subsea infrastructure;
- Duart Subsea wells and all related subsea infrastructure and;

Wells: all wells will be plugged and abandoned to Repsol Sinopec Resources UK Limited standards which comply with "Offshore Installations and Wells (Design and Construction, etc.) Regulations 1996" and align with Oil & Gas UK Well Decommissioning Guidelines.

Repsol Sinopec Resources UK Limited hereby gives notice that a summary of the Tartan Area Decommissioning Programmes can be viewed at the internet website address: [www.repsolsinopecuk.com](http://www.repsolsinopecuk.com)

Alternatively, a hard copy of the respective Tartan Area Decommissioning Programmes can be requested via email or phone call:

Phone: 01224352973  
Email: [TARAREADECOM@repsolsinopecuk.com](mailto:TARAREADECOM@repsolsinopecuk.com)

Representations regarding the Tartan Areas Decommissioning Programmes should be submitted in writing to Repsol Sinopec Resources UK Limited, 163 Holburn Street, Aberdeen AB10 6BZ where they should be received by 17th May 2022 and should state the grounds upon which any representations are being made.

Teresa Munro  
Decommissioning Manager

Date: 5th April 2022  
Repsol Sinopec Resources UK Limited  
Company Address  
163 Holburn Street  
Aberdeen  
AB10 6BZ

**Figure 9-1: Public Notice – The Press and Journal, 5<sup>th</sup> April 2022**

**Public Notices**

## PUBLIC NOTICE

The Petroleum Act 1998

**Tartan Area fields Decommissioning**

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[www.repsolsinopecuk.com](http://www.repsolsinopecuk.com)

Alternatively, a hard copy of the respective Tartan Area Decommissioning Programmes can be requested via email or phone call:

Phone: 01224352973

Email: [TARAREADECOM@repsolsinopecuk.com](mailto:TARAREADECOM@repsolsinopecuk.com)

Representations regarding the Tartan Areas Decommissioning Programmes should be submitted in writing to Repsol Sinopec Resources UK Limited, 163 Holburn Street, Aberdeen AB10 6BZ where they should be received by 17 th May 2022 and should state the grounds upon which any representations are being made.

Date: 5 th April 2022

Repsol Sinopec Resources UK Limited      Teresa Munro  
Company Address                                      Decommissioning Manager  
163 Holburn Street  
Aberdeen  
AB10 6BZ

**Figure 9-2: Public Notice – The Daily Telegraph, 5<sup>th</sup> April 2022**