



Peterhead CCS Project

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Executive Summary

The purpose of this document is to provide an integrated schedule comprised of milestones, summary activities and detailed activities for the Peterhead Carbon Capture and Storage (PCCS) project.

This deliverable has been broken down into 2 main sections:

1) FEED Schedule

Including a narrative describing the FEED schedule at a level of complexity sufficient for an overview of the 'as delivered' FEED including:

- Any changes in FEED Programme execution strategy, critical path and key risks;
- Any significant changes to the schedule and its impact on the overall FEED schedule; and
- The 'as delivered' FEED schedule identifying pre-FEED intent and the actual FEED schedule as completed.

At time of writing (November 2015) the FEED phase of the project has not yet been completed so the FEED schedule and narrative assumes that the few remaining activities would have been completed as planned.

2) Project Schedule (Execute or Project Contract Phase)

The project schedule provides an overview of the Bidder's Project, pre cancellation of the Competition by the UK Government identifying the key milestones and activities.

This document covers the entire Bidder's Project life cycle starting with the intended Shell project sanction activity (FID – Final Investment Decision – 14th December 2015). Then the following key phases are detailed: engineering, procurement, construction and commissioning. The schedule beyond Declare Clean Energy is indicative only – but runs through to Decommissioning of the CCS facilities.

The Project schedule has been developed using the latest available information from multiple input sources. The majority of the schedule scope comprising of four main elements will be executed through Engineering, Procurement and Construction (EPC) contracts as detailed below:

- Carbon Capture, Conditioning and Compression Plant.
- Power Station Modifications.
- Landfall, pipeline and subsea.
- Goldeneye Topsides Modifications

Her Majesty's Government (HMG) Autumn Statement and Statement to Markets on 25 November 2015 regarding the Carbon Capture and Storage Competition confirmed that the £1 billion ring-fenced capital budget for the Carbon Capture and Storage Competition was no longer available. This meant that the Competition could not proceed on the basis previously set out. In accordance with the agreements with DECC, the Peterhead FEED was completed as planned in December 2015. The Government and Shell are committed to sharing the knowledge from UK CCS projects, and this Key Knowledge Deliverable represents the evolution and achievement of learning throughout the Peterhead FEED and Shell's intentions for the detailed design, construction and operating phases of the project at the time of HMG's Statement to Markets.



After the announcement the tender and schedule development activities were stopped and this schedule represents the stage of development for each scope at the time of the announcement. The Landfall, pipeline and subsea and Goldeneye Topsides Modifications tender and schedule development activities were completed. A near final schedule is provided for the CCCC Plant. An indicative schedule for the Power Plant scope is presented that would have required further refinement if the project was progressing.



1. Introduction

1.1. Project Introduction

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

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

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

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



Figure 1-1: Project Location



2. FEED Schedule

The FEED schedule was developed in early 2014 and was included in the DECC/Shell FEED agreement. The schedule was baselined (shown by a thin bar under the thicker actual/forecast bar in the Level 3 schedule) and activities were added as the FEED phase developed as required for clarity.

2.1. FEED schedule structure

The project was split into the following main areas:

- Milestones.
- Events.
- DECC Deep Dive Reviews.
- SSE Key Events (to FID).
- KKD Preparation & Issue.
- PMO (Project Management Organisation) activities (including onshore technical assurance activities and preparation and finalisation of DECC deliverables).
- Project Management activities – the main group of Shell activities and deliverables supporting the project broken down into disciplines/functions.
- Commercial – Shell commercial team activities including the various project agreements.
- Onshore – including Shell onshore HSSE activities as well as a summarised version of the onshore FEED contractor (3rd Party - Technip) Level 3 schedule broken down into Power Plant and Capture and Compression Plant and then by discipline below that.
- Subsurface and Wells – Shell team activities broken down into Subsurface and Wells.
- Methanol from St. Fergus – Shell Design Office activities.
- Offshore Platform – Shell Design office activities for the Goldeneye Topsides Modifications.
- Subsea – the Pipeline and Subsea scope (including the HDD and landfall) broken down into Shell activities and Deliverables produced by the Subsea FEED contractor (WG Kenny).

2.2. FEED Key Milestones

- The Effective date of the DECC/Shell FEED agreement was 24th February 2014.
- Shell FID (Final Investment Decision) was targeted as 14th December 2015.

2.3. FEED timeline/Critical path

The overall project critical path ran through the completion of the Onshore FEED (end Q4 2014/early Q1 2015), FEED verification by onshore tenderers completed in Q1 2015, onshore tender and tender evaluation cycle (Q2/3 2015) and Shell and SSE internal Governance (Q4 2015) before Shell and SSE FID targeted for December 2015.

The subsea and the Goldeneye Platform Modifications FEEDs were not on the critical path and were scheduled to start in Q2 2014 and to be completed in early 2015 before a similar tender process in Q1/2/3 2015 and feeding into the Shell internal Governance process in Q4 2015.

The commercial workstream – covering the various project agreements was scheduled to continue for the duration of the FEED phase.



2.4. FEED schedule changes

The FEED schedule as incorporated in the DECC/Shell FEED agreement formed the target against which the Project Team worked. As is common with most schedules there was (sometimes significant) movement in the actual dates achieved as the project developed. Despite these movements of certain activities the Project was at time of writing (November 2015) on track to meet the planned Shell FID date of 14th December 2015 and to submit an updated bid to DECC (ISBU) by 21st December 2015.

The most significant changes to the FEED schedule were as follows:

1) BOO/Contracting strategy

Various contracting strategy models were considered during FEED for implementation during Execute phase. One such option was the Build-Own-Operate (BOO) model. BOO is a form of project financing where the Contractor is responsible for the design, construction and operation of a facility – enabling the Contractor to recover its investment and operating and maintenance expenses directly from the project. Considerable more risk is apportioned to the BOO contractor compared to a normal EPC contracting strategy. In a BOO arrangement, overall ownership remains with the project company which gets the benefit of any residual value in the project. A BOO scheme typically involves large amounts of finance and a long payback period. Shell approached the market to determine if there might be interest in a BOO development approach. However, none of the tender responses received was sufficiently competitive for this contracting strategy to be selected.

In early discussions with potential BOO Contractors it became clear that to maximise possible cost saving opportunities the BOO contractor would prefer to carry out the Goldeneye Platform Modifications FEED and the Subsea FEED themselves. Initial analysis of the FEED schedule indicated that it would be possible to defer the start of both the above FEEDs until tenders could be received and a decision taken on the BOO strategy without impacting the overall FEED schedule. As a result both FEEDs were deferred pending the results of the BOO tender exercise. After the decision not to go for BOO the Goldeneye Platform Modifications FEED started in July 2014 (original target was April 2014) and was completed in Q1 2015 in sufficient time for the tender cycle. The Subsea FEED started in August 2014 (original target May 2014) and was completed in early Q2 2015 – again in time for the tender cycle – although slightly later than planned.

2) HDD Pilot Hole

At the start of FEED, Horizontal Directional Drilling (HDD) was the preferred landfall method for the offshore pipeline to minimise environmental impacts. However, an open-cut trench alternative was also considered in parallel since the preferred HDD solution was not proven. In order to confirm the decision in FEED, it was decided in Q1 2015 to drill a pilot hole to determine the viability of the HDD solution. The pilot hole activities were added in to the schedule at the end of Q4 2014 and the work was carried out in Q2 2015 with the results being fed into the Subsea tender exercise. The subsea tender cycle ended up being longer than initially planned but as this was not on the critical path there was little impact on the overall schedule.

3) Methanol from St Fergus

The pre-FEED design premise was that the CCS project would be wholly supported and operated from Peterhead - requiring a new 20 km 4” methanol line to be laid in parallel with



the new CO₂ pipeline as well as drilling of a second HDD hole at considerable expense. This solution was reviewed in FEED and as a result of the identified opportunity for a significant CAPEX saving and is also safer, the decision was taken to convert the existing MEG line and storage facilities at St Fergus and convert them to methanol service for PCCS. This work was added into the schedule in Q4 2014 – with no impact on the overall schedule.

4) Onshore Tender Process (Shell and SSE)

Both the Shell EPC tender for the Capture and Compression Plant and the SSE tender for the Power Plant were issued 1-2 weeks later than planned (in April 2015). In the course of the tender return period tenderers for both contracts requested bid extensions (which were granted) to be able to submit a more complete bid. Once all tenders had been received and evaluated the bid conditioning process was similarly extended to try to improve the tender and to achieve maximum cost certainty. This led to the contractor selection activity extending into November. In order to minimise the impact on the critical path activities the project worked with preliminary data which was then supplemented with final data in the preparation of the documentation required for Shell and SSE internal governance activities including FID and for the DECC deliverables and Project Contract.

5) Carbon Storage Permit Application

The Carbon Storage Permit Application was submitted much later than planned to EU on the 24th August 2015 (it was originally planned to be in March 2015). This was due to a delay in agreeing the terms of the financial security. As a result the approval of the Carbon Storage Permit would not have arrived in time for Shell FID or for the ISBU in December 2015.

2.5. As delivered FEED schedule

See Appendix 1 – FEED Phase Level 3 schedule



3. Project Schedule

The schedule has been based on the most up to date information available. Where possible the schedules developed by the selected contractors for each element of the work have been utilised to ensure that the schedule is reflective of the execution strategy employed by each contractor and that the overall project execution strategy is retained in line with the Project Execution Plan (PEP) and Project Execution Strategy (PES) documents.

In order to avoid an excessive number of activities and to aid schedule clarity each contractor's schedule has been summarised in a way that retains the logic and durations for the key elements of the work. Key interfaces between each element of the project have been identified and reflected within the schedule to ensure that the correct drivers are in place to provide clarity to the overall project logic and to identify critical and near critical paths.

3.1. Schedule Structure

The project has been split into five main areas referred to as "Chain Links". These are reflected at the highest level within the schedule and comprise of the following scopes:

- End to End – this covers the activities that span the full duration of the project and generally aren't specific to any of the other 'Chain Link' categories. These include overall project milestones, Project Control and Assurance Plan (PCAP) deliverables, DECC's quarterly payment milestones and owners activities etc.
- Power Plant – The power plant is owned and operated by SSE and as such they will be responsible for the execution of the brownfield scope associated with the Peterhead power plant modifications necessary to support the project.
- Capture and Compression Plant – Shell's onshore EPC contractor scope covering the design, procurement, fabrication and installation of the plant required to support the capture and compression of the CO₂ from the power station.
- Offshore Pipeline System – this covers the activities associated with the design, procurement and installation of the Pipeline and Subsea equipment including the HDD and landfall scopes. The scope for the supply of Methanol from St. Fergus is also covered under this chain link.
- Storage Facility – the Goldeneye Topsides Modifications EPC contractor's scope covering the removal and installation of the new topsides facilities required to support CO₂ injection. In addition the Well work over scope and the Subsurface Surveying and Monitoring, Measurement and Verification (MMV) is also covered under this chain link.

The basis for the development of each chain link has been identified below.

3.2. End to End

This section of the schedule comprises the elements that do not generally sit within any one particular area or contract. It covers the owners team related activities such as project management and assurance activities etc. which have been developed into Cost, Time and Resource (CTR) catalogues.

This section also contains the main milestones, PCAP deliverables, Permit requirements, Key Knowledge Deliverables for the execute phase only, the DECC Design Assurance Deliverables and the DECC quarterly payment period construction milestones.

Where available the milestones dates are driven from logic links to specific activities within the schedule.



3.3. Power Plant

The section of the schedule for the Power Plant has been developed in conjunction with SSE. Further refinement will be required following receipt of an agreed level 3 schedule from SSE’s selected contractor(s). The schedule has been summarised as per the process outlined under section 3.1 above.

The schedule has been split into the main phases of Engineering, Procurement, Subcontracts, Construction and Pre-Commissioning/Commissioning with the key outputs and inputs for each phase reflected in the logic to ensure that the progress and, more importantly the delivery, of key deliverables can be monitored and the impact of any delay accurately assessed.

The work at site will be carried out under the Construction (Design & Management) regulations (CDM) that dictate that each area of the site must be segregated where possible and under the control of a single contractor. The fencing off of the site and the main site access milestones are driven from the defined scope under the Power Plant section of the schedule.

3.4. Capture and Compression Plant

The schedule has been split as per the scope identified in section 3.1. The construction phase has been spilt into the areas of the site (see Table 3-1 below) in order to provide clarity as to what scope is being carried out in each area of the greenfield site and when each scope is being executed.

The work at site will be carried out under the Construction (Design & Management) regulations (CDM) that dictate that each area of the site must be segregated where possible and under the control of a single contractor. The fencing off of the site and the main site access milestones are driven from the defined scope under the Power Plant section of the schedule.

Below is a list of the areas of the plant:

Table 3-1: Area Numbers / Description

Area Number	Description
01	CO ₂ Absorber & Direct Contact Cooler
02	Amine Regeneration
03	Flue Gas Ducting
04	Sea Water Cooling Supply
05	Interconnecting Racks
06	CO ₂ Compression
07	Cooling Water Return
08	Auxiliary Boiler House
09	Electrical Sub Station
10	Control Room & Amine / Caustic Storage
11	Steam Turbine
12	SCR & Ammonia Storage
13	Waste Water Treatment
14	HV Feeder Cables



3.5. Offshore Pipeline System

This section of the schedule comprises the activities associated with the installation of the new 20" [508 mm] pipeline from the landfall at the Peterhead power station through to the identified tie-in point in the existing 20" pipeline that runs from the Goldeneye platform to St. Fergus. This section also covers the other subsea scope associated with the project including the design, manufacture and installation of a replacement SSIV package and the associated controls equipment.

The detail in the schedule has been developed from the schedule supplied by the selected contractor during the tendering phase. The Landfall scope is based on the option of Horizontal Directional Drilling (HDD) with the pipeline being pulled in from a pipelay vessel situated offshore. This negates the impact to other onshore scope of having the 20" pipeline strung across the site which was previously the base case option.

To prove the concept of HDD an initial pilot hole has been successfully drilled during the FEED Phase. To further mitigate the potential of issues with HDD the completion of the HDD scope has been scheduled in early 2017 allowing sufficient time to revert to an 'open cut' option should problems arise without directly impacting the overall schedule.

Included within the Offshore Pipeline System is the scope for the modifications of the existing glycol facilities at St Fergus to allow for the provision of methanol to the Goldeneye platform via the existing 4-inch pipeline. Methanol is required for CO₂ injection well start-ups. The activities in this section are based on information developed during the FEED.

The activities in this section of the schedule have been resource loaded as per the contractors schedule for onshore engineering and project management activities

3.6. Storage Facility

The storage facility chain link covers the scope associated with Goldeneye platform modification to allow the topsides to handle the CO₂ exported from the Capture and Compression Plant. This chain link also includes the well work overs required to ensure that the wells are suitable for CO₂ injection and the subsurface requirements including the Measurement, Monitoring and Verification (MMV) of the storage facility.

3.6.1. Goldeneye Topsides Modifications

The Goldeneye Topsides Modifications scope covers the activities required to allow the Goldeneye platform to be able to handle the CO₂ exported from the Capture and Compression Plant.

The Goldeneye platform is a Normally Unmanned Installation (NUI) and as such has limited capacity for supporting personnel over an extended period of time. A walk to work (W2W) vessel will be contracted to support the planned offshore campaigns which are the deconstruct campaign in 2017 to remove the existing redundant facilities and the construct campaign in 2018 to install the new facilities to support the injection of CO₂.

The information contained within this section is based on a summary of the schedule submitted by the selected contractor during the tendering process. This part of the schedule has been resource loaded at the activity level to reflect the resource requirements identified in the contractors schedule.

3.6.2. Wells

To allow CO₂ to be injected directly into the depleted reservoir there is the requirement to recompleat four of the existing five wells to be capable of handling CO₂ with the fifth well being abandoned. Due to the water depth at the Goldeneye platform the well work overs and abandonment



can only be executed using a 'Deep water' Jack-up rig, as there are a limited number of these rigs available early engagement to secure a suitable rig is required.

In order to support CO₂ injection the Sub Surface Safety Valves (SSSV's) and Trees will need to be replaced with designs capable of meeting low temperature that potentially could be encountered. These items will be long lead as they are currently not available on the open market and will need to be specifically designed to match the service requirements.

3.6.3. Subsurface

This section of the schedule outlines the Subsurface activities required to support the injection of CO₂ throughout the life of the project. There is a requirement to update the subsurface models following a new 'baseline' 3D seismic survey.

Along with the new subsurface model there is also the requirement, as part of the storage permit, to provide significant quantities of monitoring data to demonstrate conformance and compliance in line with the conditions of the storage permit.

The schedule reflects at a high level the activities required to support the scopes identified above.

3.7. Commissioning

There is no specific section of the schedule for Commissioning. The activities associated with the commissioning of each of the chain link areas have been captured under that associated chain link section of the schedule with the integrated commissioning being captured under the End to End chain link.

The commissioning activities were defined during a number of commissioning workshops and the plan reflects the Work Execution Flow Scheme (WFS) developed as output from those workshops. The WFS defines the commissioning activities and the logic between each activity and the interfaces with the construction schedule.

Further refinement of the commissioning schedule will take place once more detailed information on the construction schedule particularly for the Power Plant and the Capture and Compression Plant is available from both/all the selected onshore contractors.

4. Key Schedule Assumptions

4.1. End to End

The deterministic/ target schedule is based on a start date of the 1st July 2016 which is driven by the DECC/EC review and approval activities and subsequent contract award. This date assumes a six month review and approval period of the bid package submitted in December 2015 and is broadly in line with advice given by DECC. If this date is later than 1st July 2016, then the entire schedule will move on a day for day basis.

To accelerate the schedule and mitigate risk it has been decided to pre-invest in certain areas primarily to allow the onshore EPC contractor to gain access to site as early as possible but also to ensure that engineering, to allow placement of critical long lead items (see section 6 below), is executed as early as possible.

The main areas of pre-investment are as follows:

- The design and procurement of the replacement Auxiliary boilers and associated scopes to allow earlier demolition of the existing Auxiliary boilers and the clearing of Area 1 (Absorber



Tower and Direct Contact Cooler). A Pre-Investment start date of 18th January 2016 has been assumed for this scope.

- Shell Onshore EPC Contractor Scope – Early process engineering and development of data sheets to allow for early procurement of long lead items. A Pre-Investment start date of 21st March 2016 has been assumed for this scope.

4.2. Power Plant

The Power Plant schedule is based on the execution schedule developed as part of FEED. The logic and activity durations have been reworked in conjunction with SSE execution / construction experts to develop a more realistic schedule reflective of the latest assessment of the scope.

The following assumptions have been made and these would be subject to modification once final agreements with selected contractors had been made:

- Pre-investment is required in early 2016 for the Auxiliary Boilers and associated scope.
- Early mobilisation of Demolition sub-contractor to undertake engineering to allow the demolition scope to commence on site as early as possible.
- Sufficient pre-qualification work will be done to allow each subcontract to be awarded within a two week period.
- The planned plant outages have been as identified in the schedule, see Table 4-1.
- The shutdown scope for the Gas Turbine (GT13) will take place in station outage 4.

Table 4-1: Power Station Outages

Outage	Start Date	Finish Date
2016 Station Outage 1	29-Sep-16	06-Oct-16
2017 Station Outage 2	14-May-17	27-Jun-17
2017 Station Outage 3	26-Sep-17	03-Oct-17
2018 Station Outage 4	30-Sep-18	07-Oct-18
2019 Station Outage 5	26-Apr-19	09-Jun-19

4.3. Capture and Compression Plant

The Capture and Compression Plant schedule is developed as part of the FEED. The scope and logic have been revised to incorporate amendments identified in the latest tender submissions and updated to reflect the latest understanding of the project scope.

The following key assumptions have been made:

- Initial site handover from SSE to execute enabling works is 8th August 2016.
- No significant site work until completion of the modifications to the A90 road.
- Full access to site (all areas) for the Onshore EPC contractor is 17th May 2017.
- Minimum disruption to work site due to the HDD scope.
- Cooling Water Return line executed by the Onshore EPC contractor (previously SSE scope) leading to less site disruption.



- Manning levels will align with the information provided by the tenderers which indicates a peak manning level of circa. 600 men with an average of circa. 450.
- Work, where required, can be executed concurrently in the various main areas of the site i.e. Areas 6 & 13, Areas 1, 2, 3 & 5, etc. (see Table 3-1).
- The bulk of the construction work will be in 2018 and the main completion milestones including Mechanical Completion are in 2019.

4.4. Offshore Pipeline System

The schedule is based on the schedule submitted by the selected contractor during the tendering phase. The contractors schedule has been summarised at a level that retains the logic and durations of the detailed schedule supplied. The key assumptions are as follows:

- Contract will be awarded post DECC contract award and design/procurement work will commence immediately.
- The initial Landfall work based on HDD in 2017 will be successful and the option for open cut pipeline near shore pipeline installation will not be required.
- No additional allowances have been made above that normally allowed for weather disruption.
- Company will free issue line pipe and this will be supplied within the required timeframe to support the schedule.
- All the required vessels will be available when required to meet the 2018 pipe lay and subsea schedule.

4.5. Storage Facility

4.5.1. Goldeneye Topsides Modifications

The schedule is based on the schedule submitted by the selected contractor during the tendering phase. The contractors schedule has been summarised at a level that retains the logic and durations of the detailed schedule supplied. The key assumptions are as follows:

- Contract will be awarded post DECC contract award and design/survey/procurement work will commence immediately.
- Offshore work will be executed during two campaign windows. The Destruct campaign commencing on the 1st May 2017 and the Construction Campaign commencing on the 1st May 2018.
- Personnel on board (POB) the Goldeneye Platform is limited to an all up total of 24 with 18 allocated to the Goldeneye Topsides Modifications EPC contractor.
- A Walk to Work vessel is available to support the 2017 and 2018 campaigns.
- No abnormal weather disruption is included for above the normal 15% waiting on weather time.
- There will be minimum disruption due to the requirement to execute non-project, asset related scope.



- Long lead items (stainless steel valves / pipework) will be available in time for the 2018 construction campaign.

4.5.2. Wells

The wells scope shown in the schedule is based on summarised information from the most likely durations which underpin the detailed Wells estimate and schedule model. Further detail will be available upon award of the main rig tender in 2016.

The main assumptions identified to date are as follows:

- The development and supply of low temperature compatible equipment (SSSV's, Wellheads, Trees) can be done within a timeframe that supports the offshore work over campaign.
- A suitable drilling rig will be available. Early engagement with the market will be undertaken in 2016 to ensure that a suitable rig is available.
- The 2018 Goldeneye Modifications construction campaign will be sufficiently complete to allow the rig to skid in late September /early October.
- Rig will be able to be skidded (3 day weather window) in late September /early October.
- No excessive disruption to well work over campaign due to working over the winter period.

4.5.3. Subsurface

The subsurface and monitoring, measurement and verification scope is included in the schedule.

The main assumptions identified to date are as follows:

- Development of the required technologies will be able to be completed within the required timeframe to support sufficient offshore monitoring before first injection.
- Suitable weather windows are available during a time where there are no other vessel / drilling activities to allow the seismic surveys to be carried out.

4.6. Commissioning

The commissioning activities associated with each Chain Link are identified in the schedule under each Chain Link node. General commissioning activities primarily associated with the overall commissioning of the combined Chain Links are covered in a specific Commissioning node.

A detailed planning exercise was undertaken to define the commissioning activities and the logic links between those activities. This logic has been incorporated into the schedule.

4.7. Long Lead Items

The critical long lead items currently identified on the project are listed in the table below. A more detailed table of all procurement items is attached in Appendix 3.

The majority of the procurement durations under these sections are based on enquiry quotes received as part of the development of the execution estimate and schedule carried out.



Table 4-2: Critical / key long lead items

CRITICAL/ KEY LONG LEAD ITEMS			
Item	Dur.	Start	Finish
Power Plant			
Award, Manufacture & Deliver - Steam Turbine Generator	592d	30-Aug-16	02-Jan-19
Award, Manufacture & Deliver - Cooling Water Booster Pumps (HP)	274d	25-Oct-16	20-Nov-17
Award, Manufacture & Deliver - Shell & Tube Heat Exchangers	259d	18-Oct-16	23-Oct-17
Award, Manufacture & Deliver - Instrument Air Compressor & Air Dryer	334d	08-Nov-16	07-Mar-18
Award, Manufacture & Deliver - In-Line Instruments	261d	08-Feb-17	07-Feb-18
Capture and Compression Plant			
Award, Manufacture & Deliver - API 610 Pumps	387d	25-Jul-16	02-Feb-18
Award, Manufacture & Deliver - Booster Fans	339d	08-Aug-16	01-Dec-17
Award, Manufacture & Deliver - CO ₂ Compressor Package	410d	16-Aug-16	29-Mar-18
Award, Manufacture & Deliver - Column Internals (Packing & Trays) (C2001/2 & C2201/2/3)	452d	01-Aug-16	11-May-18
Award, Engineering, Manufacture & Deliver - Flue Gas Ducting (Initial Delivery)	358d	18-Oct-16	20-Mar-18
Award, Design, Procure, Manufacture & Deliver - Waste Water Treatment (to Initial Delivery)	300d	22-Aug-16	23-Oct-17
Subsea and Pipelines			
Award, Manufacture and Deliver - SSIV Package	506d	01-Sep-16	19-Jan-18
Wells			
Award, Manufacture and Deliver – SSSV	808d	05-Jul-16	20-Sep-18
Subsurface & MMV			
Subsurface & MMV - Engineering / Design / Manufacture Subsurface CO ₂ Monitoring Equip.	400d	04-Jul-16	12-Jan-18

5. Schedule Development Criteria

5.1. General

The detailed integrated execution schedule has been developed in line with Shell internal procedures and processes. The detail within the schedule is based on the best available information and where possible utilised the schedules provided by the selected tenderer for the execution of the scope.

Standard planning practice has been followed in the development of the schedule in Primavera P6 with the minimum use of constraints and the maximum use of logic to drive the schedule. Durations for the activities have been obtained from the contractors schedule and reviewed for validity using the experience of internal and external resources.

Where detailed contractor schedules were available these have been summarised up in a manner that retains the logic drivers and schedule integrity as developed by the contractor. The number of activities have been minimised as far as possible to provide a clearer overview of the individual and overall project scopes.

5.2. Calendars

The number of calendars utilised in the development of the schedule has been kept to a minimum.

The following project specific calendars have been allocated to the activities and milestones in the schedule:



- **Onshore 5d x 8h with holidays** - Onshore engineering and construction based activities and milestones.
- **General 7d x 24h no holidays** - Activities and any milestones linked to activities that require 24 hour working.
- **Onshore 5d x 8h no holidays** - onshore activities and associated milestones that will not be impacted by holidays.
- **Goldeneye Offshore (No Accommodation Vessel)** - Offshore work related to the Goldeneye platform when there is no Walk to Work vessel available. E.g. Walk to Work vessel landing platforms in preparation for arrival of Walk to Work Vessel.
- **Goldeneye Offshore (W2W-Days/Nights)** - Offshore work on the Goldeneye platform supported by the Walk to Work vessel.

5.3. Float

The critical / near critical paths are defined under section 6 and relate to the onshore scopes of work. The other (offshore) areas of the schedule have a significant amount of float as most are due to be completed in 2018 whereas the onshore scope will be complete in 2019.

5.4. Activity Codes

There are no codes defined or used at the moment in the schedule at its current state of development. It is anticipated that there will be a certain amount of coding required to support schedule analysis, schedule grouping and interfacing etc. but the intent is to keep coding to a minimum.

5.5. Resources

The schedule has been resource loaded at the activity level for those sections where the data is available. Further development will continue in this area as better defined resourcing information becomes available.

The Goldeneye Topside Modifications schedule has been resource loaded based on the summarised data supplied by the selected contractor during the tendering process. The resources for the destruct phase and the construct phase currently sit within the allowable POB constraints of the Goldeneye platform. The POB is constrained by the lifeboat capacity which is limited to 24.

Although not of primary importance the Landfall, Pipeline and Subsea engineering and project management sections have been resource loaded based on the summarised data supplied by the selected contractor.

A review of the supplied data from the various tenders submitted as part of the selection process suggests that peak workforce capacity for the Capture and Compression Plant will be circa 600 with an average workforce of circa 450.

5.6. Interfaces

The interfaces required to support the project schedule have been identified and are logic linked to the appropriate activities in the schedule to ensure that the impact of each interface is properly identified.



6. Key Milestones / Dates

The table below details the major key interface and milestone dates for the project:

Table 6-1: Key Interfaces / Milestones

KEY INTERFACES		
Interface	Start	Finish
Pre-Investment Agreement (SSE Aux. Boiler Scope)	18-Jan-16	
Pre-Investment Agreement (Capture Plant / Wells Early Engineering)	21-Mar-16	
Contract Award – DECC	01-Jul-16	
Site Handover 1 - (CCS / Compression (SSE to Shell) - Enabling Works	08-Aug-16	
Site Handover 2 – Demolition Area (SSE to Shell)	17-May-17	
Power Plant HAZOP	10-Jan-17	07-Feb-17
Power Plant MC1		03-Apr-19
Carbon Capture and Compression HAZOP	14-Feb-17	21-Mar-17
Carbon Capture Plant – MC1		15-Apr-19
Goldeneye Topsides Modifications - Walk to Work Vessel on Site (Commence Construction)		01-May-18
Goldeneye Topsides Modifications – Construction Complete		01-Oct-18
Well Work over – Rig Mobilisation		10-Oct-18
Well Work over – Complete		27-Mar-19
Commence Subsea Pipeline and associated scope installation	01-May-18	
Complete Subsea Pipeline and associated scope installation		15-Dec-18
Subsea Pipeline and Equipment Installation Complete (including Pre-Comm)		15-Dec-18
Install & Pre-Comm - Pre-Commissioning of Pipeline System (PLR onshore to GE PLR)	23-Nov-18	15-Dec-18
Capture Plant RFSU		07-Nov-19
1st Injection		04-Dec-19
Declare Clean Energy		05-Mar-20

Note that all dates shown are deterministic dates – see section 8 for output from the Schedule Risk Analysis.

The deterministic schedule is a network of tasks (representing the whole project) connected to each other with dependencies that describe the work to be performed, that work's duration and the planned start and finished date of the work and the project. Each task has a single planned duration and a predecessor and successor - i.e. the duration of each task is not variable. The longest path through the network is the critical path.

The possibility of variance to any task duration due to uncertain performance or of a risk or opportunity occurring is not incorporated in the deterministic schedule.

7. Benchmarking

There have been a number of benchmarking exercises carried out during the development of the execution schedule. Most recently, an overall external benchmarking exercise has been carried out by Independent Project Analysis (IPA) in September/October 2015 (just prior to the Shell Quantitative Schedule Risk Analysis). The IPA benchmarking found that the Execution Duration (deterministic) schedule was slightly aggressive (quicker than industry average) and the Start-Up Duration longer than industry average.



Comparisons have been undertaken against each of the information provided by the various contractors during the various tendering phases to ensure that there is a degree of commonality in the durations used primarily for the procurement and installation activities.

The schedule has been reviewed by the relevant experienced project personnel and where anomalies with durations have been identified then action has been taken to ensure that the most realistic duration has been incorporated into the schedule.

8. Critical and Sub Critical Paths

The main critical path for the project follows the sequence detailed below and starts following approval to commence with the Pre-Investment scope:

- Initial engineering to allow placement of the order for the Auxiliary Boilers (Power Plant).
- Initial engineering to allow placement of a subcontract for the demolition scope (Power Plant).
- Demolition of the Southern Blower / Dust Collection and Ducts (Power Plant).
- Installation Foundations for the Auxiliary Boilers (Power Plant).
- Installation of Auxiliary Boilers and associated pipework (Power Plant).
- Pipework removal from within the old Boiler House (Power Plant).
- Demolition of the Auxiliary Boiler House (Power Plant).
- Site handover to the Capture and Compression Plant EPC contractor (Power Plant).
- Engineering to support Site Enabling scopes and procurement of long lead items (Capture and Compression).
- Procurement of critical long lead items, API 610 Pumps, CO₂ Compressor, Major Steel Work and Bulk Pipework (Capture and Compression).
- Site preparation work for Areas 1, 3 & 5 (Capture and Compression).
- Area 1 and Area 2 construction scope (Capture and Compression).
- CO₂ Compression (Area 6) construction scope (Capture and Compression).
- Area 13, Waste Water Treatment construction scope (Capture and Compression).
- Commissioning – Various areas through to RFSU, Start-up and 1st injection.

In addition to the main critical path there are a number of sub critical paths that have very limited float:

Sub-Critical Path 1

- DECC Contract Award.
- Engineering, Data Sheet and requisition development for the new Steam Turbine (Power Plant).
- Procurement, manufacture and delivery of the Steam Turbine (Power Plant).
- Install and hook-up of the Steam Turbine (Power Plant).
- Pre-Commissioning and commissioning of the Steam Turbine and associated systems (Power Plant).
- Commissioning – Various areas through to RFSU, Start-up and 1st injection.

Sub-Critical Path 2

- Approval to commence with Pre-Investment engineering (Capture and Compression).



- Initial engineering development and Scope of Work / requisition preparation for the Waste Water Treatment Plant (Capture and Compression).
- Award, design, procure, manufacture and initial deliver for the Waste Water Treatment plant. (Capture and Compression).
- Installation and Pre-Commissioning / Commissioning of the Waste Water Treatment plant. (Capture and Compression).
- Integrated commissioning – Various areas through to RFSU, Start-up and 1st injection.

Sub-Critical Path 3

- Approval to commence with Pre-Investment engineering (Capture and Compression).
- Initial engineering development, Data Sheet preparation and requisition for CO₂ Compressor Package (Capture and Compression).
- Contract award, manufacture and delivery of the CO₂ Compressor Package (Capture and Compression).
- Installation of the CO₂ Compressor Package, associated equipment and utilities (Capture and Compression).
- Integrated commissioning – Various areas through to RFSU, Start-up and 1st injection.

The critical and sub-critical paths detailed above represent the main areas of criticality within the schedule although it should be noted that there are a significant number of other activities that have a limited amount of float and will need to be closely monitored throughout the project development to ensure that they do not impact on the overall schedule.

9. (Quantitative) Schedule Risk Analysis

To support the schedule risk analysis a logic linked summary schedule of the deterministic level 3 was developed and imported into the risk analysis software (Pertmaster). A session was held with the project team to define three point estimates for each activity i.e. the minimum, most likely and maximum durations.

The risks from the project risk register that were identified as having a schedule impact were added in and linked to the impacted activities in the risk schedule. The risks were then quantified in terms of their potential impact on the schedule.

The risked schedule was then analysed to assess the impact of the three point estimates and the project risks to give P10, P50 and P90 dates for the key activities in the schedule.

The table below lists the key activities and their associated P10, P50 and P90 results.

Table 9-1: Key Interfaces / Milestones

Activity	Description	Deterministic	P10	P50	P90
PM220	Capture Plant RFSU	11-Nov-19	22-Jan-20	12-Jun-20	06-Dec-20
PM180	1 st Injection	05-Dec-19	26-Feb-20	23-Jul-20	02-Feb-21
PM200	Declare Clean Energy	05-Mar-20	25-Jun-20	03-Dec-20	02-Jul-21



The project will therefore drive to work to and achieve the deterministic schedule (as represented by the attached overall Level 3 schedule. i.e. Declare Clean Energy on 5th March 2020). The Schedule Risk Analysis indicates that a date of December 2020 is the more likely outcome.

10. Planning Development – The Next Steps

There are some areas that need in the schedule that require further development.

The main areas are the Capture and Compression Plant and the Power Plant chain links where the current detail in the schedule needs to be refined reflect the selected tenderers schedules. This will include summarising the schedules supplied by the selected contactors and adding in the resources against the summary activities.

The information from the onshore tenderers schedules will also feed into an update to the interface and milestone logic for the Key Knowledge Deliverables and the Design Assurance Documents.

Similarly, the deliverables/activities for some of the Owners team scope may need to be adjusted in line with onshore tenderers schedules.



11. Glossary of Terms

Term	Definition
BOO	Build-Own-Operate
CAR	Controlled Activities Regulations
CCCC	Carbon Capture, Compression and Conditioning
CCGT	Combined Cycle Gas Turbine
CCS	Carbon Capture and Storage
CCTV	Closed Circuit Television
CDM	Construction Design and Management
CfD	Contract For Difference
CO ₂	Carbon Dioxide
COMAH	Control of Major Accident Hazards
CTR	Cost, Time and Resourcing
DCC	Direct Contact Cooler
DCS	Distributed Control System
DECC	Department of Energy and Climate Change
EC	Executive Committee
EPC	Engineering, Procurement and Construction
EPS	European Protected Species
ESD	Emergency Shutdown
F&G	Fire and Gas
FAT	Factory Acceptance Test
FEED	Front End Engineering and Design
FID	Final Investment Decision
GE-PLR	Golden Eye - Pig Launcher & Receiver
GT13	Gas Turbine 13
HAZOP	Hazardous Operations
HDD	Horizontal Directional Drilling
HP	High Pressure
HSE	Health and Safety Executive
HSSE	Health, Safety, Security and Environment
HV	High Voltage
ICSS	Integrated Control and Safeguarding System
IPA	Independent Project Analysis
ISBU	Invitation to Submit Bid Update
IX	Ion Exchange
KKD	Key Knowledge Deliverable
KPI	Key Performance Indicator
LS	Lump Sum
MEG	Mono-Ethylene Glycol
MLWM	Mean Low Water Mark
MMV	Monitoring, Measurement and Verification
NUI	Normally Unmanned Installation
PAGA	Public Address and General Alarm
PCAP	Project Controls Assurance Plan



Term	Definition
PCCS	Peterhead Carbon Capture and Storage Project
PEP	Project Execution Plan
PES	Project Execution Strategy
PFEER	Prevention of Fire and Explosion, and Emergency Response
PLR	Pig Launcher & Receiver
PMO	Project Management Organisation
POB	Personnel on Board
PON	Petroleum Operations Notice
PPC	Pollution, Prevention and Control
PWA	Pipeline Works Authorisation
RFSU	Ready for Start Up
RoW	Right of Way
SCR	Selective Catalytic Reduction
SMP	Structural, Mechanical and Piping
SSE	Scottish & Southern Energy
SSIV	Subsurface Isolation Valve
SSSV	Subsurface Safety Valve
STGO	Special Types General Order
W2W	Walk to Work
WFS	Work Execution Flow Scheme
WONS	Well Operations Notification System

12. Glossary of Unit Conversions

Table 12-1: Unit Conversion Table

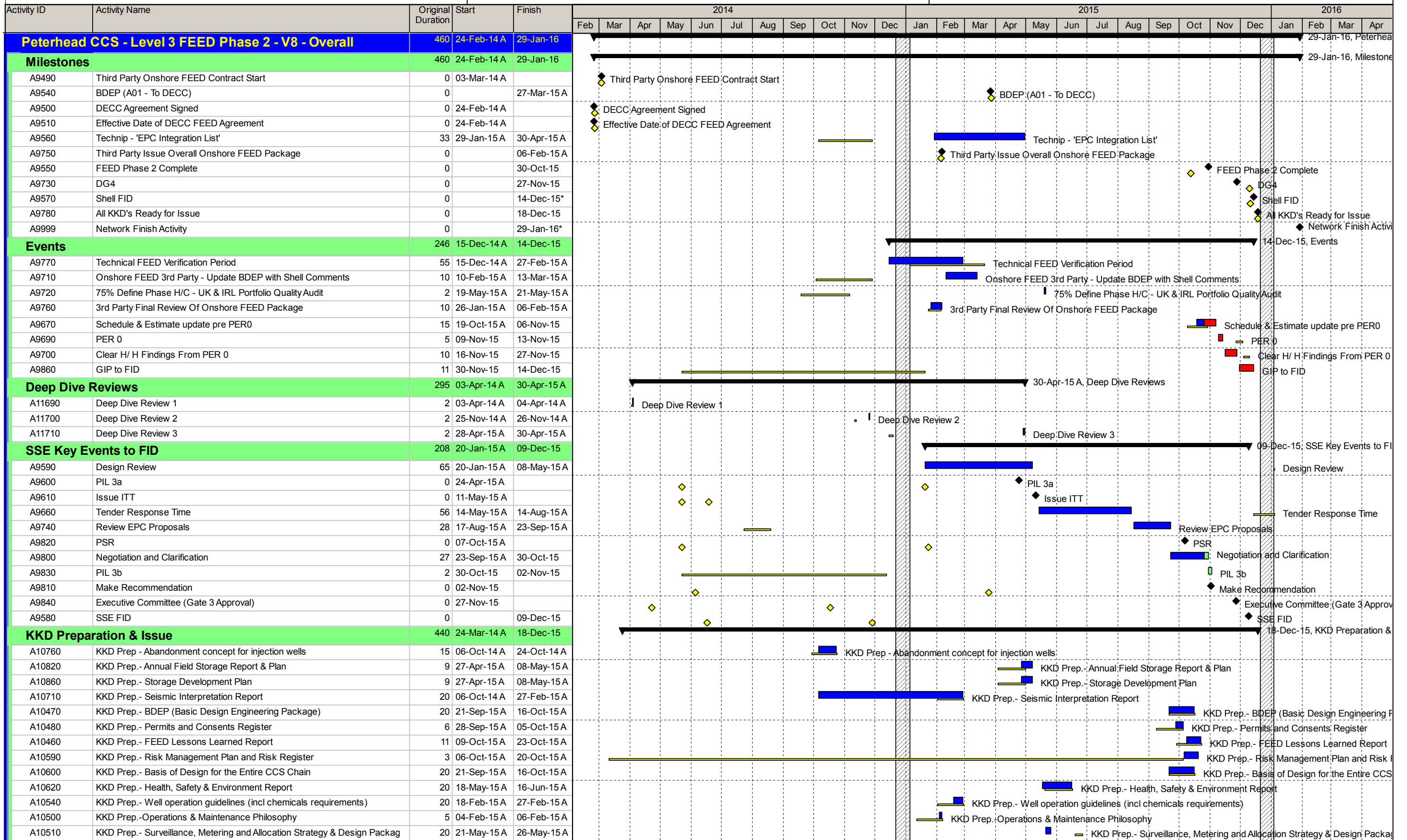
Function	Unit - Imperial to Metric conversion Factor
Length	1 Inch = 25.4 millimetres



APPENDIX 1. FEED Level 3 schedule

As-Built

FEED Phase - Level 3 Schedule



█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remaining ...
 Primary Baseline
 Remaining Work
 ◆ Baseline Milestone

As-Built

FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
FEED Controls																																
A10880	FEED Change Register	5	26-Nov-15	02-Dec-15																												
A10900	Monthly reporting - one pager & Project Management Report	5	04-Dec-15	10-Dec-15																												
Estimating																																
PC4850	CAPEX Cost Estimate - Type 3	5	03-Nov-15	09-Nov-15*																												
Project Engineering																																
A11010	Construction Management Plan	5	05-Dec-14 A	17-Dec-14 A																												
A10940	Permits and Consents Plan	5	21-Sep-15 A	25-Sep-15 A																												
A10950	BDEP (Basic Design Engineering Package)	5	23-Mar-15 A	27-Mar-15 A																												
A10980	Interface Management Plan	5	03-Oct-14 A	09-Oct-14 A																												
A10990	Constructability Report	5	31-Oct-14 A	06-Nov-14 A																												
A10960	Technology Maturation Plan	4	30-Jan-15 A	30-Jan-15 A																												
PC4360	Off Plot Civil Logistics/Infrastructure Requirements	5	16-Dec-14 A	19-Dec-14 A																												
PC4350	Site Master Plan	5	25-Aug-14 A	29-Aug-14 A																												
A11770	9.108 Full Chain Dynamic Model Simulation Report	5	06-Feb-15 A	20-Feb-15 A																												
A12580	Risk Management Plan & Risk Register	5	21-Sep-15 A	25-Sep-15 A																												
A12680	GHG & Energy Management Plan	5	16-Jan-15 A	21-Jan-15 A																												
A12690	Rotating Equipment Type Selection Report	4	16-Dec-14 A	18-Dec-14 A																												
A12700	Rotating Equipment Data Sheets & Specifications	5	22-Dec-14 A	09-Jan-15 A																												
A12710	Electrical Load List - Incl. Efficiency Column	2	26-Jan-15 A	27-Jan-15 A																												
A12720	Electrical Equipment Data Sheets & Specifications	2	06-Jan-15 A	07-Jan-15 A																												
A11760	9.126 Minimum Functional Specification	5	06-Oct-15 A	12-Oct-15 A																												
Planning																																
A11030	Schedule Basis Report	5	03-Nov-15	09-Nov-15*																												
A11020	Project Level 3 Schedule	5	03-Nov-15	09-Nov-15*																												
Quality Management																																
A11050	Project Quality Plan	5	04-Dec-14 A	09-Dec-14 A																												
Project Management																																
PC4450	Stakeholder Engagement Plan	5	26-Oct-15	30-Oct-15																												
Project Services																																
A11080	Project Controls Plan	5	29-Jul-15 A	04-Aug-15 A																												
C & P																																
PC591A10	3.10 Sub-Contracts & Material Contracts for the FEED Phase	5	06-Jan-15 A	12-Jan-15 A																												
PC4440	3.02 Supply Chain Development	5	25-Aug-14 A	01-Sep-14 A																												
PC4430	3.03 Three Quotes for EPC Contracts or Alternative Evidence of Adoption o	5	12-Oct-15 A	15-Oct-15 A																												
PC4400	3.04 Key Information on Major Costs Components Uncertainty	5	06-Oct-15 A	12-Oct-15 A																												
PC4410	3.05 Key Info on Costs Uncertainty Mechanisms in Sub-contracts or Supply	5	06-Oct-15 A	12-Oct-15 A																												
PC4390	3.09 List of Project Phase Key Components Together with Likely Costs & Pr	5	16-Feb-15 A	23-Feb-15 A																												
PC4420	ITT for Major Execute Contracts, Long Lead Items and Early works	5	28-May-15 A	28-May-15 A																												
PC621A20	3.07 Project Phase Supply Chain Structure	5	09-Oct-15 A	15-Oct-15 A																												
PC4540	3.08 Allocation of Risk Between Developer & Each Counterparty to Tier 1/2	5	09-Oct-15 A	15-Oct-15 A																												
A11270	CP Execution Plan (Incl. Project Category Plan)	5	27-Nov-14 A	03-Dec-14 A																												
A11800	CP Strategy Development (incl Project Category Strategy) & CPES	5	25-Aug-15 A	31-Aug-15 A																												
A1610	CP Tactics Development and Tender Plan	5	18-Aug-15 A	24-Aug-15 A																												
Ops & Maintenance																																
A11830	1.09 An Indicative Decommissioning Plan	5	19-Jan-15 A	26-Jan-15 A																												
A11110	Operations Organisation Design and Recruitment/ Mobilisation plan	5	17-Jul-15 A	24-Jul-15 A																												
A11090	Operations & Maintenance Philosophy	5	05-Jan-15 A	09-Jan-15 A																												
A11120	Chemicals Requirements Report	5	17-Dec-14 A	18-Dec-14 A																												
A11140	Reliability, Availability and Maintainability Report addressing RRM, sparing ar	5	20-Jan-15 A	27-Jan-15 A																												
A11160	Capital Insurance Spares Report	5	22-Oct-14 A	28-Oct-14 A																												
A11170	Surveillance, Metering & Allocation Design Package	5	18-May-15 A	26-May-15 A																												
A11150	Spare Parts Strategy	1	29-Dec-14 A	05-Jan-15 A																												
A11180	Commissioning and Start-Up (CSU) Plan	5	26-Dec-14 A	06-Jan-15 A																												
A11190	Logistics and Infrastructure Project Execution Plan	5	30-Dec-14 A	09-Jan-15 A																												

█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remaining ...
▬ Primary Baseline
 █ Remaining Work
 ◆ Baseline Milestone

As-Built

FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Offshore - Wells					23-Jan-15 A, Offshore - Wells																											
A6390	Detailed Completions and Well Intervention Design Endorsement Report	5	05-Dec-14 A	23-Jan-15 A	Detailed Completions and Well Intervention Design Endorsement Report																											
A11560	Detailed Well Design Endorsement Report	5	14-Jan-15 A	23-Jan-15 A	Detailed Well Design Endorsement Report																											
PC4680	CWI Value Challenge - Technical Limit Design & Execution	5	29-Jul-14 A	04-Aug-14 A	CWI Value Challenge - Technical Limit Design & Execution																											
A11590	Well & Reservoir Management Plan [Final]	5	23-Dec-14 A	08-Jan-15 A	Well & Reservoir Management Plan [Final]																											
Offshore - Topsides					15-Apr-15 A, Offshore - Topsides																											
A11840	238 - Basic Design & Engineering Package - Offshore	5	23-Mar-15 A	27-Mar-15 A	238 - Basic Design & Engineering Package - Offshore																											
A6970	1386 - Health Management Plan	2	29-May-14 A	30-May-14 A	1386 - Health Management Plan																											
A6980	1618 - HSSE & SP Premises	5	23-Jun-14 A	27-Jun-14 A	1618 - HSSE & SP Premises																											
A11870	586 - Project HSSE & SP Plan	5	11-Aug-14 A	15-Aug-14 A	586 - Project HSSE & SP Plan																											
PA1450	383 - Design ALARP Demonstration Report (Design HSSE & SP Case) - Offshore	5	09-Apr-15 A	15-Apr-15 A	383 - Design ALARP Demonstration Report (Design HSSE & SP Case) - Offshore																											
PC4740	382 - HSSE & SP Hazards and Effects Register	5	19-Dec-14 A	09-Jan-15 A	382 - HSSE & SP Hazards and Effects Register																											
A11910	245 - Hazardous Area Schedule & Hazardous Drawings - Offshore	5	22-Dec-14 A	24-Dec-14 A	245 - Hazardous Area Schedule & Hazardous Drawings - Offshore																											
A11920	1413 - Main HAZOP Report - Offshore	5	30-Oct-14 A	05-Nov-14 A	1413 - Main HAZOP Report - Offshore																											
A11660	249 - Relief Vent Flare Study Report - Offshore	5	22-Dec-14 A	24-Dec-14 A	249 - Relief Vent Flare Study Report - Offshore																											
A4750	1497 - Equipment Listing - Offshore	5	02-Dec-14 A	08-Dec-14 A	1497 - Equipment Listing - Offshore																											
A4980	1391 - Utility Engineering Flow Schemes A01 - Offshore	5	25-Nov-14 A	28-Nov-14 A	1391 - Utility Engineering Flow Schemes A01 - Offshore																											
A4850	242 - Process Flow Schemes - Offshore	5	24-Nov-14 A	28-Nov-14 A	242 - Process Flow Schemes - Offshore																											
A4970	247 - Tie-in List & Schedule - Offshore	5	22-Dec-14 A	24-Dec-14 A	247 - Tie-in List & Schedule - Offshore																											
A4990	267 - Plot Plans/ Mechanical General Arrangement Drawings (on & offshore)	5	22-Dec-14 A	24-Dec-14 A	267 - Plot Plans/ Mechanical General Arrangement Drawings (on & offshore)																											
A7560	667 - Process Control Design Package - Offshore	5	22-Dec-14 A	24-Dec-14 A	667 - Process Control Design Package - Offshore																											
PA1470	331 - Constructability Report - Updated - Offshore	5	31-Oct-14 A	06-Nov-14 A	331 - Constructability Report - Updated - Offshore																											
A12590	1390 - Utility Flow Schemes - Offshore	5	24-Nov-14 A	28-Nov-14 A	1390 - Utility Flow Schemes - Offshore																											
A12600	243 - Process Engineering Flow Schemes A01 - Offshore	5	25-Nov-14 A	28-Nov-14 A	243 - Process Engineering Flow Schemes A01 - Offshore																											
A12610	588 - Safety Risk Studies Report - Offshore	5	29-Dec-14 A	29-Dec-14 A	588 - Safety Risk Studies Report - Offshore																											
A12620	682 - Surveillance, Metering & Allocation Design Package - Offshore	5	22-Dec-14 A	24-Dec-14 A	682 - Surveillance, Metering & Allocation Design Package - Offshore																											
A12630	311 - Offshore Structures Equipment Data Sheets & Specifications	5	12-Jan-15 A	19-Jan-15 A	311 - Offshore Structures Equipment Data Sheets & Specifications																											
A12640	384 - Safety Critical Element & Performance Standard - Offshore	5	16-Mar-15 A	20-Mar-15 A	384 - Safety Critical Element & Performance Standard - Offshore																											
A12670	278 - Electrical Load List - Offshore	2	19-Jan-15 A	19-Jan-15 A	278 - Electrical Load List - Offshore																											
Project Management					18-Dec-15, Project Management																											
Project Management					18-Dec-15, Project Management																											
Activities					04-Dec-15, Activities																											
A6670	Project Management - General Support	450	03-Mar-14 A	04-Dec-15	Project Management - General Support																											
Bidders Own Deliverables					18-Dec-15, Bidders Own Deliverables																											
PC648	PCAP (Define Phase)	415	03-Mar-14 A	26-Sep-14 A	PCAP (Define Phase)																											
PC598	Updated TQ Plan	130	24-Feb-14 A	28-Mar-14 A	Updated TQ Plan																											
PC638	Front End Loading External / Internal Benchmarking Report	133	23-Mar-15 A	24-Jul-15 A	Front End Loading External / Internal Benchmarking Report																											
PC640	Project Report(s)	411	03-Mar-14 A	18-Dec-15	Project Report(s)																											
DECC Deliverables					20-Oct-15 A, DECC Deliverables																											
A1150	FEED Summary Report for Full CCS Chain	97	01-Jun-15 A	13-Oct-15 A	FEED Summary Report for Full CCS Chain																											
PC538	Stakeholder Engagement Plan	265	18-Apr-14 A	20-Oct-15 A	Stakeholder Engagement Plan																											
Project Engineering					18-Dec-15, Project Engineering																											
Activities					04-Dec-15, Activities																											
A8400	General Support - Project Engineering	450	03-Mar-14 A	04-Dec-15	General Support - Project Engineering																											
Bidders Own Deliverables					18-Dec-15, Bidders Own Deliverables																											
A1530	Project ownership, controls and authorisation framework	175	31-Mar-14 A	28-Aug-15 A	Project ownership, controls and authorisation framework																											
A1480	Design Class, Modularisation and Standardisation Proposal	40	31-Mar-14 A	23-Jan-15 A	Design Class, Modularisation and Standardisation Proposal																											
A1500	Development Release Technical Notes (New Technology Items)	40	03-Mar-14 A	28-Nov-14 A	Development Release Technical Notes (New Technology Items)																											
A1510	Hardware Interface Identification Report	20	30-Jun-14 A	15-Apr-15 A	Hardware Interface Identification Report																											
A1290	Monthly Project Management Report	40	03-Mar-14 A	26-Sep-14 A	Monthly Project Management Report																											
A1330	Diving Requirements Evaluation Report	40	01-Dec-14 A	20-Feb-15 A	Diving Requirements Evaluation Report																											
A1350	Budget Definition	195	03-Mar-14 A	28-Mar-14 A	Budget Definition																											
A1420	Document Distribution Matrix	40	03-Mar-14 A	15-Jul-14 A	Document Distribution Matrix																											
A1450	Human Factors (HFE) Engineering Report	195	03-Mar-14 A	12-Dec-14 A	Human Factors (HFE) Engineering Report																											

█ Remaining Level of Effort
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 Remaining Work
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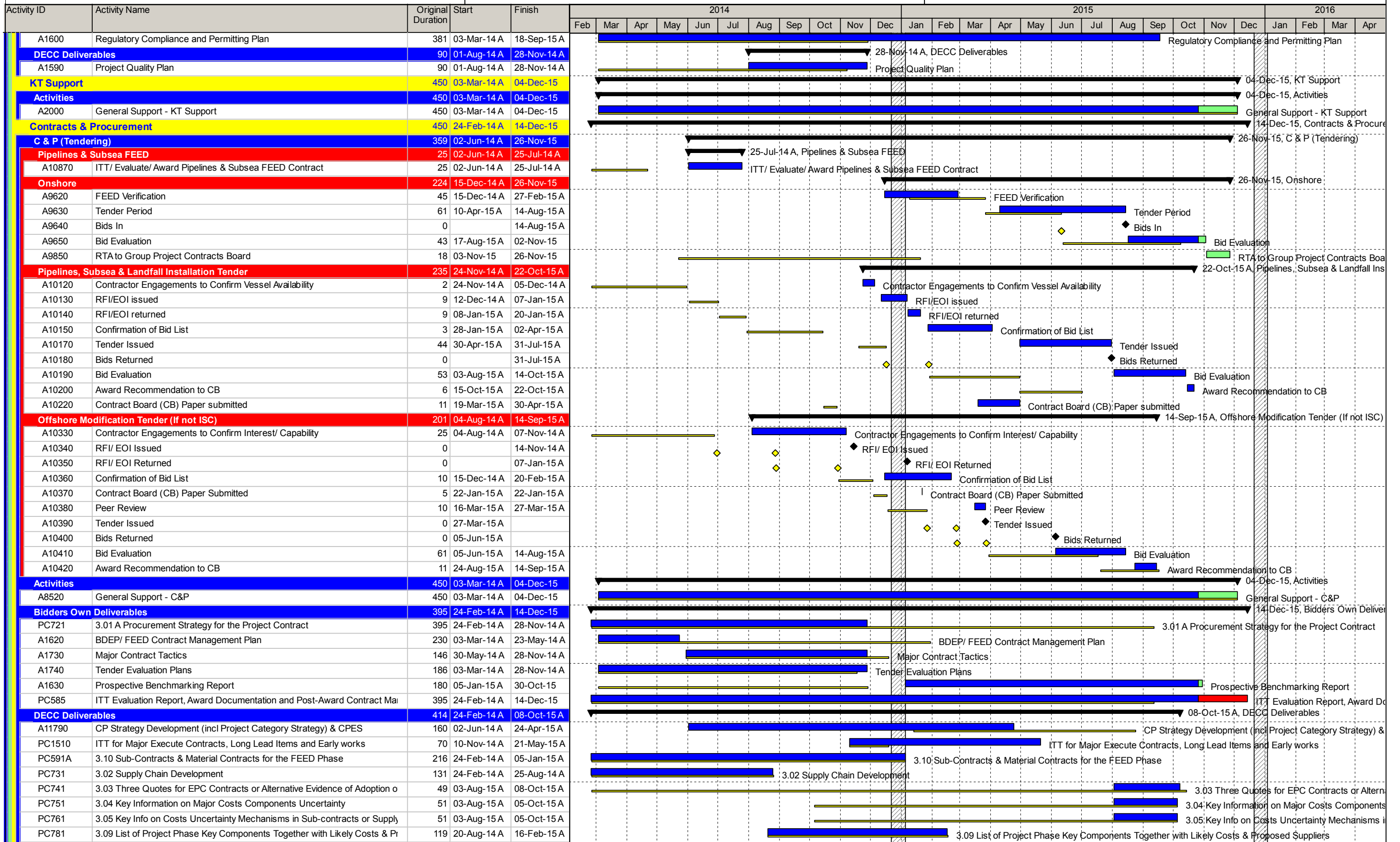
FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016					
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr			
DECC Deliverables					20-Nov-15, DECC Deliverables																													
A6640	Schedule Basis Report	426	03-Mar-14 A	02-Nov-15	Schedule Basis Report																													
A1000	Project Level 3 Schedule	426	03-Mar-14 A	02-Nov-15	Project Level 3 Schedule																													
A1010	Project Schedule Level 2	426	03-Mar-14 A	20-Nov-15	Project Schedule Level 2																													
IT / IM					04-Dec-15, IT / IM																													
Activities					04-Dec-15, Activities																													
A1180	General Support - IT/ IM (Brian & Natalie)	450	03-Mar-14 A	04-Dec-15	General Support - IT/ IM (Brian & Natalie)																													
Bidders Own Deliverables					05-Jun-15 A, Bidders Own Deliverables																													
PC500	IT Solution Architecture	20	03-Mar-14 A	05-Jun-15 A	IT Solution Architecture																													
PC501	IT Scope of Work	2	14-Jul-14 A	10-Apr-15 A	IT Scope of Work																													
PC502	IM Scope of Work and Information Specification	2	14-Jul-14 A	10-Apr-15 A	IM Scope of Work and Information Specification																													
A1190	IM Strategy Review & Update for DEFINE	65	03-Mar-14 A	14-Apr-14 A	IM Strategy Review & Update for DEFINE																													
A1200	IT Strategy Review & Update for DEFINE	65	03-Mar-14 A	21-Mar-14 A	IT Strategy Review & Update for DEFINE																													
A1210	IM Plan (including Knowledge Transfer) - DEFINE	65	03-Mar-14 A	06-Jun-14 A	IM Plan (including Knowledge Transfer) - DEFINE																													
A1220	IT Plan - detailed, DEFINE	65	03-Mar-14 A	21-Apr-14 A	IT Plan - detailed, DEFINE																													
A6590	ITT for Major Execute Contracts, Long Lead Items and Early works - IT scc	146	28-Apr-14 A	10-Apr-15 A	ITT for Major Execute Contracts, Long Lead Items and Early works - IT scope																													
A6600	ITT for Major Execute Contracts, Long Lead Items and Early works - IM scc	146	28-Apr-14 A	10-Apr-15 A	ITT for Major Execute Contracts, Long Lead Items and Early works - IM scope																													
A6610	Contributions to operations / spare part philopies and CMMS build spec	146	28-Apr-14 A	12-Dec-14 A	Contributions to operations / spare part philopies and CMMS build spec																													
A6620	Telecom Systems Design Package	146	28-Apr-14 A	24-Oct-14 A	Telecom Systems Design Package																													
A6630	Project to Asset (P2A) Transfer Plans	137	28-Apr-14 A	23-Jan-15 A	Project to Asset (P2A) Transfer Plans																													
Quality Management					04-Dec-15, Quality Management																													
Activities					04-Dec-15, Activities																													
A8500	General Support - Quality Management	450	03-Mar-14 A	04-Dec-15	General Support - Quality Management																													
Audit Programme/ Assurance Reviews					27-Nov-15, Audit Programme/ Assur																													
A12730	Audit Project Management Office (Mott McDonald)	1	26-Feb-15 A	26-Feb-15 A	Audit Project Management Office (Mott McDonald)																													
A12740	Internal Project Health Check Follow up	1	06-Mar-15 A	06-Mar-15 A	Internal Project Health Check Follow up																													
A12750	FEED Verification Contracts (Quality Plan Desk Top Review)	1	15-Jan-15 A	13-Feb-15 A	FEED Verification Contracts (Quality Plan Desk Top Review)																													
A12760	Define Phase 75% Health Check	1	19-May-15 A	21-May-15 A	Define Phase 75% Health Check																													
A12770	EPC Contractor Offshore Bid Review	1	19-Jun-15 A	23-Jun-15 A	EPC Contractor Offshore Bid Review																													
A12780	EPC Contractor Onshore Bid Review	1	27-Aug-15 A	28-Aug-15 A	EPC Contractor Onshore Bid Review																													
A12790	EPC Contractor Subsea Bid Review	1	24-Jun-15 A	24-Jun-15 A	EPC Contractor Subsea Bid Review																													
A12800	Document Control	4	25-Sep-15 A	09-Oct-15 A	Document Control																													
A12830	Project Controls VP Review (Finance)	1	18-Aug-15 A	18-Aug-15 A	Project Controls VP Review (Finance)																													
A12860	Operations Readiness Review	4	22-Sep-15 A	25-Sep-15 A	Operations Readiness Review																													
A12870	Project Controls Self Assessment (Finance)	1	28-May-15 A	28-May-15 A	Project Controls Self Assessment (Finance)																													
A12880	Quality Health Check Review	1	05-May-15 A	05-May-15 A	Quality Health Check Review																													
A12910	Invitation to Tender Review	1	23-Apr-15 A	23-Apr-15 A	Invitation to Tender Review																													
A8510	Project Quality Health Check (Subsea Scope)	1	26-Mar-15 A	26-Mar-15 A	Project Quality Health Check (Subsea Scope)																													
A12920	General Commercial Peer Review (Commercial) **Dates TBA (Apr 15)**	1	26-Oct-15	26-Oct-15	General Commercial Peer Review (Commer																													
A12930	Agreements Assurance Review (Commercial) **Dates TBA (Apr 15)**	1	26-Oct-15	26-Oct-15	Agreements Assurance Review (Commercia																													
A12950	Agreements Assurance Review (Capital) **Dates TBA (Apr 15)**	1	26-Oct-15	26-Oct-15	Agreements Assurance Review (Capital) **D																													
A12840	Construction HSSE Readiness Review	5	20-Oct-15 A	06-Nov-15	Construction HSSE Readiness Review																													
A12900	Benchmarking	5	21-Sep-15 A	27-Nov-15	Benchmarking																													
A12890	Information Management Review	5	28-Oct-15	03-Nov-15	Information Management Review																													
A12810	PER0	5	09-Nov-15	13-Nov-15	PER0																													
A12940	General Commercial Peer Review (Capital) - (VAR Phase 2)	5	09-Nov-15	13-Nov-15	General Commercial Peer Review (Cap																													
A12960	Economics Assurance Review (Commercial)	2	25-Nov-15	26-Nov-15	Economics Assurance Review (Com																													
Bidders Own Deliverables					23-Oct-15 A, Bidders Own Deliverables																													
PC524	OAP Updated, including PCAP, for Define Phase	185	28-Apr-14 A	26-Sep-14 A	OAP Updated, including PCAP, for Define Phase																													
A1570	Project Codes & Standards (Index)	22	01-Apr-14 A	27-Mar-15 A	Project Codes & Standards (Index)																													
A1540	Audit Reports	195	03-Mar-14 A	23-Oct-15 A	Audit Reports																													
A1550	Design Deviation Register	195	03-Mar-14 A	15-May-15 A	Design Deviation Register																													
A1560	Flawless Project Delivery Quality Plan	125	02-Jun-14 A	27-Feb-15 A	Flawless Project Delivery Quality Plan																													
A1580	Project Controls & Assurance Plan (PCAP)	195	03-Mar-14 A	26-Sep-14 A	Project Controls & Assurance Plan (PCAP)																													

█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remaining ...
 Primary Baseline
 Remaining Work
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FEED Phase - Level 3 Schedule



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 Primary Baseline
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FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
OP003		385	28-Apr-14 A	18-Dec-15																									18-Dec-15, OP003			
Activities		385	28-Apr-14 A	18-Dec-15																									18-Dec-15, Activities			
A8620	Commissioning and Start-Up activities for Shell deliverables	140	28-Apr-14 A	18-Dec-15																									Commissioning and Start-Up ac			
A8650	Flawless Project Delivery Activities	200	25-Jun-14 A	18-Dec-15																									Flawless Project Delivery Activi			
Bidders Own Deliverables		373	05-May-14 A	20-Feb-15 A																									20-Feb-15 A, Bidders Own Deliverables			
A5910	Flawless Project Delivery and Q Assurance Plan	43	05-May-14 A	20-Feb-15 A																									Flawless Project Delivery and Q Assurance Plan			
A5920	Project to Asset Transfer Plan	329	02-Jun-14 A	08-Sep-14 A																									Project to Asset Transfer Plan			
DECC Deliverables		136	02-Jun-14 A	15-Apr-15 A																									15-Apr-15 A, DECC Deliverables			
A11820	1.09 An Indicative Decommissioning Plan	11	01-Dec-14 A	15-Apr-15 A																									1.09 An Indicative Decommissioning Plan			
A5900	Commissioning and Start-Up (CSU) Plan	110	02-Jun-14 A	15-Dec-14 A																									Commissioning and Start-Up (CSU) Plan			
OP004		155	28-Apr-14 A	25-Sep-15 A																									25-Sep-15 A, OP004			
Activities		95	02-Jun-14 A	25-Sep-15 A																									25-Sep-15 A, Activities			
A8630	Logistics Activities for Shell Deliverables	95	02-Jun-14 A	25-Sep-15 A																									Logistics Activities for Shell Deliverables			
DECC Deliverables		155	28-Apr-14 A	19-Dec-14 A																									19-Dec-14 A, DECC Deliverables			
A7780	Logistics and Infrastructure Project Execution Plan	155	28-Apr-14 A	19-Dec-14 A																									Logistics and Infrastructure Project Execution Plan			
Commercial		460	24-Feb-14 A	18-Dec-15																									18-Dec-15, Commercial			
Development Agreements		442	24-Feb-14 A	27-Nov-15																									27-Nov-15, Development Agreement			
Bidders Own Deliverables		248	10-Mar-14 A	23-Nov-15																									23-Nov-15, Bidders Own Deliverables			
A1960	Cansolv License Agreement	95	10-Mar-14 A	30-Oct-15																									Cansolv License Agreement			
A1970	Key Subcontractor Agreement	192	02-Mar-15 A	23-Nov-15																									Key Subcontractor Agreement			
DECC Deliverables		425	24-Feb-14 A	27-Nov-15																									27-Nov-15, DECC Deliverables			
PC621A30	1.03 Third Party Revenue Strategy	263	07-Jul-14 A	23-Sep-15 A																									1.03 Third Party Revenue Strategy			
PC791	7.01 Response to Authority's Draft CfD Terms in Respect of CfD Duration	268	04-Aug-14 A	19-Aug-15 A																									7.01 Response to Authority's Draft CfD Terms in Respect of C			
PC801	7.02 Response to Authority's Draft CfD Terms in Respect of Conditions Prec	268	04-Aug-14 A	19-Aug-15 A																									7.02 Response to Authority's Draft CfD Terms in Respect of C			
PC811	7.03 Response to Authority's Draft CfD Terms in Respect of Re-basing the	268	04-Aug-14 A	19-Aug-15 A																									7.03 Response to Authority's Draft CfD Terms in Respect of F			
PC881	2.1 Land Ownership & Access to Land Right Evidence	60	07-Jul-14 A	28-Nov-14 A																									2.1 Land Ownership & Access to Land Right Evidence			
PC651A	8.01 Financial Model	334	16-Jun-14 A	16-Nov-15																									8.01 Financial Model			
PC611A	3.11 Sub-Contracts & Material Contracts for the Project Phase	425	24-Feb-14 A	27-Nov-15																									3.11 Sub-Contracts & Material Contr			
Project Agreements		421	07-Apr-14 A	23-Nov-15																									23-Nov-15, Project Agreements			
Bidders Own Deliverables		421	07-Apr-14 A	23-Nov-15																									23-Nov-15, Bidders Own Deliverables			
A1790	Interface Operating Services Agreement	271	06-Oct-14 A	25-Sep-15 A																									Interface Operating Services Agreem			
A1780	Flue Gas Supply Agreement	421	07-Apr-14 A	23-Nov-15																									Flue Gas Supply Agreement			
A1800	Capture Plant Site Lease Agmt	381	28-Apr-14 A	23-Nov-15																									Capture Plant Site Lease Agmt			
A1810	Capture Plant Construction and Tie-in (to PPS) Agreement	401	28-Apr-14 A	23-Nov-15																									Capture Plant Construction and Tie-in			
Infrastructure Agreements		421	31-Mar-14 A	23-Nov-15																									23-Nov-15, Infrastructure Agreements			
Bidders Own Deliverables		421	31-Mar-14 A	23-Nov-15																									23-Nov-15, Bidders Own Deliverables			
A1860	Miscellaneous Access Agreement (To be confirmed)	145	14-Jul-14 A	27-Feb-15 A																									Miscellaneous Access Agreement (To be confirmed)			
A1880	Pipeline Cross Agreement (To be confirmed, unlikely to be required)	1	01-Jan-15 A	31-Mar-15 A																									Pipeline Cross Agreement (To be confirmed, unlikely to be required)			
A1850	Offshore Pipeline Easement	170	02-Jun-14 A	30-Oct-15																									Offshore Pipeline Easement			
A1830	Goldeneye Sale and Purchase Agreement	421	31-Mar-14 A	23-Nov-15																									Goldeneye Sale and Purchase Agree			
Other Commercial Work Streams		460	24-Feb-14 A	18-Dec-15																									18-Dec-15, Other Commercial			
Activities		460	03-Mar-14 A	18-Dec-15																									18-Dec-15, Activities			
A2010	Internal Approvals	450	03-Mar-14 A	04-Dec-15																									Internal Approvals			
A2020	BOM Support	460	03-Mar-14 A	18-Dec-15																									BOM Support			
Bidders Own Deliverables		441	03-Mar-14 A	27-Nov-15																									27-Nov-15, Bidders Own Deliverable			
A1950	Storage Permit	441	03-Mar-14 A	28-Aug-15 A																									Storage Permit			
A1930	Regulatory Support and Interface Management	441	03-Mar-14 A	23-Nov-15																									Regulatory Support and Interface Mar			
A1940	EMR / CFD Review and Analytical Support	441	03-Mar-14 A	23-Nov-15																									EMR / CFD Review and Analytical Sup			
A1890	Commercial Knowledge Transfer Obligations for FEED	61	31-Aug-15 A	23-Nov-15																									Commercial Knowledge Transfer Obli			
A1900	C&P Interface Management	441	03-Mar-14 A	23-Nov-15																									C&P Interface Management			
A1910	Economics Support/ Model Development	441	03-Mar-14 A	23-Nov-15																									Economics Support/ Model Developm			
A1920	Power Market Trading Model	40	14-Jul-14 A	27-Nov-15																									Power Market Trading Model			
DECC Deliverables		40	24-Feb-14 A	18-Apr-14 A																									18-Apr-14 A, DECC Deliverables			
PC4920	10.29 Carbon Storage Lease Approval	40	24-Feb-14 A	28-Mar-14 A																									10.29 Carbon Storage Lease Approval			
PC4930	10.31 Carbon Storage Licence Approval	40	24-Feb-14 A	18-Apr-14 A																									10.31 Carbon Storage Licence Approval			

█ Remaining Level of Effort
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FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016											
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr									
General Non-recoverable Commercial Support					23-Nov-15, General Non-recoverable																																			
Bidders Own Deliverables					23-Nov-15, Bidders Own Deliverables																																			
A1840	Project Contract	441	03-Mar-14 A	23-Nov-15	Project Contract																																			
A1870	CFD Agreement	441	19-Mar-14 A	23-Nov-15	CFD Agreement																																			
Communications					18-Dec-15, Communications																																			
Activities					18-Dec-15, Activities																																			
A6720	Phase 2 Public Consultation Events	35	01-Jul-14 A	28-Nov-14 A	Phase 2 Public Consultation Events																																			
A4500	Public Consultation Logistical Support	150	30-May-14 A	27-Feb-15 A	Public Consultation Logistical Support																																			
A4510	Technical Support for Exhibitions	150	30-May-14 A	27-Mar-15 A	Technical Support for Exhibitions																																			
A4520	Stakeholder Tracking Software	230	24-Mar-14 A	28-Mar-14 A	Stakeholder Tracking Software																																			
A4530	Public Consultation Report	0		27-Mar-15 A	Public Consultation Report																																			
A4540	Communications Materials for Phase 2 Consultation	19	20-May-14 A	25-Jul-14 A	Communications Materials for Phase 2 Consultation																																			
A10110	Communications Materials for Phase 3 Consultation	15	20-Nov-14 A	20-Feb-15 A	Communications Materials for Phase 3 Consultation																																			
A10100	Phase 3 Public Consultation Events	36	03-Nov-14 A	20-Feb-15 A	Phase 3 Public Consultation Events																																			
A4550	Project Management	455	24-Feb-14 A	04-Dec-15	Project Management																																			
A6700	CCS Social Investment	150	24-Mar-14 A	18-Dec-15	CCS Social Investment																																			
A4490	Stakeholder and Community Meetings	230	03-Mar-14 A	18-Dec-15	Stakeholder and Community Meetings																																			
DECC Deliverables					20-Oct-15 A, DECC Deliverables																																			
A6710	Stakeholder & Communications Plan	230	03-Mar-14 A	20-Oct-15 A	Stakeholder & Communications Plan																																			
Onshore					31-Dec-15, Onshore																																			
General					31-Dec-15, General																																			
HSSE					31-Dec-15, HSSE																																			
ONHSE01 Permits and Consent 2014					31-Dec-15, ONHSE01 Perm																																			
Activities					31-Dec-15, Activities																																			
PC030	Onshore IA Surveys	185	24-Feb-14 A	12-Dec-14 A	Onshore IA Surveys																																			
PC040	Onshore IA Preparations (FEED Level Data Required)	236	04-Apr-14 A	26-Mar-15 A	Onshore IA Preparations (FEED Level Data Required)																																			
PC050	Onshore Public Consultations	250	25-Feb-14 A	20-Feb-15 A	Onshore Public Consultations																																			
PC070	Onshore IA Review by Aberdeenshire County Council (4m)	87	27-Mar-15 A	18-Jun-15 A	Onshore IA Review by Aberdeenshire County Council (4m)																																			
PC080	Planning Consent Application Preparation (FEED Level Data Required) (Incl	236	03-Mar-14 A	26-Mar-15 A	Planning Consent Application Preparation (FEED Level Data Required) (Incl Power Station applic																																			
PC100	Review Planning Consent Application by Aberdeenshire County Council (4m)	87	27-Mar-15 A	18-Jun-15 A	Review Planning Consent Application by Aberdeenshire County Council (4m)																																			
PC250	Offshore IA Public Consultation (28 days)	28	09-Jan-15 A	06-Feb-15 A	Offshore IA Public Consultation (28 days)																																			
PC110	On/ Offshore General Support (Permits & Consents)	455	24-Feb-14 A	04-Dec-15	On/ Offshore General Support (Pe																																			
PC260	Offshore IA DECC Review (6m)	182	09-Jan-15 A	31-Dec-15	Offshore IA DECC Review (
DECC Deliverables					18-Jun-15 A, DECC Deliverables																																			
PC4870	10.03 Planning Consent Approval (4m)	87	27-Mar-15 A	18-Jun-15 A	10.03 Planning Consent Approval (4m)																																			
PC4860	10.02 Planning Consent Application	14	26-Mar-15 A	26-Mar-15 A	10.02 Planning Consent Application																																			
PC020	Onshore IA Scoping Submission	0	04-Apr-14 A		Onshore IA Scoping Submission																																			
PC060	Onshore IA Submission	0		26-Mar-15 A	Onshore IA Submission																																			
PC240	Offshore IA Preparation & Submission (FEED Level Data Required)	344	04-Apr-14 A	09-Jan-15 A	Offshore IA Preparation & Submission (FEED Level Data Required)																																			
ONHSE02 HSSE & SP Management & Onshore Verification					04-Dec-15, ONHSE02 HSSE & SP																																			
Activities					04-Dec-15, Activities																																			
PC120	2014 General Support & Assurance (HSSE & SP Management & Onshore \	215	24-Feb-14 A	19-Dec-14 A	2014 General Support & Assuranc																																			
PC130	2015 HSSE Management & Assurance Activities	240	05-Jan-15 A	04-Dec-15	2015 HSSE Management & Assura																																			
Bidders Own Deliverables					26-Jun-15 A, Bidders Own Deliverables																																			
PC510	Security Activity Matrix	41	03-Mar-14 A	25-Apr-14 A	Security Activity Matrix																																			
PC530	Social Performance Plan	131	24-Mar-14 A	27-Mar-15 A	Social Performance Plan																																			
PC540	COMAH Pre-Construction Notification Report	153	01-Apr-15 A	26-Jun-15 A	COMAH Pre-Construction Notification Report																																			
DECC Deliverables					26-Jun-15 A, DECC Deliverables																																			
PC532	Construction HSSE Readiness Report	85	24-Feb-14 A	27-Jun-14 A	Construction HSSE Readiness Report																																			
PC512	Construction Contractor's HSSE Management Plan	44	26-Jun-15 A	26-Jun-15 A	Construction Contractor's HSSE Management Plan																																			
PC515	Project HSSE & SP MS	42	27-Mar-15 A	27-Mar-15 A	Project HSSE & SP MS																																			
PC525	Health Safety & Environment Report	100	24-Nov-14 A	24-Apr-15 A	Health Safety & Environment Report																																			
Third Party					30-Apr-15 A, Third Party																																			
Milestones					30-Apr-15 A, Milestones																																			
A8660	Receive Letter of Award from Client	0	03-Mar-14 A	30-Apr-15 A	Receive Letter of Award from Client																																			

█ Remaining Level of Effort
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FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
A1760	Onshore FEED Completion	0		30-Apr-15 A																												
Capture Plant																																
Mechanical Static																																
3rd Party Input to Bidders Deliverables																																
PC2030	Technical Bid Evaluation	45	22-Aug-14 A	20-Feb-15 A																												
PC2040	Requisition	61	03-Jul-14 A	31-Oct-14 A																												
PC2050	Mechanical Static Survey Report	1	19-Dec-14 A	19-Dec-14 A																												
PC1940	Criticality Rating	65	01-Sep-14 A	16-Jan-15 A																												
PC1930	Materials/ Equipment Handling Report	45	01-Sep-14 A	09-Dec-14 A																												
PC1910	Mechanical Static - Design Philosophy	16	21-Mar-14 A	04-Jul-14 A																												
PC1800	Utilities and Heat Transfer Equipment Data Sheets and Specifications	78	20-Jun-14 A	27-Nov-14 A																												
PC2020	Mechanical Static Equipmt. Data Sheets/ Specifications	157	06-May-14 A	08-Jan-15 A																												
Piping & Plant Layout																																
3rd Party Input to Bidders Deliverables																																
PC1870	Layout Review Report - Onshore	59	27-Aug-14 A	19-Jan-15 A																												
PC2060	Piping & Plant Layout - Design Philosophy	91	07-Apr-14 A	31-Jul-14 A																												
PC2080	Layout Review Terms of Reference	44	27-May-14 A	21-Aug-14 A																												
PC2090	Pipe Stress Analysis Report	56	29-Sep-14 A	18-Dec-14 A																												
PC2100	Bulk Bill of Materials	40	20-Oct-14 A	19-Dec-14 A																												
PC2110	Valve Schedule	40	20-Oct-14 A	19-Dec-14 A																												
PC2120	PDMS Model	145	06-May-14 A	19-Dec-14 A																												
PC2140	Survey Workscope	185	07-Apr-14 A	12-Dec-14 A																												
PC2150	Survey Report	185	07-Apr-14 A	12-Dec-14 A																												
PC2160	Piping Class Selection Report	79	06-May-14 A	06-Aug-14 A																												
PC2170	Piping Class Specification	79	06-May-14 A	06-Aug-14 A																												
3rd Party Input to DECC Deliverables																																
PC990	Site Master Plan	56	24-Apr-14 A	04-Jul-14 A																												
PC1140	Tie-In List & Schedule	70	04-Aug-14 A	19-Jan-15 A																												
PC1880	Plot Plans/ Mechanical GA Drawings	143	30-May-14 A	23-Jan-15 A																												
HVAC																																
3rd Party Input to Bidders Deliverables																																
PC1780	HVAC Equipment Specifications	93	15-Jul-14 A	24-Nov-14 A																												
PC2180	HVAC System Design Calculation	1	19-Dec-14 A	19-Dec-14 A																												
PC2190	HVAC Ducting & Instrumentation Diagram	1	19-Dec-14 A	19-Dec-14 A																												
PC8130	HVAC Design Report	1	18-Dec-14 A	18-Dec-14 A																												
Materials & Corrosion																																
3rd Party Input to Bidders Deliverables																																
PC1400	Welding & Weld Inspection Specifications	63	14-Jul-14 A	27-Nov-14 A																												
PC1790	Materials and Corrosion Data Sheets and Specifications	41	12-May-14 A	13-Nov-14 A																												
PC1850	Materials Selection Report - updated	125	23-Jun-14 A	24-Nov-14 A																												
PC1860	Corrosion Management Framework - Preliminary	107	27-May-14 A	27-Nov-14 A																												
PC2210	Corrosion Protection Specifications	40	13-Jun-14 A	22-Oct-14 A																												
Mechanical Rotating																																
3rd Party Input to Bidders Deliverables																																
PC2250	Mechanical Rotating - Criticality Rating	65	29-Aug-14 A	16-Jan-15 A																												
PC2220	Mechanical Rotating - Design Philosophy	65	21-Mar-14 A	04-Jul-14 A																												
PC2270	Technical Bid Evaluation	51	15-Sep-14 A	16-Jan-15 A																												
PC2280	Requisition	81	07-Jul-14 A	20-Feb-15 A																												
3rd Party Input to DECC Deliverables																																
PC1810	Rotating Equipment Data Sheets and Specifications	162	07-Apr-14 A	24-Dec-14 A																												
PC1820	Rotating Equipment Type Selection Report	50	01-Sep-14 A	16-Dec-14 A																												
Electrical																																
3rd Party Input to Bidders Deliverables																																
PC1840	Electrical Power and Protection System Study	131	20-May-14 A	26-Nov-14 A																												
PC1710	Electrical Design Philosophy	58	04-Apr-14 A	07-Aug-14 A																												

█ Remaining Level of Effort
 █ Actual Work
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 Remaining Work
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FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Onshore Civil/ Structural					200																								04-Apr-14 A		20-Feb-15 A	
3rd Party Input to Bidders Deliverables					200																								04-Apr-14 A		20-Feb-15 A	
PC890	Soil Investigation Specification	18	07-Apr-14 A	26-Aug-14 A	Soil Investigation Specification												20-Feb-15 A, Onshore Civil/ Structural															
PC900	Soil Investigation Survey Report	89	19-Sep-14 A	20-Feb-15 A	Soil Investigation Survey Report												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC870	Site Investigation Plan	18	01-May-14 A	07-Nov-14 A	Site Investigation Plan																											
PC920	Site Investigation Survey Report	22	28-Jul-14 A	20-Feb-15 A	Site Investigation Survey Report																											
PC930	Civil Specifications	65	07-Apr-14 A	30-Jul-14 A	Civil Specifications																											
PC950	Building Specifications	39	27-May-14 A	26-Aug-14 A	Building Specifications																											
PC960	Bill of Primary Quantities	31	07-Nov-14 A	19-Dec-14 A	Bill of Primary Quantities																											
PC970	Foundation Layout	100	08-Aug-14 A	20-Feb-15 A	Foundation Layout																											
PC980	Drainage, Primary Treatment & Waste Handling Specs	65	07-Apr-14 A	27-Jun-14 A	Drainage, Primary Treatment & Waste Handling Specs																											
PC1020	General Arrangement Drawings, Plot Plan	143	16-May-14 A	20-Feb-15 A	General Arrangement Drawings, Plot Plan																											
PC1050	PDMS Civil Model	145	28-Apr-14 A	19-Dec-14 A	PDMS Civil Model																											
PC1060	Preliminary Calculations	143	16-May-14 A	20-Feb-15 A	Preliminary Calculations																											
PC1070	Drawings	181	04-Apr-14 A	16-Jan-15 A	Drawings																											
PC1130	Equipment Installation Study Report	15	12-Jan-15 A	20-Feb-15 A	Equipment Installation Study Report																											
PC830	Onshore Civil/ Structural - Design Philosophy	75	07-Apr-14 A	27-Jun-14 A	Onshore Civil/ Structural - Design Philosophy																											
3rd Party Input to DECC Deliverables					62																								08-Aug-14 A		17-Dec-14 A	
PC850	Off Plot Civil Logistics/ Infrastructure Requirements	62	08-Aug-14 A	17-Dec-14 A	Off Plot Civil Logistics/ Infrastructure Requirements												11-Nov-14 A, Architectural															
Architectural					62																								27-May-14 A		11-Nov-14 A	
3rd Party Input to Bidders Deliverables					62																								27-May-14 A		11-Nov-14 A	
PC1150	Architectural General Arrangements	56	10-Jun-14 A	11-Nov-14 A	Architectural General Arrangements												11-Nov-14 A, 3rd Party Input to Bidders Deliverables															
PC1170	Architectural Specification	39	27-May-14 A	26-Aug-14 A	Architectural Specification																											
PC8170	Living Quarters Specification (and Temporary Refuge)	56	10-Jun-14 A	11-Nov-14 A	Living Quarters Specification (and Temporary Refuge)																											
Design Applications - PDMS					116																								28-Aug-14 A		20-Feb-15 A	
3rd Party Input to Bidders Deliverables					116																								28-Aug-14 A		20-Feb-15 A	
PC2670	PDMS Models	1	20-Feb-15 A	20-Feb-15 A	PDMS Models												20-Feb-15 A, Design Applications - PDMS															
PC2680	Smart Plant Databases	1	20-Feb-15 A	20-Feb-15 A	Smart Plant Databases												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC2690	PDMS Piping Cats & Specs	1	20-Feb-15 A	20-Feb-15 A	PDMS Piping Cats & Specs																											
PC2700	PDMS Structural Cats & Specs	1	20-Feb-15 A	20-Feb-15 A	PDMS Structural Cats & Specs																											
PC2710	PDMS E & I Cats & Specs	1	20-Feb-15 A	20-Feb-15 A	PDMS E & I Cats & Specs																											
PC2720	PDMS Review Models	54	28-Aug-14 A	13-Nov-14 A	PDMS Review Models																											
PC2790	PDMS Project Closeout/ Handover	15	19-Jan-15 A	20-Feb-15 A	PDMS Project Closeout/ Handover																											
PC2800	General Discipline MTO, Weight & C of G Reports	11	05-Dec-14 A	16-Jan-15 A	General Discipline MTO, Weight & C of G Reports																											
Process					196																								06-Mar-14 A		20-Feb-15 A	
3rd Party Input to Bidders Deliverables					191																								06-Mar-14 A		20-Feb-15 A	
PC940	Process Safeguarding Flow Schemes (PSFS) and Memorandum	60	15-Sep-14 A	18-Dec-14 A	Process Safeguarding Flow Schemes (PSFS) and Memorandum												20-Feb-15 A, Process															
PC2830	Process Design Philosophy	162	06-Mar-14 A	26-Sep-14 A	Process Design Philosophy												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC2850	Heat, Material & Energy Balance	56	08-Apr-14 A	12-Dec-14 A	Heat, Material & Energy Balance																											
PC2870	Production System Models - Surface Facilities	1	19-Dec-14 A	19-Dec-14 A	Production System Models - Surface Facilities																											
PC2880	Process Engineering Studies	82	07-Apr-14 A	20-Feb-15 A	Process Engineering Studies																											
PC2890	Line List	100	11-Jul-14 A	23-Jan-15 A	Line List																											
PC2900	Utility Requirement report	66	20-Aug-14 A	17-Nov-14 A	Utility Requirement report																											
PC2910	Control Strategy	49	02-May-14 A	11-Sep-14 A	Control Strategy																											
PC2930	Equipment Sizing	116	02-Jun-14 A	11-Nov-14 A	Equipment Sizing																											
PC2940	Drainage Philosophy	35	31-Mar-14 A	24-Jun-14 A	Drainage Philosophy																											
PC3900	Process Description	114	03-Jun-14 A	12-Dec-14 A	Process Description																											
3rd Party Input to DECC Deliverables					196																								24-Mar-14 A		23-Jan-15 A	
PC910	Master Equipment List	40	28-Aug-14 A	16-Oct-14 A	Master Equipment List												23-Jan-15 A, 3rd Party Input to DECC Deliverables															
PC1180	Utility Flow Schemes (UFS)	171	24-Mar-14 A	25-Sep-14 A	Utility Flow Schemes (UFS)																											
PC1190	Process Engineering Flow Schemes (PEFS/P&IDs)	151	12-May-14 A	12-Dec-14 A	Process Engineering Flow Schemes (PEFS/P&IDs)																											
PC1200	Utilities Engineering Flow Schemes (UEFS/P&IDs)	146	19-May-14 A	23-Jan-15 A	Utilities Engineering Flow Schemes (UEFS/P&IDs)																											
PC1220	Relief, Flare and Vent Study Report	50	12-Sep-14 A	21-Nov-14 A	Relief, Flare and Vent Study Report																											
PC1430	Chemicals Requirements Report	25	22-Sep-14 A	04-Nov-14 A	Chemicals Requirements Report																											
PC1460	GHG (Greenhouse Gas) and Energy Management Plan	20	10-Nov-14 A	16-Jan-15 A	GHG (Greenhouse Gas) and Energy Management Plan																											

█ Remaining Level of Effort
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 █ Remaining Work
 ◆ Baseline Milestone

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FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
PC1120	Process Flow Schemes (PFS)	151	24-Mar-14 A	25-Sep-14 A	[Gantt bars for 2014]												Process Flow Schemes (PFS)															
HSSE		405	17-Mar-14 A	20-Feb-15 A	[Gantt bars for 2014]												20-Feb-15 A, HSSE															
3rd Party Input to Bidders Deliverables		226	17-Mar-14 A	20-Feb-15 A	[Gantt bars for 2014]												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC3000	HAZID - Preparation of TOR & Report	72	06-May-14 A	22-Dec-14 A	[Gantt bars for 2014]												HAZID - Preparation of TOR & Report															
PC810	Escape Route Layouts	35	11-Sep-14 A	29-Oct-14 A	[Gantt bars for 2014]												Escape Route Layouts															
PC2980	HSSE Philosophy	59	17-Mar-14 A	26-Jun-14 A	[Gantt bars for 2014]												HSSE Philosophy															
PC3010	Main HAZOP Terms of Reference	37	09-May-14 A	18-Jun-14 A	[Gantt bars for 2014]												Main HAZOP Terms of Reference															
PC3020	Major Hazard Assessment	40	13-Oct-14 A	20-Feb-15 A	[Gantt bars for 2014]												Major Hazard Assessment															
PC3030	Fire, Gas & Explosion Analysis Report	35	02-Oct-14 A	25-Nov-14 A	[Gantt bars for 2014]												Fire, Gas & Explosion Analysis Report															
PC3040	FIREPRAN	1	19-Dec-14 A	19-Dec-14 A	[Gantt bars for 2014]												FIREPRAN															
PC3050	Firewater Demand/ Availability Report	36	07-Jul-14 A	26-Aug-14 A	[Gantt bars for 2014]												Firewater Demand/ Availability Report															
PC3060	Temporary Refuge Integrity Assessment	35	02-Oct-14 A	15-Jan-15 A	[Gantt bars for 2014]												Temporary Refuge Integrity Assessment															
PC3080	Evacuation, Escape & Rescue Assessment	35	29-Aug-14 A	22-Oct-14 A	[Gantt bars for 2014]												Evacuation, Escape & Rescue Assessment															
PC3110	HFE Engineering Report	35	03-Oct-14 A	16-Jan-15 A	[Gantt bars for 2014]												HFE Engineering Report															
PC3150	Preliminary Noise Assessment	1	20-Feb-15 A	20-Feb-15 A	[Gantt bars for 2014]												Preliminary Noise Assessment															
PC3190	DEM1 Compliance Demonstration	30	20-Oct-14 A	15-Jan-15 A	[Gantt bars for 2014]												DEM1 Compliance Demonstration															
PC3200	FEED Phase Health Activity Plan **ON HOLD**	1	20-Feb-15 A	20-Feb-15 A	[Gantt bars for 2014]												FEED Phase Health Activity Plan **ON HOLD**															
PC3220	Atmospheric Emmissions Assessment	1	19-Dec-14 A	19-Dec-14 A	[Gantt bars for 2014]												Atmospheric Emmissions Assessment															
PC3230	Soil & Groundwater Assessment	1	20-Feb-15 A	20-Feb-15 A	[Gantt bars for 2014]												Soil & Groundwater Assessment															
PC3240	Waste Water Discharge Assessment	1	19-Dec-14 A	19-Dec-14 A	[Gantt bars for 2014]												Waste Water Discharge Assessment															
PC820	Fire Fighting Equipment Layouts	35	18-Sep-14 A	28-Nov-14 A	[Gantt bars for 2014]												Fire Fighting Equipment Layouts															
3rd Party Input to DECC Deliverables		385	26-Mar-14 A	20-Feb-15 A	[Gantt bars for 2014]												20-Feb-15 A, 3rd Party Input to DECC Deliverables															
PC670	HSSE & SP Hazards & Effects Register	41	27-Jun-14 A	29-Aug-14 A	[Gantt bars for 2014]												HSSE & SP Hazards & Effects Register															
PC1450	Design ALARP Demonstration Report (Design HSSE & SP Case)	40	13-Oct-14 A	20-Feb-15 A	[Gantt bars for 2014]												Design ALARP Demonstration Report (Design HSSE & SP Case)															
PC1420	Process Safety Review (eg HAZOP) Report	42	06-Nov-14 A	23-Jan-15 A	[Gantt bars for 2014]												Process Safety Review (eg HAZOP) Report															
PC2960	HSSE & SP Activity Plan for FEED Phase	38	26-Mar-14 A	03-Jun-14 A	[Gantt bars for 2014]												HSSE & SP Activity Plan for FEED Phase															
PC1210	Hazardous Area Classification Drawings	69	26-Aug-14 A	08-Dec-14 A	[Gantt bars for 2014]												Hazardous Area Classification Drawings															
PC1890	Performance Standards & Assurance Tasks for Safety Critical Elements/Eq	35	30-Oct-14 A	20-Feb-15 A	[Gantt bars for 2014]												Performance Standards & Assurance Tasks for Safety Critical Elements/Equipment															
PC3100	Hazardous Area Classification Schedule	36	21-Jul-14 A	26-Sep-14 A	[Gantt bars for 2014]												Hazardous Area Classification Schedule															
PC3170	Safety Risk Studies Report	35	10-Nov-14 A	12-Jan-15 A	[Gantt bars for 2014]												Safety Risk Studies Report															
PC8090	Emergency Response Plan	130	20-Jun-14 A	20-Jun-14 A	[Gantt bars for 2014]												Emergency Response Plan															
Operations & Maintenance		161	06-Jun-14 A	20-Feb-15 A	[Gantt bars for 2014]												20-Feb-15 A, Operations & Maintenance															
3rd Party Input to Bidders Deliverables		36	19-Dec-14 A	20-Feb-15 A	[Gantt bars for 2014]												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC3260	Surveillance, Metering & Allocation Design Package	1	19-Dec-14 A	19-Dec-14 A	[Gantt bars for 2014]												Surveillance, Metering & Allocation Design Package															
PC3270	Operability Review	1	20-Feb-15 A	20-Feb-15 A	[Gantt bars for 2014]												Operability Review															
PC1900	Computerised Maintenance Mgt System (CMMS) spec & Implementation PI	1	20-Feb-15 A	20-Feb-15 A	[Gantt bars for 2014]												Computerised Maintenance Mgt System (CMMS) spec & Implementation Plan															
PC1920	Maintenance and Integrity Strategies	1	20-Feb-15 A	20-Feb-15 A	[Gantt bars for 2014]												Maintenance and Integrity Strategies															
3rd Party Input to DECC Deliverables		108	06-Jun-14 A	12-Jan-15 A	[Gantt bars for 2014]												12-Jan-15 A, 3rd Party Input to DECC Deliverables															
PC1550	Spare Parts Strategy	87	06-Jun-14 A	28-Dec-14 A	[Gantt bars for 2014]												Spare Parts Strategy															
PC1580	Commissioning and Start-up (CSU) Plan	56	27-Jun-14 A	04-Sep-14 A	[Gantt bars for 2014]												Commissioning and Start-up (CSU) Plan															
PC1600	Operations & Maintenance Philosophy	46	07-Jul-14 A	16-Sep-14 A	[Gantt bars for 2014]												Operations & Maintenance Philosophy															
PC1950	Logistics and Infrastructure Project Execution Plan	83	09-Jun-14 A	01-Dec-14 A	[Gantt bars for 2014]												Logistics and Infrastructure Project Execution Plan															
PC3280	Capital Insurance Spares Study Report	43	10-Sep-14 A	12-Jan-15 A	[Gantt bars for 2014]												Capital Insurance Spares Study Report															
Project Engineering		270	10-Mar-14 A	20-Feb-15 A	[Gantt bars for 2014]												20-Feb-15 A, Project Engineering															
3rd Party Input to Bidders Deliverables		270	31-Mar-14 A	20-Feb-15 A	[Gantt bars for 2014]												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC1280	Monthly Project Management Report	90	04-Apr-14 A	20-Feb-15 A	[Gantt bars for 2014]												Monthly Project Management Report															
PC3370	FEED Closeout Report	45	19-Feb-15 A	20-Feb-15 A	[Gantt bars for 2014]												FEED Closeout Report															
PC3400	FEED Execution Plan	134	31-Mar-14 A	20-Jun-14 A	[Gantt bars for 2014]												FEED Execution Plan															
PC3450	FEED Lessons Learned Report	176	02-Jun-14 A	20-Feb-15 A	[Gantt bars for 2014]												FEED Lessons Learned Report															
PC3320	Basic Design Package	60	31-Mar-14 A	13-Jun-14 A	[Gantt bars for 2014]												Basic Design Package															
3rd Party Input to DECC Deliverables		201	10-Mar-14 A	19-Jan-15 A	[Gantt bars for 2014]												19-Jan-15 A, 3rd Party Input to DECC Deliverables															
PC1090	Constructability Report - Updated	68	25-Apr-14 A	24-Sep-14 A	[Gantt bars for 2014]												Constructability Report - Updated															
PC1660	Construction Mgt Plans (including HSSE)	82	27-Jun-14 A	17-Oct-14 A	[Gantt bars for 2014]												Construction Mgt Plans (including HSSE)															
PC1410	Interface Management Plan	61	31-Mar-14 A	20-Jun-14 A	[Gantt bars for 2014]												Interface Management Plan															
PC3340	Basic Design and Engineering Package	26	24-Nov-14 A	19-Jan-15 A	[Gantt bars for 2014]												Basic Design and Engineering Package															

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Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
PC3380	Reliability, Availability and Maintainability Report	87	06-Jun-14 A	06-Jan-15 A	[Gantt Bar]												Reliability, Availability and Maintainability Report															
PC3420	Risk & Opportunity Management Plan	76	10-Mar-14 A	09-May-14 A	[Gantt Bar]												Risk & Opportunity Management Plan															
QA		234	24-Mar-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, QA															
3rd Party Input to Bidders Deliverables		234	24-Mar-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC1010	Derogations and Deviations Log (Standards)	120	28-Jul-14 A	20-Feb-15 A	[Gantt Bar]												Derogations and Deviations Log (Standards)															
PC1730	Technical Integrity Verification Plan	5	05-Dec-14 A	05-Dec-14 A	[Gantt Bar]												Technical Integrity Verification Plan															
PC3470	Audit & Review Plan	1	24-Mar-14 A	16-May-14 A	[Gantt Bar]												Audit & Review Plan															
PC3480	Audit Reports	71	15-Aug-14 A	28-Nov-14 A	[Gantt Bar]												Audit Reports															
PC3490	FEED Holds Register	124	28-Jul-14 A	20-Feb-15 A	[Gantt Bar]												FEED Holds Register															
PC3500	Design Deviation Register	124	28-Jul-14 A	20-Feb-15 A	[Gantt Bar]												Design Deviation Register															
PC3510	Codes & Standards Update	10	31-Mar-14 A	01-Aug-14 A	[Gantt Bar]												Codes & Standards Update															
PC3520	Document Distribution Matrix	69	24-Mar-14 A	21-May-14 A	[Gantt Bar]												Document Distribution Matrix															
3rd Party Input to DECC Deliverables		75	24-Mar-14 A	30-May-14 A	[Gantt Bar]												30-May-14 A, 3rd Party Input to DECC Deliverables															
PC1080	FEED Quality Plan	75	24-Mar-14 A	30-May-14 A	[Gantt Bar]												FEED Quality Plan															
Cost & Planning		285	03-Mar-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, Cost & Planning															
3rd Party Input to Bidders Deliverables		285	03-Mar-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC3540	Execution Schedule Risk Assessment Report	20	19-Feb-15 A	20-Feb-15 A	[Gantt Bar]												Execution Schedule Risk Assessment Report															
PC3560	FEED CTR Estimate	10	03-Mar-14 A	09-May-14 A	[Gantt Bar]												FEED CTR Estimate															
PC3570	FEED Execution Schedule	42	03-Mar-14 A	23-May-14 A	[Gantt Bar]												FEED Execution Schedule															
PC3610	Change Register	220	04-Apr-14 A	20-Feb-15 A	[Gantt Bar]												Change Register															
3rd Party Input to DECC Deliverables		69	28-Nov-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, 3rd Party Input to DECC Deliverables															
PC1960	Execution Schedule - Level 3	20	22-Dec-14 A	20-Feb-15 A	[Gantt Bar]												Execution Schedule - Level 3															
PC2000	CAPEX Cost Estimate - Type 3	46	28-Nov-14 A	20-Feb-15 A	[Gantt Bar]												CAPEX Cost Estimate - Type 3															
PC760	Schedule Basis Report	10	19-Jan-15 A	20-Feb-15 A	[Gantt Bar]												Schedule Basis Report															
PC1480	Estimate Basis Report	19	19-Feb-15 A	20-Feb-15 A	[Gantt Bar]												Estimate Basis Report															
Contracting & Procurement		31	24-Nov-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, Contracting & Procurement															
3rd Party Input to DECC Deliverables		31	24-Nov-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, 3rd Party Input to DECC Deliverables															
PC660	Scope of Work for Execute Contracts	31	24-Nov-14 A	20-Feb-15 A	[Gantt Bar]												Scope of Work for Execute Contracts															
Information Management		226	07-Apr-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, Information Management															
3rd Party Input to Bidders Deliverables		226	07-Apr-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC680	Document Data Register	140	11-May-14 A	19-Jan-15 A	[Gantt Bar]												Document Data Register															
PC700	IM Plan	69	07-Apr-14 A	12-Jun-14 A	[Gantt Bar]												IM Plan															
PC3630	IM Scope of Work & Information Specification	1	20-Feb-15 A	20-Feb-15 A	[Gantt Bar]												IM Scope of Work & Information Specification															
Power Plant		285	03-Mar-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, Power Plant															
Mechanical Static		200	21-Mar-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, Mechanical Static															
3rd Party Input to Bidders Deliverables		200	21-Mar-14 A	20-Feb-15 A	[Gantt Bar]												20-Feb-15 A, 3rd Party Input to Bidders Deliverables															
PC5180	Technical Bid Evaluation	25	27-Oct-14 A	20-Feb-15 A	[Gantt Bar]												Technical Bid Evaluation															
PC5190	Requisition	56	24-Jul-14 A	09-Oct-14 A	[Gantt Bar]												Requisition															
PC5200	Mechanical Static Survey Report	1	19-Dec-14 A	19-Dec-14 A	[Gantt Bar]												Mechanical Static Survey Report															
PC5230	Nozzle Load Specification	122	06-May-14 A	19-Dec-14 A	[Gantt Bar]												Nozzle Load Specification															
PC5240	Mechanical Static - Design Philosophy	50	21-Mar-14 A	04-Jul-14 A	[Gantt Bar]												Mechanical Static - Design Philosophy															
PC5250	Utilities and Heat Transfer Equipment Data Sheets and Specifications	43	01-Sep-14 A	04-Dec-14 A	[Gantt Bar]												Utilities and Heat Transfer Equipment Data Sheets and Specifications															
PC5260	Mechanical Static Equipmt. Data Sheets/ Specifications	152	06-May-14 A	09-Jan-15 A	[Gantt Bar]												Mechanical Static Equipmt. Data Sheets/ Specifications															
Piping & Plant Layout		185	07-Apr-14 A	23-Jan-15 A	[Gantt Bar]												23-Jan-15 A, Piping & Plant Layout															
3rd Party Input to Bidders Deliverables		185	07-Apr-14 A	19-Jan-15 A	[Gantt Bar]												19-Jan-15 A, 3rd Party Input to Bidders Deliverables															
PC4960	Layout Review Report - Onshore	59	26-Aug-14 A	19-Jan-15 A	[Gantt Bar]												Layout Review Report - Onshore															
PC4990	Piping & Plant Layout - Design Philosophy	91	07-Apr-14 A	31-Jul-14 A	[Gantt Bar]												Piping & Plant Layout - Design Philosophy															
PC5000	Layout Review Terms of Reference	44	27-May-14 A	21-Aug-14 A	[Gantt Bar]												Layout Review Terms of Reference															
PC5010	Pipe Stress Analysis Report	66	11-Aug-14 A	18-Dec-14 A	[Gantt Bar]												Pipe Stress Analysis Report															
PC5020	Bulk Bill of Materials	25	13-Oct-14 A	19-Dec-14 A	[Gantt Bar]												Bulk Bill of Materials															
PC5030	Valve Schedule	25	13-Oct-14 A	19-Dec-14 A	[Gantt Bar]												Valve Schedule															
PC5060	Survey Workscope	185	07-Apr-14 A	12-Dec-14 A	[Gantt Bar]												Survey Workscope															
PC5070	Survey Report	185	07-Apr-14 A	12-Dec-14 A	[Gantt Bar]												Survey Report															
PC5080	Piping Class Selection Report	79	06-May-14 A	06-Aug-14 A	[Gantt Bar]												Piping Class Selection Report															
PC5090	Piping Class Specification	79	06-May-14 A	06-Aug-14 A	[Gantt Bar]												Piping Class Specification															

█ Remaining Level of Effort
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FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Control & Automation																																
3rd Party Input to Bidders Deliverables																																
PC5710	Control & Automation Philosophy	39	17-Apr-14 A	28-Jul-14 A																												
PC5840	Instrument Loop Diagram	16	17-Apr-14 A	11-Jun-14 A																												
PC5910	Main Automation Contractor Scope	134	02-Jun-14 A	18-Dec-14 A																												
PC5920	Cause & Effects Diagrams	74	11-Aug-14 A	25-Nov-14 A																												
PC5930	Equipment Datasheet	50	08-Sep-14 A	12-Dec-14 A																												
PC5940	SIL Classification Study Report	45	06-Oct-14 A	20-Nov-14 A																												
PC5970	Alarm Management Design Package	36	21-Jul-14 A	24-Sep-14 A																												
PC5980	Functional Design Specification	98	08-May-14 A	24-Oct-14 A																												
PC5990	I/O Schedule	30	22-Sep-14 A	04-Dec-14 A																												
3rd Party Input to DECC Deliverables																																
PC5660	Process Control Design Package	35	29-Sep-14 A	19-Dec-14 A																												
Onshore Civil/ Structural																																
3rd Party Input to Bidders Deliverables																																
PC6060	Soil Investigation Specification	18	07-Apr-14 A	26-Aug-14 A																												
PC6070	Soil Investigation Survey Report	89	19-Sep-14 A	20-Feb-15 A																												
PC6080	Site Investigation Plan	18	01-May-14 A	07-Oct-14 A																												
PC6090	Site Investigation Survey Report	22	28-Jul-14 A	20-Feb-15 A																												
PC6100	Civil Specifications	65	07-Apr-14 A	30-Jul-14 A																												
PC6110	Building Specifications	39	27-May-14 A	26-Aug-14 A																												
PC6130	Foundation Layout	100	08-Aug-14 A	16-Jan-15 A																												
PC6140	Drainage, Primary Treatment & Waste Handling Specs	65	07-Apr-14 A	27-Jun-14 A																												
PC6160	General Arrangement Drawings, Plot Plan	178	16-May-14 A	16-Jan-15 A																												
PC6180	Preliminary Calculations	178	16-May-14 A	20-Feb-15 A																												
PC6190	Drawings	176	04-Apr-14 A	22-Dec-14 A																												
PC6200	Equipment Installation Study Report	15	12-Jan-15 A	20-Feb-15 A																												
PC6210	Onshore Civil/ Structural - Design Philosophy	75	07-Apr-14 A	27-Jun-14 A																												
PC6220	Structural Analysis Model Report	1	18-Dec-14 A	18-Dec-14 A																												
3rd Party Input to DECC Deliverables																																
PC6040	Off Plot Civil Logistics/ Infrastructure Requirements	62	08-Aug-14 A	17-Dec-14 A																												
Design Applications - PDMS																																
3rd Party Input to Bidders Deliverables																																
PC6370	General Discipline MTO, Weight & C of G Reports	15	21-Nov-14 A	19-Dec-14 A																												
Process																																
3rd Party Input to Bidders Deliverables																																
PC6470	Process Design Philosophy	143	12-Mar-14 A	04-Sep-14 A																												
PC6480	Heat, Material & Energy Balance	25	14-Jul-14 A	11-Dec-14 A																												
PC6500	Process Engineering Studies	74	24-Mar-14 A	20-Feb-15 A																												
PC6510	Line List	100	30-Jun-14 A	16-Jan-15 A																												
PC6520	Utility Requirement report	56	15-Aug-14 A	21-Oct-14 A																												
PC6530	Control Strategy	39	06-May-14 A	26-Sep-14 A																												
PC6540	Equipment Sizing	43	14-Jul-14 A	24-Oct-14 A																												
PC6550	Drainage Philosophy	35	31-Mar-14 A	24-Jun-14 A																												
PC6560	Process Description	94	03-Jun-14 A	24-Oct-14 A																												
PC6570	Performance Requirements & Testing Schedule	30	03-Nov-14 A	24-Dec-14 A																												
3rd Party Input to DECC Deliverables																																
PC6380	Master Equipment List	35	28-Aug-14 A	16-Oct-14 A																												
PC6390	Utility Flow Schemes (UFS)	171	31-Mar-14 A	29-Aug-14 A																												
PC6400	Process Engineering Flow Schemes (PEFS/P&IDs)	158	22-May-14 A	16-Jan-15 A																												
PC6410	Utilities Engineering Flow Schemes (UEFS/P&IDs)	153	22-May-14 A	28-Nov-14 A																												
PC6420	Relief, Flare and Vent Study Report	39	26-Aug-14 A	24-Oct-14 A																												
PC6430	Chemicals Requirements Report	25	22-Sep-14 A	24-Oct-14 A																												
PC6450	Process Flow Schemes (PFS)	151	31-Mar-14 A	29-Aug-14 A																												
HSSE																																

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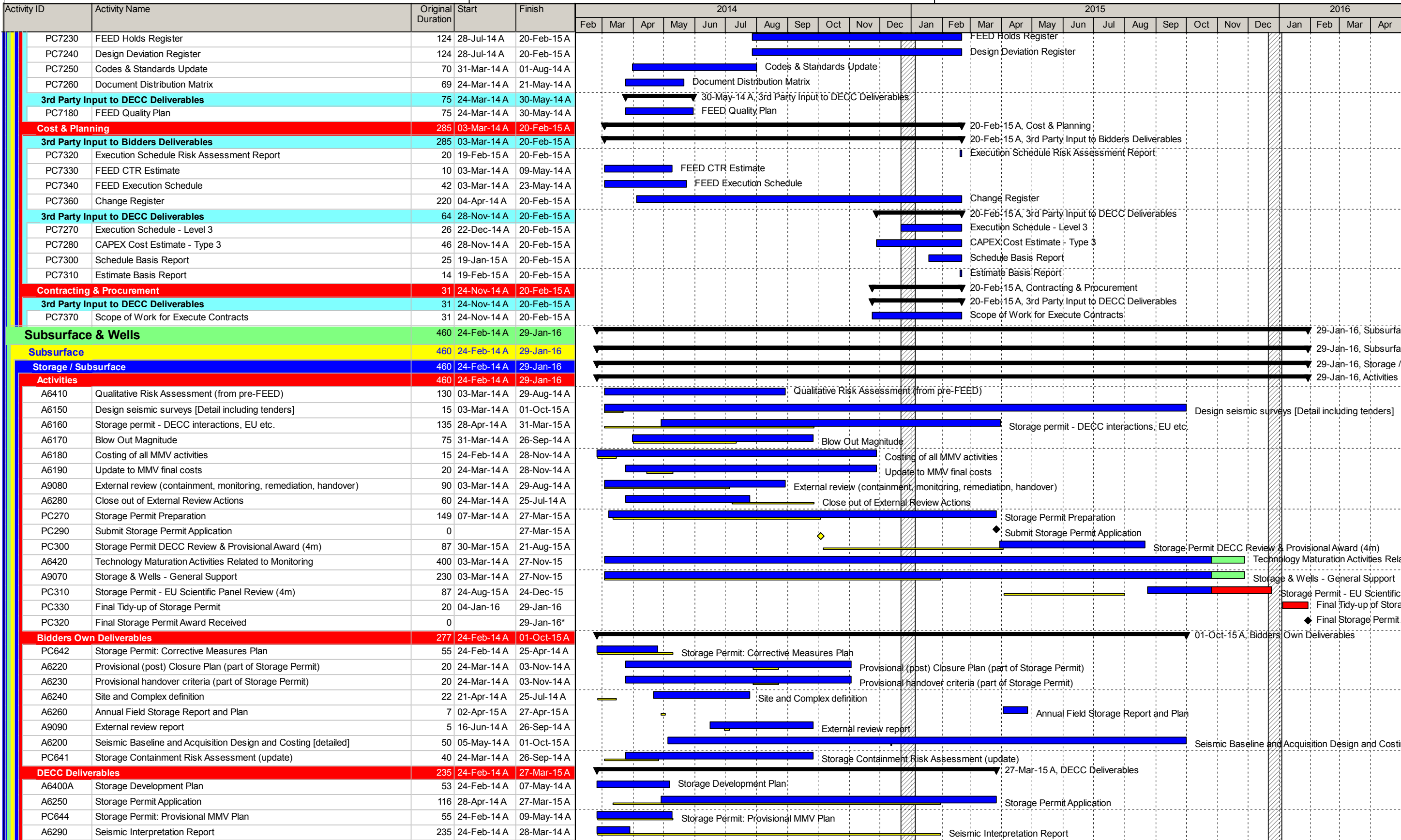
FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
3rd Party Input to Bidders Deliverables					20-Feb-15 A, 3rd Party Input to Bidders Deliverables																											
PC6630	HAZID - Preparation of TOR & Report	72	17-Mar-14 A	20-Feb-15 A	HAZID - Preparation of TOR & Report																											
PC6640	SHE Risk Register	15	27-Jun-14 A	29-Aug-14 A	SHE Risk Register																											
PC6650	HAZCON Report	1	18-Dec-14 A	18-Dec-14 A	HAZCON Report																											
PC6690	HSSE Philosophy	59	17-Mar-14 A	26-Jun-14 A	HSSE Philosophy																											
PC6700	Main HAZOP Terms of Reference	37	09-May-14 A	18-Jun-14 A	Main HAZOP Terms of Reference																											
PC6710	Major Hazard Assessment	40	13-Oct-14 A	20-Feb-15 A	Major Hazard Assessment																											
PC6720	Fire, Gas & Explosion Analysis Report	35	02-Oct-14 A	25-Nov-14 A	Fire, Gas & Explosion Analysis Report																											
PC6740	Firewater Demand/ Availability Report	36	07-Jul-14 A	26-Aug-14 A	Firewater Demand/ Availability Report																											
PC6760	Evacuation, Escape & Rescue Assessment	35	26-Aug-14 A	22-Oct-14 A	Evacuation, Escape & Rescue Assessment																											
PC6800	Preliminary Noise Assessment	1	20-Feb-15 A	20-Feb-15 A	Preliminary Noise Assessment																											
PC6840	Atmospheric Emmissions Assessment	1	19-Dec-14 A	19-Dec-14 A	Atmospheric Emmissions Assessment																											
PC6850	Soil & Groundwater Assessment	1	20-Feb-15 A	20-Feb-15 A	Soil & Groundwater Assessment																											
PC6860	Waste Water Discharge Assessment	1	19-Dec-14 A	19-Dec-14 A	Waste Water Discharge Assessment																											
PC6880	FMEA Study Report	1	18-Dec-14 A	18-Dec-14 A	FMEA Study Report																											
PC6890	Effluent List/ Emissions Summary Report	27	18-Aug-14 A	09-Oct-14 A	Effluent List/ Emissions Summary Report																											
3rd Party Input to DECC Deliverables					20-Feb-15 A, 3rd Party Input to DECC Deliverables																											
PC8080	Emergency Response Plan	35	20-Jun-14 A	20-Jun-14 A	Emergency Response Plan																											
PC6590	HSSE & SP Hazards & Effects Register	41	27-Jun-14 A	27-Aug-14 A	HSSE & SP Hazards & Effects Register																											
PC6600	Design ALARP Demonstration Report (Design HSSE & SP Case)	35	13-Oct-14 A	20-Feb-15 A	Design ALARP Demonstration Report (Design HSSE & SP Case)																											
PC6610	Process Safety Review (eg HAZOP) Report	45	06-Oct-14 A	23-Jan-15 A	Process Safety Review (eg HAZOP) Report																											
PC6620	HSSE & SP Activity Plan for FEED Phase	38	26-Mar-14 A	03-Jun-14 A	HSSE & SP Activity Plan for FEED Phase																											
PC6670	Hazardous Area Classification Drawings	72	26-Aug-14 A	08-Dec-14 A	Hazardous Area Classification Drawings																											
PC6770	Hazardous Area Classification Schedule	36	30-Jun-14 A	14-Aug-14 A	Hazardous Area Classification Schedule																											
Operations & Maintenance					12-Jan-15 A, Operations & Maintenance																											
3rd Party Input to Bidders Deliverables					18-Dec-14 A, 3rd Party Input to Bidders Deliverables																											
PC6940	Surveillance, Metering & Allocation Design Package	1	18-Dec-14 A	18-Dec-14 A	Surveillance, Metering & Allocation Design Package																											
PC6950	Operability Review	1	18-Dec-14 A	18-Dec-14 A	Operability Review																											
3rd Party Input to DECC Deliverables					12-Jan-15 A, 3rd Party Input to DECC Deliverables																											
PC6900	Spare Parts Strategy	87	06-Jun-14 A	28-Dec-14 A	Spare Parts Strategy																											
PC6910	Commissioning and Start-up (CSU) Plan	56	27-Jun-14 A	04-Sep-14 A	Commissioning and Start-up (CSU) Plan																											
PC6920	Operations & Maintenance Philosophy	46	07-Jul-14 A	16-Sep-14 A	Operations & Maintenance Philosophy																											
PC6930	Logistics and Infrastructure Project Execution Plan	83	09-Jun-14 A	05-Dec-14 A	Logistics and Infrastructure Project Execution Plan																											
PC6960	Capital Insurance Spares Study Report	43	10-Sep-14 A	12-Jan-15 A	Capital Insurance Spares Study Report																											
Project Engineering					20-Feb-15 A, Project Engineering																											
3rd Party Input to Bidders Deliverables					20-Feb-15 A, 3rd Party Input to Bidders Deliverables																											
PC7080	Final Basis of Design (inc. stage options analysis)	85	31-Mar-14 A	13-Jun-14 A	Final Basis of Design (inc. stage options analysis)																											
PC7100	Monthly Project Management Report	90	04-Apr-14 A	20-Feb-15 A	Monthly Project Management Report																											
PC7110	FEED Closeout Report	45	19-Feb-15 A	20-Feb-15 A	FEED Closeout Report																											
PC7120	FEED Execution Plan	134	31-Mar-14 A	20-Jun-14 A	FEED Execution Plan																											
PC7130	FEED Lessons Learned Report	176	02-Jun-14 A	20-Feb-15 A	FEED Lessons Learned Report																											
PC7160	Design Risk Management Plan	1	20-Feb-15 A	20-Feb-15 A	Design Risk Management Plan																											
PC7170	Single/ Multi Discipline Design Review Reports	46	14-Jul-14 A	20-Feb-15 A	Single/ Multi Discipline Design Review Reports																											
3rd Party Input to DECC Deliverables					19-Jan-15 A, 3rd Party Input to DECC Deliverables																											
PC7020	Constructability Report - Updated	68	25-Apr-14 A	24-Sep-14 A	Constructability Report - Updated																											
PC7030	Construction Mgt Plans (including HSSE)	82	27-Jun-14 A	17-Oct-14 A	Construction Mgt Plans (including HSSE)																											
PC7040	Interface Management Plan	61	31-Mar-14 A	20-Jun-14 A	Interface Management Plan																											
PC7050	Basic Design and Engineering Package	31	24-Nov-14 A	19-Jan-15 A	Basic Design and Engineering Package																											
PC7060	Reliability, Availability and Maintainability Report	87	06-Jun-14 A	06-Jan-15 A	Reliability, Availability and Maintainability Report																											
PC7070	Risk & Opportunity Management Plan	76	10-Mar-14 A	09-May-14 A	Risk & Opportunity Management Plan																											
PC7090	Technical Risk Register	109	28-Jul-14 A	09-Jan-15 A	Technical Risk Register																											
QA					20-Feb-15 A, QA																											
3rd Party Input to Bidders Deliverables					20-Feb-15 A, 3rd Party Input to Bidders Deliverables																											
PC7210	Audit & Review Plan	10	24-Mar-14 A	16-May-14 A	Audit & Review Plan																											
PC7220	Audit Reports	71	15-Aug-14 A	28-Nov-14 A	Audit Reports																											

█ Remaining Level of Effort
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 Remaining Work
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FEED Phase - Level 3 Schedule



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FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
A6300	Static Model Reports	20	24-Feb-14 A	21-Mar-14 A	[Gantt bar: Feb-Mar-14]																											
A6310	Petrophysical Modelling Report	20	24-Feb-14 A	21-Mar-14 A	[Gantt bar: Feb-Mar-14]																											
A6320	SCAL Report, Geomech/ RTM Core Analysis Report	20	24-Feb-14 A	21-Mar-14 A	[Gantt bar: Feb-Mar-14]																											
PC654	Well Integrity Assessment Report	105	24-Feb-14 A	08-Aug-14 A	[Gantt bar: Feb-Aug-14]																											
PC664	Geomechanics Report	20	24-Feb-14 A	04-Apr-14 A	[Gantt bar: Feb-Apr-14]																											
A6330	Geochemical Reactivity Report	20	24-Feb-14 A	21-Mar-14 A	[Gantt bar: Feb-Mar-14]																											
A6340	PVT Report (Incl. Reservoir Engineering)	20	24-Feb-14 A	21-Mar-14 A	[Gantt bar: Feb-Mar-14]																											
A6350	Initial In Place Volumes Estimate (Incl. Reservoir Engineering)	20	24-Feb-14 A	21-Mar-14 A	[Gantt bar: Feb-Mar-14]																											
A6360	Dynamic Modelling Report	20	24-Mar-14 A	04-Jul-14 A	[Gantt bar: Mar-Jul-14]																											
Wells			235	24-Feb-14 A	29-Jan-16	[Gantt bar: Feb-2014 to Jan-2016]																										
Storage / Wells			235	24-Feb-14 A	29-Jan-16	[Gantt bar: Feb-2014 to Jan-2016]																										
Activities			235	24-Feb-14 A	29-Jan-16	[Gantt bar: Feb-2014 to Jan-2016]																										
A6080	Wireline/ Coiled Tubing Intervention Plans for Pure CO2	210	31-Mar-14 A	23-Oct-15 A	[Gantt bar: Mar-2014 to Oct-2015]																								29-Jan-16, Wells			
A6020	Rig and workover qualification definition and plans for pure CO2 [detailed de	125	04-Aug-14 A	20-Feb-15 A	[Gantt bar: Aug-2014 to Feb-2015]																								29-Jan-16, Storage /			
A6050	SSSV testing procedure	89	28-Apr-14 A	23-Jan-15 A	[Gantt bar: Apr-2014 to Jan-2015]																								29-Jan-16, Activities			
A6060	Further "transient" well analyses (Olga modelling; temperature behaviour, S	109	24-Mar-14 A	30-Jan-15 A	[Gantt bar: Mar-2014 to Jan-2015]																								Wireline/ Coiled Tubing Intervention Plans for			
A6120	Well related corrective measures (detailed example plans/scenarios)	25	24-Feb-14 A	03-Nov-14 A	[Gantt bar: Feb-2014 to Nov-2014]																								Rig and workover qualification definition and plans for pure CO2 [detailed design]			
A9050	Casing/ Tubing Design (welcat)	45	05-May-14 A	24-Apr-15 A	[Gantt bar: May-2014 to Apr-2015]																								SSSV testing procedure			
A6380	Rig Survey - Seabed	10	24-Mar-14 A	23-May-14 A	[Gantt bar: Mar-May-14]																								Further "transient" well analyses (Olga modelling; temperature behaviour, SSSV)			
A6370	Wellhead Cooling	48	24-Feb-14 A	30-Oct-15	[Gantt bar: Feb-2014 to Oct-2015]																								Well related corrective measures (detailed example plans/scenarios)			
A8080	3rd Party Testing - 13Cr Tubulars Testing (Temperature/ Corrosion)	20	28-Apr-14 A	17-Nov-15	[Gantt bar: Apr-2014 to Nov-2015]																								Casing/ Tubing Design (welcat)			
A6070	Assurance reviews: actions follow-up	196	03-Mar-14 A	26-Nov-15	[Gantt bar: Mar-2014 to Nov-2015]																								Rig Survey - Seabed			
A8090	Technology Maturation Aspects of Well Engineering	125	14-Jul-14 A	30-Nov-15	[Gantt bar: Jul-2014 to Nov-2015]																								Wellhead Cooling			
A6270	Well Related Corrective Measures (costings)	14	04-Aug-14 A	30-Nov-15	[Gantt bar: Aug-2014 to Nov-2015]																								3rd Party Testing - 13Cr Tubulars Testi			
A6090	Senior CWI Lifecycle Design Engineer	210	03-Mar-14 A	18-Dec-15	[Gantt bar: Mar-2014 to Dec-2015]																								Assurance reviews: actions follow-up			
A6030	Jack-up rig selection /procurement (in case of well operations in year post I	40	14-Jul-14 A	29-Jan-16	[Gantt bar: Jul-2014 to Jan-2016]																								Technology Maturation Aspects of V			
A6130	Material selection review	152	28-Apr-14 A	29-Jan-16	[Gantt bar: Apr-2014 to Jan-2016]																								Well Related Corrective Measures (Senior CWI Lifecycle Design En			
Bidders Own Deliverables			184	24-Mar-14 A	23-Jan-15 A	[Gantt bar: Mar-2014 to Jan-2015]																										
A8110	Detailed Well Design Endorsement Report	15	14-Jul-14 A	23-Jan-15 A	[Gantt bar: Jul-2014 to Jan-2015]																								Jack-up rig selection			
A6110	Production Chemistry (hydrates inhibition)	65	24-Mar-14 A	14-Nov-14 A	[Gantt bar: Mar-Nov-14]																								Material selection rev			
DECC Deliverables			225	24-Feb-14 A	06-Feb-15 A	[Gantt bar: Feb-2014 to Feb-2015]																										
A6390A	Detailed Completions and Well Intervention Design Endorsement Report	210	24-Feb-14 A	12-Dec-14 A	[Gantt bar: Feb-2014 to Dec-2014]																								23-Jan-15 A, Bidders Own Deliverables			
A8130	Well operation guidelines (incl chemicals requirements)	15	04-Aug-14 A	06-Feb-15 A	[Gantt bar: Aug-2014 to Feb-2015]																								Detailed Well Design Endorsement Report			
A6040	Detailed Well Design (selection of components: production packer, SSSV, F	225	24-Feb-14 A	19-Dec-14 A	[Gantt bar: Feb-2014 to Dec-2014]																								Production Chemistry (hydrates inhibition)			
A6100	Well & Reservoir Management Plan	64	01-Sep-14 A	24-Oct-14 A	[Gantt bar: Sep-2014 to Oct-2014]																								06-Feb-15 A, DECC Deliverables			
PC507	CWI Value Challenge - Technical Limit Design & Execution	20	05-May-14 A	25-Jul-14 A	[Gantt bar: May-Jul-14]																								Detailed Completions and Well Intervention Design Endorsement Report			
A8150	Fluid Flow Assurance	130	03-Mar-14 A	25-Jul-14 A	[Gantt bar: Mar-Jul-14]																								Well operation guidelines (incl chemicals requirements)			
A8100	Well & Reservoir Management Plan [Final]	15	15-Sep-14 A	19-Dec-14 A	[Gantt bar: Sep-2014 to Dec-2014]																								Detailed Well Design (selection of components: production packer, SSSV, PDG, annulus, etc.)			
A8140	Conceptual Completions & Well Intervention Design Report	35	24-Feb-14 A	28-Mar-14 A	[Gantt bar: Feb-Mar-14]																								Well & Reservoir Management Plan			
A8160	Completion Concept Select	35	24-Feb-14 A	28-Mar-14 A	[Gantt bar: Feb-Mar-14]																								Well & Reservoir Management Plan [Final]			
A8170	Well Functional Specification	35	24-Feb-14 A	25-Apr-14 A	[Gantt bar: Feb-Apr-14]																								Fluid Flow Assurance			
A9280	Well & Reservoir Management Plan [Strategy]	20	24-Mar-14 A	28-Mar-14 A	[Gantt bar: Mar-Mar-14]																								Well & Reservoir Management Plan [Final]			
A12570	Well Technical Specification	95	01-Sep-14 A	23-Jan-15 A	[Gantt bar: Sep-2014 to Jan-2015]																								Conceptual Completions & Well Intervention Design Report			
Offshore - Platform			405	07-Apr-14 A	30-Oct-15	[Gantt bar: Apr-2014 to Oct-2015]																										
Platform			405	07-Apr-14 A	30-Oct-15	[Gantt bar: Apr-2014 to Oct-2015]																										
HSE			405	07-Apr-14 A	30-Oct-15	[Gantt bar: Apr-2014 to Oct-2015]																										
HSE001			55	07-Apr-14 A	27-Jun-14 A	[Gantt bar: Apr-Jun-14]																										
A12050	Health Management Plan	35	07-Apr-14 A	30-May-14 A	[Gantt bar: Apr-May-14]																								30-Oct-15 Offshore - Platform			
A6980A	HSSE Premises	35	05-May-14 A	27-Jun-14 A	[Gantt bar: May-Jun-14]																								30-Oct-15 Platform			
HSE003			110	01-Jun-15 A	30-Oct-15	[Gantt bar: Jun-2015 to Oct-2015]																										
DECC Deliverables			110	01-Jun-15 A	30-Oct-15	[Gantt bar: Jun-2015 to Oct-2015]																										
A4130A	Emergency Response Plan	110	01-Jun-15 A	30-Oct-15	[Gantt bar: Jun-2015 to Oct-2015]																								30-Oct-15 HSE			
Methonal from St Fergus			130	29-Sep-14 A	09-Mar-15 A	[Gantt bar: Sep-2014 to Mar-2015]																										

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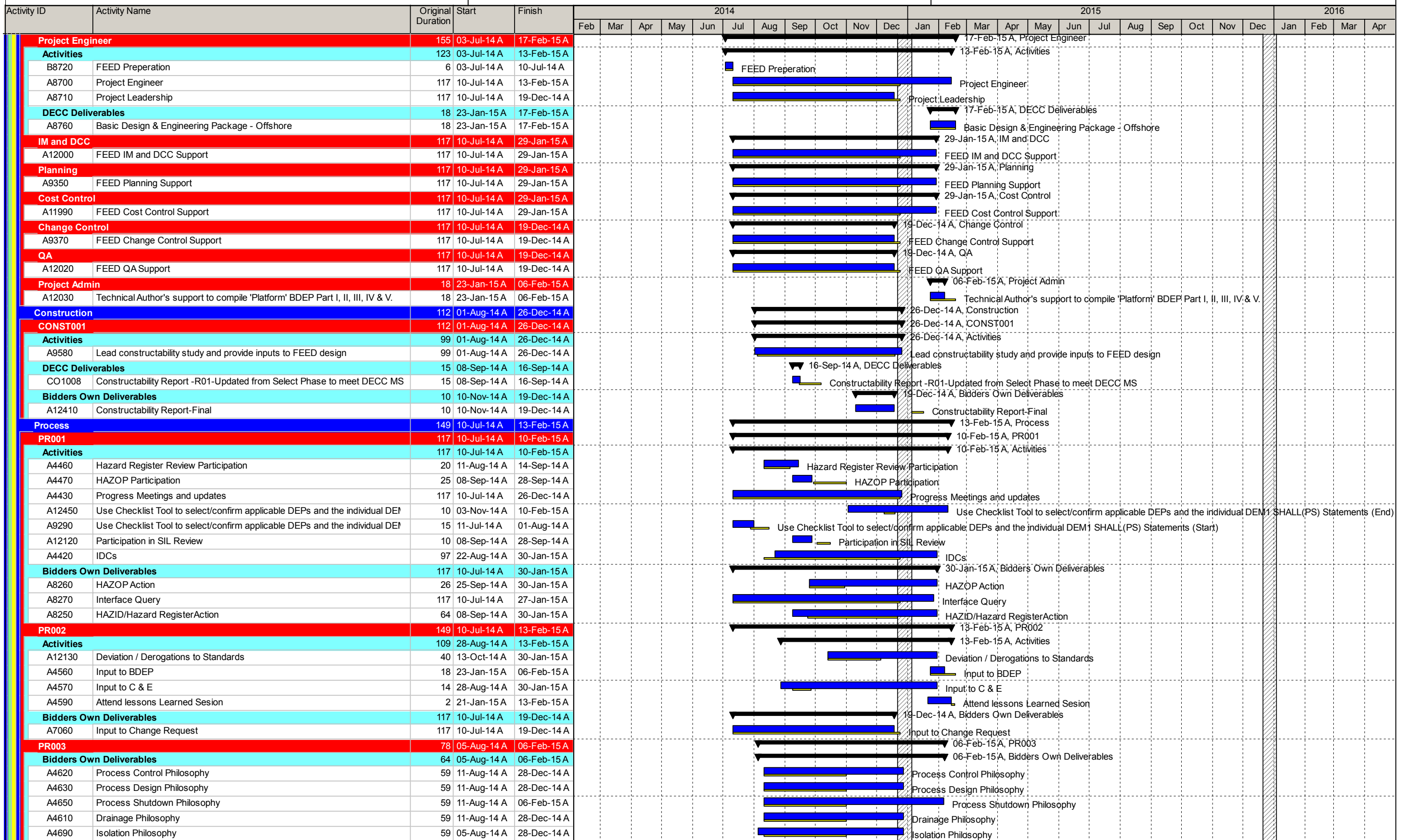
FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016					
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr			
Milestones					09-Mar-15 A, Milestones																													
METM01	PCCS Methanol from St Fergus - Kick-off	0	29-Sep-14 A	09-Mar-15 A	◆ PCCS Methanol from St Fergus - Kick-off																													
METM02	Methanol - HAZID	0		11-Nov-14 A	◆ Methanol - HAZID																													
METM03	Methanol - HAZOP Workshop Complete	0		27-Nov-14 A	◆ Methanol - HAZOP Workshop Complete																													
METM04	Methanol - PFS/ UFS R01 Issue	0	24-Oct-14 A		◆ Methanol - PFS/ UFS R01 Issue																													
METM05	Methanol - PEFS/ UEFS R01 Issue	0	03-Nov-14 A		◆ Methanol - PEFS/ UEFS R01 Issue																													
METM06	Methanol - PEFS/ UEFS R02 Issue for HAZOP	0	25-Nov-14 A		◆ Methanol - PEFS/ UEFS R02 Issue for HAZOP																													
METM07	Methanol - PEFS/ UEFS A01 Final Issue	0		23-Jan-15 A	◆ Methanol - PEFS/ UEFS A01 Final Issue																													
METM08	Methanol - BDEP Issued A01	0		09-Mar-15 A	◆ Methanol - BDEP Issued A01																													
METM09	Methanol - FEED Complete	0		09-Mar-15 A	◆ Methanol - FEED Complete																													
Project Management					06-Mar-15 A, Project Management																													
MET001	Methanol - Project Management, Project Services, IM and QA	93	29-Sep-14 A	06-Mar-15 A	Methanol - Project Management, Project Services, IM and QA																													
General					06-Mar-15 A, General																													
MET030	Methanol - Multi Discipline - General Project Activities	93	29-Sep-14 A	22-Feb-15 A	Methanol - Multi Discipline - General Project Activities																													
MET040	Methanol - Multi Discipline - Input to BDEP	25	21-Jan-15 A	06-Mar-15 A	Methanol - Multi Discipline - Input to BDEP																													
MET100	Methanol - Multi Discipline - Site Visit	2	20-Oct-14 A	23-Oct-14 A	Methanol - Multi Discipline - Site Visit																													
HSE					22-Feb-15 A, HSE																													
MET150	Methanol - HSE Deliverables	66	27-Oct-14 A	22-Feb-15 A	Methanol - HSE Deliverables																													
Process					22-Feb-15 A, Process																													
MET050	Methanol - Process Deliverables - Design Philosophies and Calculations	63	29-Sep-14 A	20-Feb-15 A	Methanol - Process Deliverables - Design Philosophies and Calculations																													
MET060	Methanol - Process Deliverables - Philosophies and Reports	40	27-Oct-14 A	22-Feb-15 A	Methanol - Process Deliverables - Philosophies and Reports																													
MET070	Methanol - Process Deliverables - Process / Utility Engineering Flow Schem	48	02-Oct-14 A	22-Feb-15 A	Methanol - Process Deliverables - Process / Utility Engineering Flow Schem																													
MET080	Methanol - Process Deliverables - Safeguarding Memorandum & Flow Sche	39	31-Oct-14 A	22-Feb-15 A	Methanol - Process Deliverables - Safeguarding Memorandum & Flow Sche																													
Piping					06-Mar-15 A, Piping																													
MET300	Methanol - Piping - Plant Layout and Constructability Review	2	04-Feb-15 A	05-Feb-15 A	Methanol - Piping - Plant Layout and Constructability Review																													
MET285	Methanol - Piping Activities - Model Development, P&ID Input, IDC & PEFS F	33	03-Nov-14 A	22-Feb-15 A	Methanol - Piping Activities - Model Development, P&ID Input, IDC & PEFS F																													
MET320	Methanol - Piping Deliverables	36	07-Jan-15 A	06-Mar-15 A	Methanol - Piping Deliverables																													
PDMS					22-Feb-15 A, PDMS																													
MET250	Methanol - PDMS Activities - General	40	07-Jan-15 A	22-Feb-15 A	Methanol - PDMS Activities - General																													
Civil Structural					23-Jan-15 A, Civil Structural																													
MET350	Methanol - Civil Structural Deliverables	33	07-Jan-15 A	23-Jan-15 A	Methanol - Civil Structural Deliverables																													
Instruments					22-Feb-15 A, Instruments																													
MET130	Methanol - Instruments - Deliverables - SIL Assessment Report	10	20-Oct-14 A	22-Feb-15 A	Methanol - Instruments - Deliverables - SIL Assessment Report																													
MET120	Methanol - Instruments - Deliverables	73	20-Oct-14 A	22-Feb-15 A	Methanol - Instruments - Deliverables																													
Electrical					06-Mar-15 A, Electrical																													
MET270	Methanol - Electrical Deliverables	52	03-Nov-14 A	06-Mar-15 A	Methanol - Electrical Deliverables																													
Rotating					22-Feb-15 A, Rotating																													
MET240	Methanol - Rotating Deliverables	30	07-Jan-15 A	22-Feb-15 A	Methanol - Rotating Deliverables																													
Static					06-Mar-15 A, Static																													
MET210	Methanol - Static Deliverables	60	20-Oct-14 A	06-Mar-15 A	Methanol - Static Deliverables																													
Materials					22-Feb-15 A, Materials																													
MET180	Methanol - Materials Deliverables	30	01-Dec-14 A	22-Feb-15 A	Methanol - Materials Deliverables																													
Construction					20-Feb-15 A, Construction																													
MET020	Methanol - Construction - Constructability Report - Final	11	18-Feb-15 A	20-Feb-15 A	Methanol - Construction - Constructability Report - Final																													
PCCS Goldeneye Modification FEED- Level 3 Schedule Fin					17-Feb-15 A, PCCS Goldeneye Modification FEED- Level 3 Schedule Final Copy (Scope complete)																													
Offshore - Platform (Design Office)					17-Feb-15 A, Offshore - Platform (Design Office)																													
Platform					17-Feb-15 A, Platform																													
Design Office Milestones					17-Feb-15 A, Design Office Milestones																													
A10090	Constructability Report Final-A01	0		19-Dec-14 A	◆ Constructability Report Final-A01																													
A9750	Weight Report A01	0		17-Dec-14 A	◆ Weight Report A01																													
A9760	Start Input to EA113 Estimate	0		14-Jan-15 A	◆ Start Input to EA113 Estimate																													
A10020	Metering Philosophy A01	0		28-Nov-14 A	◆ Metering Philosophy A01																													
A10070	Updated Material Selection A01	0		18-Dec-14 A	◆ Updated Material Selection A01																													

█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remaining ...
▬ Primary Baseline
 █ Remaining Work
 ◆ Baseline Milestone

As-Built

FEED Phase - Level 3 Schedule



As-Built

FEED Phase - Level 3 Schedule

Activity ID	Activity Name	Original Duration	Start	Finish	2014												2015												2016			
					Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Activities					23-Jan-15 A, Activities																											
A7860	Mechanical handling study / construction liaison	84	07-Aug-14 A	23-Jan-15 A	Mechanical handling study / construction liaison																											
A7870	walk to work deployment study / interface with marine	69	07-Aug-14 A	23-Jan-15 A	walk to work deployment study / interface with marine																											
A5160	Interface with structural integrity model holders (AES)	35	13-Oct-14 A	19-Jan-15 A	Interface with structural integrity model holders (AES)																											
A5170	Interface with structural integrity TA	49	25-Aug-14 A	16-Jan-15 A	Interface with structural integrity TA																											
A7300	Interface with marine specialist (STASCO)	49	07-Aug-14 A	16-Jan-15 A	Interface with marine specialist (STASCO)																											
A7790	PDMS model	15	13-Oct-14 A	23-Jan-15 A	PDMS model																											
A7850	Discipline weight estimate	69	08-Sep-14 A	15-Jan-15 A	Discipline weight estimate																											
Bidders Own Deliverables					23-Jan-15 A, Bidders Own Deliverables																											
A7920	PDMS Model Technical Note	49	13-Oct-14 A	23-Jan-15 A	PDMS Model Technical Note																											
A7930	Discipline Delivery Plan	8	20-Nov-14 A	15-Jan-15 A	Discipline Delivery Plan																											
A7540	Offshore Structure Weight Management Estimate R01	10	11-Jul-14 A	30-Oct-14 A	Offshore Structure Weight Management Estimate R01																											
A7590	Offshore Structure Weight Management Estimate R02	20	19-Sep-14 A	20-Oct-14 A	Offshore Structure Weight Management Estimate R02																											
A7310	Offshore Structure Weight Management Estimate A01	20	27-Oct-14 A	27-Nov-14 A	Offshore Structure Weight Management Estimate A01																											
A7320	General Arrangement - Civil/ Structural	10	09-Dec-14 A	17-Dec-14 A	General Arrangement - Civil/ Structural																											
A7330	Topside in Place Analysis Review	79	22-Jul-14 A	23-Jan-15 A	Topside in Place Analysis Review																											
A7350	Structural Monitoring Plan	10	23-Jul-14 A	16-Jan-15 A	Structural Monitoring Plan																											
A7370	Equipment Installation Study Report	15	10-Nov-14 A	23-Jan-15 A	Equipment Installation Study Report																											
A7380	FEED Design Report	36	27-Oct-14 A	23-Jan-15 A	FEED Design Report																											
A7760	Vent Stack Analysis review	15	10-Nov-14 A	23-Jan-15 A	Vent Stack Analysis review																											
A12280	Substructure In-Place Analysis review	10	22-Jul-14 A	08-Jan-15 A	Substructure In-Place Analysis review																											
A7880	Fatigue analysis review	10	11-Jul-14 A	12-Jan-15 A	Fatigue analysis review																											
A7890	Accidental Load Analysis	10	22-Jul-14 A	16-Jan-15 A	Accidental Load Analysis																											
A7900	Life Extension Assessment	10	22-Jul-14 A	16-Jan-15 A	Life Extension Assessment																											
A7910	Mechanical Handling Assessment	45	06-Oct-14 A	23-Jan-15 A	Mechanical Handling Assessment																											
MOC					16-Jan-15 A, MOC																											
MOCCS1	Structural Screening exercise for proposed Extension of Design Life from 11	10	22-Jul-14 A	16-Jan-15 A	Structural Screening exercise for proposed Extension of Design Life from 10 to 20 (or 15) Years																											
MOCCS2	VENT STACK FATIGUE ANALYSIS WORK BY AES (asset integrity model h	10	22-Jul-14 A	29-Aug-14 A	VENT STACK FATIGUE ANALYSIS WORK BY AES (asset integrity model holder)																											
Piping					13-Feb-15 A, Piping																											
PL001					22-Jan-15 A, PL001																											
Activities					22-Jan-15 A, Activities																											
A4920	Plant layout review	147	10-Jul-14 A	22-Jan-15 A	Plant layout review																											
A7190	Constructability review	4	03-Nov-14 A	06-Nov-14 A	Constructability review																											
A7200	IDC and Live PEFS reviews	1	30-Oct-14 A	30-Oct-14 A	IDC and Live PEFS reviews																											
A7210	Bi-weekly interdiscipline model review	69	22-Aug-14 A	24-Nov-14 A	Bi-weekly interdiscipline model review																											
A12460	Use Checklist Tool to select/confirm applicable DEPs and the individual DE	117	10-Jul-14 A	19-Dec-14 A	Use Checklist Tool to select/confirm applicable DEPs and the individual DEM1 SHALL(PS) Statements (end)																											
A9300	Use Checklist Tool to select/confirm applicable DEPs and the individual DE	8	14-Jan-15 A	22-Jan-15 A	Use Checklist Tool to select/confirm applicable DEPs and the individual DEM1 SHALL(PS) Statements (Start)																											
A4890	Weekly Progress meeting / reporting	10	28-Jul-14 A	22-Aug-14 A	Weekly Progress meeting / reporting																											
A4900	Inter-discipline work liaison	117	10-Jul-14 A	18-Dec-14 A	Inter-discipline work liaison																											
A4910	HAZID/Hazard Register attendance	117	10-Jul-14 A	09-Jan-15 A	HAZID/Hazard Register attendance																											
PL002					13-Feb-15 A, PL002																											
Activities					13-Feb-15 A, Activities																											
A8391	Attend Lessons Learned Sessions	149	11-Aug-14 A	13-Feb-15 A	Attend Lessons Learned Sessions																											
A8371	Input to BDEP	117	15-Jan-15 A	13-Feb-15 A	Input to BDEP																											
Bidders Own Deliverables					06-Feb-15 A, Bidders Own Deliverables																											
A12210	Discipline Delivery Plan	18	23-Jan-15 A	06-Feb-15 A	Discipline Delivery Plan																											
A4950	Facilities Layout Report	20	11-Aug-14 A	28-Aug-14 A	Facilities Layout Report																											
A12200	Layout Review Report	20	24-Nov-14 A	23-Jan-15 A	Layout Review Report																											
A4960	Layout Review Terms of Reference	15	17-Nov-14 A	28-Dec-14 A	Layout Review Terms of Reference																											
A7230	Piping Class Selection Report	10	06-Oct-14 A	31-Oct-14 A	Piping Class Selection Report																											
A7240	Stress Shape approval	55	11-Aug-14 A	16-Jan-15 A	Stress Shape approval																											
A7250	Valve Schedule	40	22-Sep-14 A	23-Jan-15 A	Valve Schedule																											
A7260	Piping Bulk BoM	25	27-Oct-14 A	28-Dec-14 A	Piping Bulk BoM																											
A7270	Discipline Weight Estimate	21	14-Nov-14 A	06-Feb-15 A	Discipline Weight Estimate																											
DECC Deliverables					19-Dec-14 A, DECC Deliverables																											

█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remaining ...
 Primary Baseline
 Remaining Work
 ◆ Baseline Milestone

As-Built

FEED Phase - Level 3 Schedule

Activity ID, Activity Name, Original Duration, Start, Finish, 2014 (Feb-Apr), 2015 (Jan-Mar), 2016 (Jan-Apr). Includes activities like Major Tie-ins Schedule, PL003, PDMS, MOC, PDMS, PD001, Electrical, Static, ST001, DECC Deliverables, and Telecoms TE001.

Remaining Level of Effort, Actual Work, Critical Remaining..., Primary Baseline, Remaining Work, Baseline Milestone



APPENDIX 2. Bidders Project – Long Lead / Critical Materials Listing

Table A-1: Power Plant Long Lead / Critical Materials Listing

POWER PLANT			
Item	Dur.	Start	Finish
Manufacture & Deliver - Aux. Boiler System Package	80d	29-Aug-16	16-Dec-16
Order, Prepare & Deliver - Temporary Boilers	80d	08-Dec-16	06-Apr-17
Award, Manufacture & Deliver - Steam Turbine Generator	592d	30-Aug-16	02-Jan-19
Award, Manufacture & Deliver - Cooling Water Booster Pumps (HP)	274d	25-Oct-16	20-Nov-17
Award, Manufacture & Deliver - Shop Built Tank (Fuel Oil Day Tank)	200d	29-Feb-16	02-Dec-16
Award, Procure, Manufacture & Deliver - Deaerator (Aux. Boiler)	174d	14-Mar-16	10-Nov-16
Award, Manufacture & Deliver - Vessels & Drums	274d	25-Oct-16	20-Nov-17
Award, Manufacture & Deliver - Shell & Tube Heat Exchangers	259d	18-Oct-16	23-Oct-17
Award, Manufacture & Deliver - Electric Heater (Glen Steam Superheater)	179d	25-Oct-16	10-Jul-17
Award, Manufacture & Deliver - Aux. Boiler Chemical Treatment & Phosphate Dosing	210d	29-Feb-16	16-Dec-16
Award, Engineer, Manufacture & Deliver – SCR	210d	11-Oct-16	08-Aug-17
Award, Manufacture & Deliver - Instrument Air Compressor & Air Dryer	334d	08-Nov-16	07-Mar-18
Manufacture, Programming, FAT, Deliver - DCS Modifications	235d	08-Feb-17	02-Jan-18
Award, Manufacture & Deliver - In-Line Instruments	261d	08-Feb-17	07-Feb-18
Award, Manufacture & Deliver - Instrument Cable	215d	17-May-17	13-Mar-18
Award, Manufacture & Deliver - Switchgear Mods (Incl Cooling Water System)	185d	20-Dec-16	12-Sep-17
Award, Manufacture & Deliver - Electrical Fiscal Metering (Export)	190d	18-Jan-17	10-Oct-17

Table A-2: Capture and Compression Plant Long Lead / Critical Materials Listing

CAPTURE AND COMPRESSION PLANT			
Item	Dur.	Start	Finish
Award, Manufacture & Deliver - High Power Centrifugal Water Pumps (Closed Loop Circulation)	274d	11-Jul-16	04-Aug-17
Award, Manufacture & Deliver - Positive Control Displacement Pumps	274d	18-Jul-16	11-Aug-17
Award, Manufacture & Deliver - API 610 Pumps	387d	25-Jul-16	02-Feb-18
Award, Manufacture & Deliver - Sealless Pumps	219d	25-Jul-16	02-Jun-17
Award, Manufacture & Deliver - Booster Fans	339d	08-Aug-16	01-Dec-17
Award, Manufacture & Deliver - Regen Gas Compressor	294d	08-Aug-16	29-Sep-17
Award, Manufacture & Deliver - CO ₂ Compressor Package	410d	16-Aug-16	29-Mar-18
Award, Manufacture & Deliver - Column Internals (Packing & Trays) (C2001/2 & C2201/2/3)	452d	01-Aug-16	11-May-18
Award, Manufacture & Deliver - CO ₂ Stripper Column (C-2002)	339d	08-Aug-16	01-Dec-17
Award, Manufacture & Deliver - Column Internals DCC (C-1001)	304d	22-Aug-16	27-Oct-17
Award, Manufacture & Deliver - Vessels, Drums, Reactor, Small Columns	339d	22-Aug-16	15-Dec-17
Award, Manufacture & Deliver - Shop Built Tanks	259d	22-Aug-16	25-Aug-17
Award, Design, Ship - Direct Contact Cooler & CO ₂ Absorber Columns (EPC)	125d	27-Sep-16	28-Mar-17
Award, Manufacture & Deliver - Plate Heat Exchangers (Welded)	349d	22-Aug-16	09-Jan-18
Award, Manufacture & Deliver - Gas-Gas Heat Exchanger (E1001)	339d	22-Aug-16	15-Dec-17
Award, Manufacture & Deliver - Shell & Tube Heat Exchangers	259d	05-Sep-16	08-Sep-17
Award, Manufacture & Deliver - Plate & Frame Heat Exchs Gasketed Titanium (E1002, E4201)	264d	19-Sep-16	29-Sep-17
Award, Manufacture & Deliver - Plate & Frame Heat Exchs Gasketed S/S (E2007, E4102)	239d	19-Sep-16	25-Aug-17
Award, Manufacture & Deliver - Electric Heater (E3202)	179d	26-Sep-16	09-Jun-17
Award, Design, Procure, Manufacture & Deliver - ION Exchange (IX) Package -	533d	22-Aug-16	24-Sep-18



CAPTURE AND COMPRESSION PLANT				
Item	Dur.	Start	Finish	
Sole Source Cansolv)				
Award, Design, Procure, Manufacture & Deliver - Waste Water Treatment (to Inital Delivery)	300d	22-Aug-16	23-Oct-17	
Award, Manufacture & Deliver - Instrument Air Compressor & Air Dryer	334d	29-Aug-16	15-Dec-17	
Award, Manufacture & Deliver - Thermal Reclaimer Vacuum Packages (A2201/2)	319d	12-Sep-16	08-Dec-17	
Award, Manufacture & Deliver - Chemical Dosing Packages (A4251 & A3101)	304d	19-Sep-16	24-Nov-17	
Engineering, Manufacture & Deliver - Flue Gas Ducting (SSE Shutdown Requirement)	210d	18-Oct-16	15-Aug-17	
Award, Engineering, Manufacture & Deliver - Flue Gas Ducting (Initial Delivery)	358d	18-Oct-16	20-Mar-18	
Manufacture & Deliver - Waste Water Treatment (to Final Delivery)	103d	24-Oct-17	26-Mar-18	
Engineering, Manufacture & Deliver - Flue Gas Ducting (Final Delivery)	200d	21-Mar-18	03-Jan-19	
Award, Manufacture & Deliver - Filters & Coalescers	294d	12-Sep-16	03-Nov-17	
Award, Manufacture & Deliver - Major Steelwork	343d	08-Nov-16	20-Mar-18	
Award, Manufacture & Deliver - Underground Pipe & Material	265d	13-Dec-16	04-Jan-18	
Award, Manufacture & Deliver - Cooling Water Return Pipework (Area 7)	130d	13-Dec-16	12-Jun-17	
Award, Manufacture & Deliver - Initial Bulk Pipework & Materials	304d	13-Dec-16	28-Feb-18	
Manufacture & Deliver - Remaining Bulk Pipework & Materials	112d	01-Mar-18	03-Aug-18	
Award, Manufacture & Deliver - CO ₂ Metering System	279d	13-Dec-16	24-Jan-18	
Manufacture, Programming, FAT, Deliver - DCS	229d	11-Jan-17	27-Nov-17	
Award, Manufacture & Deliver - In-Line Instruments	255d	15-Mar-17	15-Mar-18	
Award, Manufacture & Deliver - Instrument Cable	215d	21-Jun-17	26-Apr-18	
Award, Manufacture & Deliver - Off-Line Instruments	185d	19-Jul-17	12-Apr-18	
Award, Manufacture & Deliver - Switchgear / Power Correction Factor & Transformers	215d	12-Dec-16	16-Oct-17	
Award, Manufacture & Deliver - Misc. Electrical Equipment	273d	03-Jan-17	29-Jan-18	
Award, Manufacture & Deliver - Cables (Initial)	185d	10-Feb-17	26-Oct-17	
Award, Manufacture & Deliver - Electrical Fiscal Metering (Import)	195d	17-Feb-17	16-Nov-17	
Award, Manufacture & Deliver - Telecomms System	188d	19-May-17	15-Feb-18	
Award, Manufacture & Deliver - Electrical Trace Heating & Bulks	143d	07-Jul-17	01-Feb-18	

Table A-3: Offshore Pipeline System Long Lead / Critical Materials Listing

OFFSHORE PIPELINE SYSTEM				
Item	Dur.	Start	Finish	
Procurement & Subcontract - Pre-Commissioning Services	114d	12-Jan-17	20-Jun-17	
Procurement & Subcontract - Subsea Mechanical Connector	216d	13-Feb-17	11-Dec-17	
Procurement & Subcontract - Fabrication Subcontract for PLR's	158d	12-May-17	19-Dec-17	
Procurement & Subcontract - Buoyancy Tanks / Buoyancy Modules	156d	12-May-17	15-Dec-17	

Table A-4: Storage Facility Long Lead / Critical Materials Listing

STORAGE FACILITY				
Goldeneye Topsides				
Item	Dur.	Start	Finish	
Manifold & Flowlines Construct - Procurement - Choke Valves	120d	15-Feb-17	01-Aug-17	
Process Construct - Procurement - Import, Pig Launcher, Flowmeter & Filter Package Long Lead Valves	162d	24-Oct-16	06-Jun-17	
Process Construct - Procurement - CO ₂ Filter Package	138d	23-Sep-16	04-Apr-17	
Process Construct - Procurement - Instrument XZV	120d	08-Feb-17	25-Jul-17	
Process Construct - Procurement - Flow Meter Package	100d	22-Feb-17	11-Jul-17	
Process Construct - Procurement - Control Valves	110d	22-Feb-17	25-Jul-17	
Vent Construct - Procurement - Instrument Bursting Discs	112d	19-Dec-16	23-May-17	



STORAGE FACILITY			
Goldeneye Topsides			
Item	Dur.	Start	Finish
ESD / F&G / DCS Construct - Procurement - System Modifications	132d	24-Oct-16	25-Apr-17
Methanol Construct - Instruments - Control Valves	110d	01-Mar-17	01-Aug-17
Subsurface & MMV			
Item	Dur.	Start	Finish
Subsurface & MMV - Engineering / Design / Manufacture Subsurface CO₂ Monitoring Equip.	400d	04-Jul-16	12-Jan-18

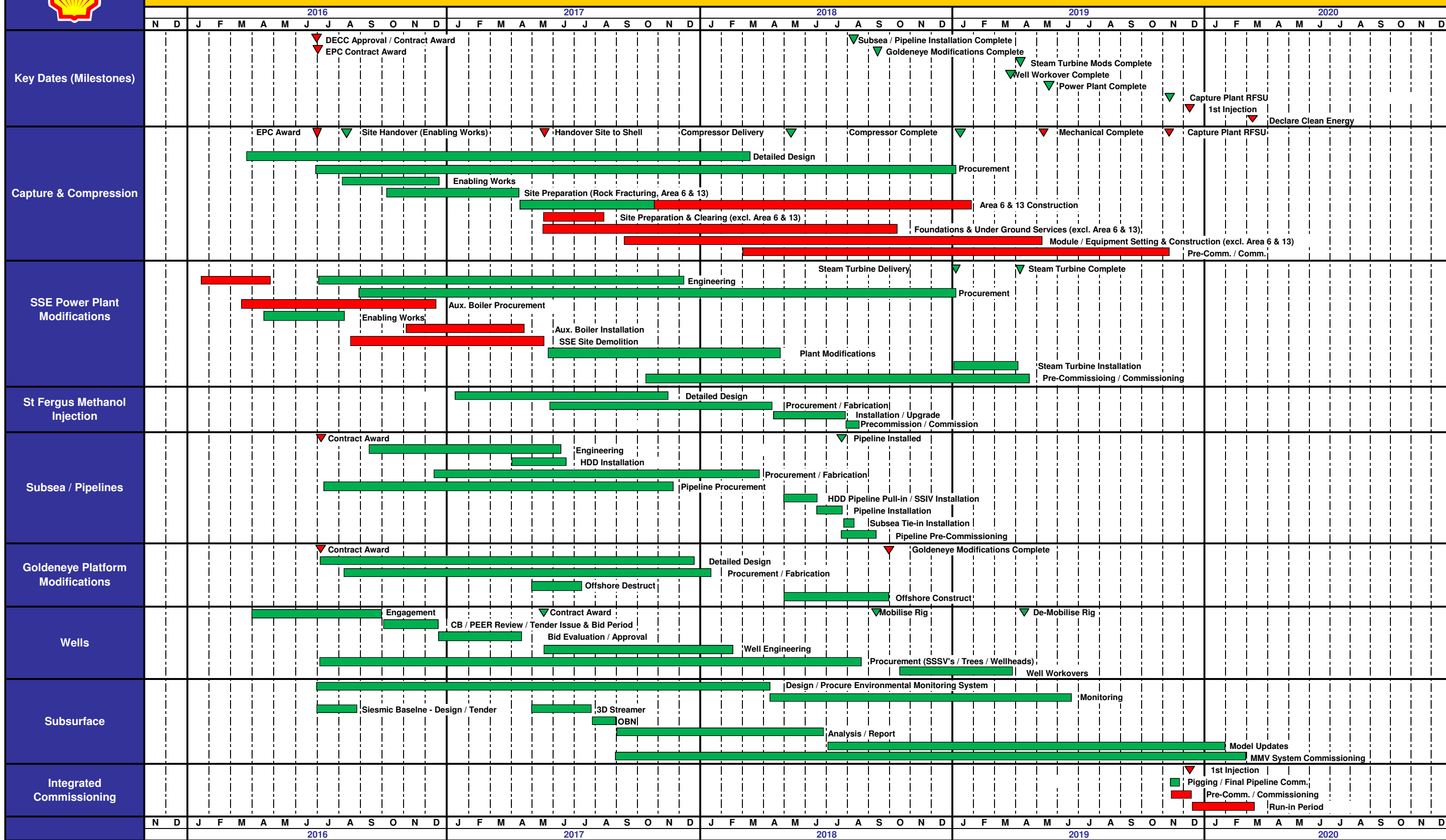


APPENDIX 3. Bidders Project – Level 1 Schedule

Peterhead CCS Project



Execute - Level 1 Integrated Schedule





APPENDIX 4. Bidders Project Level 3 Schedule

Peterhead CCS Project

Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Peterhead CCS - IES (Offshore EPC, LPS EPC, Pre-Investment)		1070d	14-Dec-15	06-Mar-20	0d																																																												
END TO END		070d	14-Dec-15	06-Mar-20	0d																																																												
Project Milestones		070d	14-Dec-15	06-Mar-20	0d																																																												
PM210	FID	0d	14-Dec-15*	06-Mar-20	37d																																																												
PM300	Pre-Investment Agreement (SSE Aux. Boiler Scope)	0d	18-Jan-16*		12d																																																												
PM310	Pre-Investment Agreement (Capture Plant / Wells Early Engineering)	0d	21-Mar-16*		2d																																																												
PM240	DECC Approval / Contract Award	0d		04-Jul-16*	0d																																																												
PM250	EPC Contract Award (s)	0d		04-Jul-16	0d																																																												
PM350	Power Plant - Construction Mechanical Completion	0d		03-Apr-19	98d																																																												
PM360	Carbon Capture Plant - Construction Mechanical Completion	0d		26-Apr-19	75d																																																												
PM220	Capture Plant RFSU	0d	07-Nov-19		1d																																																												
PM180	1st Injection	0d		04-Dec-19	0d																																																												
PM200	Declare Clean Energy	0d		05-Mar-20	0d																																																												
PM999	Project Complete	1d	05-Mar-20	06-Mar-20	0d																																																												
Key Project Activites		92d	04-Dec-19	05-Mar-20	0d																																																												
PM190	Run-in period	92d	04-Dec-19	05-Mar-20	0d																																																												
Onshore Site Handover		707d	08-Aug-16	24-Apr-19	141d																																																												
PM280	Site Handover 1 - CCS / Compression (SSE to Shell)	0d		08-Aug-16	159d																																																												
PM260	Site Handover 2 - Demolition Area (SSE to Shell)	0d		18-May-17	11d																																																												
PM370	Site Handover 3 - Duct Work (SSE to Shell)	0d		14-Nov-17	186d																																																												
PM290	Site Handover 4 - Duct Work (Shell to SSE)	0d		31-Jul-18	246d																																																												
PM380	Site Handover 5 - Completion of Power Station Functional Test (GTG power train fully commissione	0d		24-Apr-19	141d																																																												
Shut Downs		983d	29-Sep-16	09-Jun-19	178d																																																												
SD16-2	2016 - Station Outage 1	7d	29-Sep-16*	06-Oct-16	578d																																																												
SD17-1	2017 - Station Outage 2	44d	14-May-17*	27-Jun-17	358d																																																												
SD17-2	2017 - Station Outage 3	7d	26-Sep-17*	03-Oct-17	267d																																																												
SD18	2018 - Station Outage 4 (GT13)	7d	30-Sep-18*	07-Oct-18	379d																																																												
SD19	2019 - Station Outage 5	44d	26-Apr-19*	09-Jun-19	178d																																																												
Permits		983d	29-Jan-16	04-Dec-19	58d																																																												
Onshore Permits and Consents		948d	11-Mar-16	27-Nov-19	0d																																																												
Construction Design and Management		91d	11-Mar-16	18-Jul-16	108d																																																												
PERON001	CDM: Regulation 6 Notification - Generation	0d		11-Mar-16	124d																																																												
PERON005	CDM: Regulation 6 Notification - CCCC, Onshore section of Pipeline to MLWM	0d		18-Jul-16	108d																																																												
Onshore Pipeline		851d	04-Jul-16	04-Nov-19	0d																																																												
PERON015	Marine Works Licence	0d		04-Jul-16	652d																																																												
PERON010	Compliance with regulations	0d		04-Nov-19	0d																																																												
Electrical Grid Connection		375d	30-Oct-17	26-Apr-19	52d																																																												
PERON025	Electricity supply connection agreement - 132kV	0d		30-Oct-17	192d																																																												
PERON020	Bilateral Connection Agreement (variation)	0d		26-Apr-19	52d																																																												
Highways and Bypasses		438d	15-Apr-16	08-Jan-18	58d																																																												
PERON045	Temporary Restriction of Traffic on Roads and Bridges (temporary road closures, speed restrictions)	0d		15-Apr-16	67d																																																												
PERON050	Abnormal Load Special Types General Order (STGO) / Special Order & Indemnity	0d		15-Apr-16	67d																																																												
PERON060	Road Occupation Permit(any occupation in connection with building work)	0d		15-Apr-16	67d																																																												
PERON030	Consent to Alter Trunk Road Infrastructure	0d		03-Jun-16	99d																																																												
PERON055	Road Opening Permit (Excavations of a public road)	0d		03-Jun-16	99d																																																												
PERON040	Planning Permission (New road)	0d		04-Jul-16	99d																																																												
PERON035	Right of Way (RoW) closures	0d		22-Jul-16	99d																																																												
PERON065	Planning Permission (temporary removal of street furniture on public highways)	0d		08-Jan-18	58d																																																												
PERON070	Planning Consent (temporary removal of street furniture and infrastructure on privately owned land)	0d		08-Jan-18	58d																																																												
PERON075	Planning Consent (temporary removal / modification of overhead line equipment)	0d		08-Jan-18	58d																																																												
Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)		0d	22-Nov-19	22-Nov-19	0d																																																												
PERON080	Registration number for the constituents of amine solution DC201 (in tonnage band 1000 to 10000 t	0d		22-Nov-19	0d																																																												
Operational Pollution Prevention and Control		0d	22-Nov-19	22-Nov-19	0d																																																												
PERON085	PPC Permit: Variation - Generation	0d		22-Nov-19	0d																																																												
PERON090	PPC Permit - CCCC	0d		22-Nov-19	0d																																																												
Operational EU Emissions Trading Scheme (EU ETS)		0d	27-Nov-19	27-Nov-19	0d																																																												
PERON095	Greenhouse Gas Emissions Trading Permit (variation)	0d		27-Nov-19	0d																																																												
Operational Safety		914d	08-Apr-16	07-Nov-19	0d																																																												

█ Remaining Level of Effort
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Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
PC431	Commiss. and Start-up (CSU) Plan (final)	0d		03-Oct-17	610d																																																												
PC470	Operations Organisational Resourcing, Training & Competence Assurance Plan	0d		03-Oct-17	610d																																																												
PC475	Logistics & Infrastructure Transition and Operations Plans	0d		03-Oct-17	610d																																																												
PC440	CSU, Handover, Maintenance and Normal Operating Procedures	0d		03-Oct-17	610d																																																												
PC452	Performance Standards & Assurance for Safety Critical Element	0d		03-Oct-17	610d																																																												
PC1449	Utilities Engineering Flow Schemes (UEFS/P&IDs)	0d		03-Oct-17	610d																																																												
PC440.1	CSU, Handover, Maintenance and Normal Operating Procedures (Onshore)	0d		03-Oct-17	610d																																																												
PC1214.1	Process Engineering Flow Schemes (PEFS/P&IDs) (Onshore)	0d		03-Oct-17	610d																																																												
PC1434.1	Flawless Project Delivery Plan - Update for construction phase (Onshore)	0d		03-Oct-17	610d																																																												
PC1439	Well Proposal	0d	13-Oct-17		603d																																																												
PC440.4	CSU, Handover, Maintenance and Normal Operating Procedures (Wells)	0d	10-Nov-17		583d																																																												
PC452.4	Performance Standards & Assurance for Safety Critical Element (Wells)	0d	10-Nov-17		583d																																																												
PC1211.3	Relief, Flare and Vent Final Report (Wells)	0d	10-Nov-17		583d																																																												
PC492	Well Unloading Plan	0d	17-Nov-17		578d																																																												
PC648.2	Operations ALARP Demonstration Report (Operations HSSE Case) (Platform)	0d		13-Dec-17	559d																																																												
PC1247.2	Plot plans/ Mech.General Arrang. Drawings/ Fac. layout report (Platform)	0d		13-Dec-17	559d																																																												
PC1224	Chemicals Requirements Report - Updated	0d		04-Jan-18	550d																																																												
PC1434	Flawless Project Delivery Plan - Update for construction phase	0d		23-Jan-18	537d																																																												
PC1247.4	Plot plans/ Mech.General Arrang. Drawings/ Fac. layout report (Wells)	0d	13-Feb-18		523d																																																												
PC1451	Integr. Production System Model - update	0d		09-Mar-18	504d																																																												
PC648.4	Operations ALARP Demonstration Report (Operations HSSE Case) (Wells)	0d	13-Mar-18		503d																																																												
PC626.4	Technical Integrity Verification Report (Wells)	0d	10-Apr-18		483d																																																												
PC1172	Well Handover Document	0d	10-Apr-18		483d																																																												
PC486.4	Rel. Avail.& Maint. Report addressing sparing, RRM & turndown (final) (Wells)	0d	24-Apr-18		473d																																																												
Quarterly Payment Period Construction Milestones		906d	08-Aug-16	05-Mar-20	0d																																																												
QPPCM030	Signed PO - CO2 Compressor Package	0d		08-Aug-16	32d																																																												
QPPCM130	Power Plant Demolition Contractor Mobilisation	0d		15-Aug-16	929d																																																												
QPPCM050	Signed PO - Direct Contact Cooler	0d		26-Sep-16	898d																																																												
QPPCM060	Signed PO - CO2 Absorber Column	0d		26-Sep-16	898d																																																												
QPPCM010	PP Contractor Site Mobilisation	0d		03-Oct-16	893d																																																												
QPPCM020	CCS Contractor Site Mobilisation	0d		03-Oct-16	893d																																																												
QPPCM070	Signed PO - SCR	0d		10-Oct-16	888d																																																												
QPPCM120	Complete Access Roads	0d		24-Oct-16	879d																																																												
QPPCM100	Signed PO - Major Steelwork	0d		07-Nov-16	868d																																																												
QPPCM080	Signed PO - CO2 Stripper Column	0d		21-Nov-16	859d																																																												
QPPCM090	Signed PO - Cooling Water Booster Pumps	0d		21-Nov-16	858d																																																												
QPPCM110	Signed PO - Cooling Water Pipework	0d		28-Nov-16	853d																																																												
QPPCM230	Receive on Site - Aux Boilers	0d		19-Dec-16	839d																																																												
QPPCM140	Signed PO - CCS DCS	0d		10-Jan-17	822d																																																												
QPPCM190	Signed PO - Power Plant Electrical Cable Order	0d		10-Jan-17	822d																																																												
QPPCM150	Signed PO - Power Plant DCS Mods Contract	0d		07-Feb-17	802d																																																												
QPPCM160	Receive on Site - DCC	0d		28-Mar-17	767d																																																												
QPPCM170	Receive on Site - Absorber column	0d		28-Mar-17	767d																																																												
QPPCM180	HDD Contractor Mobilisation	0d		31-Mar-17	764d																																																												
QPPCM210	Signed PO - CCS Switchgear	0d		04-Apr-17	763d																																																												
QPPCM310	Complete Installation of Auxiliary Boilers	0d		20-Apr-17	751d																																																												
QPPCM200	Complete Area 6 & 13 Levelling	0d		02-May-17	743d																																																												
QPPCM320	Completion of Demolition Works	0d		18-May-17	731d																																																												
QPPCM220	Signed PO - CCS Initial Cabling	0d		26-May-17	725d																																																												
QPPCM300	Receive on Site - PP Cables	0d		30-May-17	722d																																																												
QPPCM240	Goldeneye Destruct Complete	0d		25-Jul-17	683d																																																												
QPPCM270	Receive on Site - SCR	0d		08-Aug-17	672d																																																												
QPPCM390	Completion of Slope Stabilisation	0d		10-Aug-17	670d																																																												
QPPCM260	SCR Foundations	0d		11-Aug-17	669d																																																												
QPPCM290	Compressor concrete foundations	0d		29-Aug-17	658d																																																												
QPPCM250	CW Booster Pumps concrete foundations	0d		01-Sep-17	654d																																																												
QPPCM480	Cooling Water Return Pipework concrete foundations	0d		08-Sep-17	649d																																																												

■ Remaining Level of Effort ■ Remaining Work ■ Actual Work ■ Critical Remaining Work
◆ Milestone

Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
CCE760	Civil & Structural Engineering - Demolish Southern Blowers / Dust Collection / Ducts	50d	18-Jan-16	25-Mar-16	12d																																																												
CCE1270	Demolition Drawings AFC	45d	15-Feb-16	15-Apr-16	12d																																																												
CCE580	Civil & Structural Engineering	310d	01-Aug-16	17-Oct-17	198d																																																												
CCE590	Engineering Development to Major Steel Requisition	70d	01-Aug-16	07-Nov-16	246d																																																												
CCE1070	Prepare SoW for Civil Subcontract	20d	26-Sep-16	24-Oct-16	21d																																																												
CCE1080	Prepare SoW for Structural Subcontract	20d	30-Nov-16	05-Jan-17	21d																																																												
CCE990	Steel Pipe Rack Mods & Equipment / Structural Foundation Design Drawings AFC (incl New Warehr	130d	06-Jan-17	07-Jul-17	238d																																																												
CCE1280	Pipe Rack Mods & Equipment / Structural Foundation Design Drawings AFC	130d	06-Jan-17	07-Jul-17	238d																																																												
CCE1290	Misc. Steel Design Drawings AFC	65d	03-Mar-17	02-Jun-17	238d																																																												
CCE600	Engineering Development to Misc. Steelwork Requisition	10d	14-Apr-17	28-Apr-17	238d																																																												
Instrumentation & Controls																																																																	
CCE610	Instrumentation & Control Engineering	325d	29-Aug-16	05-Dec-17	152d																																																												
CCE630	DCS Modifications Order Placement (Pre-selected Vendor)	110d	29-Aug-16	07-Feb-17	152d																																																												
CCE1340	Instrumentation & Control Engineering sufficient to allow SoW development	110d	29-Aug-16	07-Feb-17	296d																																																												
CCE620	In-Line Instrument Requisitions	45d	10-Jan-17	14-Mar-17	224d																																																												
CCE1090	Prepare SoW for Instruments Subcontract	20d	07-Feb-17	07-Mar-17	296d																																																												
CCE640	Instrument Cable MTO & Requisition	20d	18-Apr-17	16-May-17	224d																																																												
CCE650	Off-Line Instrument Requisitions	45d	09-May-17	11-Jul-17	239d																																																												
Electrical																																																																	
CCE1380	Prepare SoW for Electrical Subcontract (Aux. Boilers)	20d	18-Jan-16	12-Feb-16	229d																																																												
CCE660	Electrical Design Specification	80d	01-Aug-16	21-Nov-16	68d																																																												
CCE1370	Cables Requisition (Aux. Boilers)	10d	12-Sep-16	26-Sep-16	68d																																																												
CCE1350	Electrical Engineering sufficient to allow SoW development	90d	07-Nov-16	21-Mar-17	266d																																																												
CCE670	Switchgear Mods (Incl Cooling Water System) Requisition	20d	21-Nov-16	19-Dec-16	173d																																																												
CCE680	Initial Cables Requisition	10d	19-Dec-16	10-Jan-17	173d																																																												
CCE690	Electrical Fiscal Metering (Export) Requisition	10d	03-Jan-17	17-Jan-17	173d																																																												
CCE1050	Single Line Diagrams & Cable Layout	160d	06-Jan-17	18-Aug-17	244d																																																												
CCE1060	Prepare SoW for Electrical Subcontract	20d	21-Mar-17	18-Apr-17	266d																																																												
CCE700	Telecoms System Mods Requisition	10d	04-Apr-17	18-Apr-17	173d																																																												
CCE710	Electrical Trace Heating Requisition	20d	18-Aug-17	15-Sep-17	244d																																																												
Procurement																																																																	
Boilers																																																																	
PPP190	Award & Procure - Aux. Boiler System Package	120d	14-Mar-16	06-Apr-17	21d																																																												
PPP310	Manufacture & Deliver - Aux. Boiler System Package	80d	29-Aug-16	16-Dec-16	19d																																																												
PPP1090	Order, Prepare & Deliver - Temporary Boilers	80d	08-Dec-16*	06-Apr-17	21d																																																												
Rotating Equipment																																																																	
PPP040	Award, Manufacture & Deliver - Steam Turbine Generator	592d	29-Aug-16	02-Jan-19	0d																																																												
PPP230	Award, Manufacture & Deliver - Cooling Water Booster Pumps (HP)	274d	24-Oct-16	20-Nov-17	212d																																																												
PPP240	Award, Manufacture & Deliver - Non API Pumps	149d	21-Nov-16	26-Jun-17	317d																																																												
Static Equipment																																																																	
PPP290	Award, Manufacture & Deliver - Shop Built Tank (Fuel Oil Day Tank)	200d	29-Feb-16	02-Dec-16	64d																																																												
PPP300	Award & Procure - Deaerator (Aux. Boiler)	104d	14-Mar-16	04-Aug-16	45d																																																												
PPP930	Manufacture & Deliver - Deaerator (Aux. Boiler)	70d	05-Aug-16	10-Nov-16	45d																																																												
PPP280	Award, Manufacture & Deliver - Vessels & Drums	274d	24-Oct-16	20-Nov-17	212d																																																												
Heat Exchangers																																																																	
PPP200	Award, Manufacture & Deliver - Shell & Tube Heat Exchangers	259d	17-Oct-16	23-Oct-17	152d																																																												
PPP210	Award, Manufacture & Deliver - Electric Heater (Glen Steam Superheater)	179d	24-Oct-16	10-Jul-17	227d																																																												
PPP220	Award, Manufacture & Deliver - Air Cooled Heat Exchanger (Condensate Trim Cooler)	169d	31-Oct-16	03-Jul-17	232d																																																												
Package Equipment																																																																	
PPP260	Award, Manufacture & Deliver - Aux. Boiler Chemical Treatment & Phosphate Dosing	210d	29-Feb-16	16-Dec-16	64d																																																												
PPP270	Award, Engineer, Manufacture & Deliver - SCR	210d	10-Oct-16	08-Aug-17	318d																																																												
PPP250	Award, Manufacture & Deliver - Instrument Air Compressor & Air Dryer	334d	07-Nov-16	07-Mar-18	142d																																																												
Civil & Structural																																																																	
PPP1280	Design, Award, Manufacture - Aux. Boilers Shelter	100d	01-Aug-16	19-Dec-16	73d																																																												
PPP320	Award, Manufacture - Major Steelwork	180d	07-Nov-16	25-Jul-17	246d																																																												
PPP1210	Award, Manufacture, Deliver - Steelwork Area 12 - Piperack Reinforcement	150d	07-Nov-16	13-Jun-17	312d																																																												
PPP330	Award, Manufacture & Deliver - Misc. Steelwork	120d	28-Apr-17	13-Oct-17	238d																																																												
PPP940	Delivery - Major Steelwork	20d	25-Jul-17	22-Aug-17	246d																																																												
Piping																																																																	

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 ■ Actual Work

Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020													
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D		
PPP340	Award, Manufacture - Initial Bulk Pipework & Materials	224d	28-Nov-16	16-Oct-17	147d																																																														
PPP1200	Award, Manufacture, Deliver - Pipework & Materials (HSRG-13 to New Steam Turbine) - Shutdown	174d	28-Nov-16	07-Aug-17	308d																																																														
PPP1010	Deliver - Initial Bulk Pipework & Materials (Areas 4)	30d	16-Oct-17	27-Nov-17	238d																																																														
PPP1020	Deliver - Initial Bulk Pipework & Materials (Area 11)	17d	16-Oct-17	08-Nov-17	286d																																																														
PPP350	Manufacture & Deliver - Remaining Bulk Pipework & Materials	156d	16-Oct-17	31-May-18	147d																																																														
Instrumentation & Control						278d	07-Feb-17	13-Mar-18	328d																																																										
PPP360	Manufacture, Programming, FAT, Deliver - DCS Modifications	229d	07-Feb-17	03-Jan-18	152d																																																														
PPP370	Award, Manufacture & Deliver - In-Line Instruments	254d	07-Feb-17	07-Feb-18	248d																																																														
PPP1170	Award, Manufacture & Deliver - In-Line Instruments (Area 12)	150d	14-Mar-17	10-Oct-17	431d																																																														
PPP390	Award, Manufacture & Deliver - Instrument Cable	208d	16-May-17	13-Mar-18	224d																																																														
PPP1180	Award, Manufacture & Deliver - Instrument Cable (Area 12)	120d	16-May-17	31-Oct-17	416d																																																														
PPP380	Award, Manufacture & Deliver - Off-Line Instruments	178d	06-Jun-17	20-Feb-18	239d																																																														
PPP1190	Award, Manufacture & Deliver - Off-Line Instruments (Area 12)	100d	11-Jul-17	28-Nov-17	396d																																																														
Electrical						393d	26-Sep-16	17-Apr-18	293d																																																										
PPP1260	Award, Manufacture - Cables (Aux. Boilers)	50d	26-Sep-16	05-Dec-16	68d																																																														
PPP1250	Deliver - Cables (Aux. Boilers)	15d	05-Dec-16	03-Jan-17	68d																																																														
PPP400	Award, Manufacture & Deliver - Switchgear Mods (Incl Cooling Water System)	185d	19-Dec-16	12-Sep-17	441d																																																														
PPP410	Award, Manufacture - Cables (Initial Requirements)	100d	10-Jan-17	30-May-17	387d																																																														
PPP420	Award, Manufacture & Deliver - Electrical Fiscal Metering (Export)	190d	17-Jan-17	10-Oct-17	251d																																																														
PPP430	Award, Manufacture & Deliver - Telecoms System Mods	163d	18-Apr-17	01-Dec-17	173d																																																														
PPP960	Complete Manufacture of Cables (Remaining Requirements)	85d	30-May-17	26-Sep-17	411d																																																														
PPP970	Deliver - Cables (Initial Requirements)	15d	30-May-17	20-Jun-17	387d																																																														
PPP440	Award, Manufacture & Deliver - Electrical Trace Heating (Area 4)	105d	08-Sep-17	13-Feb-18	244d																																																														
PPP980	Deliver - Cables (Remaining Requirements)	20d	26-Sep-17	24-Oct-17	411d																																																														
PPP1000	Remaining Manufacture & Deliver - Electrical Tracæ Heating (Area 11)	45d	13-Feb-18	17-Apr-18	293d																																																														
Sub Contracts						331d	18-Jan-16	02-May-17	266d																																																										
PPP1230	Enabling Works & Temporary Facilities Subcontract - Bid & Award (Demolition Only)	10d	18-Jan-16	29-Jan-16	67d																																																														
PPP1270	Electrical & Instrumentation - Bid & Award Subcontractor (Aux. Boilers)	10d	15-Feb-16	26-Feb-16	229d																																																														
PPP1240	Civil Works - Bid & Award Subcontractor (Aux. Boilers)	10d	29-Feb-16	11-Mar-16	124d																																																														
PPP990	Structural / Mechanical / Piping (SMP) - Bid & Award Subcontractor (Aux. Boilers)	10d	29-Feb-16	11-Mar-16	164d																																																														
PPP880	Demolition Subcontract - Award to Sole Source Contractor	10d	18-Apr-16	29-Apr-16	12d																																																														
PPP890	Enabling Works & Temporary Facilities Subcontract - Bid & Award	10d	04-Jul-16	18-Jul-16	153d																																																														
PPP900	Civil Works - Bid & Award Subcontractor	10d	24-Oct-16	07-Nov-16	321d																																																														
PPP910	Structural / Mechanical / Piping (SMP) - Bid & Award Subcontractor	10d	19-Jan-17	02-Feb-17	11d																																																														
PPP920	Electrical & Instrumentation - Bid & Award Subcontractor	10d	18-Apr-17	02-May-17	266d																																																														
Construction / Installation						808d	01-Feb-16	03-Apr-19	69d																																																										
Area 00 - General						555d	01-Feb-16	04-Apr-18	188d																																																										
Enabling Works & Temp Facilities						176d	01-Feb-16	03-Oct-16	153d																																																										
ONS2440	Site Enabling Works - Contractor Mobilisation - Demolition Contractor (Pre-Mob Docs, Approvals etc)	55d	01-Feb-16	15-Apr-16	67d																																																														
ONS080	Site Enabling Works - Install Temporary Facilities to allow Demolition contractor to start	10d	18-Apr-16	29-Apr-16	67d																																																														
ONS100	Site Enabling Works - Set up Site Welfare Facilities	40d	02-May-16	24-Jun-16	169d																																																														
ONS090	Site Enabling Works - Prepare Southern Laydown Area for EPC1 Contractor	40d	02-May-16	24-Jun-16	169d																																																														
ONS070	Site Enabling Works - Contractor Mobilisation (Pre-Mob Docs, Approvals etc)	55d	18-Jul-16	03-Oct-16	153d																																																														
ONS110	Site Enabling Works - Fence all site	5d	01-Aug-16	08-Aug-16	153d																																																														
Demolition						75d	02-May-16	12-Aug-16	12d																																																										
ONS190	Demolition Subcontractor Pre-Commencement Works, Approvals, Surveys	70d	02-May-16	05-Aug-16	12d																																																														
ONS1120	Demolition - Contractor Mobilisation	20d	18-Jul-16	12-Aug-16	12d																																																														
Civil						226d	14-Mar-16	31-Jan-17	321d																																																										
ONS2450	Civil Works - Contractor Mobilisation (Pre-Mob Docs, Approvals etc) - Aux. Boilers	55d	14-Mar-16	27-May-16	124d																																																														
ONS800	Civil Works - Contractor Mobilisation (Pre-Mob Docs, Approvals etc)	55d	07-Nov-16	31-Jan-17	321d																																																														
Structural						283d	14-Mar-16	20-Apr-17	11d																																																										
ONS850	Structural Mechanical Piping (SMP) - Contractor Mobilisation - Aux. Boilers	55d	14-Mar-16	27-May-16	164d																																																														
ONS810	Structural Mechanical Piping (SMP) - Contractor Mobilisation (Pre-Mob Docs, Approvals etc)	55d	02-Feb-17	20-Apr-17	11d																																																														
Mechanical						100d	06-Nov-17	04-Apr-18	142d																																																										
ONS890	Install Miscellaneous Equipment Areas 11 & 12	100d	06-Nov-17	04-Apr-18	142d																																																														
Piping						40d	07-Aug-17	02-Oct-17	308d																																																										
ONS950	Install Piping from HSRG-13 to New Steam Turbine Areas 11 & 12	35d	07-Aug-17	25-Sep-17	308d																																																														
ONS2160	Install Tie-in for Piping from HSRG-13 to New Steam Turbine Areas 11 & 12 (S/D Required)	5d	26-Sep-17	02-Oct-17	308d																																																														
Electrical						519d	29-Feb-16	13-Mar-18	173d																																																										

Remaining Level of Effort
 Remaining Work
 Actual Work
 Critical Remaining Work
 Milestone

Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Engineering						502d	21-Mar-16	09-Mar-18	144d																																																								
Process						396d	21-Mar-16	03-Oct-17	67d																																																								
CCE730	Issue HMB / OMB, PFD's & Process Data Sheets for Detailed Engineering	165d	21-Mar-16	04-Nov-16	2d																																																												
CCE720	Mobilisation and Detailed Engineering Kick-off	20d	04-Jul-16	01-Aug-16	13d																																																												
CCE1260	Engineering Development through to HAZOP	135d	01-Aug-16	14-Feb-17	67d																																																												
CCE740	HAZOP	25d	14-Feb-17	21-Mar-17	67d																																																												
CCE750	Engineering Development through to final P&ID AFC Issue	140d	21-Mar-17	03-Oct-17	67d																																																												
Piping						373d	01-Aug-16	23-Jan-18	63d																																																								
CCE1110	Engineering Development to initial MTO	95d	01-Aug-16	12-Dec-16	7d																																																												
CCE1120	Piping Basis of Design & CAD Set up	60d	01-Aug-16	24-Oct-16	63d																																																												
CCE1130	Equipment Modelling / Critical Piping Routes Studies (Develop Piping Model to 30%)	75d	24-Oct-16	14-Feb-17	63d																																																												
CCE1140	Engineering Development through to final Isometric AFC Issue	238d	14-Feb-17	23-Jan-18	63d																																																												
CCE1150	30% Piping Model Review	3d	14-Feb-17	17-Feb-17	84d																																																												
CCE1320	Engineering Development through to final Isometric AFC Issue (Area 7)	100d	17-Feb-17	07-Jul-17	129d																																																												
CCE1160	Update Plot Plan IFD	20d	17-Feb-17	17-Mar-17	84d																																																												
CCE1170	Prepare SoW for Piping Subcontract	20d	28-Apr-17	26-May-17	147d																																																												
Mechanical						294d	13-Jun-16	04-Aug-17	138d																																																								
PPE160	CO2 Compressor Package - Finalise Mech Data Sheet and Requisition	40d	13-Jun-16	05-Aug-16	32d																																																												
PPE290	Direct Contact Cooler & CO2 Absorber Columns - Develop Requisition	40d	01-Aug-16	26-Sep-16	78d																																																												
PPE230	Design Development to SoW Preparation	188d	01-Aug-16	28-Apr-17	78d																																																												
PPE220	Pumps - Prepare Mech Data Sheet and Requisition	40d	12-Sep-16	04-Nov-16	2d																																																												
PPE310	Waste Water Treatment Plant - Prepare SoW / Requisition	20d	07-Nov-16	02-Dec-16	13d																																																												
PPE320	ION Exchange (IX) Package - Prepare Mech Data Sheet and Requisition	20d	07-Nov-16	02-Dec-16	93d																																																												
PPE170	Booster Fans - Prepare Mech Data Sheet and Requisition	10d	07-Nov-16	18-Nov-16	36d																																																												
PPE180	Regen Gas Compressor - Prepare Mech Data Sheet and Requisition	10d	07-Nov-16	18-Nov-16	178d																																																												
PPE190	CO2 Stripper Column (C-2002) - Prepare Mech Data Sheet and Requisition	10d	07-Nov-16	18-Nov-16	148d																																																												
PPE200	Heat Exchangers - Prepare Mech Data Sheet and Requisition	45d	07-Nov-16	16-Jan-17	33d																																																												
PPE210	Column Internals (Packing & Trays) - Prepare Mech Data Sheet and Requisition	20d	07-Nov-16	02-Dec-16	93d																																																												
PPE240	Vessels, Drums, Reactor, Small Columns - Prepare Mech Data Sheet and Requisition	20d	07-Nov-16	02-Dec-16	63d																																																												
PPE250	Packaged Equipment - Prepare Mech Data Sheet and Requisition	40d	07-Nov-16	09-Jan-17	61d																																																												
PPE260	Site Erected / Shop Built Tanks - Prepare Mech Data Sheet and Requisition	20d	07-Nov-16	02-Dec-16	118d																																																												
PPE270	Flue Gas Ducting - Prepare SoW / Requisition	20d	07-Nov-16	02-Dec-16	61d																																																												
PPE280	Miscellaneous Equipment - Prepare Mech Data Sheet and Requisition	15d	05-Dec-16	23-Dec-16	93d																																																												
PPE340	Ongoing Mechanical Engineering and Critical Vendor Data Reviews	119d	21-Feb-17	04-Aug-17	138d																																																												
PPE330	Prepare SoW for Mechanical Installation Subcontract	20d	28-Apr-17	26-May-17	147d																																																												
Civil, Structural, Architectural (CSA)						366d	21-Mar-16	22-Aug-17	255d																																																								
CCE780	Civil & Structural Engineering (to Civil Subcontract)	73d	21-Mar-16	29-Jun-16	101d																																																												
CCE1180	Prepare SoW for Civil Subcontract	20d	02-Jun-16	29-Jun-16	201d																																																												
CCE1310	Buildings (Substations & Control Room) - Design Layouts & Detailed Drawings AFC	130d	20-Jun-16	16-Dec-16	321d																																																												
CCE1230	Civil & Structural Engineering (to completion)	205d	30-Jun-16	20-Apr-17	262d																																																												
CCE1200	Pipe Racks & Equipment / Structural Foundation Design Drawings AFC	150d	21-Jul-16	23-Feb-17	101d																																																												
CCE1210	Steel Pipe Rack & Major Steel Structure Design Drawings AFC	150d	21-Jul-16	23-Feb-17	302d																																																												
CCE1220	Validate FEED Steelwork Design Quantities	60d	01-Aug-16	24-Oct-16	13d																																																												
CCE1190	Prepare SoW for Structural Subcontract	20d	01-Sep-16	28-Sep-16	313d																																																												
CCE790	Major Steel Bulk Take Off and Requisition	10d	24-Oct-16	07-Nov-16	13d																																																												
CCE920	Initial Underground Pipework Bulk Requisition	5d	05-Dec-16	12-Dec-16	35d																																																												
CCE1300	Underground Detailed Design Layouts & Isometrics AFC	175d	12-Dec-16	22-Aug-17	255d																																																												
CCE1330	Pipe Rack Mods & Equipment / Structural Foundation Design Drawings AFC (Area 7)	65d	17-Mar-17	16-Jun-17	84d																																																												
CCE800	Misc. Steelwork Take Off and Requisition	10d	07-Jul-17	21-Jul-17	35d																																																												
Instrumentation & Controls						396d	15-Aug-16	09-Mar-18	144d																																																								
CCE940	Instrument Design Specification & Initial ICS I/O Count	100d	15-Aug-16	10-Jan-17	140d																																																												
CCE930	CO2 Metering System Requisitions	20d	14-Nov-16	12-Dec-16	327d																																																												
CCE810	Instrumentation & Control Engineering / Design	296d	10-Jan-17	09-Mar-18	144d																																																												
CCE830	Place DCS Order (Pre-selected Vendor)	0d	10-Jan-17		140d																																																												
CCE820	In-Line Instrument Requisitions	45d	14-Feb-17	18-Apr-17	140d																																																												
CCE840	Instrument Cable MTO & Requisition	20d	23-May-17	20-Jun-17	140d																																																												
CCE850	Off-Line Instrument Requisitions	45d	20-Jun-17	22-Aug-17	150d																																																												
CCE1240	Prepare SoW for Instrument Subcontract	20d	22-Aug-17	19-Sep-17	156d																																																												

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Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Electrical																																																																	
CCE860	Electrical Design Specification	80d	07-Nov-16	26-Oct-17	159d																																																												
CCE960	Electrical Engineering / Design	148d	07-Mar-17	28-Sep-17	179d																																																												
CCE870	Switchgear / Power Factor Correction & Transformers Data Sheets & Requisition	20d	07-Mar-17	03-Apr-17	46d																																																												
CCE880	Misc Electrical Equipment Requisition	45d	04-Apr-17	05-Jun-17	104d																																																												
CCE890	Initial Cable MTO / Requisition	10d	12-May-17	25-May-17	46d																																																												
CCE950	Electrical Fiscal Metering (Import) Prepare Data Sheet & Requisition	10d	19-May-17	01-Jun-17	169d																																																												
CCE1250	Prepare SoW for Electrical Subcontract	20d	21-Jul-17	17-Aug-17	179d																																																												
CCE900	Telecoms System Requisition	10d	18-Aug-17	31-Aug-17	46d																																																												
CCE910	Electrical Trace Heating & Bulks Requisition	20d	29-Sep-17	26-Oct-17	106d																																																												
Procurement																																																																	
Rotating Equipment																																																																	
PPP450	Award, Manufacture & Deliver - CO2 Compressor Package	414d	08-Aug-16	27-Mar-18	133d																																																												
PPP720	Award, Manufacture & Deliver - High Power Centrifugal Water Pumps (Closed Loop Circulation)	274d	24-Oct-16	17-Nov-17	158d																																																												
PPP730	Award, Manufacture & Deliver - Positive Control Displacement Pumps	274d	31-Oct-16	24-Nov-17	127d																																																												
PPP740	Award, Manufacture & Deliver - Non API Pumps	149d	31-Oct-16	02-Jun-17	193d																																																												
PPP710	Award, Manufacture & Deliver - API 610 Pumps	335d	07-Nov-16	07-Mar-18	2d																																																												
PPP750	Award, Manufacture & Deliver - Sealless Pumps	219d	07-Nov-16	15-Sep-17	108d																																																												
PPP490	Award, Manufacture & Deliver - Booster Fans	339d	21-Nov-16	27-Mar-18	36d																																																												
PPP500	Award, Manufacture & Deliver - Regen Gas Compressor	294d	21-Nov-16	23-Jan-18	178d																																																												
Static Equipment																																																																	
PPP560	Award, Design, Ship - Direct Contact Cooler & CO2 Absorber Columns (EPC)	125d	26-Sep-16	28-Mar-17	78d																																																												
PPP780	Award, Manufacture & Deliver - Column Internals (Packing & Trays) (C2001/2 & C2201/2/3)	400d	14-Nov-16	13-Jun-18	102d																																																												
PPP770	Award, Manufacture & Deliver - CO2 Stripper Column (C-2002)	339d	21-Nov-16	27-Mar-18	148d																																																												
PPP760	Award, Manufacture & Deliver - Site Erected Tanks	189d	05-Dec-16	01-Sep-17	118d																																																												
PPP790	Award, Manufacture & Deliver - Column Internals DCC (C-1001)	304d	05-Dec-16	20-Feb-18	93d																																																												
PPP540	Award, Manufacture & Deliver - Vessels, Drums, Reactor, Small Columns	339d	05-Dec-16	10-Apr-18	63d																																																												
PPP550	Award, Manufacture & Deliver - Shop Built Tanks	259d	05-Dec-16	08-Dec-17	142d																																																												
Heat Exchangers																																																																	
PPP800	Award, Manufacture & Deliver - Plate Heat Exchangers (Welded)	349d	05-Dec-16	24-Apr-18	53d																																																												
PPP810	Award, Manufacture & Deliver - Gas-Gas Heat Exchanger (E1001)	339d	05-Dec-16	10-Apr-18	63d																																																												
PPP460	Award, Manufacture & Deliver - Shell & Tube Heat Exchangers	259d	19-Dec-16	22-Dec-17	133d																																																												
PPP480	Award, Manufacture & Deliver - Plate & Frame Heat Exchs Gasketed Titanium (E1002, E4201)	264d	10-Jan-17	23-Jan-18	33d																																																												
PPP820	Award, Manufacture & Deliver - Plate & Frame Heat Exchs Gasketed S/S (E2007, E4102)	239d	10-Jan-17	08-Dec-17	143d																																																												
PPP470	Award, Manufacture & Deliver - Electric Heater (E3202)	179d	17-Jan-17	22-Sep-17	258d																																																												
Package Equipment																																																																	
PPP1160	Engineering, Manufacture & Deliver - Flue Gas Ducting (SSE Shutdown Requirement)	210d	05-Dec-16	02-Oct-17	179d																																																												
PPP1100	Award, Design, Procure, Manufacture & Deliver - ION Exchange (IX) Package - Sole Source Consol	533d	05-Dec-16	16-Jan-19	104d																																																												
PPP1110	Award, Design, Procure, Manufacture & Deliver - Waste Water Treatment - Initial Delivery	294d	05-Dec-16	06-Feb-18	13d																																																												
PPP520	Award, Engineering, Manufacture & Deliver - Flue Gas Ducting (Initial Delivery)	358d	05-Dec-16	07-May-18	61d																																																												
PPP510	Award, Manufacture & Deliver - Instrument Air Compressor & Air Dryer	334d	12-Dec-16	10-Apr-18	63d																																																												
PPP530	Award, Manufacture & Deliver - Thermal Reclaimer Vacuum Packages (A2201/2)	319d	03-Jan-17	03-Apr-18	68d																																																												
PPP830	Award, Manufacture & Deliver - Chemical Dosing Packages (A4251 & A3101)	304d	10-Jan-17	20-Mar-18	78d																																																												
PPP1290	Award, Design, Procure, Manufacture & Deliver - Waste Water Treatment - Final Delivery	160d	07-Feb-18	18-Sep-18	103d																																																												
PPP1130	Engineering, Manufacture & Deliver - Flue Gas Ducting (Final Delivery)	200d	08-May-18	20-Feb-19	91d																																																												
Miscellaneous Equipment																																																																	
PPP840	Award, Manufacture & Deliver - Filters & Coalescers	294d	03-Jan-17	27-Feb-18	93d																																																												
PPP850	Award, Manufacture & Deliver - Mixer & Damper Seal Air Fans (N2201 & K1002)	149d	03-Jan-17	28-Jul-17	238d																																																												
Civil & Structural																																																																	
PPP1140	Award, Manufacture - Major Steelwork (Area 7)	120d	07-Nov-16	02-May-17	177d																																																												
PPP580	Award, Manufacture & Deliver - Major Steelwork	343d	07-Nov-16	20-Mar-18	13d																																																												
PPP570	Award, Manufacture & Deliver - Underground Pipe & Material	265d	12-Dec-16	04-Jan-18	76d																																																												
PPP1150	Delivery - Major Steelwork (Area 7)	20d	02-May-17	30-May-17	177d																																																												
PPP590	Award, Manufacture & Deliver - Misc. Steelwork	143d	21-Jul-17	16-Feb-18	35d																																																												
Piping																																																																	
PPP1030	Award, Manufacture & Deliver - Cooling Water Return Pipework (Area 7)	124d	12-Dec-16	12-Jun-17	148d																																																												
PPP600	Award, Manufacture & Deliver - Initial Bulk Pipework & Materials	304d	12-Dec-16	28-Feb-18	7d																																																												
PPP610	Manufacture & Deliver - Remaining Bulk Pipework & Materials	112d	28-Feb-18	03-Aug-18	7d																																																												
Instrumentation & Control																																																																	

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Peterhead CCS Project

Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Piping		200d	19-Apr-18	01-Feb-19	112d																																																												
ONS1650	Install Sufficient Piping in Area 1 to allow E & I to commence	110d	19-Apr-18	19-Sep-18	2d																																																												
ONS2490	Install Remaining Piping Area 1	90d	20-Sep-18	01-Feb-19	112d																																																												
Electrical		100d	20-Sep-18	15-Feb-19	2d																																																												
ONS1640	Install Electrical Fittings & Cabling Area 1	100d	20-Sep-18	15-Feb-19	2d																																																												
Instrumentation		100d	20-Sep-18	15-Feb-19	102d																																																												
ONS1820	Install Instrumentation & Cabling Area 1	100d	20-Sep-18	15-Feb-19	102d																																																												
Painting & Insulation		110d	20-Sep-18	01-Mar-19	92d																																																												
ONS1830	Painting & Insulation Area 1	110d	20-Sep-18	01-Mar-19	92d																																																												
Area 02 - Amine Regeneration		347d	07-Dec-17	26-Apr-19	52d																																																												
General		0d	26-Apr-19	26-Apr-19	52d																																																												
ONS2200	Area 2 Construction Complete	0d		26-Apr-19	52d																																																												
Civil		85d	07-Dec-17	16-Apr-18	12d																																																												
ONS230	Install Foundations Area 2	85d	07-Dec-17	16-Apr-18	12d																																																												
Structural		150d	16-Apr-18	12-Nov-18	12d																																																												
ONS1440	Install Structural Steel Area 2	150d	16-Apr-18	12-Nov-18	12d																																																												
Mechanical		200d	16-Apr-18	30-Jan-19	114d																																																												
ONS1430	Install T-2001 & T-2204 Lean & Degraded Amine Tank (Ind Hydrotesting, Lining & Painting) Area 2	160d	16-Apr-18	26-Nov-18	144d																																																												
ONS1620	Install K-1001 A/B Booster Fans Area 2 (Inlet Blower Assemblies)	65d	30-Apr-18	30-Jul-18	12d																																																												
ONS1610	Install Misc Equipment Area 2	85d	14-May-18	10-Sep-18	39d																																																												
ONS320	Install C-2002 Stripper Column Area 2	5d	26-Jul-18	02-Aug-18	61d																																																												
ONS1420	Install Packinox Exchangers Area 2	5d	02-Aug-18	09-Aug-18	61d																																																												
ONS1700	Install C-2002 Stripper Column Internals Area 2	45d	02-Aug-18	04-Oct-18	191d																																																												
ONS1760	Install ION Exchange Package Area 2	10d	17-Jan-19	30-Jan-19	104d																																																												
Piping		228d	07-May-18	01-Apr-19	71d																																																												
ONS1680	Install Sufficient Piping in Area 2 to allow E & I to commence	117d	07-May-18	17-Oct-18	12d																																																												
ONS2500	Install Remaining Piping Area 2	111d	17-Oct-18	01-Apr-19	71d																																																												
Electrical		130d	17-Oct-18	26-Apr-19	12d																																																												
ONS1690	Install Electrical Fittings & Cabling Areas 2	130d	17-Oct-18	26-Apr-19	12d																																																												
Instrumentation		130d	17-Oct-18	26-Apr-19	52d																																																												
ONS1790	Install Instruments & Cabling Areas 2	130d	17-Oct-18	26-Apr-19	52d																																																												
Painting & Insulation		120d	17-Oct-18	12-Apr-19	62d																																																												
ONS1770	Painting & Insulation of Piping Area 2	120d	17-Oct-18	12-Apr-19	62d																																																												
Area 03 - Flue Gas Ducting		525d	13-Jul-17	07-Aug-19	61d																																																												
General		0d	07-Aug-19	07-Aug-19	61d																																																												
ONS2260	Area 3 Construction Complete	0d		07-Aug-19	61d																																																												
Civil		312d	13-Jul-17	03-Oct-18	274d																																																												
ONS196	Install Foundations Area 3	312d	13-Jul-17	03-Oct-18	274d																																																												
Structural		280d	20-Mar-18	25-Apr-19	135d																																																												
ONS306	Install Sufficient Structural Steel to Start Installing Flue Gas Ducting Area 3 from Tie-in Point at GT1	30d	20-Mar-18	01-May-18	65d																																																												
ONS2480	Install Remaining Structural Steel Area 3	250d	01-May-18	25-Apr-19	135d																																																												
Mechanical		310d	08-May-18	24-Jul-19	71d																																																												
ONS2410	Install Flue Gas Ducting Area 3 from Area 2 Tie-in Point at GT13	60d	08-May-18	30-Jul-18	61d																																																												
ONS309	Install Sufficient Flue Gas Ducting to allow E & I to commence Area 3	160d	31-Jul-18	20-Mar-19	61d																																																												
ONS2520	Install Remaining Flue Gas Ducting Area 3	90d	21-Mar-19	24-Jul-19	71d																																																												
Electrical		100d	21-Mar-19	07-Aug-19	61d																																																												
ONS2230	Install Electrical Fittings & Cabling Areas 3	100d	21-Mar-19	07-Aug-19	61d																																																												
Instrumentation		100d	21-Mar-19	07-Aug-19	61d																																																												
ONS2210	Install Instruments & Cabling Areas 3	100d	21-Mar-19	07-Aug-19	61d																																																												
Area 05 - Inter-connecting Racks		245d	19-Mar-18	06-Mar-19	89d																																																												
General		0d	06-Mar-19	06-Mar-19	89d																																																												
ONS2270	Area 5 Construction Complete	0d		06-Mar-19	89d																																																												
Civil		45d	19-Mar-18	21-May-18	89d																																																												
ONS250	Install Foundations Area 5	45d	19-Mar-18	21-May-18	89d																																																												
Structural		120d	21-May-18	05-Nov-18	89d																																																												
ONS380	Install Structural Steel Area 5	120d	21-May-18	05-Nov-18	89d																																																												
Piping		155d	25-Jun-18	06-Feb-19	109d																																																												
ONS1390	Install Sufficient Piping in Area 2 to allow E & I to commence	75d	25-Jun-18	08-Oct-18	89d																																																												
ONS2510	Install Remaining Piping Area 5	80d	08-Oct-18	06-Feb-19	109d																																																												
Electrical		100d	08-Oct-18	06-Mar-19	89d																																																												
ONS2240	Install Electrical Fittings & Cabling Areas 5	100d	08-Oct-18	06-Mar-19	89d																																																												
Instrumentation		100d	08-Oct-18	06-Mar-19	89d																																																												
ONS2220	Install Instruments & Cabling Areas 5	100d	08-Oct-18	06-Mar-19	89d																																																												

█ Remaining Level of Effort █ Remaining Work ◆ Milestone
█ Actual Work █ Critical Remaining Work

Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Painting & Insulation																																																																	
ONS1780	Painting & Insulation of Piping Area 5	55d	10-Dec-18	06-Mar-19	89d																																																												
Area 06 - CO2 Compression																																																																	
General																																																																	
ONS2250	Area 6 Construction Complete	0d	12-Dec-18	12-Dec-18	142d																																																												
Civil																																																																	
ONS130	Demolish HFO Tank Base Foundations	63d	24-Oct-16	26-Jan-17	239d																																																												
ONS1500	Install Foundations Area 6	85d	02-May-17	28-Aug-17	172d																																																												
ONS1450	Install New Culvert under existing Tank Farm Access Road Area 6	45d	29-Aug-17	30-Oct-17	192d																																																												
Structural																																																																	
ONS1510	Install Structural Steel Area 6	60d	20-Mar-18	19-Jun-18	88d																																																												
ONS1520	Erect ESS-3000 Electrical Substation Area 6	65d	20-Mar-18	19-Jun-18	78d																																																												
Mechanical																																																																	
ONS1530	Install A-3100A/B CO2 Compressor Area 6	40d	22-Mar-18	16-May-18	32d																																																												
ONS1630	Install Misc. Equipment Area 6	20d	22-May-18	19-Jun-18	93d																																																												
Piping																																																																	
ONS1710	Install Piping Area 6	105d	20-Jun-18	14-Nov-18	7d																																																												
Electrical																																																																	
ONS1580	Install Electrical Equipment in Substation ESS-3000 Area 6	40d	19-Jun-18	14-Aug-18	78d																																																												
ONS1720	Install Electrical Fittings & Cabling Area 6	45d	26-Sep-18	28-Nov-18	7d																																																												
Instrumentation																																																																	
ONS1900	Install CO2 Metering System (U-3100) Area 6	45d	10-Oct-18	12-Dec-18	142d																																																												
ONS1800	Install Instruments & Cabling Area 6	45d	10-Oct-18	12-Dec-18	142d																																																												
Painting & Insulation																																																																	
ONS1810	Painting & Insulation of Piping Area 6	50d	03-Oct-18	12-Dec-18	142d																																																												
Area 07 - Cooling Water Return																																																																	
Civil																																																																	
ONS730	Install Foundations Area 7 - Initial Foundations	60d	16-Jun-17	01-Dec-17	174d																																																												
ONS2470	Install Foundations Area 7 - Complete Foundations	60d	08-Sep-17	01-Dec-17	174d																																																												
Structural																																																																	
ONS1050	Install Structural Steel Area 7 (Firewater Storage to Area 1 & 2)	130d	08-Sep-17	20-Mar-18	104d																																																												
ONS2420	Install Structural Steel Area 7 (HDD Area to Firewater Storage)	110d	20-Mar-18	21-Aug-18	104d																																																												
Piping																																																																	
ONS740	Install Cooling Water Return Piping Area 7 (Firewater Storage to Area 1 & 2)	150d	03-Oct-17	10-May-18	67d																																																												
ONS2430	Install Cooling Water Return Piping Area 7 (HDD Area to Firewater Storage)	110d	10-May-18	11-Oct-18	67d																																																												
Instrumentation																																																																	
ONS1060	Install Instruments & Cabling Area 7	20d	27-Sep-18	25-Oct-18	67d																																																												
Painting & Insulation																																																																	
ONS1070	Painting & Insulation of Piping Area 7	25d	20-Sep-18	25-Oct-18	67d																																																												
Area 09 - Electrical Sub Station																																																																	
General																																																																	
ONS2280	Area 9 Construction Complete	0d	05-Jul-18	05-Jul-18	106d																																																												
Civil																																																																	
ONS270	Install Foundations Area 9	40d	28-Sep-17	23-Nov-17	83d																																																												
Structural																																																																	
ONS550	Erect ESS-2000 Electrical Substation Area 9	65d	23-Nov-17	05-Mar-18	83d																																																												
Electrical																																																																	
ONS1590	Install Electrical Equipment in Substation ESS-2000 Area 9	40d	03-Apr-18	28-May-18	114d																																																												
ONS1870	Install Electrical Fittings & Cabling Area 9	25d	18-May-18	21-Jun-18	106d																																																												
Instrumentation																																																																	
ONS1880	Install Instrumentation & Cabling Area 9	45d	04-May-18	05-Jul-18	106d																																																												
Area 10 - Control Room and Amine / Caustic Storage																																																																	
General																																																																	
ONS2290	Area 10 Construction Complete	0d	22-Oct-18	22-Oct-18	58d																																																												
Civil																																																																	
ONS220	Install Tank Foundations Area 10	65d	28-Sep-17	08-Jan-18	58d																																																												
ONS1540	Install Control Room & Misc Equip Foundations Area 10	45d	08-Jan-18	12-Mar-18	58d																																																												
Structural																																																																	
ONS1600	Erect New CCP Control Room Area 10	65d	20-Mar-18	19-Jun-18	72d																																																												
Mechanical																																																																	
ONS1400	Install Fresh Amine Tank T-2002 (incl Hydro Testing, Lining & Painting) Area 10	160d	08-Jan-18	20-Aug-18	63d																																																												
ONS1410	Install T-2008 / 2010 Caustic & Sulphuric Tanks Area 10	5d	08-Jan-18	15-Jan-18	128d																																																												
ONS1740	Install Misc Equipment Area 10	30d	12-Mar-18	23-Apr-18	58d																																																												

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Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Piping		110d	23-Apr-18	24-Sep-18	58d																																																												
ONS1670	Install Piping Area 10	110d	23-Apr-18	24-Sep-18	58d																																																												
Electrical		45d	06-Aug-18	08-Oct-18	68d																																																												
ONS1750	Install Electrical Fittings & Equipment Area 10	45d	06-Aug-18	08-Oct-18	68d																																																												
Instrumentation		79d	19-Jun-18	08-Oct-18	68d																																																												
ONS1660	Install DCS in New CCP Control Room Area 10	65d	19-Jun-18	18-Sep-18	72d																																																												
ONS1840	Install Instrumentation & Cabling Area 10	45d	06-Aug-18	08-Oct-18	68d																																																												
Painting & Insulation		35d	03-Sep-18	22-Oct-18	58d																																																												
ONS1850	Painting & Insulation of Piping Area 10	35d	03-Sep-18	22-Oct-18	58d																																																												
Area 13 - Waste Water Treatment		444d	02-May-17	31-Jan-19	13d																																																												
ONS2300	Area 13 Construction Complete	0d		31-Jan-19	13d																																																												
Civil		80d	02-May-17	21-Aug-17	127d																																																												
ONS290	Install Foundations - Area 13 (Waste Water Treatment Plant)	80d	02-May-17	21-Aug-17	127d																																																												
Mechanical		250d	07-Feb-18	31-Jan-19	13d																																																												
ONS500	Install Waste Water Treatment Package Area 13	250d	07-Feb-18	31-Jan-19	13d																																																												
Area 14 - HV Feeder Cables		118d	31-Oct-17	23-Apr-18	139d																																																												
ONS2310	Area 14 Construction Complete	0d		23-Apr-18	139d																																																												
Civil		20d	31-Oct-17	27-Nov-17	192d																																																												
ONS1470	Install Road Crossing under A90 for HV Feeder Cables Area 14	20d	31-Oct-17	27-Nov-17	192d																																																												
Electrical		45d	20-Feb-18	23-Apr-18	139d																																																												
ONS1480	Install HV Feeder Cables Area 14	45d	20-Feb-18	23-Apr-18	139d																																																												
Onshore Pipeline, Valves and Pig Launcher		140d	10-May-18	22-Nov-18	226d																																																												
ONS2110	Install Foundations at Pig Launcher Area	40d	10-May-18	05-Jul-18	226d																																																												
ONS2170	Install Onshore Pipeline and Valves (Pig Launcher to Offshore Pipeline Landfall)	50d	05-Jul-18	13-Sep-18	226d																																																												
ONS2120	Install Onshore Pipeline from Waste Water Treatment Area to HDD (Area 13)	50d	13-Sep-18	22-Nov-18	226d																																																												
Pre-Commissioning / Commissioning		294d	01-Mar-18	26-Apr-19	122d																																																												
ONS1910	3. Surface Runoff / Collection System - Available for Precommissioning	0d	01-Mar-18		255d																																																												
ONS1930	10. Oil Mist System - Available for Precommissioning	0d	17-May-18		317d																																																												
ONS1940	17. Lube Oil / Seal Gas System - Available for Precommissioning	0d	17-May-18		317d																																																												
ONS1920	22. Booster Fans - Available for Precommissioning	0d	30-Jul-18		303d																																																												
ONS1950	8-9. Utility / Instrument Air Systems - Available for Precommissioning	0d	10-Sep-18		95d																																																												
ONS2060	29. Degraded CO2/Amine & Ammonia Strg/Transfer - Available for Precommissioning	0d	22-Oct-18		179d																																																												
ONS2070	30-31. Mea Storage Tanks & Amine Handling / Strg - Available for Precommissioning	0d	22-Oct-18		235d																																																												
ONS2080	1. Control Room / DCS - Available for Precommissioning	0d	22-Oct-18		58d																																																												
ONS2050	28. Pipeline - Available for Precommissioning	0d	22-Nov-18		226d																																																												
ONS2020	2. Electrical Systems - Available for Precommissioning	0d	29-Nov-18		2d																																																												
ONS1970	16. CO2 Compression System - Available for Precommissioning	0d	12-Dec-18		167d																																																												
ONS1980	26. Deoxo Reactor - Available for Precommissioning	0d	12-Dec-18		193d																																																												
ONS1990	27. Dehydration - Available for Precommissioning	0d	12-Dec-18		193d																																																												
ONS2030	18. Steam / Condensate System - Available for Precommissioning	0d	27-Feb-19		97d																																																												
ONS1960	24. CO2 Stripper - Available for Precommissioning	0d	26-Apr-19		52d																																																												
ONS2000	21. Flue Gas Pretreatment - Available for Precommissioning	0d	26-Apr-19		52d																																																												
ONS2010	25. Amine Reclaimers - Available for Precommissioning	0d	26-Apr-19		52d																																																												
ONS2040	4-7. Water Systems - Available for Precommissioning (incl. Open / Closed Drains)	0d	26-Apr-19		52d																																																												
ONS2090	23. CO2 Absorber - Available for Precommissioning	0d	26-Apr-19		52d																																																												
Commissioning		272d	22-Oct-18	15-Nov-19	11d																																																												
Onshore - CCC Plant		272d	22-Oct-18	15-Nov-19	11d																																																												
Common		42d	29-Nov-18	05-Feb-19	197d																																																												
Connection to Existing Grid		27d	29-Nov-18	15-Jan-19	2d																																																												
A1490	Connection to existing grid - Pre-Commissioning Grid Connect	2d	29-Nov-18	30-Nov-18	21d																																																												
A1510	Connection to existing grid - Commissioning - Energise	6d	08-Jan-19	15-Jan-19	2d																																																												
Control Room, ICSS & UPS		13d	18-Jan-19	05-Feb-19	197d																																																												
A1550	Control room, ICSS & UPS - SAT	7d	18-Jan-19	28-Jan-19	2d																																																												
A1560	Control room, ICSS & UPS - SIT	6d	29-Jan-19	05-Feb-19	197d																																																												
Treatment / Capture Area		268d	22-Oct-18	11-Nov-19	0d																																																												
General		42d	12-Aug-19	09-Oct-19	0d																																																												
A3640	Commence Combined Start Up & Chemical Clean	0d			0d																																																												
A3650	Complete Combined Start Up & Chemical Clean	0d		09-Oct-19	0d																																																												
Power & Utilities		246d	22-Oct-18	10-Oct-19	15d																																																												
A2050	Chemical Storage & Loading Facilities - Pre-Commissioning	10d	22-Oct-18	05-Nov-18	235d																																																												
A1600	Substation & Power Distribution Capture Plant - Pre-Commissioning	21d	29-Nov-18	07-Jan-19	2d																																																												

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Integrated Execution Schedule

Activity ID	Activity Name	Orig. Dur	Start	Finish	Total Float	2016												2017												2018												2019												2020											
						J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
A1610	Substation & Power Distribution Capture Plant - Commissioning - Energise	2d	16-Jan-19	17-Jan-19	2d																																																												
A1630	Instrument & Plant Air - Pre-Commission New Unit	6d	29-Jan-19	05-Feb-19	2d																																																												
A1640	Instrument & Plant Air - Commission New Unit	2d	06-Feb-19	07-Feb-19	2d																																																												
A1650	Instrument & Plant Air - Start-Up New Unit	2d	08-Feb-19	11-Feb-19	2d																																																												
A3420	Instrument & Plant Air - Pre-Commission Distribution	4d	12-Feb-19	15-Feb-19	2d																																																												
A1980	Effluent Treatment - Pre-Commissioning	21d	18-Feb-19	18-Mar-19	2d																																																												
A1930	Condensate (Incl Polisher) - Construction	1d	27-Feb-19	28-Feb-19	110d																																																												
A1900	LP Steam - Pre-Commissioning / HV Flush	14d	27-Feb-19	19-Mar-19	97d																																																												
A2020	Open & Closed Drain System - Pre-Commissioning Open Drain	2d	04-Mar-19	06-Mar-19	0d																																																												
A2025	Open & Closed Drain System - Pre-Commissioning Closed Drain	3d	06-Mar-19	11-Mar-19	103d																																																												
A1860	Demin Water - Pre-Commission / Chemical Clean	8d	06-Mar-19	18-Mar-19	102d																																																												
A1830	Potable Water - Pre-Commissioning	4d	06-Mar-19	12-Mar-19	106d																																																												
A1790	Service Water - Pre-Commissioning	6d	06-Mar-19	14-Mar-19	0d																																																												
A1740	Closed Cooling Water System - Pre-Commissioning	14d	06-Mar-19	26-Mar-19	120d																																																												
A1670	Firewater - Pre-Commissioning	7d	06-Mar-19	15-Mar-19	139d																																																												
A1700	Sea Cooling Water - Pre-Commissioning	12d	06-Mar-19	22-Mar-19	131d																																																												
A1840	Potable Water - Commission	2d	12-Mar-19	14-Mar-19	106d																																																												
A1800	Service Water - Commission	4d	14-Mar-19	20-Mar-19	0d																																																												
A1880	Demin Water - Commission	2d	18-Mar-19	20-Mar-19	102d																																																												
A1770	Commence LP Steam & Condensate Commissioning (Water)	0d	20-Mar-19		96d																																																												
A2060	Chemical Storage & Loading Facilities - Commission	4d	20-Mar-19	26-Mar-19	145d																																																												
A1990	Effluent Treatment - Commission	99d	20-Mar-19	06-Aug-19	0d																																																												
A1950	Condensate (Incl Polisher) - Commission Water	6d	20-Mar-19	28-Mar-19	96d																																																												
A1910	LP Steam - Commission Water	6d	20-Mar-19	28-Mar-19	96d																																																												
A1710	Sea Cooling Water - Commission	3d	22-Mar-19	27-Mar-19	131d																																																												
A1750	Closed Cooling Water System - Commission B Pumps	12d	26-Mar-19	11-Apr-19	120d																																																												
A1810	Complete LP Steam & Condensate Commissioning (Water)	0d		28-Mar-19	96d																																																												
A1760	Closed Cooling Water System - Start Up	3d	11-Apr-19	16-Apr-19	120d																																																												
A2000	Effluent Treatment - Start Up	3d	06-Aug-19	09-Aug-19	0d																																																												
A2070	Chemical Storage & Loading Facilities - Fill	10d	09-Aug-19	23-Aug-19	47d																																																												
A1960	Condensate (Incl Polisher) - Start Up	2d	12-Aug-19	13-Aug-19	40d																																																												
A1920	LP Steam - Start Up	2d	12-Aug-19	13-Aug-19	40d																																																												
A2080	Chemical Storage & Loading Facilities - Start-Up	2d	09-Oct-19	10-Oct-19	15d																																																												
Process		191d	18-Feb-19	11-Nov-19	0d																																																												
A2100	Booster Fan - Pre-Commissioning	6d	18-Feb-19	25-Feb-19	166d																																																												
A2150	Pre-scrubber, caustic & sulphuric acid - Pre-Commissioning	8d	18-Feb-19	27-Feb-19	177d																																																												
A2230	Amine Drainage & Handling - Pre-Commissioning	18d	18-Feb-19	13-Mar-19	102d																																																												
A2110	Booster Fan - Lube Oil Flush	12d	11-Mar-19	27-Mar-19	156d																																																												
A3430	Amine Drainage & Handling - Commissioning	5d	14-Mar-19	20-Mar-19	102d																																																												
A2160	Pre-scrubber, caustic & sulphuric acid - Water Circulate	4d	20-Mar-19	26-Mar-19	162d																																																												
A2190	Degraded Amine - Pre-Commissioning	7d	26-Apr-19	07-May-19	65d																																																												
A2260	Amine Absorber - Regenerator - Pre-Commissioning	18d	26-Apr-19	22-May-19	52d																																																												
A2290	Amine Reclamation & IX Unit - Pre-Commissioning	18d	26-Apr-19	22-May-19	52d																																																												
A2200	Degraded Amine - Commissioning	3d	07-May-19	10-May-19	65d																																																												
A3440	Amine Absorber - Regenerator - Commissioning	5d	22-May-19	29-May-19	52d																																																												
A3450	Amine Reclamation & IX Unit - Commissioning	5d	22-May-19	29-May-19	52d																																																												
A2120	Booster Fan - Commission	5d	08-Aug-19	14-Aug-19	61d																																																												
A2240	Amine Drainage & Handling - Chemical Clean	42d	12-Aug-19	08-Oct-19	0d																																																												
A2270	Amine Absorber - Regenerator - Chemical Clean	42d	12-Aug-19	08-Oct-19	0d																																																												
A2300	Amine Reclamation & IX Unit - Chemical Clean	42d	12-Aug-19	08-Oct-19	0d																																																												
A2330	Amine Reclamation & IX Unit - Load IX Resin	3d	09-Oct-19	11-Oct-19	4d																																																												
A2210	Commence Amine Fill	0d	14-Oct-19		4d																																																												
A2310	Amine Drainage & Handling - Fill	10d	14-Oct-19	25-Oct-19	4d																																																												
A2320	Amine Absorber - Regenerator - Fill	10d	14-Oct-19	25-Oct-19	4d																																																												
A2340	Amine Reclamation & IX Unit - Fill	10d	14-Oct-19	25-Oct-19	4d																																																												
A2450	Complete Amine Fill	0d		25-Oct-19	4d																																																												
A2590	Commence Amine Absorber - Regenerator / Amine Reclamation & IX Unit Commission Circulate	0d	28-Oct-19		4d																																																												



Integrated Execution Schedule

Table with columns for Activity ID, Activity Name, Orig. Dur, Start, Finish, Total Float, and monthly timelines from 2016 to 2020. Includes sub-sections like STORAGE FACILITY, Offshore & Wells, and ASSET ACTIVITIES.

Legend for Remaining Level of Effort, Actual Work, Remaining Work, Critical Remaining Work, and Milestones.



APPENDIX 5. Schedule Full Lifecycle Post Award

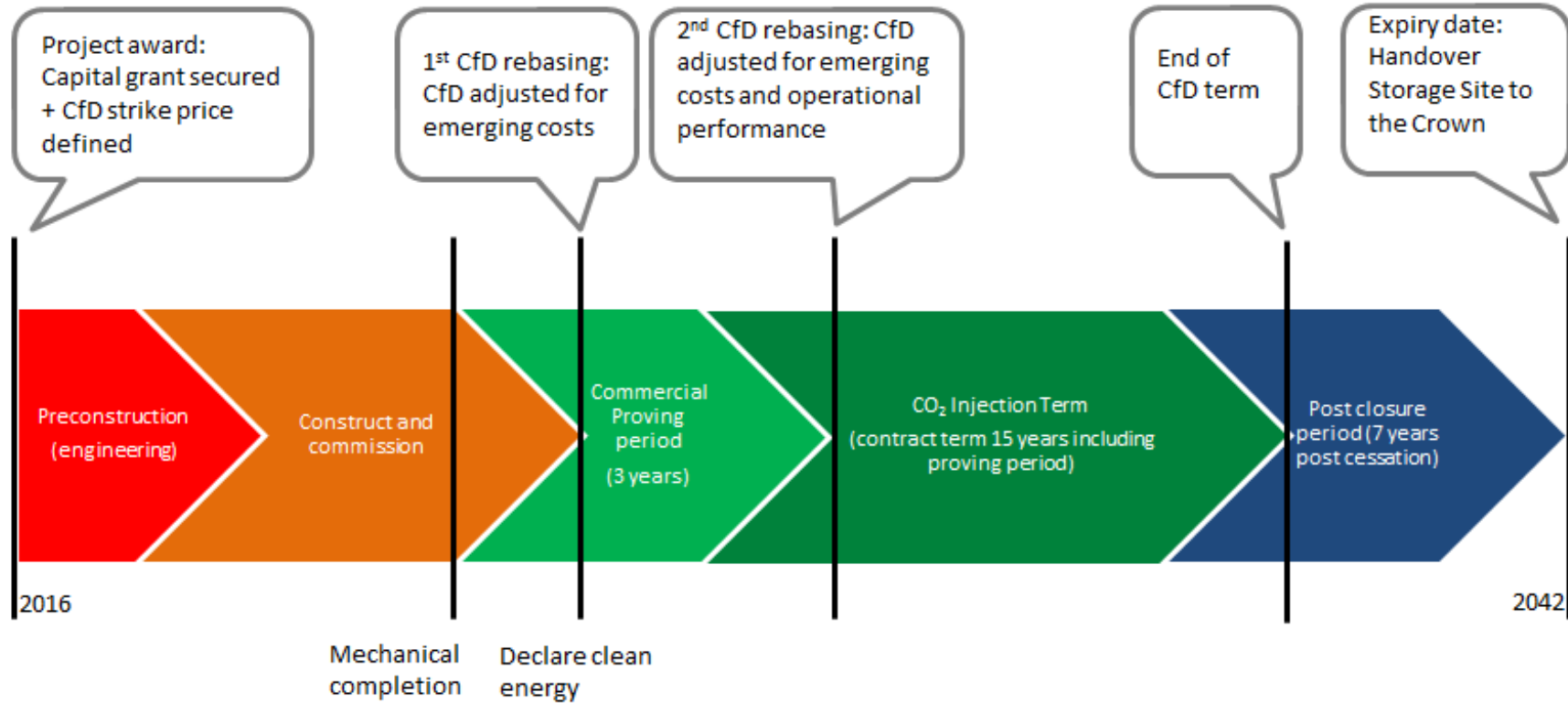


Figure A-1: Schedule Full Lifecycle Post Award