

St Fergus MCPD Emissions

Document Title: Risk Register Overview

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EXECUTIVE SUMMARY

The purpose of this document is to give a high-level overview of how the St Fergus Risk Register was compiled and the key points to be considered for future works.

Table 1 summarises the options taken through to CBA and those highlighted in green are those that have been taken through to BAT.

Further details on options selection can be found within the St Fergus Final Options Selection Report January 2023.

Option Ref	Option Summary
Option 0	Counterfactual (Do Nothing). Derogate to 500 hours per unit after 2030.
Option 1	3 x New 15MW GTs at existing Plant 1 and Plant 2 location
Option 2	3 x New 15MW GTs in a new Greenfield location within site perimeter
Option 3	2 x New 23MW GTs at existing Plant 1 and Plant 2 location
Option 4	2 x New 23MW GTs in a new Greenfield location within site perimeter
Option 5	2 x New 15MW GTs and 1 x 23MW GT at existing Plant 1 and Plant 2 location
Option 6	2 x New 15MW GTs and 1 x 23MW GT in a new Greenfield location within site perimeter
Option 7	4 x New 15MW GTs at existing Plant 1 and Plant 2 location
Option 8	4 x existing Avon 1533s derated (CSRP)
Option 9	3 x existing Avon 1533s derated (CSRP)
Option 10	4 x existing Avon 1533s with Dry Low Emissions Modification (DLE)
Option 11	3 x existing Avon 1533s with Dry Low Emissions Modification (DLE)
Option 12	2 x new 15MW GTs at existing Plant 1 and Plant 2 location with 2 existing Avon 1533s with Dry Low Emissions Modification (DLE)
Option 13	1 x new 15MW GT at existing Plant 1 and Plant 2 location with 3 existing Avon 1533s with Dry Low Emissions Modification (DLE)
Option 14	3 x new 15MW GTs at existing Plant 1 and Plant 2 location and 1 existing Avon 1533 with Dry Low Emissions Modification
Option 15	1 x New 15MW GT and 1 x 23MW at existing Plant 1 and Plant 2 location
Option 16	2 x new 15MW GTs with 1 existing Avon 1533s with Dry Low Emissions Modification (DLE)–at existing Plant 1 and Plant 2 location
Option 17	1 x new 15MW GT with 2 existing Avon 1533s with Dry Low Emissions Modification (DLE)–at existing Plant 1 and Plant 2 location
Option 18	2 x New 15MW GTs at existing Plant 1 and Plant 2 location

Table 1 – St Fergus FOSR Options List

ABBREVIATIONS & GLOSSARY

Unless otherwise stated in this document, capitalised terms that appear in this document have the meaning given to them in the following table.

AC	Alternating Current
CAB	Compressor Acoustic Building
CAPEX	Capital Expenditure
CSRP	Control System Restricted Performance
DC	Direct Current
DLE	Dry Low Emissions
ESD	Emergency Shutdown
EUD	Emergency Use Derogation
FEED	Front End Engineering Design
LV	Low Voltage
MCPD	Medium Combustion Plant Directive
NTS	National Transmission System
OEM	Original Equipment Manufacturer
PRA	Pressure Reduction Area
RIIO	Revenue = Incentives + Innovation + Outputs
RIIO-T2	Second RIIO Transmission Price Control Period – From 2021 to 2026
SCR	Selective Catalytic Reduction

Executive Summary

Abbreviations

1. Introduction

1.1. Document Purpose

1.2. Objectives

2. Risk Register

1. Introduction

1.1. Document Purpose

The purpose of this document is to identify how the St Fergus Final Options Report Risk Register was derived and upon what basis.

1.2. Objectives

To identify potential risks associated with the development and implementation of the 18No identified options taken through to CBA and the 10No options taken through to CBA and BAT. The risk register at this stage of project development has looked at the risks across all 18 options holistically from design development through FEED to detailed and then at construction delivery through to commissioning and handover. The register will need to be further developed and updated as progression through these stages occurs.

The risks have been assessed from a high level perspective based on likelihood of occurrence versus impact of risk and have been RAG (Red/Amber/Green) categorised accordingly.

2. Risk Register

Refer to document St Fergus FOS Risk Register_130123 for details of current risks identified and the associated RAG status.