

Scottish Environment Protection Agency	Document Number	IED-DD-02
Pollution Prevention and Control (Scotland) Regulations 2012	Issue Number	V2.0
	Document Owner	
Application for a Permit or Variation to a PPC Part A Permit Decision Document	Date of Issue	
	Page Number	Page 1 of 8

Petroineos Manufacturing Scotland Limited Grangemouth

SEPA Initiated Variation

Variation Number PPC/A/1013141/CON01/VAR03

Contents

1	Non-Technical Summary of Determination	3
2	External Consultation and SEPA's response	3
3	Administrative determinations	4
4	Introduction and Background	5
4.1	Historical Background to the activity and variation	5
4.2	Description of activity	5
4.3	Outline details of the Variation applied for.....	5
4.4	Guidance/directions issued to SEPA by the Scottish Ministers under Reg.60 or 61.....	5
4.5	Identification of important and sensitive receptors	5
5	Key Environmental Issues	5
5.1	Summary of significant environmental impacts	5
5.2	Emissions to Air	5
5.3	Emissions to Water.....	6
5.4	Noise	6
5.5	Resource Utilisation.....	6
5.6	Waste Management and Handling.....	6
5.7	Management of the site	6
5.8	Site Condition report	6
5.9	Monitoring.....	6
5.10	Consideration of BAT	7
6	Other Legislation Considered	7
7	Environmental Impact Assessment and COMAH.....	7
8	Details of the permit.....	7
9	Emission Limit Values or Equivalent Technical Parameters/Measures	8
10	Peer Review	8

11 Final Determination.....8

How to use this form

Purpose of the document - This document is intended to demonstrate transparency of the determination process to all interested parties. It should record all significant issues, decisions made, actions taken, and rationale for the approach adopted. It should be sufficiently detailed to demonstrate that all legal requirements were adhered to and provide the basis for defending any appeal.

Language used – You should use non-technical language as far as practicable, avoiding unexplained acronyms and technical terms. While aiming to be comprehensive, it must also be as brief as possible, consistent with the overriding need for clarity and accuracy. Officers should bear in mind that much of the document may be available publicly under the Freedom of Information Act etc.

Timely recording of information - Completion of the various forms should be done on a progressive basis rather than at the end of the process.

Level of detail - Officers should use their professional judgement as to the level of detail required which will depend on the complexity of the process. Officers must consider why the information is required and ensure appropriate detail is included. Each table is designed to be expanded as text is added and will obviously allow the insertion of additional rows where necessary

Applicability of any Section - Do not delete whole sections of the form unless directed to do so. If something is not applicable to your determination please record this on the form and give a justification if appropriate indicating you have considered the issue and not just missed it.

1 Non-Technical Summary of Determination

Provide a non-technical summary of the process and determination

Petroineos have requested a change to their operating Permit as follows:

Extension to Sulphur Derogation Timeline of Nine Months

The delayed installation of a Sulphur scrubber on the fuel gas system will result in the emission of an estimated maximum additional 130 Tonnes of Sulphur.

SEPA has assessed the request and is minded to approve it due to the technical reasons presented and the context of a much-reduced site-wide Sulphur emission since the original derogation was determined.

Glossary of Terms

BAT - Best Available Techniques
BREF – Best Available Techniques Reference Document
BAT-C – Best Available Technique Conclusions
ELV – Emission Limit Value
CO – Coordinating Officer

2 External Consultation and SEPA's response

Guidance:

In general Public Consultation, PPC Statutory Consultation and the Public Participation Process is required if you are processing a new permit or a substantial variation to a permit. Further information on this is provided in the interim procedure for the Part A process that you are determining.

Is Public Consultation Required?

(if no delete rows below)

No

Advertisement Check:	Date	Compliance with advertising requirements
N/A		
N/A		

Officer Checking advert:

No of responses received	N/A
--------------------------	-----

Summary of responses and how they were taken into account during the determination:

N/A

Summary of responses withheld from the public register on request and how they were taken into account during the determination:

N/A

Is PPC Statutory Consultation Required?

(if no delete rows below)

No

Food Standards Agency:	N/A
Health Board:	N/A
Local Authority	N/A
Scottish Water	N/A
Health and Safety Executive	N/A

NatureScot	N/A
Discretionary Consultation required? (if yes provide justification and details below, otherwise delete row)	No
N/A	
Enhanced SEPA Consultation required? (if yes provide justification and details below, otherwise delete row)	No
N/A	
“Off site” consultation required (if yes provide justification and details below, otherwise delete row)	No
N/A	
Transboundary Consultation required? (if yes provide justification and details below, otherwise delete row)	No
N/A	
Is Public Participation Consultation Required? (if yes provide justification and details below, otherwise delete rows below)	Yes
STATEMENT ON THE PUBLIC PARTICIPATION PROCESS The Pollution Prevention and Control (Public participation)(Scotland) Regulations 2005 requires that SEPA’s draft determination of this application be placed on SEPA’s website and public register and be subject to 28 days’ public consultation. The dates between which this consultation took place, the number of representations received and SEPA’s response to these are outlined below.	
Date SEPA notified applicant of draft determination	27/02/2024
Date draft determination placed on SEPA’s Website	28/02/2024
Details of any other ‘appropriate means’ used to advertise the draft. Seek advice from the communication department	
Date public consultation on draft permit opened	28/02/2024
Date public consultation on draft permit consultation closed	
Number of representations received to the consultation	
Date final determination placed on the SEPA’s Website	
Summary of responses and how they were taken into account during the determination:	

3 Administrative determinations
Determination of the Schedule 1 Activity
No change
Determination of the Stationary Technical Unit to be permitted
No change
Determination of Directly Associated Activities
No change
Determination of Site Boundary

No change

4 Introduction and Background

4.1 Historical Background to the activity and variation

Petroineos has completed a number of upgrades over the last four years to remove the use of fuel oil and also reconfigured the site to remove two significant units equating to around a third of its former capacity. This variation has been requested to extend the time limit for a final upgrade to the Site fuel gas system to remove Sulphur. This is due to ongoing construction delays.

4.2 Description of activity

Oil refinery with a capacity of 150,000 barrels per day.

4.3 Outline details of the Variation applied for

See non-technical summary.

4.4 Guidance/directions issued to SEPA by the Scottish Ministers under Reg.60 or 61.

None.

4.5 Identification of important and sensitive receptors

See Derogation applications 2018.

5 Key Environmental Issues

5.1 Summary of significant environmental impacts

The change requested will affect air emissions only. Sulphur emission improvements will be further delayed, but this is within the context of the Site already exceeding BAT requirements as determined in the 2018 BREF Review.

5.2 Emissions to Air

Point Source emission to air:

Further Extension to Sulphur Derogation Timeline of Nine Months

The delayed installation of a Sulphur scrubber on the fuel gas system will result in the emission of a worst case estimate of an additional 130 Tonnes of Sulphur, delaying full compliance with the Sulphur Derogation in Annex I of the Permit.

Considerations include:

1. Upgrades and changes on the Site since the BAT Review in 2018 mean that overall SO_x emissions have fallen from ~4500 Tonnes per year to ~1500 Tonnes per year. This improvement exceeds the previous BAT estimate of 1798 Tonnes per year for the Site.
2. Two out of the three Sulphur derogations have been complied with / no longer apply due to unit closure. The original Cost Benefit Assessment (CBA) combined all three and the delayed scrubber was the smallest element of the work. This CBA in 2018 concluded that total costs exceeded benefits by £310 million.
3. The extension will lead to a maximum of an additional 130 Tonnes of Sulphur being released over the period (for context Site emissions have fallen from ~12 Tonnes per day to ~5 - 8 Tonnes per day currently).

SEPA is minded to approve the request due to the technical reasons presented (ongoing construction delays) and the context of a reduced site-wide Sulphur emission since the original derogation was determined.

Fugitive emissions to air:

None.
Odour:
None.
5.3 Emissions to Water
Point Source Emissions to Surface Water and Sewer:
None.
Point Source Emissions to Groundwater:
None.
Fugitive Emissions to Water:
None.
5.4 Noise
None.
5.5 Resource Utilisation
Water use
None.
Energy use and generation
None.
Raw Materials Selection and Use
None.
5.6 Waste Management and Handling
Waste Minimisation
None.
Waste Handling
None.
Waste Recovery or Disposal
None.
5.7 Management of the site
Environmental Management System
None.
Accidents and their Consequences
None.
Closure
None.
5.8 Site Condition report
None.
5.9 Monitoring
Air
The delay will also impact the project to replace the CEMS units on Site. The existing units will remain operational until they are replaced by Q4 2024.

There will be a one-month period when the CEMS units on site will not be operational as they are replaced to enable accurate readings of Sulphur levels going forward. Adequate proxy and extractive monitoring have been proposed during this period and accepted by SEPA.

Water

None.

Soil and Groundwater

None.

Waste

None.

5.10 Consideration of BAT and compliance with BAT-Cs if appropriate

Extension to Sulphur Derogation Timeline of Nine Months

The upgrade will bring the Site's Sulphur emissions down to the BAT AEL of 35mg/m³. Site BAT was fully described for Sulphur during the BREF Review in 2018 and this has already been exceeded on an annual mass basis as described in Section 5.2 above.

6 Other Legislation Considered

Nature Conservation (Scotland) Act 2004 & Conservation (Natural Habitats &c.) Regulations 1994

Is there any possibility that the proposal will have any impact on site designated under the above legislation? **No**

If yes, provide information on the action and justification below:

N/A

Screening distance(s) used

N/A

Is there any other legislation that was considered during determination of the permit (for example installations that may be impacted by the requirements of legislation involving Animal By Products, Food Standards, Waste, WEEE regulations etc). **No**

If yes, provide information on the legislation, action and justification below:

N/A

7 Environmental Impact Assessment and COMAH

How has any relevant information obtained or conclusion arrived at pursuant to Articles 5, 6 and 7 of Council Directive 85/337/EEC on the assessment of the effects certain public and private projects on the environment been taken into account?

N/A - Emissions have fallen considerably from the Site over the past three years and will not increase as a result of the proposed changes.

How has any information contained within a safety report within the meaning of Regulation 7 (safety report) of the Control of Major Accident Hazards Regulations 1999 been taken into account?

N/A

8 Details of the permit

Do you propose placing any non standard conditions in the Permit? **No**

Part A Permit Application or Variation Dec. Doc (sec 2 technical)

Form: IED-DD-02

Page no: 7 of 8

Do you propose making changes to existing text, tables or diagrams within the permit?		Yes
Outline the changes required and provide justification below:		
Proposed Condition Number:	Proposed Change:	Justification:
Table 5.1	Amend dates in Note 1 and Note 2 to reflect requested change.	Required to amend Compliance date.
Table 6.1	Amend dates in Note 1 and Note 2 to reflect requested change.	Required to amend Compliance date.
Annex I	Amend dates to reflect requested change.	Required to amend Compliance date.

9 Emission Limit Values or Equivalent Technical Parameters/Measures	
Are you are dealing with either a permit application, or a permit variation which would involve a review of existing ELVs or equivalent technical parameters?	No
Outline the changes required and provide justification below:	
No, ELVs unchanged.	

10 Peer Review	
Has the determination and draft permit been Peer Reviewed?	Yes
Comments made:	
No comments	

11 Final Determination	
Issue of a Permit - Based on the information available at the time	
Issue a Permit – Based on the information available at the time of the determination SEPA is satisfied that <ul style="list-style-type: none"> • The applicant will be the person who will have control over the operation of the installation/mobile plant, • The applicant will ensure that the installation/mobile plant is operated so as to comply with the conditions of the Permit, • The applicant is a fit and proper person (specified waste management activities only), • Planning permission for the activity is in force (specified waste management activities only), • That the operator is in a position to use all appropriate preventative measures against pollution, in particular through the application of best available techniques. • That no significant pllution should be caused. 	