

NOTIFICATION AS REQUIRED BY CONDITION 4.3.1 of Permit BL4567IZ

SCHEDULE 5

Part A

Permit Number	BL4567IZ
Name of Operator:	Vale Europe Limited
Location of Facility	Clydach Refinery, Clydach, Swansea, SA6 5QR.
Time and date of the detection	During October / November Emissions Monitoring

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified Immediately	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a permit condition	
To be notified immediately	
Emission point reference/ source	A1 – Kiln Plant “Born “ Heater A28 – Hydrogen Plant Reformer Furnace and Flue Gas Heaters A30 – Hydrogen Plant Ruston Boiler A46 – Filtered extract from FMW off-loading area – recovery conveyor system
Parameter(s)	NO _x , Dust
Limit	NO _x – 100 mg/m ³ Dust – 5 mg/m ³
Measured value and uncertainty	A1 – NO _x – 130.77 mg/m ³ A28 – NO _x – 110.32 mg/m ³ A30 – NO _x – 126.91 mg/m ³ A46 – Dust – 7.01 mg/m ³
Date and time of monitoring	A1 – 11/10/21 – 14:30 – 15:30 A28 – 12/10/2021 - 12:20 – 13:20 A30 – 12/10/2021 - 15:20 – 16:20 A46 – 03/11/2021 - 13:40 – 15:40
Measures taken, or intended to be taken, to stop the emission	To follow

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(c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:	
To be notified immediately	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	Structured investigation undertaken on A46 – Filtered extract from FMW off-loading area – recovery conveyor system following the identification of elevated dust monitoring result. The filter system had undergone routine maintenance prior to monitoring.												
Measures taken, or intended to be taken, to prevent a recurrence of the incident	Further investigation has identified the following measures planned to be implemented to prevent a recurrence of this incident in future :- A46 – Filtered extract from FMW off-loading area – recovery conveyor system – dust build up in ducting cleared from the clean side of the filter system. Scheduled re-test in March 2022 to ensure emission point is now in compliance. A30 & A31 – Hydrogen Plant Ruston Boilers – These are scheduled for replacement in 2022. The installation timeline has been created and planned for implementation during 2022. A1 & A2 – Kiln Plant Born Heaters – These are identified in the production 5-year capital plan and programmed for an engineering project to undertake a design and scope for an upgraded burner system. The technical specification has been drafted for the design of the burner system and emission permit limits have been incorporated into the spec. A27 & A28 - Hydrogen Plant Reformer Furnace and Flue Gas Heaters - Further investigation is required to identify whether improved methods or advanced technologies can be applied /retrofitted to improve the emission points performance.												
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	N/A												
The dates of any unauthorised emissions from the facility in the preceding 24 months.	<table> <tr> <td>03rd May 2019</td><td>W1 Total, Sol Ni & Suspended solids</td></tr> <tr> <td>29th September 2019</td><td>W10 Use of Refinery emergency Flood Pumps</td></tr> <tr> <td>22nd October 2019</td><td>W1 Total & Sol Ni</td></tr> <tr> <td>21st January 2020</td><td>W1 Total Ni and Suspended Solids</td></tr> <tr> <td>29th June 2020</td><td>W1 Total and Sol Ni</td></tr> <tr> <td>October 2020</td><td>W1 pH</td></tr> </table>	03 rd May 2019	W1 Total, Sol Ni & Suspended solids	29 th September 2019	W10 Use of Refinery emergency Flood Pumps	22 nd October 2019	W1 Total & Sol Ni	21 st January 2020	W1 Total Ni and Suspended Solids	29 th June 2020	W1 Total and Sol Ni	October 2020	W1 pH
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	December 2020 relating to September monitoring 03 rd May 2021 July 2021 relating to March monitoring	A1.A26,A28,A31 NOx & CO W1 pH A18, A78 CO & Dust
Name*	Richard De Filippo	
Post	Sustainability Supervisor	
Signature	<i>Richard De Filippo</i>	
Date	21/02/2022	

* authorised to sign on behalf of the operator