



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Argent Energy Limited

Argent Biodiesel Stanlow Plant
Oil Sites Road
Ellesmere Port
Cheshire
CH65 4BD

Variation application number

EPR/LP3233DK/V008

Permit number

EPR/LP3233DK

Argent Biodiesel Stanlow Plant

Permit number EPR/LP3233DK/V008

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. Only the variations specified in schedule 1 are subject to a right of appeal.

The permit has been reviewed against the requirements of the Medium Combustion Plant Directive for 2025 and 2030 and relevant conditions and monitoring requirements have been added.

This variation is for:

- Adding activity AR2b, the Argent North esterification process, which is a Section 4.1 Part A(1) (a) (ii) activity.
- Increasing the installation's biodiesel production limit from 90,000 tonnes per annum (tpa) to 130,000 tpa.
- Consolidating and increasing the waste input limits of 108,000 tpa for fats, oils and greases (FOGs) and 31,200 tpa for tallow to 185,600 tpa.
- Replacing refinery gas with natural gas as fuel for activities AR9, AR10, AR11 and AR12.
- Adding a directly associated activity of a FOG treatment facility.
- Authorising the use of boiler fuel oil storage tanks.
- Adding air emission points of A11, A12, A13, A14, A15 and tank vents.
- Changing the sampling method for monitoring from emission point S1.

The rest of the installation will operate as before, with the main features therefore being as follows:

The Argent Biodiesel Stanlow Plant can produce up to 130,000 tonnes/year biodiesel from up to 185,600 tonnes/year of methyl ester from unprocessed and pre-processed waste FOGs (including separated FOG materials from sewer cleaning activities and tallow). There are three pre-treatment plants where the FOGs are initially screened, separated and filtered to remove solids and water. Tallow is sterilised before processing to satisfy the requirements of Animal By-Products legislation. They are then esterified with methanol, which is a Section 4.1 Part A(1)(a)(ii) activity. The resulting methyl esters are separated from residual water, methanol and glycerine by distillation, coalescence and settlement to produce biodiesel. The processes generate waste glycerine, which is sent off-site for further recovery, and potassium sulphate.

Process water and an imported aqueous waste stream from the operator's other sites is collected for treatment in an effluent treatment plant with a maximum capacity of 300 m³/day, comprising Dissolved Air Flotation, Membrane Bioreactor, Ultrafiltration and Reverse Osmosis. This is permitted as a Section 5.4 Part A(1)(a)(i) with Directly Associated Activities whose output is reused in the process or discharged into the surrounding Essar Oil (UK) Limited Stanlow Manufacturing Complex wastewater system (Unit 78), where it is subject to further treatment prior to discharge to public sewer.

The process requires steam and heat, which are provided by existing medium combustion plant (MCP) of thermal oil units (3.8 MWth and 4.65 MWth) fuelled by either natural gas (after the fuel switch from refinery gas) or gas oil and three existing MCP of steam boilers (9.4 and 2 x 13 MWth input) fuelled by natural gas (after the fuel switch from refinery gas), with gas oil as a back-up fuel for one boiler, which emit combustion gases to air through stacks. Odour control is provided by undertaking most activities on the installation inside buildings with ventilation systems connected to abatement systems such as water scrubbers and bio-filter or

activated carbon. The treated air is emitted through stacks. There is an external bunded tank farm for raw materials and products.

Waste solids are disposed off-site to landfill and incineration or recovered where possible. Some waste streams are mixed to provide a feedstock for off-site anaerobic digestion.

Clean surface water run-off from the site is collected and discharged to the River Gowy (emission points W3 and W4) via a balancing pond and swales.

The site is located in an industrial area of Ellesmere Port associated with Stanlow Oil Refinery at national grid reference SJ 43255 76391. The nearest village is Ince, located 1.5 km to the east. The site is approximately 3 ha in area and located in a relatively flat and low-lying area in the floodplain of the River Gowy and Manchester Ship Canal, which lie 132 m west and 340 m north, respectively. The Mersey Estuary lies 450 m north of the site, which is designated as a Site of Special Scientific Interest (SSSI), Special Protection Area (SPA) and Ramsar site, and the River Dee and Bala Lake lies just under 10 km to the south of the site, which is designated as a Special Area of Conservation (SAC).

Argent Energy (UK) Limited operates an environmental management system based on ISO14001.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit		
Description	Date	Comments
Application EPR/LP3233DK/A001	Duly made 08/06/2016	Application for biodiesel pre-treatment facility.
Additional information received	17/06/2016	Drainage drawing, noise assessment.
Additional information received	23/06/2016	Updated drainage drawing.
Additional information received	24/06/2016	Confirmation of site postcode and process details.
Additional information received	13/07/2016	Tank list.
Additional information received	14/07/2016	Material safety data sheets for materials stored in bulk, bulk material handling and emergency spill response procedures.
Additional information received	25/07/2016	Response to Schedule 5 Notice, dated 30/06/2016. Additional details for noise assessment, air quality assessment and environmental risk assessment (H1 model, energy consumption, global warming potential and waste assessment).
Additional information received	26/07/2016	Specifications for underground tanks, confirmation of site name, sewer discharge point location, bund water management and surface water management.
Additional information received	30/08/2016	Response to Schedule 5 Notice, dated 12/08/2016. Additional modelling of effluent in H1, revised Odour Management Plan, waste pre-acceptance and acceptance, site layout drawing, updated tank list, Accident Management Plan.
Additional information received	15/09/2016	Revised site layout drawing.
Additional information received	16/09/2016	Confirmation that penstock valves will be installed at the inlets to Swales A, B & C.

Status log of the permit		
Description	Date	Comments
Additional information received	23/09/2016	Justification of proposed ELVs for A1 & A2, confirmation of ammonia analysis method and frequency for sewer discharge.
Permit determined EPR/LP3233DK	18/10/2016	Permit issued to Argent Energy (UK) Limited.
Application EPR/LP3233DK/V002 (variation and consolidation)	Duly made 27/01/2017	Application to vary the permit to include phase 2 operations (additional biodiesel pre-treatment and biodiesel production plant).
Additional information received	15/03/2017	Site layout plan showing emission points.
Additional information received	06/04/2017	Stack temperature correction technical note and associated air modelling files.
Additional information received	19/05/2017	Revised site layout plan showing emission points.
Additional information received	09/06/2017	Response to Schedule 5 Notice, dated 16/05/2017, plan showing raw materials storage, plan showing surface water monitoring locations, swale monitoring and bund water management procedure, additional modelling of process vents in H1, updated tank list, waste transfer notes, catalyst MSDS.
Additional information received	12/06/2017	Response to Schedule 5 Notice, dated 16/05/2017: Updated Site Condition Report.
Additional information received	16/06/2017	Confirmation of construction detail of concrete-lined swale and balancing pond.
Additional information received	30/06/2017	Updated Site Condition Report.
Additional information received	04/07/2017	Confirmation of primary control measures on combustion sources.
Additional information received	05/07/2017	Confirmation of storage of moveable containers of raw material, waste and product, response to request to identify waste storage area in Phase 2.
Additional information received	11/07/2017	Revised materials storage plan and surface water sampling plan.
Variation determined EPR/LP3233DK/V002	27/07/2017	Permit variation issued
Application EPR/LP3233DK/V003 (variation)	Duly made 24/11/2017	Administrative variation to add waste codes
Variation determined EPR/LP3233DK/V003	05/01/2018	Permit variation issued
Regulation 61 Notice (Notice requiring information for statutory review of permit as EPR/LP3233DK/V004)	Dated 16/05/2018	Response received 22/08/2018.
Request for further information	11/10/2018	Requested response to CWW BATc and Soil/Groundwater, Water Framework Directive and permit condition review questions. Response received 31/01/2019.
Request for further information	04/03/2020	Request for further information on LVOC and CWW BATc and Soil/Groundwater, Water Framework Directive and permit condition review questions. Response received 01/04/2020.

Status log of the permit		
Description	Date	Comments
Request for further information	02/06/2020	Further clarification of previous request for information response. Response received 16/06/2020.
Application EPR/LP3233DK/V004 (variation and consolidation)	Environment Agency initiated variation	Statutory review of permit occasioned by LVOC Bat Conclusions published 07 December 2017
Variation determined EPR/LP3233DK/V004	29/01/2021	Varied and consolidated permit issued
Application EPR/LP3233DK/V005 (variation)	Duly made 11/05/2020	Variation to permit changes to effluent treatment plant and accepted waste streams
Additional information received (response to Schedule 5 notice dated 10/12/2020)	Response Received 29/12/2020	Additional information requested in regard to the new aqueous waste stream; MBR seeding material; and venting of, and wastes from, the new effluent treatment operations.
Variation determined EPR/LP3233DK/V005	12/02/2021	Consolidated variation issued
Application EPR/LP3233DK/V006 (variation)	Duly made 25/09/2020	Variation to permit operation of an activated carbon odour abatement plan
Additional information received (response to Schedule 5 notice dated 09/03/2021)	Response Received 16/04/2021	Additional information requested in regard to design and intended operation of the activated carbon abatement plant.
Variation determined EPR/LP3233DK/V006	14/05/2021	Consolidated variation issued
Application EPR/LP3233DK/V007 (variation and consolidation)	Duly made 22/09/2021	Application to vary and consolidate the permit to authorise new emission limit values and operation of Phase 2, Boiler 2 on refinery gas or gas oil.
Additional information received (response to Schedule 5 Notice dated 09/11/2021)	10/12/2021	Additional information received on: <ul style="list-style-type: none"> • Specification and testing of refinery gas. • Specifications of boilers. • Actions taken to comply with emission limit values. • Justification for proposed new emission limit values and evidence of compliance. • Impact of higher emission limit values on odour. • Justification that The Refining of Mineral Oil and Gas BREF does not apply. Air quality dispersion modelling.
Additional information received	04/02/2022	Response to request for further information dated 23/12/2021 on: <ul style="list-style-type: none"> • Quality of refinery gas streams supplied to Argent Energy by Essar. • Correlation between sulphur content of refinery gas and SO₂ emissions from Argent Energy. • Procurement of the Argent Energy boilers. • Future fuel desulphurisation projects. Thermal rating of boilers.

Status log of the permit		
Description	Date	Comments
Additional information received	04/02/2022	Response to request for further information dated 26/01/2022 on: <ul style="list-style-type: none"> Analysis of refinery gas for sulphur. Control of sulphur input to Argent Energy in refinery gas. Future frequency and techniques for monitoring of SO ₂ by Argent Energy.
Additional information received (response to Schedule 5 Notice dated 09/02/2022)	28/02/2022	Additional information received on: <ul style="list-style-type: none"> Costs of boiler refurbishment. Control of sulphur in refinery gas. Amount of refinery gas burned at Argent Energy. Assessment of impact of gaseous releases of particulate matter and carbon monoxide.
Additional information received (response to request for information dated 30/03/2022)	06/04/2022, 07/04/2022	Additional information received on extent of area in the protected conservation site where process contribution exceeds 1% of environmental standard.
Additional information received (response to request for further information dated 14/04/2022)	22/04/2022, 10/06/2022	Additional information received on potential remodelling of predicted NOx impacts on protected conservation sites using reduced emission limit values.
Additional information received	05/08/2022	Additional information on assessment of potential impacts of NOx releases on Mersey Estuary protected habitat sites.
Variation determined and consolidation issued EPR/LP3233DK Billing ref: LP3233DK	17/01/2023	Varied and consolidated permit issued
Application EPR/LP3233DK/T009 (full transfer of permit EPR/LP3233DK)	Duly made 01/07/2024	Application to transfer the permit in full to Argent Energy Limited
Transfer determined EPR/LP3233DK	10/09/2024	Full transfer of permit complete
Application EPR/LP3223DK/V008 (variation and consolidation)	Duly made 20/08/2024	Application to vary and consolidate the permit to: <ul style="list-style-type: none"> Add the Argent North esterification process, the FOG Treatment Facility, boiler fuel oil storage and air emission points of A11, A12, A13, A14, A15 and tank vents. Increase throughput and waste input. Switch from refinery to natural gas use. Update the S1 monitoring method.
Additional information received (response to Schedule 5 Notice dated 23/09/2024)	25/09/2024	Updated site plan and additional information received including: <ul style="list-style-type: none"> The waste classification of 'palm oil mill effluent'. Procedures for repurposing tanks and process equipment.

Status log of the permit		
Description	Date	Comments
		<ul style="list-style-type: none"> The process for the recovery of methanol.
Variation determined and consolidation issued EPR/LP3233DK	18/11/2024	Varied and consolidated permit issued in modern format.

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Essar Oil (UK) Limited	EPR/FP3139FN Stanlow Manufacturing Complex	Original permit EPR/NP3237LS issued to Shell UK Oil Products Ltd 23/12/08. Permit transferred in full from Shell UK Oil Products Ltd 01/08/11.

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

Permit number

EPR/LP3233DK

Issued to

Argent Energy Limited (“the operator”)

whose registered office is

**Swire House
59 Buckingham Gate
London
SW1E 6AJ**

company registration number 5455240

to operate a regulated facility at

**Argent Biodiesel Stanlow Plant
Oil Sites Road
Ellesmere Port
Cheshire
CH65 4BD**

to the extent set out in the schedules.

The notice shall take effect from 18/11/2024.

Name	Date
Sandra Cavill	18/11/2024

Authorised on behalf of the Environment Agency

Schedule 1

The following conditions were varied as a result of the application made by the operator:

- Table S1.1 Activities, as referenced by conditions 2.1.1, 2.3.7 and 3.5.5.
- Table S1.2 Operating techniques, as referenced by conditions 2.3.1 and 2.3.2.
- Table S1.3 Improvement programme requirements, as referenced by condition 2.4.1.
- Table S1.4 Pre-operational measures for future development, as referenced by condition 2.5.1.
- Table S2.1 Raw materials and fuels, as referenced by condition 2.3.3.
- Table S2.2 Permitted waste types and quantities for processing prior to esterification, as referenced by condition 2.3.4.
- Table S3.1 Point source emissions to air – emission limits and monitoring requirements, as referenced by conditions 3.1.1, 3.5.1 and 3.5.4.
- Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements, as referenced by conditions 3.1.1, 3.5.1 and 3.5.4.
- Table S4.3 Performance parameters, as referenced by condition 4.2.2.
- Schedule 7 – Site plan, as referenced by condition 2.2.1.

The following conditions were varied as a result of an Environment Agency initiated variation:

- Table S1.3 Improvement programme requirements, as referenced by condition 2.4.1.
- Table S3.1 Point source emissions to air – emission limits and monitoring requirements, as referenced by conditions 3.1.1, 3.5.1 and 3.5.4.
- Table S4.1 Reporting of monitoring data, as referenced by condition 4.2.3.
- Schedule 6 – Interpretation, as referenced by condition 4.4.1.

The following conditions were added as a result of the application made by the operator:

- 2.5.1

The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

The following conditions are added as a result of an Environment Agency initiated variation:

- 2.3.7

For the following activities referenced in Schedule 1 Table S1.1 AR9, AR10, AR11, AR12 and AR13:

- (a) The operator must keep periods of start-up and shut down of the combustion plant as short as possible.
- (b) There shall be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993.

- 3.5.5

For the following activities referenced in Schedule 1 Table S1.1 AR9, AR10, AR11, AR12 and AR13: For existing MCP monitoring measurements shall be carried out before the relevant compliance date or within four months of the issue date of the permit, whichever is the later.

- 3.5.6

Monitoring of MCP shall not take place during periods of start up or shut down.

- 4.1.3

The operator shall maintain a record of the type and quantity of fuel used and the total annual operating hours for each MCP.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number**EPR/LP3233DK**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/LP3233DK/V008 authorising,

Argent Energy Limited ("the operator"),

whose registered office is

**Swire House
59 Buckingham Gate
London
SW1E 6AJ**

company registration number 5455240

to operate an installation at

**Argent Biodiesel Stanlow Plant
Oil Sites Road
Ellesmere Port
Cheshire
CH65 4BD**

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Sandra Cavill	18/11/2024

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.
- 1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation (“plan”) specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 table S2.2 and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
 - (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.7 For the following activities referenced in Schedule 1 Table S1.1 AR9, AR10, AR11, AR12 and AR13:
 - (a) The operator must keep periods of start-up and shut down of the combustion plant as short as possible.
 - (b) There shall be no persistent emission of ‘dark smoke’ as defined in section 3(1) of the Clean Air Act 1993.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1, S3.2 and S3.3.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.4 Noise and vibration

Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.4.1 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

- (a) point source emissions specified in tables S3.1, S3.2 and S3.3.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, S3.2 and S3.3 unless otherwise agreed in writing by the Environment Agency.

3.5.5 For the following activities referenced in Schedule 1 Table S1.1 AR9, AR10, AR11, AR12 and AR13: For existing MCP monitoring measurements shall be carried out before the relevant compliance date or within four months of the issue date of the permit, whichever is the later.

3.5.6 Monitoring of MCP shall not take place during periods of start up or shut down.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

- (i) off-site environmental effects; and
- (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.1.3 The operator shall maintain a record of the type and quantity of fuel used and the total annual operating hours for each MCP.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production /treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
- (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
- (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter, if during that quarter the total amount accepted exceeds 100 tonnes of non-hazardous waste or 10 tonnes of hazardous waste.

4.3 Notifications

4.3.1 In the event:

- (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,

- (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) 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, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

4.3.4 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1	Section 4.1 Part A(1)(a)(ii) Producing organic chemicals containing oxygen	<u>Biodiesel Pre-treatment (including HP Plant)</u> The production of methyl ester by esterification of waste fats, oils and greases (FOGs) (including tallow). Separation of methyl esters from residual water, methanol and glycerine by distillation, coalescence and settlement. Methyl esters may be sent off-site for further recovery as biodiesel. Waste glycerine sent off-site for further recovery or used elsewhere on-site. Reaction vessels: Phase 1 pre-esterification reactors 1 & 2 (production capacity of each > 2,000 tpa).	From receipt of raw materials and waste to storage and despatch of methyl ester and glycerine. FOGs from AR6 and AR7 in this table only. Production of up to 130,000 tonnes/year methyl ester for further recovery as biodiesel.
AR2a	Section 4.1 Part A(1)(a)(ii) Producing organic chemicals containing oxygen	<u>Processed Oil Plant</u> The production of glycerised oil by glycerolysis of waste FOGs (including tallow) using glycerine. Transition metal catalyst may be used. Separation of glycerised oil from residual water, spent catalyst and glycerine by distillation, coalescence and settlement. Waste glycerised oil may be sent off-site for further recovery as biodiesel. Waste glycerine will be reused in the process. Reaction vessels: Argent North glycerolysis reactors 1 & 2 (production capacity of each > 2,000 tpa).	From receipt of raw materials and waste to storage and despatch of glycerised oil. FOGs from AR6 and AR7 in this table or imported. Glycerine from on-site operations or imported. Production of up to 130,000 tonnes/year glycerised oil for further recovery as biodiesel. Not operational if AR2b is operational.
AR2b	Section 4.1 Part A(1)(a)(ii) Producing organic chemicals containing oxygen	<u>Argent North Esterification Process</u> The production of crude Fatty Acid Methyl Ester (FAME) by low temperature reaction of waste FOGs (excluding tallow) with methanol. Catalyst may be used. Reaction vessels: Argent North Reaction Vessels 1, 2 & 3 (maximum capacity of 42 m ³ each).	From receipt of raw materials and waste to transfer to any biodiesel production trans-esterification reactor (AR4). FOGs received by road tanker from Argent Oil Terminal. Production of up to 130,000 tonnes/year FAME for further recovery as biodiesel. Not operational if AR2a is operational.
AR3	Section 4.1 Part A(1)(a)(ii) Producing organic chemicals containing oxygen	<u>Biodiesel Refinery Pre-esterification</u> The production of esterified oil from methyl esters produced by AR1 in this table (and glycerised oil / FAME produced by AR2a / AR2b in this table if free fatty acid content too low). Separation of esterified oil from	From receipt of raw materials and waste to storage and despatch of esterified oil.

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
		residual water by settlement. Esterified oil ready for biodiesel production. Biodiesel Refinery pre-esterification reactors 1 & 2 (production capacity of each > 2,000 tpa).	Inputs from AR1, AR2a and AR2b in this table or imported. Production of up to 130,000 tonnes/year esterified oil for further recovery as biodiesel.
AR4	Section 4.1 Part A(1)(a)(ii) Producing organic chemicals containing oxygen	<u>Biodiesel Production Plant</u> The production and purification of biodiesel. Trans-esterification of glycerised oil and esterified oil using potassium methanolate catalyst. Separation of methyl esters from residual water, methanol and glycerine by distillation and settlement to produce biodiesel. Distillate bottoms from second column known as biofuel oil. Waste glycerine processed further to remove water and methanol and used in AR2a in this table. Potassium sulphate generation. Biodiesel production trans-esterification reactors 1 - 4 (production capacity of each > 2,000 tpa).	From receipt of raw materials and waste to storage and despatch of biodiesel. Inputs from AR2a, AR2b and AR3 in this table only. Production of up to 130,000 tonnes/year biodiesel.
AR5	Section 5.4 Part A(1)(b)(i) Disposal, recovery or a mix of disposal and recovery of non-hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment	R3 - Recycling/reclamation of organic substances which are not used as solvents D8 - Disposal of non-hazardous waste to foul sewer.	From receipt of effluent from Dissolved Air Flotation plant through membrane bioreactor treatment to recovery into process and/or discharge to further effluent processing. Effluent treatment of up to 28 m ³ /hour with a maximum daily flow of 672 m ³ /day.
Directly Associated Activity			
AR6	Receipt, storage and pre-treatment of FOGs	From receipt of FOGs, brown grease and boiler fuel oil, pre-treatment by screening, sieving, separation and rotary drum vacuum filtration to storage prior to esterification. Management and storage of wastes generated by this activity.	Receipt of non-hazardous waste FOGs up to a combined total with tallow from AR7 and brown grease from AR22 of 185,600 tonnes/year. Receipt of boiler fuel oil from AR23. Permitted waste types defined in Table S2.2 of this permit. Total amount of waste FOGs and tallow present on site at any time that have not been esterified shall not exceed 3,674 m ³ .

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR7	Receipt, storage, sterilisation and pre-treatment of tallow	From receipt of tallow, pre-treatment by sterilisation, sieving, separation and rotary drum vacuum filtration to storage prior to esterification. Management and storage of wastes generated by this activity.	Receipt of non-hazardous waste tallow up to a combined total with FOGs from AR6 and brown grease from AR22 of 185,600 tonnes/year. Permitted waste types defined in Table S2.2 of this permit. Total amount of waste FOGs and tallow present on site at any time that have not been esterified shall not exceed 3,674 m ³ .
AR8	Storage and use of wood flour as filtration medium	Receipt of wood flour to Wood Flour Store (as shown on the site plan in Schedule 7 to this permit), storage and transfer to rotary vacuum drum filters.	Storage in sealed bags in separate enclosed room with extraction and air filtration systems to minimise airborne dust.
AR9	Steam supply from operation of a Schedule 25A Medium Combustion Plant	Operation of a steam boiler with a net rated thermal input of 9.4 MWth (Phase 1 Boiler) to provide steam supply to site. (Note 1)	From receipt of fuel to release of products of combustion to air.
AR10	Heat supply from operation of a Schedule 25A Medium Combustion Plant	Operation of a thermal oil unit a net rated thermal input of 3.8 MWth to provide heating for pre-esterification reaction and associated plant. (Note 1)	From receipt of fuel to release of products of combustion to air.
AR11	Steam supply from operation of a Schedule 25A Medium Combustion Plant	Operation of a steam boiler with a net rated thermal input of 13 MWth (Phase 2 Boiler 1) to provide steam supply to site. (Note 1)	From receipt of fuel to release of products of combustion to air. Not operational if Phase 2 Boiler 2 is operating at full capacity.
AR12	Steam supply from operation of a Schedule 25A Medium Combustion Plant	Operation of a steam boiler with a net rated thermal input of 13 MWth (Phase 2 Boiler 2) to provide steam supply to site. (Note 2)	From receipt of fuel to release of products of combustion to air. Only operational at full capacity if Phase 2 Boiler 1 not operating, or a maximum of 25% capacity if Phase 2 Boiler 1 is operating. Specification of fuel is defined in Schedule 2, Table S2.1 of this permit.
AR13	Heat supply from operation of a Schedule 25A Medium Combustion Plant	Operation of a thermal oil heater fuelled on gas oil with a net rated thermal input of 4.65 MWth to provide heating for the glycerolysis process.	From receipt of fuel to release of products of combustion to air.

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
			Specification of fuel is defined in Schedule 2, Table S2.1 of this permit.
AR14	Abatement	Operation of the Odour Control Unit 1 and associated plant and equipment.	From capture of emissions from the installation, their treatment by water scrubbing and biofiltration to emission to air.
AR15	Waste handling and storage	Handling and storage of solid wastes generated by the pre-treatment of oil, the pre- and trans-esterification processes, the glycerolysis process, the treatment of waste water and the FOG Treatment Facility.	Storage of solid wastes comprising coarse screenings, drum screenings, tricanter solids, waste wood flour and filter press solids in separate labelled bays in the Waste Storage Area (as shown on the site plan in Schedule 7 of this permit) on an impermeable surface with a sealed drainage system. Any containers containing wastes or residues of wastes shall be stored within secondary containment bunds with collision protection and on an impermeable surface with sealed drainage system.
AR16	Raw material storage	Storage of raw materials, including water softening agents, acids, potassium hydroxide, methanol, boiler chemicals, cooling tower chemicals, wastewater treatment chemicals, glycol, gas oil and biofuel oil, transition metal catalyst, sodium hydroxide and Argent North esterification process additive substance.	From receipt of raw materials to despatch for use within the facility. Any containers containing potentially polluting raw materials shall be stored within secondary containment bunds with collision protection and on an impermeable surface with sealed drainage system.
AR17	Surface water drainage	Surface water drainage prior to discharge from the installation via swales and balancing pond.	Discharge to River Gowy via swales and balancing pond.
AR18	AD Soup preparation	Mixing of waste streams to generate a feedstock optimised for anaerobic digestion	Mixing and storage of waste streams to despatch off-site
AR19	Effluent treatment before membrane bioreactors	Collection, storage and Dissolved Air Flotation treatment of aqueous non-hazardous waste	From receipt of effluent from scheduled activities plus up to 25,550 tonnes/year of aqueous waste (from Argent Oil Terminal or Argent Energy Motherwell site) to

Table S1.1 Activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
			discharge to membrane bioreactors
AR20	Effluent treatment after membrane bioreactors	Ultrafiltration and Reverse Osmosis treatment and storage of aqueous non-hazardous waste	From receipt from membrane bioreactors to recovery into process and/or discharge to foul sewer
AR21	Abatement for emission point A10	Operation of the Odour Control Unit 2 and associated plant and equipment.	From capture of emissions from the installation, their treatment by activated carbon to emission to air.
AR22	FOG Treatment Facility	Receipt of non-hazardous FOG-containing aqueous effluent and treatment by screening and separation to concentrate FOGs as brown grease.	From receipt of up to 100 m ³ of effluent to production and storage of FOGs as brown grease. Permitted waste types defined in Table S2.2 of this permit.
AR23	Boiler fuel oil storage	Storage of boiler fuel oil in tanks	From receipt of boiler fuel oil from AR4 to return to AR6 for further processing. Tanks shall be stored within secondary containment bunds with collision protection and on an impermeable surface with sealed drainage system.
<p>Note 1: Fuelled by refinery gas until 18/11/2025 or alternative date to be agreed in writing with the Environment Agency, after which fuelled by natural gas.</p> <p>Note 2: Fuelled by refinery gas or gas oil until 18/11/2025 or alternative date to be agreed in writing with the Environment Agency, after which fuelled by natural gas or gas oil.</p>			

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/LP3233DK/A001	All supporting information documents referenced in response to Part B2 and B3 of the application form and all duly making responses.	Duly Made 08/06/16
Additional Information	Drainage layout drawing.	17/06/16
Additional Information	Confirmation of process details and tricanter operating instructions.	24/06/16
Additional Information	<ul style="list-style-type: none"> Material safety data sheets Procedures for delivery of methanol, out-loading of esterified oils and glycerine Spill Prevention & Emergency Response Plan Confirmation of drainage system details. 	14/07/16
Response to Schedule 5 Notice dated 30/06/16	Response to question 11 detailing odour abatement.	19/07/16

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 5 Notice dated 30/06/16	Section 6 of Noise Assessment v4 dated 22/07/16.	25/07/16
Additional Information	<ul style="list-style-type: none"> Specifications for process effluent tank and FOG reception pits Confirmation of location of sewer discharge point Description of bund water management and surface water management. 	26/07/16
Response to Schedule 5 Notice dated 12/08/16	<ul style="list-style-type: none"> Responses to questions 8, 9, 11, 12, 13, 14, 15, 16, 18, 19 & 20 and Odour Management Plan rev00 dated Aug16 concerning management to minimise odour. Procedure for Waste Pre-acceptance and Technical assessment v01 dated 16/05/2016 in response to questions 21, 22 & 23 on waste pre-acceptance and acceptance. Procedure for Acceptance of Waste for Treatment v1 dated 12/06/2016 in response to questions 21, 22 & 23 on waste pre-acceptance and acceptance. Response to question 21 on laboratory quality assurance and quality control. Response to question 24: Site Layout Plan. Response to question 25: Tank list. Response to question 26: Accident Management Plan issue 001 dated August 2016. 	30/08/16
Variation Application EPR/LP3233DK/V002	All supporting information documents referenced in response to Part C2 and C3 of the application form and all duly making responses.	Duly Made 27/01/17
Response to Schedule 5 Notice dated 16/05/17	<ul style="list-style-type: none"> Responses to questions 1 - 4 on site infrastructure. Responses to questions 5 - 8 on the Site Conditioning Report. Responses to questions 9 & 10 on the H1 Assessment. Responses to questions 11 & 12 on the BAT Assessment. Response to question 13 on waste management. 	09/06/17 & 14/06/17
Additional Information	Construction detail of concrete-lined swale & balancing pond.	16/06/17
Additional Information	Site Condition Report Update dated June 2017 (for Phase 2).	30/06/17
Additional Information	Primary control measures for combustion plant.	04/07/17
Additional Information	Materials Storage Plan & Surface Water Sampling Plan.	11/07/17
Updated Response to Reg61 Notice dated 16/05/18	Response to LVOC BATc 1-19 and CWW BATc 1-13	31/01/19
Response to request for further information dated 04/03/20	Further information in relation to LVOC BATc 6, 12, 19 and CWW BATc 2, 3 and 5	01/04/20
Response to request for further information dated 02/06/20	Further information in relation to CWW BATc 1, 13, 14, 15/16, 21, 23, Direct emission to River Gowry from swales, Soil and Groundwater risk assessment and Water Framework Hazardous Pollutants.	16/06/20

Table S1.2 Operating techniques		
Description	Parts	Date Received
Variation Application EPR/LP3233DK/V005	Application Document Reference PART C - Environmental Permit Variation (MBR) EPR/LP3233DK/V005 Report March 2020 Non-Technical Summary Part 3 – Proposed Change Section 3 Management System Section 5 Planned changes to the existing installation activity All sections including 5.4 Treatment of additional waste type Section 6.2 Environmental Risk Assessment – Impacts Section 7 Operating Techniques Section 8.1 Energy Efficiency.	Duly Made 11/05/20
Schedule 5 Notice response	Response to Schedule 5 notice dated 10/12/20 Answers to all questions.	Received 29/12/20
Variation Application EPR/LP3233DK/V006	Application Document Reference PART C - Environmental Permit Variation (Odour Abatement System) EPR/LP3233DK/V006 Report September 2020 <ul style="list-style-type: none"> • Non-Technical Summary Part 3 – Proposed Change • Section 1.1 Introduction – Background • Section 2.5 Site Details - Site Operations • Section 3 Management System – all subsections • Section 6 Proposed Change to Current Operations – all subsections • Section 7.2 Environmental Risk Assessment - Impacts – all subsections • Section 8 Operating Techniques • Section 9 Resource Efficiency • Appendix 1 Proposed Odour Abatement Flowchart • Appendix 9 VOC Sorber specification • Appendix 11 Environmental Risk Assessment • Appendix 12 Odour Management Plan Rev02 / September 20 (including Table 1 commitment to fit all non-extracted pre-treatment plant tanks with activated carbon units). 	Duly Made 25/09/20
Schedule 5 Notice response	Response to Schedule 5 notice dated 09/03/21 Answers to all questions including commitment to continuous and alarmed monitoring of differential pressure across the activated carbon units.	Received 16/04/21
EA CAR Variation Actions letter	Description of operational changes in response to CAR required actions including <ul style="list-style-type: none"> • Location and containment of AD soup tank • Location, containment and operation of chemicals storage in the waste storage facility 	Received 16/04/21
Additional Waste Code 19 06 05 Application	Flow chart showing origin of the waste in the anaerobic digestion process and confirmation that the waste material accepted under waste code 19 06 05 will meet the anaerobic digestion quality protocol restriction for this code.	Received 03/05/21
Variation Application EPR/LP3233DK/V007	Section 5 of application document, Permit Variation Application Support Document, provided in response to section 3a: technical standards in Part C3 of application form.	Duly made 22/09/21

Table S1.2 Operating techniques		
Description	Parts	Date Received
Response to Schedule 5 Notice dated 09/11/21	Operating techniques described in the responses to the Notice (including accompanying information): <ul style="list-style-type: none"> Response to question 2 on optimisation of boiler operations. Response to question 8 on operation of boilers at different loadings. 	10/12/21
Additional information received	Operating techniques described in the responses to a request for further information (including accompanying information): <ul style="list-style-type: none"> Response to question 1 on receipt of refinery gas from Essar. 	04/02/22
Variation Application EPR/LP3233DK/V008	Section 4 (Process Description), Section 5 (Techniques for Process and Emissions Control and BAT Assessment) and Section 6 (Environment Risk Assessments) of application document 'Report No. CRM.0565.014.PE.R.006.D Application Document' provided in response to Section 3 'Operating Techniques' in Part C3 of application form.	Duly made 20/08/2024
Schedule 5 Notice response	Response to Schedule 5 Notice dated 23/09/2024. Responses to: <ul style="list-style-type: none"> Question 3 on accepted wastes. Question 5 on recovery of methanol within AR2b. Questions 8 and 9 on processing of boiler fuel oil. 	Received 25/09/2024

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC10	<p><u>LVOC BAT Conclusion 18</u></p> <p>The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving compliance with LVOC BAT Conclusion 18 concerning critical equipment before 07/12/21. The report shall include, but not be limited to, the following:</p> <ul style="list-style-type: none"> Methodology for achieving BAT Associated targets / timelines for reaching compliance by 07/12/21 Any alterations to the initial plan (in progress reports). <p>Refer to LVOC BAT Conclusions for a full description of the BAT requirement.</p>	Complete
IC11	<p>The operator shall submit a written proposal to the Environment Agency to undertake monitoring to investigate emissions from emission point S1, in relation to potential discharge of water to Essar's effluent treatment system. The objective of the monitoring is to establish the nature (including concentration) of any metals emissions to water via this emission point. The quantity of monitoring data considered shall be justified and be sufficient so as to demonstrate that the results are representative of emissions during normal operation of the installation.</p> <p>On receipt of written approval from the Environment Agency to the proposal, the operator shall carry out the monitoring to the agreed timescales and submit to the Environment Agency an interpretive report including the monitoring results and an interpretation of their significance in relation to impact on the eventual receiving water course.</p>	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	The report shall be submitted within three months of completion of the monitoring.	
IC12	<p><u>CWW BAT Conclusion 2</u></p> <p>The operator shall submit, for approval by the Environment Agency, the relevant part of their environmental management system describing the characteristics of waste gas streams, including quantification, to meet the requirements of each factor in sections (a) to (d) CWW BAT Conclusion 2 part (iii); except where the operator can show evidence of why a factor is not relevant.</p>	Complete
IC13	<p><u>CWW BAT Conclusion 1</u></p> <p>The operator shall submit to the Environment Agency for approval a report describing how its Environmental Management System meets each CWW BAT Conclusion 1 features (i) to (xiv) (and linked BAT Conclusions 13, 20 and 22) in line with the Applicability note to the BAT Conclusion.</p>	Complete
IC14	<p>The operator shall submit to the Environment Agency a report describing the review of operating techniques after commissioning of the variation to the waste water treatment system as outlined in Application Document Reference PART C - Environmental Permit Variation (MBR) EPR/LP3233DK/V005 Report, March 2020 Section 7 – Operating Techniques.</p> <p>The report should describe any changes in sufficient detail that the Environment Agency can decide whether submission or on-site review of the relevant documents is necessary.</p>	Complete
IC15	<p>The operator shall submit to the Environment Agency a report describing the review of operating techniques after commissioning of the variation to the odour abatement system as outlined in Application Document Reference PART C - Environmental Permit Variation (Odour Abatement System) EPR/LP3233DK/V006 Report, September 2020 Section 8 – Operating Techniques.</p> <p>The report should describe any changes in sufficient detail that the Environment Agency can decide whether submission or on-site review of the relevant documents is necessary.</p> <p>This Improvement Condition may be satisfied in the response to IC14</p>	Complete
IC16	<p>The operator shall confirm to the Environment Agency when the Environmental Management System update to include the new odour management system outlined in Application Document Reference PART C - Environmental Permit Variation (Odour Abatement System) EPR/LP3233DK/V006 Report, September 2020 p22 Updating the Management System is complete.</p> <p>This Improvement Condition may be satisfied in the response to IC13</p>	Complete
IC17	<p>The operator shall submit to the Environment Agency, for approval, a report of the commissioning of the activated carbon odour abatement unit including, but not limited to:</p> <ul style="list-style-type: none"> • Analysis of the identity and concentration of volatile organic compounds in the inlet and outlet of the activated carbon unit for comparison with the abatement efficiency expected from the smaller scale trial. • Analysis from the inlet and outlet of the activated carbon unit for hydrogen sulphide and ammonia concentrations to derive the removal efficiency. • Measurement of Odour Unit (OU_E) concentrations at the inlet and outlet of the activated carbon unit to confirm the design assumptions. 	Complete

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> Measurement of humidity in the activated carbon unit inlet to confirm whether it is within the stated 15-24% range for optimal efficiency. A review of daily odour checks around the site, to be conducted when both odour units 1 and 2 are running under normal pre-treatment operating conditions. Air flow measurements through the system compared to pressure differential readings to check the derivation of pressure differential alarm settings. The baseline 'CTC' butane activity check of the delivered carbon. <p>This improvement condition will be considered complete on issuing of an approval in writing by the Environment Agency.</p>	
IC18	<p>The operator shall submit to the Environment Agency, for approval, a report of quarterly monitoring analyses over a year including but not limited to:</p> <ul style="list-style-type: none"> Analysis of total volatile organic compounds in the inlet and outlet of the activated carbon unit to identify trends in the abatement efficiency. Analysis from the inlet and outlet of the activated carbon unit for hydrogen sulphide and ammonia concentrations to identify trends in the abatement efficiency. Measurement of humidity in the activated carbon unit inlet to confirm whether it is stable within the stated 15-24% range for optimal efficiency. A review of pressure differential readings and 'CTC' butane activity checks to identify trends in the monitoring of operational capacity and triggers for carbon change. This should state whether it includes the use of reactivated carbon. <p>This improvement condition will be considered complete on issuing of an approval in writing by the Environment Agency that will include a consideration of whether the quarterly monitoring needs to continue.</p>	Complete
IC19	<p>The operator shall submit a written report to the Environment Agency for written approval. The report must outline proposals for control systems to manage the sulphur content of the refinery gas received from Essar in order to ensure that boilers and heaters, AR9, AR10, AR11 and AR12, which can utilise this gas are in compliance with emission limit values. The report shall include proposals for implementing a combination of the following measures, along with timescales for their implementation:</p> <ul style="list-style-type: none"> Systems to ensure Argent Energy receives the lower sulphur refinery gas stream from Essar. Systems to ensure Essar notifies Argent Energy in advance when the higher sulphur refinery gas stream is sent from Essar. Systems to allow Argent Energy to operate boilers on lower sulphur containing fuel when the higher sulphur refinery gas stream is sent from Essar. Systems (such as continuous SO₂ monitors) to ensure Argent Energy is aware of either the sulphur content of incoming refinery gas or the sulphur dioxide concentration of emissions from permitted release points. Installation of SO₂ abatement on boilers burning refinery gas. <p>The operator shall implement approved proposals within the timescales approved by the Environment Agency.</p>	31/08/2023 extended to 18/11/2025 or alternative date to be agreed in writing with the Environment Agency (Note 1)

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC20	<p>The operator shall submit a written report to the Environment Agency for approval that proposes:</p> <ul style="list-style-type: none"> Agreed methodology for monitoring the sulphur content of refinery gas at levels greater than 1,000 mg/kg (0.1%). Agreed procedural systems for the data on the sulphur content of refinery gas to be submitted to Argent Energy by Essar. A system for reporting to the Environment Agency the number of occasions that sulphur concentration in refinery gas exceeds a predetermined level of 1270 mg/kg (0.127%) until 31/12/2024 and 222 mg/kg (0.0222%) from 01/01/2025. <p>The Operator shall implement any approved proposals within the timescales approved by the Environment Agency.</p>	31/08/2023 extended to 18/11/2025 or alternative date to be agreed in writing with the Environment Agency (Note 1)
IC21	<p><u>Change from using refinery gas as a fuel to using natural gas (EPR/LP3233DK/V008)</u></p> <p>The operator shall submit a written report to the Environment Agency for confirmation.</p> <p>The report must contain a summary of progress achieved since 18/11/2024 towards the fuel switch and timescales for the completion of the work involved, including the anticipated date for the fuel switch taking place.</p> <p>The operator must implement any proposals in the report as confirmed with the Environment Agency.</p>	18/05/2025
IC22	<p><u>Validation of assessment of odour impacts (EPR/LP3233DK/V008)</u></p> <p>The operator shall submit a written report to the Environment Agency for assessment and written approval.</p> <p>The report must contain:</p> <ul style="list-style-type: none"> The results of odour monitoring during the first year of commencing activity AR2b in Table S1.1 (post any commissioning period) from emission points added or changed by application EPR/LP3233DK/V008. An assessment of these results in combination with all other emission point sources of odour on-site. A demonstration using the above that odour impacts have not increased as a result of application EPR/LP3233DK/V008, or a description of proposals to reduce or eliminate odour from the sources identified as increasing odour impacts, along with timescales for implementation. <p>The operator must implement any proposals in the report in line with the timescales agreed with the Environment Agency's written approval.</p>	Within 18 months of the start of commissioning activity AR2b, or otherwise as agreed in writing with the Environment Agency.
IC23	<p><u>Validation of air emissions risk assessment (EPR/LP3233DK/V008)</u></p> <p>The operator shall submit a written report to the Environment Agency for assessment and written approval.</p> <p>The report must contain:</p> <ul style="list-style-type: none"> The results of a minimum of three rounds of monitoring obtained under normal operating conditions during the first year of commencing activity AR2b in Table S1.1 (post any commissioning period) for emission points A8, A11 and A12 and for all potential pollutants, which should include ammonia, hydrogen sulphide, speciated VOCs and particulate matter and be in line with monitoring standards detailed in our guidance (<u>Monitoring stack emissions: techniques and standards for periodic monitoring - GOV.UK (www.gov.uk)</u>). 	Within 18 months of the start of commissioning activity AR2b, or otherwise as agreed in writing with the Environment Agency.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
	<ul style="list-style-type: none"> An environmental risk assessment in line with our guidance (<u>Air emissions risk assessment for your environmental permit - GOV.UK (www.gov.uk)</u>) using the above monitoring results in combination with monitoring data from all other point sources of these pollutants, which must include the potential impacts of nutrient nitrogen and acidity deposition from ammonia emissions at relevant protected conservation areas and a justification of the suitability of the additional monitoring data that has been used. Where emissions do not screen out in the above, detailed air dispersion modelling in line with our guidance (<u>Environmental permitting: air dispersion modelling reports - GOV.UK (www.gov.uk)</u>). Where emissions do not screen out in the modelling, measures to be taken to reduce or abate emissions, along with timescales for implementation. <p>The operator must implement any proposals in the report in line with the timescales agreed with the Environment Agency's written approval.</p>	
Note 1: No longer relevant once switch from refinery gas to natural gas has taken place.		

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1	Argent North Esterification Process (AR2b)	<p><u>Addition of activity AR2b (application EPR/LP3233DK/V008)</u></p> <p>At least 6 weeks prior to operation of activity AR2b, the operator shall submit a written report to the Environment Agency for confirmation.</p> <p>The report must contain:</p> <ul style="list-style-type: none"> A summary of updates made to the site's Environmental Management System because of adding activity AR2b. A summary of updates made to the site's Odour Management Plan because of adding activity AR2b. A summary of the actions taken under the site's Management of Change process in relation to repurposing plant for activity AR2b. A summary of the results of the internal inspections of the bulk storage tanks and reactor vessels to be used within activity AR2b. <p>The operator must implement any proposals in the report as confirmed with the Environment Agency.</p>

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Gas oil to be used in Phase 2 Boiler 2 (AR12 in this permit) or Phase 2 Thermal Oil Heater (AR13 in this permit)	Sulphur content 0.1% max

Table S2.2 Permitted waste types and quantities for processing prior to esterification	
Maximum quantity	Up to 185,600 tonnes/year total tallow, vegetable oil, edible oil and fat, and up to 25,550 tonnes/year aqueous liquid waste for addition into the effluent treatment plant. Total waste accepted shall not exceed 211,150 tonnes/year. Total amount of waste FOGs and tallow present on site at any time that have not been esterified shall not exceed 3,674 m ³ .
Waste code	Description
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 03	materials unsuitable for consumption or processing
02 02 99	rendered animal fat (tallow)
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 04	vegetable oil
02 03 05	sludges from on-site effluent treatment
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 10	aqueous liquid wastes destined for off-site treatment
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01 restricted to aqueous waste from the operator's Argent Oil Terminal and Motherwell plant.
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 06	wastes from anaerobic treatment of waste
19 06 05	liquor from anaerobic treatment of animal and vegetable waste
19 08	wastes from waste water treatment plants not otherwise specified
19 08 09	grease and oil mixture from oil/water separation containing only edible oil and fats
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01	separately collected fractions (except 15 01)

Table S2.2 Permitted waste types and quantities for processing prior to esterification	
Maximum quantity	Up to 185,600 tonnes/year total tallow, vegetable oil, edible oil and fat, and up to 25,550 tonnes/year aqueous liquid waste for addition into the effluent treatment plant. Total waste accepted shall not exceed 211,150 tonnes/year. Total amount of waste FOGs and tallow present on site at any time that have not been esterified shall not exceed 3,674 m ³ .
Waste code	Description
20 01 25	edible oil and fat

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method (Note 12)
A1 [Point A1 on site plan in Schedule 7]	Steam Boiler (AR9) (Note 3)	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/Nm ³ (Note 7)	-	Annual	BS EN 14792
			200 mg/Nm ³ (Note 8)	Periodic	Annual	MCERTS BS EN 14792
		Sulphur dioxide	200 mg/Nm ³ (Note 5)	-	Annual	BS EN 14791
			35 mg/Nm ³ (Note 6)	-	Annual	BS EN 14791
			No limit set (Note 8)	-	-	-
		Carbon monoxide (Note 10)	No limit set	Periodic	Every 3 years from date of acceptance of first monitoring measurements under condition 3.5.5	MCERTS BS EN 15058
A2 [Point A2 on site plan in schedule 7]	Thermal Oil Heater (AR10) (Note 3)	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/Nm ³	Periodic	Annual	BS EN 14792
		Sulphur dioxide	200 mg/Nm ³ (Note 7)	-	Annual	BS EN 14791
			No limit set (Note 8)	-	-	-
		Carbon monoxide (Note 11)	No limit set	Periodic	Every 3 years from date of acceptance of first monitoring measurements under condition 3.5.5	MCERTS BS EN 15058
A3 [Point A3 on site plan in schedule 7]	Odour Control Unit 1 (Scrubber and Bio-filter)	No parameter set	No limit set	-	-	-
A4 [Point A4 on site plan in schedule 7]	Esterification Process	No parameter set	No limit set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method (Note 12)
	Vent (via wet scrubber)					
A5 [Point A5 on amended site plan in schedule 7]	Boiler 1 (AR11) (Note 3)	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/Nm ³ (Note 7)	-	Annual	BS EN 14792
			200 mg/Nm ³ (Note 8)	Periodic	Annual	MCERTS BS EN 14792
		Sulphur dioxide	200 mg/Nm ³ (Note 5)	-	Annual	BS EN 14791
			35 mg/Nm ³ (Note 6)	-	Annual	BS EN 14791
			No limit set (Note 8)	-	-	-
		Carbon monoxide (Note 10)	No limit set	Periodic	Every 3 years from date of acceptance of first monitoring measurements under condition 3.5.5	MCERTS BS EN 15058
A6 [Point A6 on amended site plan in schedule 7]	Boiler 2 (AR12) (Note 4)	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	250 mg/Nm ³ (Note 7)	-	Annual	BS EN 14792
			200 mg/Nm ³ (Note 9)	Periodic	Annual	MCERTS BS EN 14792
		Sulphur dioxide	200 mg/Nm ³ (Note 5)	-	Annual	BS EN 14791
			35 mg/Nm ³ (Note 6)	-	Annual	BS EN 14791
			No limit set (Note 9)	-	-	-
		Carbon monoxide (Note 10)	No limit set	Periodic	Every 3 years from date of acceptance of first monitoring measurements under condition 3.5.5	MCERTS BS EN 15058
A7 [Point A7 on amended	Thermal Oil Heater	Oxides of nitrogen (NO and NO ₂)	200 mg/Nm ³	-	Annual	BS EN 14792

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method (Note 12)
site plan in schedule 7]	fuelled by gas oil (AR13)	expressed as NO ₂)				
		Sulphur dioxide	No limit set	-	Annual	BS EN 14791
		Carbon monoxide (Note 11)	No limit set	Periodic	Every 3 years from date of acceptance of first monitoring measurements under condition 3.5.5	MCERTS BS EN 15058
A8 [Point A8 on amended site plan in schedule 7]	Argent North Esterification Process Vent (released via scrubber)	No parameter set	No limit set	-	-	-
A9 [Point A9 on amended site plan in schedule 7]	Effluent Plant balance tank vent	No parameter set	No limit set	-	-	-
A10 [Point A10 on amended site plan in schedule 7]	Odour Control Unit 2 (Activated Carbon)	Hydrogen Sulphide	No limit set	-	Quarterly (Note 1)	US EPA Method 11 (Note 2)
		Ammonia	No limit set	-	Quarterly (Note 1)	EN ISO 21877
		Total Volatile Organic Compounds	No limit set	-	Quarterly (Note 1)	EN 12619 (Note 2)
A11 [Point A11 on amended site plan in schedule 7]	Rotovac Carbon Filter Outlet	No parameter set	No limit set	-	-	-
A12 [Point A12 on amended site plan in schedule 7]	Pre-coat extraction system	No parameter set	No limit set	-	-	-
A13 [Point A13 on amended site plan in schedule 7]	Biodiesel refinery esterification process vent (via wet scrubber)	No parameter set	No limit set	-	-	-
A14 [Point A14 on amended site plan in schedule 7]	Laboratory fume cupboard vent	No parameter set	No limit set	-	-	-

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method (Note 12)
A15 [Point A15 on amended site plan in schedule 7]	Laboratory fume cupboard vent	No parameter set	No limit set	-	-	-
Storage tanks (External Tank Farms, Argent North, Biodiesel Production Hall and Pre-Treatment Plant, identified on amended site plan in schedule 7)	Tank vents only operated during displacement	No parameters set	No limits set	-	-	-
Note 1: The frequency of monitoring may be reviewed, including to remove the need for monitoring, on completion of Improvement Condition IC18 and as agreed in writing with the Environment Agency.						
Note 2: Or alternative method from the monitoring techniques on gov.uk as agreed in writing with the Environment Agency.						
Note 3: Fuelled by refinery gas until 18/11/2025 or alternative date to be agreed in writing with the Environment Agency, after which fuelled by natural gas.						
Note 4: Fuelled by refinery gas or gas oil until 18/11/2025 or alternative date to be agreed in writing with the Environment Agency, after which fuelled by natural gas or gas oil.						
Note 5: When fuelled by refinery gas and until 31/12/2024.						
Note 6: When fuelled by refinery gas and from 01/01/2025.						
Note 7: When fuelled by refinery gas.						
Note 8: When fuelled by natural gas.						
Note 9: When fuelled by natural gas or gas oil.						
Note 10: Monitoring requirements apply from 01/01/2025.						
Note 11: Monitoring requirements apply from 01/01/2030.						
Note 12: Monitoring requirements are defined at a temperature of 273.15 K, a pressure of 101.3 kPa and after correction for the water vapour content of the waste gases at a standardised O ₂ content of 6% for solid fuels, 15% for engines and gas turbines and 3% all other MCPs.						

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1 on site plan in schedule 7 emission to	Uncontaminated surface water from Swale C	No parameters set	No limit set	-	-	-

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
unnamed surface water ditch						
W2 on site plan in schedule 7 emission to unnamed surface water ditch	Uncontaminated surface water from Swales A & B	No parameters set	No limit set	-	-	-
W3 on site plan in schedule 7 emission to unnamed surface water ditch	Uncontaminated surface water from Balancing Pond	No parameters set	No limit set	-	-	-
W4 on site plan in schedule 7 emission to unnamed surface water ditch	Uncontaminated surface water from Eastern Swale	No parameters set	No limit set	-	-	-

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on site plan in schedule 7 emission to Essar foul drainage system Note1	Site effluent treatment plant	Flow	28 m³/hour and 672 m³/day	-	Continuous	MCERTS self-monitoring of effluent flow scheme
		Ammonia	10 mg/l	Spot sample	Daily	SCA blue book 48
		COD	4,500 mg/l	Spot sample	Daily	BS 6068-2.34
		Suspended solids	500 mg/l	Spot sample	Daily	BS EN 872
		pH	6-10	-	Continuous	BS ISO 10523
Note 1: Monitoring only applies when the effluent treatment plant is discharging to Essar foul drainage system.						

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters of oxides of nitrogen (NO and NO ₂ expressed as NO ₂) and sulphur dioxide as required by condition 3.5.1	A1, A2, A5, A6, A7	Every 12 months	1 January
Emissions to air Parameter of carbon monoxide as required by condition 3.5.1	A1, A2, A5, A6, A7	Every 3 years from date of acceptance of first monitoring measurements under condition 3.5.5	1 January
Emissions to air Parameters as required by condition 3.5.1	A10	Quarterly	1 January, 1 April, 1 July, 1 October
Emissions to sewer Parameters as required by condition 3.5.1	S1	Every 12 months	1 January

Table S4.2: Annual production/treatment	
Parameter	Units
Esterified oil	tonnes
Glycerine	tonnes
Biodiesel	tonnes
Potassium sulphate	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Total waste inputs	Annually	tonnes
Total waste inputs per tonne of product	Annually	tonnes waste/tonne of product
Activated carbon butane activity test ASTM D5742	Quarterly (Note 1)	% mass absorbed
Humidity of air at inlet to activated carbon odour abatement unit	Quarterly (Note 1)	% saturation

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Volumetric gas flow rate at inlet to activated carbon odour abatement unit	Quarterly (Note 1)	m ³ /hr
Number and date of occasions that sulphur content of refinery gas exceeds 1270 mg/kg (until 31/12/24) or exceeds 222 mg/kg (from 01/01/25). (Note 2)	Annually	Number/date
<p>Note 1: The frequency of monitoring may be reviewed, including to remove the need for monitoring, on completion of Improvement Condition IC18 and as agreed in writing with the Environment Agency.</p> <p>Note 2: Not required after 18/11/2025 or alternative date to be agreed in writing with the Environment Agency.</p>		

Table S4.4 Reporting forms		
Parameter	Reporting form	Form version number and date
Point source emissions to air	Emissions to Air Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Point source emissions to sewer	Emissions to Sewer Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Water usage	Water Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Energy usage	Energy Usage Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021
Other performance parameters	Other Performance Parameters Reporting Form, or other form as agreed in writing by the Environment Agency	Version 1, 08/03/2021

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	EPR/LP3233DK
Name of operator	Argent Energy (UK) Limited
Location of Facility	Argent Biodiesel Stanlow Plant Oil Sites Road Ellesmere Port Cheshire CH65 4BD
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
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 limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the breach of permit conditions not related to limits	
To be notified within 24 hours of detection	
Condition breached	
Date, time and duration of breach	
Details of the permit breach i.e. what happened including impacts observed.	
Measures taken, or intended to be taken, to restore permit compliance.	

(d) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
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.	
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Measures taken, or intended to be taken, to prevent a recurrence of the incident	
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	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* Authorised to sign on behalf of the operator

Schedule 6 – Interpretation

“accident” means an accident that may result in pollution.

“annually” means once every year.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“BAT-AELs” means BAT-associated emission levels, i.e. the emission levels associated with the best available techniques for emissions to air and/or water.

“Common waste water and waste gas treatment/management systems in the chemical sector BAT Conclusions or CWW” means Commission Implementing Decision (EU) 2016/902 of 30 May 2016 establishing Best Available Techniques (BAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for Common Waste Water And Waste Gas Treatment/ Management Systems in the Chemical Sector as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“compliance date” means 01/01/2025 for existing MCPs with net rated thermal input of greater than 5 MWth or 01/01/2030 for existing MCPs with a net rated thermal input of less than or equal to 5 MWth.

“diffuse emissions” means non-channelled emissions which can result from ‘area’ sources (e.g. tanks) or ‘point’ sources (e.g. pipe flanges).

“disposal” means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“EWC code” means the code number from the European Waste Catalogue.

“existing medium combustion plant” means an MCP in operation before 20 December 2018.

“FOGs” means fats, oils and greases.

“fugitive emissions” means diffuse VOC emissions from ‘point’ sources.

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“Large Volume Organic Chemicals BAT Conclusions or LVOC” means The Commission Implementing Decision (EU) 2017/2117 of 21 November 2017 establishing Best Available Techniques (BAT) conclusions, under Directive 2010/75/EU of the European Parliament and of the Council, for the Production of Large Volume Organic Chemicals as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“medium combustion plant” or “MCP” means a combustion plant with a net rated thermal input equal to or greater than 1 MW but less than 50 MW.

“Medium Combustion Plant Directive” or “MCPD” means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“operating hours” means the time, expressed in hours, during which a combustion plant is operating and discharging emissions into the air, excluding start-up and shut-down periods.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

“sealed drainage system” in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- (a) no liquid will run off the surface otherwise than via the system;
- (b) except where they may lawfully be discharged to foul sewer, all liquids entering the system are collected in a sealed sump.

“Waste code” means the six digit code referable to a type of waste in accordance with the List of Wastes (England) Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

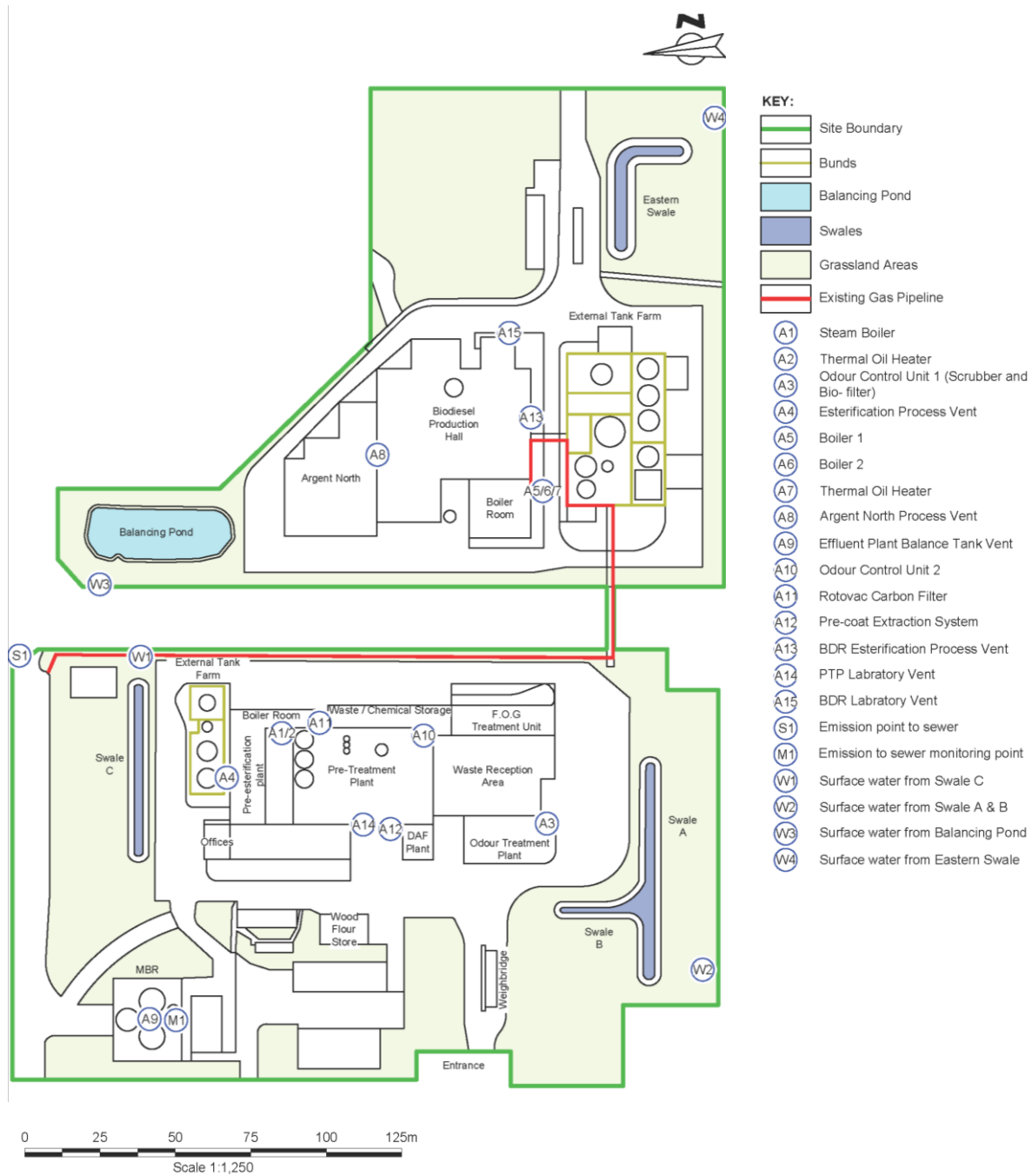
“year” means calendar year ending 31 December.

Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

Schedule 7 – Site plan



END OF PERMIT