

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Urenco Chemplants Limited

Capenhurst Site

Capenhurst

Chester

Cheshire

CH1 6ER

Permit number

EPR/ZP3835TX

Urenco Chemplants

Permit number EPR/ZP3835TX

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The Environment Agency has issued the following Installations Environmental Permit to Urenco Chemplants Limited under the provisions of section 13 of the Environmental Permitting Regulations 2016 ("the Regulations").

The Tails Management Facility is a plant for deconverting uranium hexafluoride ("hex") to produce a uranium oxide powder (U_3O_8) for long-term, safe, passive storage pending future re-use, and a saleable co-product of approximately 70% w/w hydrofluoric acid. The core process comprises two deconversion kilns with a combined annual capacity of 7,000 tonnes uranium (teU) per year producing 5,000 te of hydrofluoric acid. Associated facilities include handling, storage and washing of hex transport cylinders, decontamination and maintenance, residues recovery, and uranium oxide storage.

Within the Tails Deconversion Plant, the contents of hex cylinders are heated in autoclaves to produce uranium hexafluoride vapour, which is fed continuously into the deconversion kiln. The hex reacts with superheated steam and hydrogen to form uranium oxide powder and hydrofluoric acid, which are taken into interim storage. The acid co-product is transported off-site by road tanker, while the uranium oxide is placed in approved containers, either for long-term storage or, in the case of hex processed on behalf of Urenco's plants in the Netherlands or Germany, export back to the respective country. Empty and washed hex cylinders are inspected and stored temporarily prior to transfer to site storage rafts or enrichment plants for re-use.

Operating and maintaining the TMF generates a range of gaseous and liquid effluents. Gaseous effluents are filtered or scrubbed where appropriate and discharged to atmosphere. Non-uranic aqueous effluents may contain dissolved salts and ions at levels which prohibit discharge directly to the local watercourse; these are neutralised and treated within a reverse osmosis unit in the Residue Recovery Facility (RRF). The treated water is either reused within the TMF process or, as would be the case during a shutdown, discharged to the local water course (Rivacre Brook, a tributary of the River Mersey) via Urenco UK Ltd.'s effluent collection system. Uranic aqueous effluents are transferred to the RRF for treatment to recover uranium. Nitric Acid is added to form uranyl nitrate which is then reacted with sodium hydroxide to precipitate a recoverable solid, sodium diuranate ($Na_2U_2O_7 \cdot 6H_2O$ or NaDU), which is dried prior to storage. The NaDU arising from the deconversion of tails from the Netherlands and Germany is returned to the country of origin.

Any remaining, uranium-contaminated process wastes are immobilised using a cementation process and stored pending eventual transfer to a suitable permitted waste facility.

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

Status log of the permit		
Description		Comments
Application EPR/ZP3835TX/A001	Duly made 23/04/10	Application to operate a Tails Management Facility
Additional information received	31/01/14	Response to Schedule 5 Notice dated 25/10/2013
Additional information received	30/07/14	Responses to the Schedule 5 notice dated 18/04/14
Permit determined EPR/ZP3835TX (PAS Billing ref. ZP3835TX).	12/07/19	Permit issued to Urenco Chemplants Limited.

End of introductory note.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/ZP3835TX

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2016

Urenco Chemplants Limited (“the operator”),

whose registered office is

Capenhurst

Chester

Cheshire

CH1 6ER

company registration number 06228208

to operate an installation at

Urenco Chemplants

Capenhurst

Chester

Cheshire

CH1 6ER

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

Name	Date
A Fairhurst, Team Leader, Nuclear Regulation Group	12/07/19

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”).

2.2 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 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.
- 2.3.5 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.

2.4 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 activities shall not be brought into operation until the measures specified in schedule 1 table S1.4A 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 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Total annual emissions from the emission point(s) set out in schedule 3 tables S3.1 and S3.2 of a substance listed in schedule 3 table S3.3 shall not exceed the relevant limit in table S3.3.
- 3.1.4 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 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

- 3.4.1 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.

3.5 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 and S3.2;
 - (b) process monitoring specified in table S3.4;
- 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 and S3.2 unless otherwise agreed in writing by the Environment Agency.

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.

4.2 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.

4.3 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 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, 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.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

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	Limits of specified activity
A1	S4.2 A1 (a) (v)	Production of uranium dioxide	From receipt of uranium hexafluoride cylinders to vapourisation, deconversion through to storage of uranium oxide
Directly Associated Activity			
A2	Production of Hydrofluoric Acid	Production of hydrofluoric acid by deconversion of uranium hexafluoride	From deconversion of uranium hexafluoride and acid recovery, through to storage and export of acid product
A3	Schedule 25 (a)	Medium combustion plant comprising of 2 x boilers with an aggregated thermal input of 9.3 MW.	Boilers fired on natural gas. From fuel supply, through to use in boilers including, boiler blow down and emissions to air
A4	Cylinder wash	Cleaning emptied uranium hexafluoride cylinders	Receipt, storage and wash through to cylinder export and sending effluent for uranium recovery
A5	Decontamination & maintenance	Cleaning and repair of contaminated items	Receipt, handling and return to use of plant & equipment and disposal of secondary wastes
A6	Residue recovery	Washing, dissolution and treatment of residues in order to recover useful material	Receipt and processing of residues, recycle of useful material and disposal of secondary wastes
A7	Raw material, water and waste	Handling, storage and disposal of raw materials, water and waste	Receipt of raw materials (including fuel for standby diesel generators), collection of rainwater, handling and storage of these, and disposal of surface water, effluents and waste

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Application document(s) provided in response to Section 5 Operating Techniques: 5a – Technical Standards – Document ref UUK 6025196 TMF Technical Description Rev 6 ; Responses and documents provided to Section 5 5a Table 2; 5b General Requirements; 5c which refers to Appendix 3 and 5d of the application form	March 2010 January 2019

Response to Schedule 5 Notice dated 25/10/2013	Responses to questions 11 - 48.	January 2014
Response to Schedule 5 Notice dated 18/03/2014, version 3.	Responses to questions 2 - 25.	August 2014

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
1.	The operator shall submit a report detailing commissioning findings on fugitive emissions, odour and noise at the following facilities: Tails Deconversion Plant; Cylinder Handling Facility; Cylinder Wash Facility; Decontamination and Maintenance Facility; Residue Recovery Facility; Uranium Oxide Store; Supporting Infrastructure and Utilities.	1 month after completion of active commissioning at each facility.
2.	The operator shall submit a written noise management plan to the Environment Agency for technical assessment and approval / agreement.	31 August 2019
3.	The operator shall submit, for review, a commissioning report summarising, for all the activities listed in Table S1.1, the outcomes of commissioning and any actions required to deliver the operating techniques described in Table S1.2 and full compliance with permit conditions. For the following facilities: Tails Deconversion Plant; Cylinder Handling Facility; Cylinder Wash Facility; Decontamination and Maintenance Facility; Residue Recovery Facility; Uranium Oxide Store; Supporting Infrastructure and Utilities.	1 month after completion of active commissioning at each facility
4.	The Operator shall carry out MCERTS compliant NO _x monitoring of the Combustion Plant during active commissioning of the Tails Management Facility. The results shall be used to demonstrate that the emission limit values can be achieved and to carry out detailed air dispersion modelling to enable the environmental impact of the NO _x releases to be assessed. A written report shall be submitted to the Environment Agency summarising the findings of the monitoring, modelling and environmental impact assessment. If the environmental impact cannot be demonstrated to be acceptable, the report must identify improvements required and timescales for implementation, to reduce the impact to acceptable levels and demonstrate BAT is being applied.	The report shall be submitted within 3 months of completion of active commissioning of the Tails Management Facility.

Table S1.4A Pre-operational measures	
Reference	Pre-operational measures
1.	At least 2 weeks before operation the operator shall submit a report demonstrating that the necessary procedures are in place and that staff have received the necessary training.
2.	At least 2 weeks before operation the operator shall submit a report demonstrating that the necessary inactive commissioning has been completed and that all equipment necessary for permit compliance (including abatement, sampling and monitoring equipment) is operational.
3.	At least 2 weeks before operation the operator shall provide a report verifying that all environmental systems and equipment that are required to be maintained / tested in

	compliance with the permit are categorised, clearly labelled and are clearly identifiable within a written maintenance schedule.
4.	At least 2 weeks before operation the operator shall submit a report confirming that the plant has been built as designed and described in the application, with all discrepancies investigated and corrected or justified as appropriate in the report.
5.	At least 2 weeks before operation the operator shall provide an Operational Environmental Risk Assessment for accidents, odour, noise and fugitive emissions, as referred to in the application site condition report.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel oil used in standby generators	Less than 0.1% sulphur content.

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
TMF A1, Louvres on E side of building B12	CWF/RRF/DMF C2 Extract	-	-	-	-	-
TMF A2, Louvres on E side of building B12	TDP C2 Extract	-	-	-	-	--
TMF A3, stack on bldg. C22	C3 active ventilation system	-	-	-	-	-
TMF A4, stack on bldg. C22	C4 active ventilation system	-	-	-	-	-
TMF A5, stack on bldg. C22	U ₃ O ₈ powder transfer system	Total fluorides (as F)	1 mg/m ³	Weekly average determined from 24 hour composite samples	Daily	ISO/IEC 17025:2005
TMF A6, stack on bldg. C22	Gaseous effluent vent system	Total fluorides (as F)	1 mg/m ³		Daily	ISO/IEC 17025:2005
TMF A7, stack on bldg. C23	HF Area Ventilation System	Total fluorides (as F)	5 mg/m ³		Daily	ISO/IEC 17025:2005
TMF A8, stack on bldg. B12	Boiler plant	Total nitrogen oxides	200 mg/m ³ *	-	Every 12 months	BS EN-14792
	Boiler plant	Carbon monoxide	-	-	Every 12 months	BS EN-15058
Diesel generator (exempt from MCPD for nuclear safety purposes)	Adjacent to F60	-	-	-	-	-

*The emission limit shall not apply until 01/01/2025 as per the requirements of the Medium Combustion Plant Directive for existing plant.

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
RRF Treated Water Break Tanks (T388T603 and T388T604)	Treatment water storage tanks	Aluminium Arsenic Cadmium and its compounds, expressed as cadmium (Total Cd) Chromium Copper Iron Lead Nickel Zinc	No limits set on concns; see annual mass limits	Batch sample to be taken before each discharge and analysed by an external lab.		ISO/IEC 17025:2015
	Treatment water storage tanks	Fluoride	No limits set	Batch sample to be taken before each discharge and analysed by an external lab		ISO/IEC 17025:2015
	Treatment water storage tanks	Oil and grease	None visible	-	-	-
	Treatment water storage tanks	pH	6-9	Batch sample to be taken before each discharge and analysed by external lab		ISO/IEC 17025:2015
	Treatment water storage tanks	Total daily volume of discharge	See annual limit	The volumes of these tanks are known. Each discharge is controlled without the need for continuous flow rate data.		

Table S3.3 Annual limits		
Substance	Medium	Limit (including unit)
Aluminium	Water	100 g
Arsenic	Water	1 g
Cadmium and its compounds, expressed as cadmium (Total Cd)	Water	1 g
Chromium	Water	1 g
Copper	Water	100 g
Iron	Water	20 g
Lead	Water	1 g

Nickel	Water	1 g
Zinc	Water	1 g
Fluoride	Water	20 g
Total discharge volume	Water	120 m ³

Table S3.4 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
On-line monitors 360AT0911 and 360AT0912, between final wash column and KOH scrubber	HF	Continuous	Not applicable	

Schedule 4 – Reporting

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

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Total fluorides (as F)	TMF A5, TMF A6, TMF A7	Every 12 months	1 January
Emissions to air Nitrogen oxides Carbon monoxide	TMF A8	Every 12 months	1 January
Emissions to water Aluminium, arsenic, cadmium, chromium, copper, Iron, Lead, Nickel, Zinc, Fluoride, Volume	TMF RRF Treated Water Break Tanks (T388T603 and T388T604)	Every 12 months	1 January

Parameter	Units
Uranium hexafluoride deconverted	Tonnes (as U)

Parameter	Frequency of assessment	Units
Water usage	Annually	Tonnes Tonnes/unit of production
Energy usage	Annually	MWh MWh/unit of production

Media/parameter	Reporting format	Date of form
Air	Form Air1 or other form as agreed in writing by the Environment Agency	12/07/19
Water	Form Water1 or other form as agreed in writing by the Environment Agency	12/07/19
Annual production	Form Performance1 other form as agreed in writing by the Environment Agency	12/07/19
Water usage	Form WaterUsage1 or other form as agreed in writing by the Environment Agency	12/07/19
Energy usage	Form Energy1 or other form as agreed in writing by the Environment Agency	12/07/19

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	
Name of operator	
Location of Facility	
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	
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 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.	
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.

“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.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“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.

“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 or background concentration limit.

“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.

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

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

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

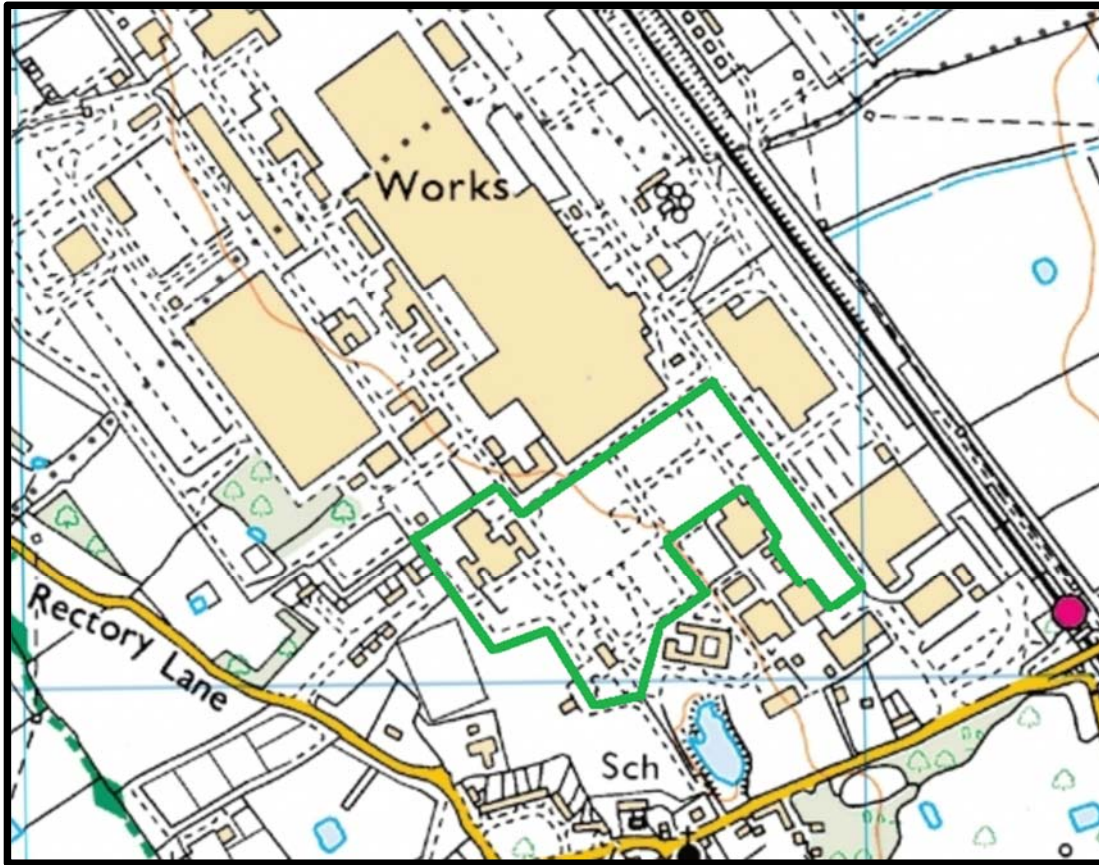
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



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END OF PERMIT