

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Noon Products Limited

Southall Ready Meals Factory

Windmill Lane

Southall

Middlesex

UB2 4NA

Permit number

EPR/AP3139AM

Southall Ready Meals Factory

Permit number EPR/AP3139AM

Introductory note

This introductory note does not form a part of the permit

Noon Products Windmill Lane Facility is an installation located in Southall, West of London. The site was purpose built for Noon Products Limited, which operates as a subsidiary of Kerry Foods, and opened in 2003. It produces and supplies Indian and Oriental chilled ready meals for the retail sector. The site now requires a Part A environmental permit, following the 2013 update to the Environmental Permitting Regulations which implemented the Industrial Emissions Directive (IED). This redefined the thresholds for the food and drink sector based on the maximum production capacity of the installation.

Section 6.8 Part A(1) (d)(iii)(aa) – Treatment and processing of animal and vegetable raw materials, both in combination and separate products, with a finished product production capacity day greater than 75 tonnes per day, where the proportion of animal material in percent of weight is equal to 10% or more.

The factory has the capacity to produce approximately 91 tonnes of finished product per day with a product animal material content greater than 10%.

The key stages of the process undertaken at the installation are receipt and storage of raw materials, preparation and cooking of ingredients, chilling, filling and packaging of finished products. The fully prepared products are held in the holding and dispatch chillers to await dispatch from site, primarily for sale to domestic customers.

There is an effluent treatment system on site. Process effluent flows to a primary settlement tank where large solids are removed prior to transfer to a balance tank. Treatment chemicals (coagulants and flocculants) are added to the effluent prior to further processing through a Dissolved Air Floatation (DAF) plant and subsequent discharge into the Thames Water sewer. Due to the capacity of the system, this is also a listed activity in its own right:

Section 5.4 Part A(1)(a)(ii) - Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment.

Surface water run-off comprising of rainwater from roofs and hard standings is collected via a network of pipes and drains and is discharged to a Thames Water surface water sewer for further treatment at Mogden Waste Water Treatment Works.

The following directly associated activities also occur on site:

- Cleaning – This is undertaken manually and comprises of an initial “dry clean” to remove residue followed by possible “wet cleaning” where required to meet food hygiene requirements. Water use is minimised where possible during wet cleaning with the use of high pressure jet washing.
- Refrigeration – There are eight refrigeration units on site housed in two refrigeration plant rooms, such as three blast chillers (two at intake and one at dispatch), one freezer and one holding chiller.
- Combustion – Combustion plant on site comprises three natural gas fuelled boilers in the boiler house with a thermal input of 2.8MW each and three ovens in the production area with a thermal input of 0.36MW each. The total combined thermal input of all combustion plant associated with the permitted activities is 9.48MW.
- Storage and handling of chemicals – This includes chemicals used for cleaning production equipment, general factory cleaning purposes, engineering and water/effluent treatment. Cleaning chemicals are stored at the exterior of the factory in the chemical store area. All chemicals used on site come supplied with a Material Safety Data Sheet (MSDS) and must go through an internal health and safety approval procedure. Storage areas are bunded to prevent contamination and any environmental risk due to leakage. All empty chemical drums are returned to the suppliers for reuse.
- Water treatment –
 - Water chlorination: The site produces 50 litres of chlorinated water per day which is used to disinfect utensils in production areas.

- Water softening: Water is softened before use in the boilers and for some production activities. This water passes through a water softening unit located in the boiler house and is then stored in the softening water storage tank (volume 36m³) before use in the boilers.
- Odour abatement - All process air from the production lines is piped into a chemical scrubber odour abatement system before venting to atmosphere.
- Generation, storage and handling of waste - All waste is segregated on site into appropriate containers and periodically removed by licensed carriers at regular intervals. Waste food and sludge from the DAF plant is transported off site for anaerobic digestion.

The nearest residential receptors lie 35m east of the site, with further residential areas located 250m northeast and 300m south of the site boundary. Richmond Park SAC and West London Waterbodies SPA/Ramsar lie within 10Km of the installation. There are no SSSI within 2km of the installation boundary.

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	Date	Comments
Application EPR/AP3139AM/A001	Duly made 27/03/15	Application for an Environmental Permit
Response to Schedule 5 Notice	12/04/16	Site plan with emission points
Response to Schedule 5 Notice	27/05/16	Complete H1 submitted
Additional information received	06/07/16	Clarification of Technical connection to additional Noon Products Limited units on industrial estate.
Response to Schedule 5 Notice (no.2)	25/08/16	Confirmation of combustion plant use, Odour abatement system cooling processes, Clarification of dry cleaning, SCR baseline.
Response to Schedule 5 Notice (no.3)	17/10/16	Confirmation of Thermal input from Double D ovens, confirmation of refrigerant used on site, clarification of production and clarification of use of water on site.
Permit determined EPR/AP3139AM	22/02/17	Permit issued to Noon Products Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/AP3139AM

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Noon Products Limited ("the operator"),

whose registered office is

Thorpe Lea Manor

Thorpe Lea Road

Egham

Surrey

TW20 8HY

company registration number 02166664

to operate an installation at

Southall Ready Meals Factory

Windmill Lane

Southall

Middlesex

UB2 4NA

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

Name	Date
SIMON HEWITT	22/02/2017

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 red 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.

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

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

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
 - (b) implement the pests management plan, from the date of approval, 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 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.

4.3.4 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.

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

4.3.6 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 listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Section 6.8 Part A(1) (d) (iii) Treatment and processing of animal and vegetable raw materials (other than milk only), both in combined and separate products, with a finished product production capacity greater than 75 tonnes per day, where the proportion of animal material is equal to or more than 10% of weight of finished product.	Manufacture of chilled ready meals, with a capacity of 91 tonnes per day, including receipt and storage of raw materials; preparation and cooking of ingredients; chilling and filling and packaging. The are 10 production lines as follows: Lines 1, 3, 4, 5, 6, 7, 8, 9 & 10 produce portioned ready meals, Line 2 produces 2kg tubs of rice.	From receipt of raw materials to dispatch of finished packaged products.
Section 5.4 Part A(1) (a) (ii) Disposal of non-hazardous waste involving physico-chemical treatment with a capacity exceeding 50 tonnes per day.	Treatment of onsite generated process effluent by physico-chemical treatment in a DAF plant with a maximum discharge of 480 cubic metres day.	From receipt of raw effluent to discharge to sewer.
Directly Associated Activity		
Combustion plant	The use of combustion plant in the process comprising: Three 2.8MWth natural gas boilers supplying process steam. Three 0.36MWth natural gas fuelled linear-type ovens used to cook product. Total aggregated thermal input of boilers on site is 9.48MW.	Receipt of fuel to emission of combustion gases.
Refrigeration plant	Product chillers and chilled storage comprising eight chillers on site.	From receipt of refrigerant to dispatch of chilled product.
Storage and handling of chemicals	Handling and storage of chemicals for cleaning, equipment maintenance and odour abatement system.	From receipt of chemicals to use on site.
Cleaning	Dry and wet cleaning of equipment as specified.	From receipt of raw materials to dispatch of finished products.

Table S1.1 activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
Water treatment	<p>Water softening: Water is softened before use in the boilers and for some production activities. This water passes through a water softening unit located in the boiler house and is then stored in the softening water storage tank.</p> <p>Water chlorination: The site produces 50 litres of chlorinated water per day which is used to disinfect utensils in production areas.</p>	From production of treated water to use in the process.
Generation, storage and handling of wastes	Generation, storage and handling of wastes on site to removal off site including the sludge produced from the DAF plant which is removed off site by road tanker.	From generation of waste materials to their removal off-site.
Odour abatement	Odour abatement system for process emissions using a chemical scrubber.	From production of odorous process fume from the process lines to abatement in chemical scrubber followed by release to atmosphere.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/AP3139AM/A001	<p>B3 of the application section 3 - Answers to Section 3 on application form Part B3 including references to the Food and Drink Sector Guidance EPR 6.10 and the Food, Drink and Milk Industries BREF. Section 3 answer direct you to relevant supporting documents for the operating techniques listed below.</p> <p>Document reference B.2.1 Environmental Management System (EMS) Summary dated March 2015.</p> <p>Document reference B.2.5 H1 Environmental Risk Assessment dated March 2015.</p> <p>Document reference C.1 Site Management and Control dated March 2015.</p> <p>Document reference C.7 Emissions to Sewer March 2015.</p> <p>Document reference C.9 Resource Use and Energy Efficiency.</p> <p>Document reference D.3 Odour Impact Assessment dated March 2015.</p> <p>Document reference D.7 Emergency Preparedness Plan dated 20/05/2014.</p> <p>Document reference Schedule 5 no. 3. Dated 19/10/16.</p>	Duly made 27/03/15

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	In addition to the findings of the Bunding Integrity Report submitted with the application, the Operator must review all containment measures on site to ensure they comply with the requirements set out in CIRIA Report C736. The operator shall produce a final report to reflect this review and submit it to the Environment Agency for approval in writing. Where any shortfalls in the containment measures are identified, the operator shall include a timescale for improvements within the written report.	21/11/17
IC2	<p>a) The operator shall undertake representative monitoring of the point source air emissions A1 – A6 as listed in table S3.1.</p> <p>and</p> <p>b) Following the completion of (a) above, the operator shall use the monitoring results to undertake and submit to the Environment Agency for review:</p> <p>i) A full assessment of the emissions to air from the installation in accordance with our guidance; and</p> <p>(ii) Proposals for appropriate measures to mitigate the impact of the emissions where the assessment determines they are not insignificant, including emission limits, monitoring frequencies and methods, and dates for implementation of individual measures.</p> <p>Note: Standard reference conditions 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.</p>	21/02/19

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
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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
A1 - Point AP1 on site plant in schedule 7	Process Steam Boiler 1	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Carbon monoxide	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Oxygen	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Water vapour	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Stack gas temperature	--	--	Quarterly	Traceable to national standards
		Stack gas pressure	--	--	Quarterly	Traceable to national standards
A2 - Point AP2 on site plant in schedule 7	Process Steam Boiler 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Carbon monoxide	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Oxygen	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Water vapour	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Stack gas temperature	--	--	Quarterly	Traceable to national standards

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
		Stack gas pressure	--	--	Quarterly	Traceable to national standards
A3 - Point AP3 on site plant in schedule 7	Process Steam Boiler 3	Oxides of Nitrogen (NO and NO2 expressed as NO2)	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Carbon monoxide	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Oxygen	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Water vapour	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Stack gas temperature	--	--	Quarterly	Traceable to national standards
		Stack gas pressure	--	--	Quarterly	Traceable to national standards
A4 - Point AP7 on site plant in schedule 7	Oven 1	Oxides of Nitrogen (NO and NO2 expressed as NO2)	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Carbon monoxide	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Oxygen	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Water vapour	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Stack gas temperature	--	--	Quarterly	Traceable to national standards

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
		Stack gas pressure	--	--	Quarterly	Traceable to national standards
A5 - Point AP8 on site plant in schedule 7	Oven 2	Oxides of Nitrogen (NO and NO2 expressed as NO2)	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Carbon monoxide	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Oxygen	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Water vapour	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Stack gas temperature	--	--	Quarterly	Traceable to national standards
		Stack gas pressure	--	--	Quarterly	Traceable to national standards
A6 - Point AP9 on site plant in schedule 7	Oven 3	Oxides of Nitrogen (NO and NO2 expressed as NO2)	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Carbon monoxide	Note 1	Hourly average	Quarterly	BS EN 14181 and BS EN 15267-3
		Oxygen	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Water vapour	--	--	Quarterly	BS EN 14181 and BS EN 15267-3
		Stack gas temperature	--	--	Quarterly	Traceable to national standards

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
		Stack gas pressure	--	--	Quarterly	Traceable to national standards
A7 – Point AP10 on site plant in schedule 7	Odour Abatement System Scrubber Tower	No parameters set	No limits set	--	--	--

Note 1 – ELVs will be set as appropriate and if required following completion of IC2. Indicative ELV for NO_x is 250 mg/Nm³. These are interim indicative ELVs, in accordance with the draft Medium Combustion Plant Directive, for the purposes of monitoring under IC2.

Table S3.2 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 River Thames via Mogden Sewer Works.	Onsite effluent post-treatment in the onsite effluent treatment system.	Discharge rate	480 m ³ /day	Daily	Daily	Flow meter
W1 on site plan in schedule 7 emission to River Thames via Mogden Sewer Works.	Uncontaminated surface water run-off.	No parameters set	No limits set	--	--	--

Table S3.3 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
AP10 - Odour Abatement System	As Specified in Document reference D.3 Odour Impact Assessment			
S1 - Effluent Treatment System	As specified in part 2.1 Document reference C.7 Emissions to Sewer March 2015.			

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 as required by condition 3.5.1	A1, A2, A3, A4, A5, A6	As specified by IC3	Upon permit issue

Table S4.2: Annual production/treatment	
Parameter	Units
Total production	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes
Energy usage	Annually	MWh
Total production	Annually	tonnes
Total raw material used	Annually	tonnes
Tonnes of waste sent off site for recovery or disposal	Annually	tonnes
Refrigerant usage	Annually	tonnes

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	21/02/17
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	21/02/17
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	21/02/17

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	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
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.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 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 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

“Pests” means Birds, Vermin and Insects.

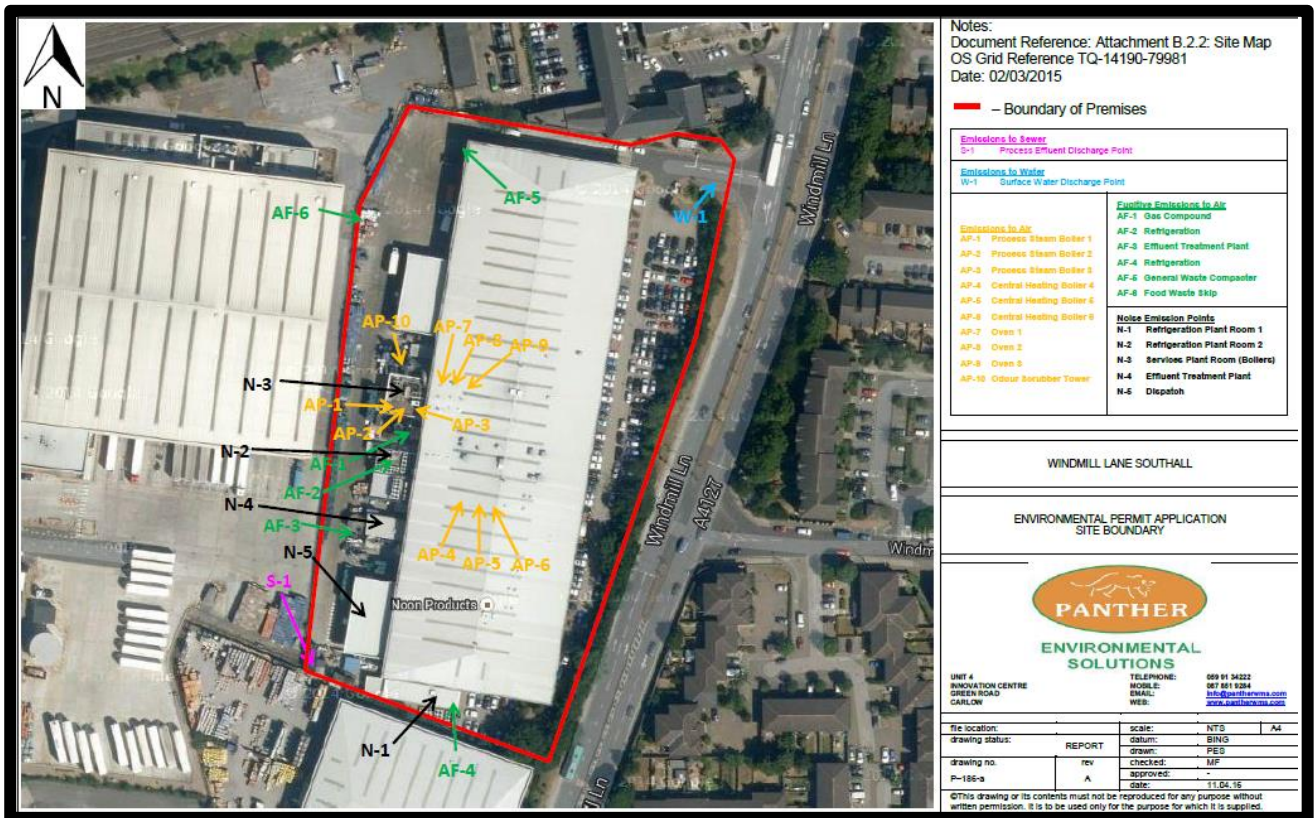
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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



END OF PERMIT