



Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

Engie Services Limited
Wilton Energy Centre
Huntsman Polyurethane Facility
Wilton
Redcar
Cleveland
TS10 4YA

Permit number

EPR/MP3131RW

Wilton Energy Centre

Permit number EPR/MP3131RW

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This permit relates to the operation of Wilton Energy Centre by Engie Services Limited on an area of land on the Huntsman Polyurethanes (UK) Limited Wilton Site which was surrendered from the Huntsman Polyurethanes (UK) Limited Permit (EPR/BS8656IX/S008, 18/10/16). It will be operated as a Directly Associated Activity (DAA) to the Huntsman Polyurethanes (UK) Limited permitted chemical installation [Permit Number – EPR/BS8656IX]. It is located at National Grid Reference NZ 57020 22456.

The Wilton Energy Centre will serve the chemical Installation by burning natural gas, hydrogen-rich vent gas and other vent gases (that include Volatile Organic Chemicals (VOC's)) to provide abatement to the chemical installation and in turn produce and provide steam for the installation.

In addition, there will be activities serving the Wilton Energy Centre in the form of:

- a water pre-treatment plant
- storage of raw materials/wastes
- a site surface water and foul water drainage discharge via an existing Huntsman Polyurethanes (UK) Limited installation drainage network which is subsequently released by Sembcorp Utilities UK Limited drainage system.

The Wilton Energy Centre will have three boilers of approximately 14.7 Megawatts (MW) net thermal input each. Two boilers will burn natural gas and vent gases with only one boiler in operation at any one time and one boiler will act as a standby and only burn natural gas.

The Large Volume Organic Chemicals BREF (2013) is the principal BREF associated with the stationary technical unit (STU) and processes at the Huntsman Polyurethanes (UK) Limited facility and has been used to determine Best Available Techniques (BAT) and emission limit values (ELV's) for the Wilton Energy Centre due to the site's boiler plant providing abatement for the chemical installation.

There are two Special Protection Areas (SPA) within 10 km of the Wilton Energy Centre – Teesmouth and Cleveland Coast (also a Ramsar site) and North York Moors. There is one local wildlife site within 2 km of the Wilton Energy Centre - Coatham Marsh.

Engie Services Limited will operate a fully documented management system in line with the requirements of ISO14001.

There will be point source gaseous emissions including Carbon Monoxide (CO), Carbon Dioxide (CO₂) and Oxides of Nitrogen (NO_x) from a 45-metre exhaust stack (combining the individual flues from each of the three boilers). Primary NO_x reduction is achieved by use of low-NO_x burners with effective combustion control. Flue gas recirculation is employed on the boilers that are equipped to burn natural gas/vent gases mixtures. Control of CO emissions is achieved by effective combustion control. Detailed atmospheric modelling has indicated there will be no adverse impacts of these releases on local sensitive receptors.

The sources of aqueous emissions from the Wilton Energy Centre Site comprise:

- surface water
- boiler blowdown
- effluent from operation of the water pre-treatment plant.

All sources of aqueous emissions from Wilton Energy Centre will be directed to the Huntsman drainage system which connects to the "C" Drain of the Wilton Site system under contractual agreement with Huntsman Polyurethanes (UK) Limited. "C" Drain combines with other site drains before being discharged at site outfall into Dabholm Gut – a manmade channel connecting into the River Tees. This outfall is regulated under a consent managed by Sembcorp UK Limited.

There are limited wastes generated from the facility in the form of waste oils and occasional wastes from maintenance activities and their disposal will be in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive.

Assessments of noise and odour emissions show that there will be no significant impact on any sensitive receptor.

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/MP3131RW/A001	Duly made 13/03/17	Application for Wilton Energy Centre.
Additional information received	02/05/17 & 12/05/17	Response to Schedule 5 Notice dated 31/03/17.
Additional information received	16/06/17	Response to Schedule 5 Notice dated 02/06/17.
Permit determined EPR/MP3131RW/A001 (PAS Billing ref. MP3131RW).	31/07/17	Permit issued to Engie Services Limited.

Other Part A installation permits relating to this installation		
Operator	Permit number	Date of issue
Huntsman Polyurethanes (UK) Limited	EPR/BS8656IX	15/04/04

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/MP3131RW

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

Engie Services Limited (“the operator”),

whose registered office is

Shared Services Centre

Q3 Office

Quorum Business Park

Benton Lane

Newcastle Upon Tyne

NE12 8EX

company registration number 00598379

to operate part of an installation at

Wilton Energy Centre

Huntsman Polyurethane Facility

Wilton

Redcar

Cleveland

TS10 4YA

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

Name	Date
Mike Jenkins	31/07/2017

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.

1.5 Multiple operator installations

- 1.5.1 Where the operator notifies the Environment Agency under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

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, which is within the area edged in blue on the site plan that represents the extent of the installation covered by this permit and that of the other operator of the installation.

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 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 table S3.1;
- 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 table S3.1 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 (Directly Associated Activity)	Limits of specified activity
A1 (This is the existing Schedule 1 Activity at the site that the activities controlled by this permit are Directly Associated to. This activity is Operated by Huntsman Polyurethanes (UK) Limited under permit BS8656IX).	Section 4.1A(1)(a)(iv) – producing organic chemicals containing nitrogen	Producing mononitrobenzene, aniline and cyclohexylamine	Receipt of raw materials to despatch/use of finished products
	Directly Associated Activity		
A2	Directly Associated Activity	Two boilers providing abatement of vent gas from the Huntsman Polyurethanes (UK) Limited installation and generation of medium pressure steam at 18 Barg.	From receipt of vent gases from Huntsman Polyurethanes (UK) Limited installation and natural gas to generation and supply of steam to Huntsman Polyurethanes (UK) Limited Facility.
A3	Directly Associated Activity	Boiler fired on natural gas providing hot standby.	From receipt of natural gas to generation and supply of steam to Huntsman Polyurethanes (UK) Limited Facility.
A4	Directly Associated Activity	Water Pre-treatment Plant.	From receipt of water to operation of water pre-treatment plant using ultrafiltration and reverse osmosis technology to distribution of high quality treated water for use in the boiler plant and other Huntsman Polyurethanes (UK) Limited processes.
A5	Directly Associated Activity	Storage of raw materials and wastes.	From receipt of raw materials to use within the facility including all pipework, handling, transfer and storage systems. From generation of waste to despatch off-site including on-site handling and storage.

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity (Directly Associated Activity)	Limits of specified activity
A6	Directly Associated Activity	Management of site surface water drainage and foul water drainage via existing Huntsman Polyurethanes (UK) Limited installation drainage network and subsequently released by Sembcorp Utilities UK Limited drainage system under Environmental Permit EPR/BS8656IX.	From generation of aqueous drainage from surface water, boiler blowdown and water pre-treatment plant effluent to discharge into existing Huntsman Polyurethanes (UK) Limited drainage system through manholes IC08 and MHA13.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/MP3131RW/A001	<p>Document CRM 327 002 PE R 006 OTMP (Operational Techniques and Monitoring Plan) provided in response to Section 3a (Technical standards) of Part B3 of the Application Form.</p> <p>Document CRM 327 002 PE R 005 ERA (Environmental Risk Assessment), Air Quality Assessment (June 2016) and Noise Impact Assessment (CRM.327.001.NO.R.001, August 2015) provided in response to Section 2, Table 2 of Part B3 of the Application Form.</p> <p>Drawing CRM.327.002.PE.D.001 (Wilton Energy Centre Installation Boundary)</p> <p>Addendum Report, EPR/MP3131RW/A001, provided in response to Not Duly Made notification.</p>	Duly Made 13/03/17
Response to Schedule 5 Notice dated 31/03/17	<p>Response to:</p> <p>Questions 1-2 detailing process description;</p> <p>Questions 3-6 on BAT Assessment;</p> <p>Questions 7-9 on air emissions monitoring;</p> <p>Question 10 on gaseous abatement technology;</p> <p>Questions 13-18 on aqueous emission control;</p> <p>Questions 19-21 on containment;</p> <p>Questions 22-26 on accident management plan;</p> <p>Questions 29-30 on odour management;</p> <p>Questions 31-32 on directly associated activities.</p>	02/05/17
Response to Schedule 5 Notice dated 31/03/17	<p>Response to:</p> <p>Question 1 on air-cooled steam dump condenser;</p> <p>Questions 2-3 on BAT assessment of combustion processes;</p> <p>Question 6 on site effluent treatment (including drawing J4391-02-GA-103);</p>	16/06/17

Table S1.2 Operating techniques		
Description	Parts	Date Received
	Question 7 on site bund management; Question 8 on chemical storage; Question 9 on Accident Management Plan.	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The Operator shall provide written notification to the Environment Agency of the date when commissioning of the boilers is completed.	Within 1 month of completion of commissioning.
IC2	Following the commissioning of the boiler plant, the Operator shall submit a written report to the Environment Agency for approval, detailing the outcome of the commissioning programme. The report shall include for approval by the Environment Agency: <ul style="list-style-type: none"> - Identification of any changes to the operating techniques provided in the application EPR/MP3131RW/A001. 	Within 3 months of completion of commissioning.
IC3	The Operator shall submit a written report to the Environment Agency for approval defining and providing a justification for periods of start-up and shut down for the facility's boiler plant.	Within 3 months of completion of commissioning.
IC4	Following commissioning, the Operator shall monitor the NO _x , CO and SO _x emissions from the regulated facility continuously for a period of 12 months in accordance with Table S3.1. Following this, the Operator shall submit a written report to the Environment Agency for approval summarising the results of the continuous monitoring trial and proposing an on-going monitoring plan for the gaseous emissions stated.	Within 13 months of completion of commissioning
IC5	Following completion of the 12-month continuous monitoring trial (as required by IC4), the Operator shall submit a written report to the Environment Agency confirming whether additional measures are required to comply with the NO _x Emission Limit Value given in Table S3.1.	Within 3 months following completion of IC4
IC6	In the event the report provided in response to IC5 indicates that the NO _x Emission Limit Value outlined in Table S3.1 cannot be achieved without additional measures, the Operator shall review their process and submit a report with timescales, to the Environment Agency for agreement that demonstrates what additional measures they will take to meet the relevant NO _x Emission Limit Value stated in the Large Volume Organic Chemicals BREF currently in force at that time. The timescales for implementation of these measures shall not exceed two years.	Within 3 months following completion of IC5.
IC7	The Operator shall provide a written report to the Environment Agency for approval demonstrating that operation of the Wilton Energy Centre boilers achieves >99% destruction of VOC's in the Huntsman Polyurethanes (UK) Limited vent gases supplied to the Wilton Energy Centre across the full range of vent gas quantities supplied. Should the destruction of VOC's in the vent gases supplied from the Huntsman Polyurethanes (UK) Limited installation not achieve >99%, the Operator shall submit a written report for approval to the Environment Agency demonstrating that there is no adverse impact on the environment from their release.	Within 18 months of completion of commissioning.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural Gas	National Transmission System standard

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 [Note 2]	Monitoring frequency [Note 3]	Monitoring standard or method
A1a [Point A1a on drawing CRM.327.002.PE.D.001]	No. 1 Boiler	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
	No. 1 Boiler	Carbon Monoxide	100 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
	No. 1 Boiler	Oxides of Sulphur (as SO ₂)	100 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
A1b [Point A1b on drawing CRM.327.002.PE.D.001]	No. 2 Boiler	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
	No. 2 Boiler	Carbon Monoxide	100 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
	No. 2 Boiler	Oxides of Sulphur (as SO ₂)	100 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
A1c [Point A1c on drawing CRM.327.002.PE.D.001]	No. 3 Boiler	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	200 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
	No. 3 Boiler	Carbon Monoxide	100 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
	No. 3 Boiler	Oxides of Sulphur (as SO ₂)	100 mg/m ³	Hourly average	In accordance with IC4	BS EN 15267-3 [Note 1]
<p>Note 1: certification to the MCERTS performance standards indicates compliance with BS EN 15267-3</p> <p>Note 2: Reference periods may be changed by written agreement with the Environment Agency.</p> <p>Note 3: After an initial 12 month period, the continuous monitoring frequency may be changed by written agreement with the Environment Agency</p>						

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
IC08 and MHA13 on drawing J4391-02-GA-103 (Rev5) (emission via existing Huntsman Polyurethanes (UK) Limited "C" Drainage system and subsequently released by Sembcorp Utilities UK Limited to Dabholm Gut.)	Surface water. Boiler blow-down. Effluent from water pre-treatment plant.	No parameters set	No limit set	-	-	-

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 [Note 1]	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1a, A1b, A1c	Every 3 months [Note 2]	1 January, 1 April, 1 July, 1 October
Note 1: Unless agreed in writing by the Environment Agency			
Note 2: During this monitoring period, the Operator shall submit the results of the monitoring in the form of hourly average values for each monitored parameter within 5 working days of the end of each three monthly period in a format to be agreed in advance with the Environment Agency.			

Table S4.2 Annual production/treatment	
Parameter	Units
Steam	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Electricity usage	Annually	MWh
Total natural gas used	Annually	tonnes
Total vent gas received from Huntsman Polyurethanes (UK) Limited installation	Annually	tonnes
Total period natural gas standby boiler is operational	Monthly	hours
Number, date, duration (hours) of occurrences when Operator discharges unwanted steam	Monthly	-
Quantity of unwanted steam discharged	Monthly	tonnes
Number, date and duration (hours) of periods when Operator releases unabated vent gases to atmosphere	Monthly	-
Quantity of unabated vent gases discharged to atmosphere	Monthly	tonnes

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Emissions to air	Form Air1 or other form as agreed in writing by the Environment Agency	31/07/17
Steam production	Form Performance1 or other form as agreed in writing by the Environment Agency	31/07/17
Natural gas usage	Form Performance1 or other form as agreed in writing by the Environment Agency	31/07/17
Vent gas received	Form Performance1 or other form as agreed in writing by the Environment Agency	31/07/17
Water usage	Form Performance2 or other form as agreed in writing by the Environment Agency	31/07/17
Energy usage	Form Performance3 or other form as agreed in writing by the Environment Agency	31/07/17
Total duration natural gas standby boiler is operational	Form Performance4 or other form as agreed in writing by the Environment Agency	31/07/17
Periods of discharge of unwanted steam	Form Performance4 or other form as agreed in writing by the Environment Agency	31/07/17
Periods of release of unabated vent gases	Form Performance4 or other form as agreed in writing by the Environment Agency	31/07/17
Quantity of unwanted steam discharged	Form Performance4 or other form as agreed in writing by the Environment Agency	31/07/17
Quantity of unabated vent gas discharged to atmosphere	Form Performance4 or other form as agreed in writing by the Environment Agency	31/07/17

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.

“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.

“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.

“Hazardous property” has the meaning in Annex III of the Waste Framework Directive.

“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

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

“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.

“Waste Framework Directive” or “WFD” means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

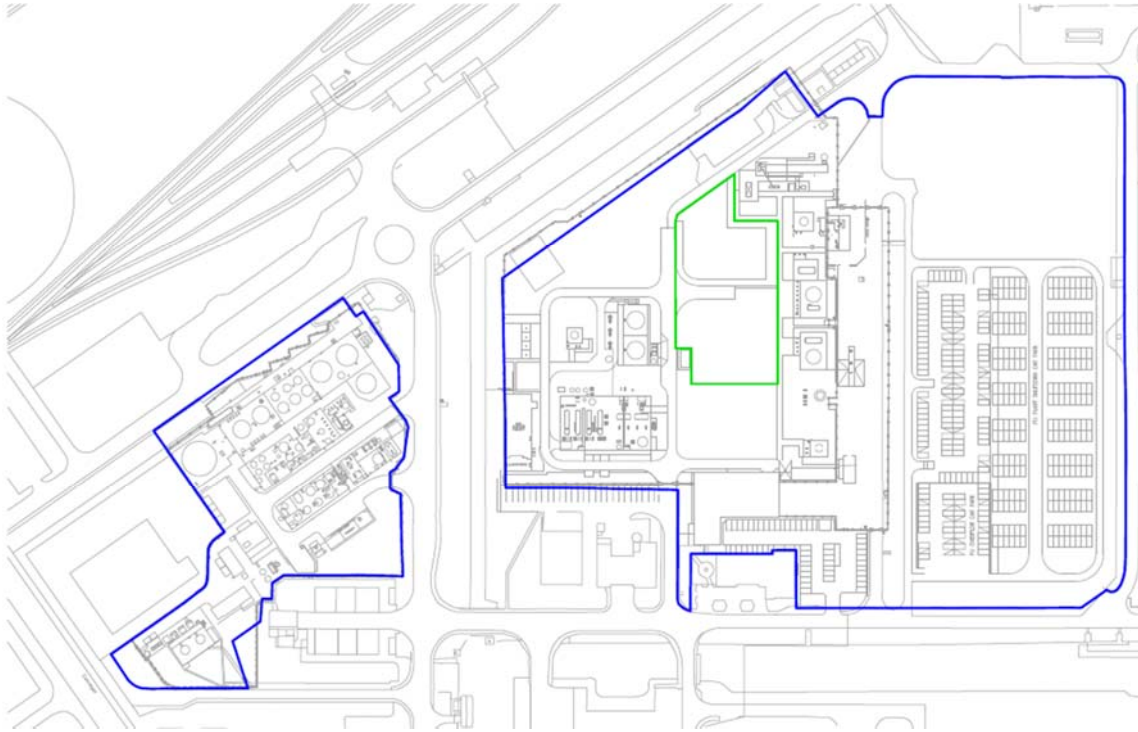
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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



Green = Engie Wilton Energy Centre Installation Boundary

Blue = Huntsman Polyurethanes (UK) Limited Installation Permit Boundary

END OF PERMIT

REPORTING OF MONITORING DATA

Permit Number: EPR/MP3131RW

Operator: Engie Services Limited

Facility: Wilton Energy Centre

Form Number: Air 1 (31/07/17)

Reporting of emissions to air for the period from _____ to _____

Emission Point	Parameter	Emission Limit Value	Reference Period	Test Method	Result
A1a	Oxides of Nitrogen (NO and NO ₂ expressed as NO _x)				
A1a	Carbon Monoxide				
A1a	Oxides of sulphur (as SO ₂)				
A1b	Oxides of Nitrogen (NO and NO ₂ expressed as NO _x)				
A1b	Carbon Monoxide				
A1b	Oxides of sulphur (as SO ₂)				
A1c	Oxides of Nitrogen (NO and NO ₂ expressed as NO _x)				
A1c	Carbon Monoxide				
A1c	Oxides of sulphur (as SO ₂)				

Signed

Date.....

(Authorised to sign as representative of Operator)

REPORTING OF PERFORMANCE DATA

Permit Number: EPR/MP3131RW

Operator: Engie Services Limited

Facility: Wilton Energy Centre

Form Number: Performance 1 (31/07/17)

Reporting of performance parameters for the period from _____ **to** _____

Parameter	Reference Period	Units	Quantity
Steam Production			
Natural Gas Usage			
Vent Gas Received from Huntsman Polyurethanes (UK) Limited			

Signed

Date.....

(Authorised to sign as representative of Operator)

REPORTING OF PERFORMANCE DATA

Permit Number: EPR/MP3131RW

Operator: Engie Services Limited

Facility: Wilton Energy Centre

Form Number: Performance 2 (31/07/17)

Reporting of performance parameters for the period from _____ **to** _____

Parameter	Reference Period	Units	Quantity
Water Usage			

Signed

Date.....

(Authorised to sign as representative of Operator)

REPORTING OF PERFORMANCE DATA

Permit Number: EPR/MP3131RW

Operator: Engie Services Limited

Facility: Wilton Energy Centre

Form Number: Performance 3 (31/07/17)

Reporting of performance parameters for the period from _____ **to** _____

Parameter	Reference Period	Units	Quantity
Energy Usage			

Signed

Date.....

(Authorised to sign as representative of Operator)

REPORTING OF PERFORMANCE DATA

Permit Number: EPR/MP3131RW

Operator: Engie Services Limited

Facility: Wilton Energy Centre

Form Number: Performance 4 (31/07/17)

Reporting of performance parameters for the month of

Parameter	
Total duration (hours) when natural gas standby boiler is operational	
Number of occurrences when Operator discharges unwanted steam	
Date of occurrences when Operator discharges unwanted steam	
Duration (hours) of occurrences when Operator discharges unwanted steam	
Quantity of unwanted steam discharged (tonnes)	
Number of occurrences when Operator releases unabated vent gas to atmosphere	
Date of occurrences when Operator releases unabated vent gas to atmosphere	
Duration (hours) of occurrences when Operator releases unabated vent gas to atmosphere	
Quantity of unabated vent gas released to atmosphere (tonnes)	

Signed

Date.....

(Authorised to sign as representative of Operator)