



**ENVIRONMENT
AGENCY**

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Teesside Power Station

px Limited
Greystone Road
Grangetown
Middlesbrough
TS6 8JF

Permit number

WP3133LB

Teesside Power Station Permit Number WP3133LB

Introductory note

This introductory note does not form a part of the permit

The installation is located at Greystone Road, Grangetown, Middlesbrough, grid reference 456520E 520370N and covers an area of 25Ha. Immediately North and East of the plant is the Wilton International Site, consisting of a number of chemical plants. The site is operated by px Limited. Teesside Power Station consists of eight Westinghouse Gas Turbine Generator units, two Mitsubishi / Westinghouse steam turbine generator units and one GE Gas Turbine Generator unit . The plant has the capacity to produce approximately 1875MW of electrical power for the National Grid and exports sales steam to the adjacent Wilton International site. The main fuel used within the installation is natural gas, with back up fuels being propane or naphtha. Raw and demineralised water is supplied from the Wilton International Site. Process heat is typically removed by the use of the hybrid cell cooling towers and augmented by the hyperbolic forced draught cooling tower. The main emissions from the installation are carbon dioxide, nitrogen oxides, sulphur dioxide and carbon monoxide. The main pollutant of concern for local impacts is nitrogen oxides and specifically nitrogen dioxide. The main oxide of nitrogen produced from the combustion process will be nitrogen oxide (NO), which is then converted to nitrogen dioxide (NO₂) in the atmosphere Sulphur dioxide emissions are controlled by the sulphur specification of the fuel used. Waste water from the cooling tower purge, boiler blowdown and rainwater is recycled within the cooling water system. Excess water is discharged into the Wilton International Site drainage system. This eventually discharges into Dabholm Gut, which is a tributary of the River Tees. Discharges from the Wilton International Site are controlled under a Water Resources Discharge Consent.

Status Log of the permit		
Detail	Date	Response Date
Application WP3133LB	Duly made 31/03/06	
Additional Information Received	26/09/06	03/11/06
Permit determined	15/12/06	

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation			
Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Enron	AA8397(IPC)	24/07/92	Fully superseded
Enron	BR7429(IPC)	08/04/02	Fully superseded
px Limited	BY3924(IPC)	05/12/04	Fully superseded

End of Introductory Note

Permit

Pollution Prevention and Control
(England and Wales) Regulations 2000

Permit

Permit number
WP3133LB

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby authorises

px Limited ("the operator"),

whose registered office is


px House
Westpoint Road
Stockton-on-Tees
TS17 6BF

company registration number **4373756**

to operate an installation at

Teesside Power Station
Greystone Road
Grangetown
Middlesbrough
TS6 8JF

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

Signed	Date
	15/12/2006

J M Ingram

Authorised to sign on behalf of the Agency

Conditions

1 Management

1.1 General management

- 1.1.1 The activities shall be managed and operated:
- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
 - (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.
- 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 Accidents that may cause pollution

- 1.2.1 The operator shall:
- (a) maintain and implement an accident management plan;
 - (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
 - (c) make any appropriate changes to the plan identified by a review.

1.3 Energy efficiency

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures by a review.

1.4 Efficient use of raw materials

- 1.4.1 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 4 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 appropriate further measures identified by a review.

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

1.5.1. The operator shall:

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every 4 years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

1.6 Site security

1.6.1. Site security measures shall prevent unauthorised access to the site, as far as practicable.

1.7 Multiple operator installations

Not Applicable

2. Operations

2.1 Permitted activities

2.1.1 The operator is 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 2 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 Agency.

2.3.2 Subject to condition 2.3.3 no raw materials or fuels listed in schedule 3 table S3.1 shall be used unless they comply with the specifications set out in that table.

2.3.3 Standby fuel naphtha may be used but for no more than 2400 hours per machine per year

2.3.4 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 3 table(s) S3.2 ; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.

- 2.3.5 Records shall be kept of all waste accepted onto the site.

2.4 Off-site conditions

There are no off-site conditions under this section.

2.5 Improvement programme

- 2.5.1 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 Agency.
- 2.5.2 Except in the case of an improvement which consists only of a submission to the Agency, the operator shall notify the Agency within 14 days of completion of each improvement.

2.6 Pre-operational conditions

There are no pre-operational conditions in this permit.

2.7 Closure and decommissioning

- 2.7.1 The operator shall maintain and operate the activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.
- 2.7.2 The operator shall maintain a site closure plan which demonstrates how the activities can be decommissioned to avoid any pollution risk and return the site to a satisfactory state.
- 2.7.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.
- 2.7.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

2.8 Site protection and monitoring programme

- 2.8.1 The operator shall, within 2 months of the issue of this permit, submit a site protection and monitoring programme.
- 2.8.2 The operator shall implement and maintain the site protection and monitoring programme and shall carry out and record a review of it at least every 4 years.

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 4 tables S4.1, S4.2 and S4.3.

- 3.1.2 The limits given in schedule 4 shall not be exceeded.
- 3.1.3 No condition applies
- 3.1.4 Total annual emissions from the emission point(s) set out in tables schedule 4 S4.1, S4.2 and S4.3 of a substance listed in schedule 4 table S4.4 shall not exceed the relevant limit in table S4.4.
- 3.1.5 From 1 January 2008 the Operator shall inform the Agency in writing of the closure of any relevant LCP within 28 days of the date of closure.

3.2 Transfers off-site

- 3.2.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

3.3 Fugitive emissions of substances

- 3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including those specified in schedule 1 table S1.5, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 No condition applies
- 3.3.3 No condition applies
- 3.3.4 All liquids, 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.

3.4 Odour

- 3.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures, including those specified in schedule 1 table S1.6, to prevent or where that is not practicable to minimise the odour.

3.5 Noise and vibration

- 3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures , including those specified in schedule 1 table S1.7, to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake the monitoring specified in the following tables in schedule 4 to this permit:

- (a) point source emissions specified in tables S4.1, S4.2 and S4.3;
- (b) annual limits specified in table S4.4;
- (c) surface water specified in table S4.5;
- (d) noise specified in table S4.6;
- (e) ambient air monitoring specified in table S4.7; and
- (f) process monitoring specified in table S4.8.

- 3.6.2 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.
- 3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Agency.
- 3.6.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 4 tables S4.1, S4.2 and S4.3 unless otherwise specified in that schedule.
- 3.6.5 Within 6 months of the issue of this permit (unless otherwise agreed in writing by the Agency) the site reference data identified in the site protection and monitoring programme shall be collected and submitted to the Agency.

3.7 Monitoring For the purposes of the Large Combustion Plant Directive

- 3.7.1 If the monitoring results for more than 10 days a year are invalidated within the meaning set out in Schedule 4, the Operator shall:
 - (a) within 28 days of becoming aware of this fact, review the causes of the invalidations and submit to the Agency for approval, proposals for measures to improve the reliability of the CEMs systems, including a timetable for the implementation of those measures; and
 - (c) implement the approved proposals.
- 3.7.2 CEMs on release points from the LCP shall be subject to quality control by means of parallel measurements with reference methods at least once every calendar year.
- 3.7.3 Unless otherwise agreed in writing by the Agency in accordance with condition 3.7.4 below, the Operator shall carry out the methods, including the reference measurement methods, to use and calibrate CEMs in accordance with the appropriate CEN standards.
- 3.7.4 If CEN standards are not available, ISO standards, national or international standards which will ensure the provision of data of an equivalent scientific quality shall be used, as agreed in writing with the Agency.

- 3.7.5 The Operator shall, annually, assess the results of CEMs and shall submit an assessment to the Agency in writing, within one month of the completion of the assessment.

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 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) the site protection and monitoring programme.
- 4.1.2 Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.
- 4.1.3 All records required to be held by this permit shall be held on the installation on-site and shall be available for inspection by the Agency at any reasonable time.

4.2 Reporting

- 4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the 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 this permit against the relevant assumptions, parameters and results in the assessment of the impact of the emissions submitted with the application;
 - (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
 - (c) the annual production /treatment data set out in schedule 5 table S5.2;
 - (d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and
 - (e) details of any contamination or decontamination of the site which has occurred.
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the 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 5 table S5.1;

- (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.4 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency
- 4.2.5 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit;
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.
- 4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the activities;
 - (b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and
 - (c) resumption of the operation of part or all of the activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.5 Where the 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 Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 No condition applies
- 4.3.7 No condition applies
- 4.3.8 No condition applies
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

- (a) any change in the operator's trading name, registered name or registered office address;
- (b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and
- (c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Climate Change Agreement

4.3.10 Where the operator has entered into a climate change agreement with the Government, the 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.

4.3.11 Where the operator has entered into a direct participant agreement in the emissions trading scheme which covers emissions relating to the energy consumption of the activities, the operator shall notify the Agency within one month of:

- (a) a decision by the operator to withdraw from or the Secretary of State to terminate that agreement.
- (b) a failure to comply with an annual target under that agreement at the end of the trading compliance period.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 1.1 Part A(1)(a): Burning any fuel in an appliance with a rated thermal input of 50megawatts or more	Eight gas turbines rated at 169MW each. Each gas turbine passes through a heat recovery steam generator then high pressure steam is extracted and passes into two steam turbines rated at 304MW each. The plant is also capable of generating 690 tonnes of intermediate pressure steam. A single "black start" gas turbine and generator rated at 45MW, connected to a heat recovery steam generator, generating up to 50 tonnes per hour of steam.	From the receipt and storage of raw materials, water treatment chemicals, oils for turbines, water including recycled water and Fuel for the turbines. Generation of both electricity, export to Wilton International Site or National Grid and steam for the Wilton International Site. All cooling systems, treatment of oily water and discharge of condensed HRSG blowdown, cooling water, cooling tower and surface water, stack, devices and systems for controlling combustion conditions
Directly Associated Activity		
Not applicable	Not applicable	Not applicable

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to section 2.1.1, 2.1.3, 2.1.5, 2.1.7 and 2.1.15 in the application. The response to sections 2.2.1.1, 2.2.1.2, 2.2.2.6 to 2.2.2.10, 2.2.4.1 and 2.2.5 in the application.	31/03/06

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IP5	The operator shall submit a written report to the Environment Agency covering the Effluent Recovery Scheme and in particular the impact of the scheme on reducing water consumption and effluent, any further opportunities identified as a result of this scheme and a time scale for their completion.	28 th February 2007
IP9	The operator shall send a written report to the Environment Agency detailing their proposals for upgrading continuous emission monitors to MCERTS standard. The report shall include a plan and time scale for any upgrading of equipment	30 th April 2007
IP1	The operator shall submit a written site closure plan for the Teesside Power Station to the Environment Agency for review, ensuring the indicative requirements for a site closure plan in section 2.11 of IPPC sector Guidance Note – combustion Activities are addressed	30 th June 2007
IP2	The operator shall undertake an audit of water use across the site in accordance with section 2.4.3 of "IPPC sector guidance note- combustion activities". The operator shall submit a report of the survey including a description of the methodology used and compare findings against the indicative BAT provided in the guidance note. Included in the response there shall be a water flow diagram, a water mass balance, water efficiency objectives. Where improvements can be made, and the option is considered BAT, provide a time scale for their implementation.	30 th June 2007
IP10	The operator shall send a written report to the Environment Agency of a BAT review for the auxiliary boiler including an assessment of emissions of nitrogen oxides, sulphur dioxide, carbon monoxide	30 th June 2007

	and particulates. Any improvements identified shall have times scales identified for their implementation.	
IP4	The operator shall obtain representative samples of the effluent discharged at W1 to determine the COD, chlorine (as HOCl) and sulphate content. Sampling and analysis should be to appropriate standards as covered in Environment Agency Horizontal Guidance M18. The operator shall use the results of the sampling to carry out an appropriate environmental impact assessment for COD, Chlorine (as HOCl) and Sulphate on Dabholm Gut and the River Tees. The operator shall submit a written report to the Environment Agency detailing the sampling of the effluent, analytical methods, results and the environmental impact assessment.	30 th September 2007
IP7	The operator shall send a written report to the Environment Agency detailing a full BAT assessment for controlling oxides of nitrogen emissions. The review shall include, but not limited to, the expected benefit and cost of each option. The report shall include a timetable to implement any proposed changes.	31 st October 2007
IP3	The operator shall undertake a waste minimisation audit across the installation in accordance with section 2.4.2 of "IPPC Sector Guidance Note-Combustion Activities." The operator shall submit a written report of the audit, including where improvements can be made, and the option is considered BAT, provide time scale for their implementation	30 th December 2007
IP6	The operator shall submit a written report to the Environment Agency detailing how the benchmark level for suspended solids can be achieved as detailed in Sector Guidance Note- combustion activities, table 3.2 (section 3.2.2), including time scales for any proposals.	31 st December 2007
IP8	The operator shall undertake a review and send a written report of the review to the Environment Agency of the energy efficiency measures within the buildings, with reference to the requirements in Environment Agency Horizontal guidance H2. Any improvements identified shall have times scales identified for their implementation.	31 st December 2007

Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels

Raw materials and fuel description	Specification
Natural Gas fuel: Hydrogen Sulphide content	3.38ppm
Naphtha fuel for gas turbines	Max 0.1% sulphur by mass

Table S3.2 Permitted waste types and quantities for px Ltd installation

Maximum quantity	Description
Not applicable	Not applicable
Waste code	Description
Not applicable	Not applicable

Schedule 4 – Emissions and monitoring

Note

For the purposes of this Schedule, the following interpretations shall apply:

- For the continuous measurement systems fitted to the LCP release points defined in Table S4.1 the validated hourly and daily averages shall be determined from the measured valid hourly average values after having subtracted the value of the 95% confidence interval.
- The 95% confidence interval for nitrogen oxides and sulphur dioxide of a single measured result shall be taken to be 20%.
- The 95% confidence interval for dust releases of a single measured result shall be taken to be 30%
- The 95% confidence interval for carbon monoxide releases of a single measured result shall be taken to be 10%
- An invalid hourly average means an hourly average period invalidated due to malfunction of, or maintenance work being carried out on, the continuous measurement system. However, to allow some discretion for zero and span gas checking, or cleaning (by flushing), an hourly average period will count as valid as long as data has been accumulated for at least two thirds of the period (40 minutes). Such discretionary periods are not to exceed more than 5 in any one 24-hour period unless agreed in writing. Where plant may be operating for less than the 24-hour period, such discretionary periods are not to exceed more than one quarter of the overall valid hourly average periods unless agreed in writing.
- Any day, in which more than three hourly average values are invalid shall be invalidated.
- The limits specified in table S4.1 for release points A1 to A8 and A10 shall not apply for a period of up to four hours following turbine start-up in order to permit steady state

Table S4.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NATURAL GAS or Propane	110 mg/m ³	Daily Mean of validated hourly averages	Continuous	BSEN 14792
A10 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NATURAL GAS or Propane	80 mg/m ³	Daily Mean of validated hourly averages	Continuous	BSEN 14792
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NATURAL GAS or Propane	30 mg/m ³	Daily Mean of validated hourly averages	Continuous	ISO12039
A10 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NATURAL GAS or Propane	70 mg/m ³	Daily Mean of validated hourly averages	Continuous	ISO12039
A1,A2,A3,A4,A5,A6, A7,A8 and A10 on site plan in Schedule 2	Oxides of Sulphur	Gas turbine firing on NATURAL GAS or Propane	10 mg/m ³	Daily Mean	Bi-annual	BS ISO 6069-4.1 (ISO7934)
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NAPHTHA	125 mg/m ³	Monthly average	Continuous	BSEN 14792
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NAPHTHA	50 mg/m ³	Daily Mean of validated hourly averages	Continuous	ISO12039
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Sulphur	Gas turbine firing on NAPHTHA	No limit	Not applicable	Not applicable	Not applicable
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Particulates	Gas turbine firing on NAPHTHA	No limit	Not applicable	Not applicable	Not applicable
A12 GT by-pass stack	None	Not applicable	No limit	Not applicable	Not applicable	Not applicable
A13 Auxiliary boiler stack	None	Not applicable	No limit	Not applicable	Not applicable	Not applicable

Table S4.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
-	-	-	-	-	-	-

Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site- emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Flow Rate	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	No limit	total daily cumulative volume	Continuous	Not applicable
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	pH	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	5-9	Spot sample	monthly	Operator method reference H031
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Temperature	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	Less than 35°C	Daily	Continuous	Calibrated instrument
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Suspended Solids	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	25mg/l	Spot sample	monthly	Operator method reference H035
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Oil	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	Nil detection of oil by visual inspection	Spot sample	monthly	Operator method reference H029
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Ammoniacal nitrogen	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	5mg/l	Spot sample	monthly	Operator method reference H027

Table S4.4 Annual limits

Substance	Medium	Limit (including unit)
Mercury	Water	0.73 kg in a year
Cadmium	Water	7.3 kg in a year

Table S4.5 Surface water monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
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Table S4.6 Noise monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
On site at locations defined in attachment 2 of application on drawing ref MD-2001	Sound pressure level (dBA), L90 and L50 over one minute intervals	Continuously	BS 4142:1997	None
Perimeter noise at grid reference NZ570157 (Lazenby)	Sound pressure level (dBA), L90 and L50 over one minute intervals	Nightly between 23:00 and 05:00hrs	BS 4142:1997	None

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.6.1.	A1, A2, A3, A4, A5,A6,A7,A8,A10	Every 6 months	31/12/06
Emissions to water Parameters as required by condition 3.6.1	W1	Every 12 months	31/12/06

Table S5.2: Annual production/treatment

Parameter	Units
Power Generated	GWHrs
Total Steam generated	tonnes

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Raw Water usage	Annually	M ³
Demineralised water	Annually	M ³
Energy usage	Annually	MWs
Naptha	Annually	Tonnes
Propane	Annually	Tonnes
Natural Gas	Annually	Tonnes

Table S5.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Agency	13/12/06
Sewer	Form sewer 1 or other form as agreed in writing by the Agency	13/12/06
Water usage	Form water usage1 or other form as agreed in writing by the Agency	13/12/06
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	13/12/06
Other performance indicators	Form performance 1 or other form as agreed in writing by the Agency	14/12/06

Schedule 6 - 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 PPC Regulations.

Part A

Permit Number	
Name of operator	
Location of Installation	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission 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 installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of px Limited

Schedule 7 - Interpretation

"*accident*" means an accident that may result in pollution.

"*annually*" means once every year.

"*application*" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 4 to the PPC Regulations.

"*authorised officer*" means any person authorised by the 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.

"*fugitive emission*" means an emission to air, water or land from the activities which is 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.

"*land protection guidance*", means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: application site report and site protection monitoring programme".

"*MCERTS*" means the Environment Agency's Monitoring Certification Scheme.

"*notify/notified without delay*" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"*quarter*" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"*site protection and monitoring programme*" means a document which meets the requirements for site protection and monitoring programmes described in the Land Protection Guidance.

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

"*year*" means calendar year ending 31 December.

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

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

- (a) 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
- (b) 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

END OF PERMIT

Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

Teesside Power Station

**px Limited
Greystone Road
Grangetown
Middlesbrough
TS6 8JF**

Variation Notice number

RP3834UY

Permit number

WP3133LB

Introductory note

This introductory note does not form a part of the Variation Notice.

The following Notice is issued under Regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the "Regulations") to vary the conditions of Permit number WP3133LB (the "Permit") issued under the Regulations to operate the Teesside Power Station (the "Installation").

The Notice comprises: Schedule A containing conditions to be deleted; Schedule B conditions to be amended; and Schedule C conditions to be added. The Notice is subject to the express conditions set out in Schedules A to C.

The Permit, as amended by this Variation Notice, contains conditions which have to be complied with. It should be noted that aspects of the operation of the Installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the Installation. Techniques include both the technology used and the way in which the Installation is designed, built, maintained, operated and decommissioned.

This variation amends one condition allowing the Operator to archive records off site after one year, provided they are readily accessible.

Other PPC Permits relating to this Installation

Permit holder	Permit Number	Date of Issue
Not applicable	Not applicable	Not applicable

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Enron	AA8397(IPC)	24/07/92	Fully superseded
Enron	BR7429(IPC)	08/04/02	Fully superseded
px Limited	BY3924(IPC)	05/12/04	Fully superseded

Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1 of the Permit.

Confidentiality

The Permit/Variation requires the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of the Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the Installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

Status Log

Status Log of the permit

Detail	Date	Response Date
Application WP3133LB	Duly made 31/03/06	
Additional Information Received	26/09/06	03/11/06
Permit determined	15/12/06	
1 st variation RP3834UY	17/05/2007	
Variation determined	28/06/2007	

End of introductory Note



Variation Notice

Permit number

WP3133LB (the "Permit")

Variation Notice number

RP3834UY

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended) (the "Regulations"), hereby varies the Permit held by

px Limited (the "Operator"),

whose Registered Office is

px House
Westpoint Road
Stockton-on-Tees
TS17 6BF

Company registration number **4373756**

which relates to the operation of the Installation at

Teesside Power Station
Greystone Road
Grangetown
Middlesbrough
TS6 8JF (the "Installation")

to the extent set out in Schedules A to C of this Variation Notice.

Signed

A rectangular box intended for a signature, currently empty.

Howard Stuttard
Team Leader PIR

Authorised to sign on behalf of the Environment Agency

Date

SCHEDULE A - CONDITIONS TO BE DELETED

None

SCHEDULE B - CONDITIONS TO BE AMENDED

Permit condition 4.1.3 shall be amended as follows:

All records required to be held by this permit shall either be held on the installation or other location agreed by the Agency in writing, and shall be available for inspection by the Agency at any reasonable time.

SCHEDULE C - CONDITIONS TO BE ADDED

None

Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

Teesside Power Station

**px Limited
Greystone Road
Grangetown
Middlesbrough
TS6 8JF**

Variation Notice number

KP3130XR

Permit number

WP3133LB

Introductory note

This introductory note does not form a part of the Variation Notice.

The following Notice is issued under Regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the “Regulations”) to vary the conditions of Permit number WP3133LB (the “Permit”) issued under the Regulations to operate Teesside Power Station (the “Installation”).

The Notice comprises: Schedule A containing conditions to be deleted; Schedule B conditions to be amended; and Schedule C conditions to be added. The Notice is subject to the express conditions set out in Schedules A to C.

The Permit, as amended by this Variation Notice, contains conditions which have to be complied with. It should be noted that aspects of the operation of the Installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the Installation. Techniques include both the technology used and the way in which the Installation is designed, built, maintained, operated and decommissioned.

This variation corrects some errors found in the original PPC Permit.

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Enron	AA8397(IPC)	24/07/92	Fully superseded
Enron	BR7429(IPC)	08/04/02	Fully superseded
px Limited	BY3924(IPC)	05/12/04	Fully superseded

Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1 of the Permit.

Confidentiality

The Permit/Variation requires the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of the Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the Installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

Status Log

Status Log of the permit

Detail	Date	Response Date
Application WP3133LB	Duly made 31/03/06	
Additional Information Received	26/09/06	03/11/06
Permit determined	15/12/06	
1 st variation RP3834UY	17/05/2007	
Variation determined	28/06/2007	
2 nd variation KP3130XR	30/03/2007	
Variation determined	23/11/2007	

End of introductory Note

.Variation Notice

Pollution Prevention and Control
(England and Wales) Regulations 2000



**ENVIRONMENT
AGENCY**

Variation Notice

Permit number

WP3133LB (the "Permit")

Variation Notice number

KP3130XR

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended) (the "Regulations"), hereby varies the Permit held by

px limited (the "Operator"),

Whose Registered Office is

px House

Westpoint Road

Stockton-on-Tees

TS17 6BF

Company registration number **4373756**

which relates to the operation of the Installation at

Teesside Power Station

Greystone Road

Grangetown

Middlesbrough

TS6 8JF (the "Installation")

to the extent set out in Schedules A to C of this Variation Notice.

Signed

A rectangular box intended for a signature.

Howard Stuttard

Team Leader PIR

Authorised to sign on behalf of the Environment Agency

Date

SCHEDULE A - CONDITIONS TO BE DELETED

1.1 Schedule 4, Table S4.4 shall be deleted.

1.2 Delete improvement condition IP6

IP6	The operator shall submit a written report to the Environment Agency detailing how the benchmark level for suspended solids can be achieved as detailed in Sector Guidance Note- combustion activities, table 3.2 (section 3.2.2), including time scales for any proposals.	31 st December 2007
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SCHEDULE B - CONDITIONS TO BE AMENDED

1.3 The following paragraph in the interpretation section of the permit shall be amended as highlighted below in red text:

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; **15% for gas turbines** 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

1.4 Permit condition 3.4.1 shall be amended to remove references to S1, Table S1.6:

Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the odour.

1.5 Permit condition 3.5.1 shall be amended to remove references to S1, Table S1.7:

Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures to prevent or where that is not practicable to minimise the noise and vibration.

1.6 Permit condition 3.6.1 shall be amended to remove references to Tables S4.7 and 4.8:

The operator shall, unless otherwise agreed in writing by the Agency, undertake the monitoring specified in the following tables in schedule 4 to this permit:

- (a) point source emissions specified in tables S4.1, S4.2 and S4.3;
- (b) annual limits specified in table S4.4;
- (c) surface water specified in table S4.5;
- (d) noise specified in table S4.6;

1.7 The references to, and limits placed upon suspended solids in Table S4.3 shall be deleted:

Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1- to Wilton International Site drainage which discharges into Dabholm Gut a tributary of the River Tees	Flow Rate	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	No limit	total daily cumulative volume	Continuous	Not applicable
W1- to Wilton International Site drainage which discharges into Dabholm Gut a tributary of the River Tees	pH	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	5-9	Spot sample	monthly	Operator method reference H031
W1- to Wilton International Site drainage which discharges into Dabholm Gut a tributary of the River Tees	Temperature	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	Less than 35°C	Daily	Continuous	Calibrated instrument
W1- to Wilton International Site drainage which discharges into Dabholm Gut a tributary of the River Tees	Oil	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	Nil detection of oil by visual inspection	Spot sample	monthly	Operator method reference H029
W1- to Wilton International Site drainage which discharges into Dabholm Gut a tributary of the River Tees	Ammoniacal nitrogen	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	5mg/l	Spot sample	monthly	Operator method reference H027

1.8 Table S4.1 shall be amended as highlighted below in red text:

Table S4.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NATURAL GAS or Propane	110 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO 10849
A10 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NATURAL GAS or Propane	80 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO 10849
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NATURAL GAS or Propane	30 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039
A10 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NATURAL GAS or Propane	70 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039
A1,A2,A3,A4,A5,A6, A7,A8 and A10 on site plan in Schedule 2	Oxides of Sulphur	Gas turbine firing on NATURAL GAS or Propane	10 mg/Nm ³	Daily Mean	6 monthly	BS ISO 6069-4.1
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NAPHTHA	125 mg/Nm ³	Monthly average	Continuous	ISO 10849
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NAPHTHA	50 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Sulphur	Gas turbine firing on NAPHTHA	No limit	Not applicable	Not applicable	Not applicable
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Particulates	Gas turbine firing on NAPHTHA	No limit	Not applicable	Not applicable	Not applicable
A12 GT by-pass stack	None	Not applicable	No limit applies	Not applicable	Not applicable	Not applicable
A13 Auxiliary boiler stack	None	Not applicable	No limit applies	Not applicable	Not applicable	Not applicable

1.9 Table S5.4 shall be amended as highlighted below in red text:

Table S5.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Agency	14/11/07
Sewer	Form sewer 1 or other form as agreed in writing by the Agency	14/11/07
Water usage	Form water usage1 or other form as agreed in writing by the Agency	14/11/07
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	14/11/07
Other performance indicators	Form performance 1 or other form as agreed in writing by the Agency	14/11/07

SCHEDULE C - CONDITIONS TO BE ADDED

1.10 None



Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Teesside Power Station

Teesside Power Limited
Greystone Road
Grangetown
Middlesborough
TS6 8JF

Permit number

TP3935XX

Teesside Power Station Permit Number TP3935XX

Introductory note

This introductory note does not form a part of the permit

The installation is located at Greystone Road, Grangetown, Middlesbrough, grid reference 456520E 520370N and covers an area of 25Ha. Immediately North and East of the plant is the Wilton International Site, consisting of a number of chemical plants. The site is operated by Teesside Power Limited. Teesside Power Station consists of eight Westinghouse Gas Turbine Generator units, two Mitsubishi / Westinghouse steam turbine generator units and one GE Gas Turbine Generator unit. The plant has the capacity to produce approximately 1875MW of electrical power for the National Grid and exports sales steam to the adjacent Wilton International site. The main fuel used within the installation is natural gas, with back up fuels being propane or naphtha. Raw and demineralised water is supplied from the Wilton International Site. Process heat is typically removed by the use of the hybrid cell cooling towers and augmented by the hyperbolic forced draught cooling tower. The main emissions from the installation are carbon dioxide, nitrogen oxides, sulphur dioxide and carbon monoxide. The main pollutant of concern for local impacts is nitrogen oxides and specifically nitrogen dioxide. The main oxide of nitrogen produced from the combustion process will be nitrogen oxide (NO), which is then converted to nitrogen dioxide (NO₂) in the atmosphere. Sulphur dioxide emissions are controlled by the sulphur specification of the fuel used. Waste water from the cooling tower purge, boiler blowdown and rainwater is recycled within the cooling water system. Excess water is discharged into the Wilton International Site drainage system. This eventually discharges into Dabholm Gut, which is a tributary of the River Tees. Discharges from the Wilton International Site are controlled under a Water Resources Discharge Consent.

Status Log of the permit

Detail	Date	Response Date
Application WP3133LB	Duly made 31/03/06	
Additional Information Received	26/09/06	03/11/06
Permit determined	15/12/06	
1 st variation RP3834UY	17/05/2007	
Variation determined	28/06/2007	
2 nd variation KP3130XR	30/03/06	
Variation determined	23/11/2007	
Transfer Application TP3935XX	04/01/2008	
Transfer TP3935XX issued	01/04/2008	

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Enron	AA8397(IPC)	24/07/92	Fully superseded
Enron	BR7429(IPC)	08/04/02	Fully superseded
px Limited	BY3924(IPC)	05/12/04	Fully superseded
px Limited	WP3133LB(PPC)	15/12/06	Fully superseded
px Limited	RP3834UY (PPC variation)	17/05/07	Fully superseded
px Limited	KP3130XR	23/11/07	Fully superseded

End of Introductory Note

Permit

Pollution Prevention and Control
(England and Wales) Regulations 2000

Permit

Permit number

TP3935XX

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (SI 2000 No 1973) hereby authorises

Teesside Power Limited ("the operator"),

whose registered office is

First Floor

Christine House

Sorbonne Close

Teesdale

Stockton on Tees

Teesside

TS17 6DA

company registration number **02464040**

to operate an installation at

Greystone Road

Grangetown

Middlesborough

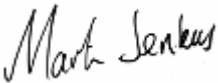
TS6 8JF

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

The permit will take effect from the 1st April 2008.

Signed

Date of Transfer

	14 th March 2008
---	-----------------------------

M Jenkins

Authorised to sign on behalf of the Agency

Conditions

1 Management

1.1 General management

1.1.1 The activities shall be managed and operated:

- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances and those drawn to the attention of the operator as a result of complaints; and
- (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.

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 Accidents that may cause pollution

1.2.1 The operator shall:

- (a) maintain and implement an accident management plan;
- (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
- (c) make any appropriate changes to the plan identified by a review.

1.3 Energy efficiency

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every 4 years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures by a review.

1.4 Efficient use of raw materials

1.4.1 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 4 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 appropriate further measures identified by a review.

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

1.5.1. The operator shall:

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every 4 years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

1.6 Site security

1.6.1. Site security measures shall prevent unauthorised access to the site, as far as practicable.

1.7 Multiple operator installations

Not Applicable

2. Operations

2.1 Permitted activities

2.1.1 The operator is 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 2 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 Agency.

2.3.2 Subject to condition 2.3.3 no raw materials or fuels listed in schedule 3 table S3.1 shall be used unless they comply with the specifications set out in that table.

2.3.3 Standby fuel naphtha may be used but for no more than 2400 hours per machine per year

2.3.4 Waste shall only be accepted if:

- (a) it is of a type and quantity listed in schedule 3 table(s) S3.2 ; and

- (b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.5 Records shall be kept of all waste accepted onto the site.

2.4 Off-site conditions

There are no off-site conditions under this section.

2.5 Improvement programme

There are no improvement conditions in this permit.

2.6 Pre-operational conditions

There are no pre-operational conditions in this permit.

2.7 Closure and decommissioning

2.7.1 The operator shall maintain and operate the activities so as to prevent or where that is not practicable, to minimise, any pollution risk on closure and decommissioning.

2.7.2 The operator shall maintain a site closure plan which demonstrates how the activities can be decommissioned to avoid any pollution risk and return the site to a satisfactory state.

2.7.3 The operator shall carry out and record a review of the site closure plan at least every 4 years.

2.7.4 The site closure plan (or relevant part thereof) shall be implemented on final cessation or decommissioning of the activities or part thereof.

2.8 Site protection and monitoring programme

2.8.1 The operator shall, within 2 months of the issue of this permit, submit a site protection and monitoring programme.

2.8.2 The operator shall implement and maintain the site protection and monitoring programme and shall carry out and record a review of it at least every 4 years.

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 4 tables S4.1, S4.2 and S4.3.

3.1.2 The limits given in schedule 4 shall not be exceeded.

3.1.3 No condition applies

3.1.4 Total annual emissions from the emission point(s) set out in tables schedule 4 S4.1, S4.2 and S4.3 of a substance listed in schedule 4 table S4.4 shall not exceed the relevant limit in table S4.4.

- 3.1.5 From 1 January 2008 the Operator shall inform the Agency in writing of the closure of any relevant LCP within 28 days of the date of closure.

3.2 Transfers off-site

- 3.2.1 Records of all the wastes sent off site from the activities, for either disposal or recovery, shall be maintained.

3.3 Fugitive emissions of substances

- 3.3.1 Fugitive emissions of substances (excluding odour, noise and vibration) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including those specified in schedule 1 table S1.5, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 No condition applies
- 3.3.3 No condition applies
- 3.3.4 All liquids, 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.

3.4 Odour

- 3.4.1 Emissions from the activities shall be free from odour at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures, to prevent or where that is not practicable to minimise the odour.

3.5 Noise and vibration

- 3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause annoyance outside the site, as perceived by an authorised officer of the Agency, unless the operator has used appropriate measures, to prevent or where that is not practicable to minimise the noise and vibration.

3.6 Monitoring

- 3.6.1 The operator shall, unless otherwise agreed in writing by the Agency, undertake the monitoring specified in the following tables in schedule 4 to this permit:
- (a) point source emissions specified in tables S4.1, S4.2 and S4.3;
 - (b) annual limits specified in table S4.4;
 - (c) surface water specified in table S4.5;
 - (d) noise specified in table S4.6;
- 3.6.2 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.

- 3.6.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.6.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing by the Agency.
- 3.6.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 4 tables S4.1, S4.2 and S4.3 unless otherwise specified in that schedule.
- 3.6.5 Within 6 months of the issue of this permit (unless otherwise agreed in writing by the Agency) the site reference data identified in the site protection and monitoring programme shall be collected and submitted to the Agency.

3.7 Monitoring For the purposes of the Large Combustion Plant Directive

- 3.7.1 If the monitoring results for more than 10 days a year are invalidated within the meaning set out in Schedule 4, the Operator shall:
- (a) within 28 days of becoming aware of this fact, review the causes of the invalidations and submit to the Agency for approval, proposals for measures to improve the reliability of the CEMs systems, including a timetable for the implementation of those measures; and
 - (c) implement the approved proposals.
- 3.7.2 CEMs on release points from the LCP shall be subject to quality control by means of parallel measurements with reference methods at least once every calendar year.
- 3.7.3 Unless otherwise agreed in writing by the Agency in accordance with condition 3.7.4 below, the Operator shall carry out the methods, including the reference measurement methods, to use and calibrate CEMs in accordance with the appropriate CEN standards.
- 3.7.4 If CEN standards are not available, ISO standards, national or international standards which will ensure the provision of data of an equivalent scientific quality shall be used, as agreed in writing with the Agency.
- 3.7.5 The Operator shall, annually, assess the results of CEMs and shall submit an assessment to the Agency in writing, within one month of the completion of the assessment.

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 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) the site protection and monitoring programme.

4.1.2 Any records required to be made by this permit shall be supplied to the Agency within 14 days where the records have been requested in writing by the Agency.

4.1.3 All records required to be held by this permit shall either be held on the installation or other location agreed by the Agency in writing, and shall be available for inspection by the Agency at any reasonable time.

4.2 Reporting

4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the 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 this permit against the relevant assumptions, parameters and results in the assessment of the impact of the emissions submitted with the application;

(b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;

(c) the annual production /treatment data set out in schedule 5 table S5.2;

(d) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 of that schedule; and

(e) details of any contamination or decontamination of the site which has occurred.

4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the 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 5 table S5.1;

(b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4 ; and

(c) giving the information from such results and assessments as may be required by the forms specified in those tables.

4.2.3 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.

4.2.4 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency

4.2.5 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 1 month of the review or change.

4.3 Notifications

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit;
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.
- 4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the activities;
 - (b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and
 - (c) resumption of the operation of part or all of the activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.5 Where the 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 Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 No condition applies
- 4.3.7 No condition applies
- 4.3.8 No condition applies
- 4.3.9 The Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- (a) any change in the operator's trading name, registered name or registered office address;
 - (b) any change to particulars of the operator's ultimate holding company (including details of an ultimate holding company where an operator has become a subsidiary); and
 - (c) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Climate Change Agreement

- 4.3.10 Where the operator has entered into a climate change agreement with the Government, the 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.

4.3.11 Where the operator has entered into a direct participant agreement in the emissions trading scheme which covers emissions relating to the energy consumption of the activities, the operator shall notify the Agency within one month of:

(a) a decision by the operator to withdraw from or the Secretary of State to terminate that agreement.

(b) a failure to comply with an annual target under that agreement at the end of the trading compliance period.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.

Schedule 1 - Operations

Table S1.1 activities

Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
Section 1.1 Part A(1)(a): Burning any fuel in an appliance with a rated thermal input of 50megawatts or more	Eight gas turbines rated at 169MW each. Each gas turbine passes through a heat recovery steam generator then high pressure steam is extracted and passes into two steam turbines rated at 304MW each. The plant is also capable of generating 690 tonnes of intermediate pressure steam. A single "black start" gas turbine and generator rated at 45MW, connected to a heat recovery steam generator, generating up to 50 tonnes per hour of steam.	From the receipt and storage of raw materials, water treatment chemicals, oils for turbines, water including recycled water and Fuel for the turbines. Generation of both electricity, export to Wilton International Site or National Grid and steam for the Wilton International Site. All cooling systems, treatment of oily water and discharge of condensed HRSG blowdown, cooling water, cooling tower and surface water, stack, devices and systems for controlling combustion conditions
Directly Associated Activity		
Not applicable	Not applicable	Not applicable

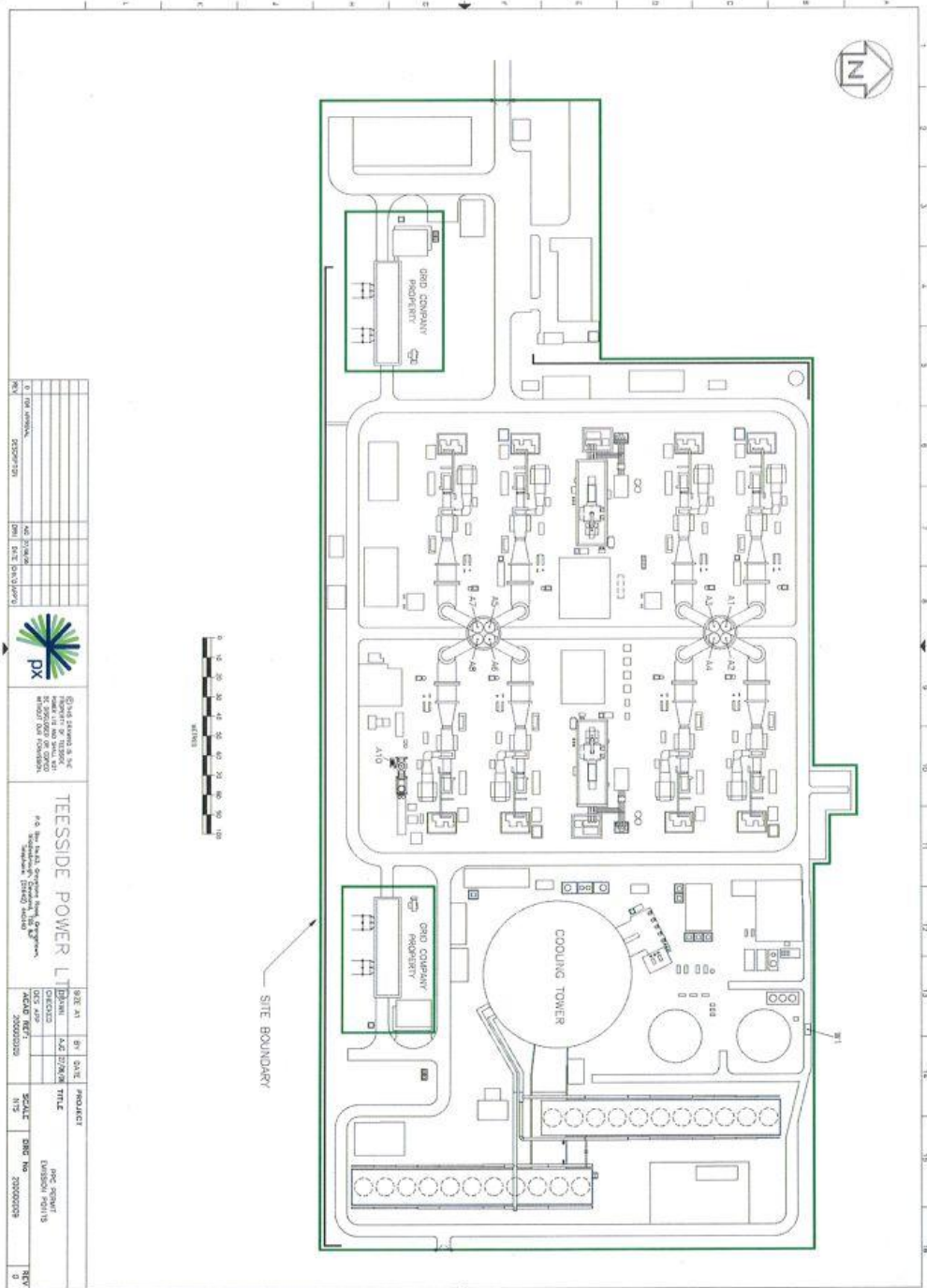
Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to section 2.1.1, 2.1.3, 2.1.5, 2.1.7 and 2.1.15 in the application. The response to sections 2.2.1.1, 2.2.1.2, 2.2.2.6 to 2.2.2.10, 2.2.4.1 and 2.2.5 in the application.	31/03/06
Transfer application	Sections A, D and F of the application.	04/01/08

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
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Schedule 2 - Site plan



Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Natural Gas fuel: Hydrogen Sulphide content	3.38ppm
Naphtha fuel for gas turbines	Max 0.1% sulphur by mass

Table S3.2 Permitted waste types and quantities for Teeside Power Limited installation	
Maximum quantity	Description
Not applicable	Not applicable
Waste code	Description
Not applicable	Not applicable

Schedule 4 – Emissions and monitoring

Note

For the purposes of this Schedule, the following interpretations shall apply:

- For the continuous measurement systems fitted to the LCP release points defined in Table S4.1 the validated hourly and daily averages shall be determined from the measured valid hourly average values after having subtracted the value of the 95% confidence interval.
- The 95% confidence interval for nitrogen oxides and sulphur dioxide of a single measured result shall be taken to be 20%.
- The 95% confidence interval for dust releases of a single measured result shall be taken to be 30%
- The 95% confidence interval for carbon monoxide releases of a single measured result shall be taken to be 10%
- An invalid hourly average means an hourly average period invalidated due to malfunction of, or maintenance work being carried out on, the continuous measurement system. However, to allow some discretion for zero and span gas checking, or cleaning (by flushing), an hourly average period will count as valid as long as data has been accumulated for at least two thirds of the period (40 minutes). Such discretionary periods are not to exceed more than 5 in any one 24-hour period unless agreed in writing. Where plant may be operating for less than the 24-hour period, such discretionary periods are not to exceed more than one quarter of the overall valid hourly average periods unless agreed in writing.
- Any day, in which more than three hourly average values are invalid shall be invalidated.
- The limits specified in table S4.1 for release points A1 to A8 and A10 shall not apply for a period of up to four hours following turbine start-up in order to permit steady state

Table S4.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NATURAL GAS or Propane	110 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO 10849
A10 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NATURAL GAS or Propane	80 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO 10849
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NATURAL GAS or Propane	30 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039

Table S4.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A10 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NATURAL GAS or Propane	70 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039
A1,A2,A3,A4,A5,A6, A7,A8 and A10 on site plan in Schedule 2	Oxides of Sulphur	Gas turbine firing on NATURAL GAS or Propane	10 mg/Nm ³	Daily Mean	Bi-annual	BS ISO 6069-4.1 (ISO7934)
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NAPHTHA	125 mg/Nm ³	Monthly average	Continuous	ISO 10849
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NAPHTHA	50 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Sulphur	Gas turbine firing on NAPHTHA	No limit	Not applicable	Not applicable	Not applicable
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Particulates	Gas turbine firing on NAPHTHA	No limit	Not applicable	Not applicable	Not applicable
A12 GT by-pass stack	None	Not applicable	No limit applies	Not applicable	Not applicable	Not applicable
A13 Auxiliary boiler stack	None	Not applicable	No limit applies	Not applicable	Not applicable	Not applicable

Table S4.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference period	Monitoring frequency	Monitoring standard or method
-						

Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Flow Rate	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	No limit	total daily cumulative volume	Continuous	Not applicable

Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	pH	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	5-9	Spot sample	monthly	Operator method reference H031
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Temperature	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	Less than 35°C	Daily	Continuous	Calibrated instrument
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Oil	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	Nil detection of oil by visual inspection	Spot sample	monthly	Operator method reference H029
W1- to Wilton International Site drainage which discharges into Dabhlom Gut a tributary of the River Tees	Ammoniacal nitrogen	Cooling tower discharge, boiler blowdown, fuel conditioning systems, surface drains	5mg/l	Spot sample	monthly	Operator method reference H027

Table S4.5 Surface water monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications or
-				

Table S4.6 Noise monitoring requirements

Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
On site at locations defined in attachment 2 of application on drawing ref MD-2001	Sound pressure level (dBA), L90 and L50 over one minute intervals	Continuously	BS 4142:1997	None
Perimeter noise at grid reference NZ570157 (Lazenby)	Sound pressure level (dBA), L90 and L50 over one minute intervals	Nightly between 23:00 and 05:00hrs	BS 4142:1997	None

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.6.1.	A1, A2, A3, A4, A5,A6,A7,A8,A10	Every 6 months	31/12/06
Emissions to water Parameters as required by condition 3.6.1	W1	Every 12 months	31/12/06

Table S5.2: Annual production/treatment

Parameter	Units
Power Generated	GWHrs
Total Steam generated	tonnes

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Raw Water usage	Annually	M ³
Demineralised water	Annually	M ³
Energy usage	Annually	MWs
Naptha	Annually	Tonnes
Propane	Annually	Tonnes
Natural Gas	Annually	Tonnes

Table S5.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Agency	07/02/08
Sewer	Form sewer 1 or other form as agreed in writing by the Agency	07/02/08
Water usage	Form water usage1 or other form as agreed in writing by the Agency	07/02/08
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	07/02/08
Other performance indicators	Form performance 1 or other form as agreed in writing by the Agency	07/02/08

Schedule 6 - 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 PPC Regulations.

Part A

Permit Number	TP3935XX
Name of operator	Teesside Power Limited
Location of Installation	Teesside Power Station, Greystone Road, Grangetown, Middlesbrough, TS6 8JF
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission 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 installation in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Teesside Power Limited

Schedule 7 - Interpretation

"*accident*" means an accident that may result in pollution.

"*annually*" means once every year.

"*application*" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 4 to the PPC Regulations.

"*authorised officer*" means any person authorised by the 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.

"*fugitive emission*" means an emission to air, water or land from the activities which is 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.

"*land protection guidance*", means Agency guidance "H7 - Guidance on the protection of land under the PPC Regime: application site report and site protection monitoring programme".

"*MCERTS*" means the Environment Agency's Monitoring Certification Scheme.

"*notify/notified without delay*" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"*PPC Regulations*" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"*quarter*" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"*site protection and monitoring programme*" means a document which meets the requirements for site protection and monitoring programmes described in the Land Protection Guidance.

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

"*year*" means calendar year ending 31 December.

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

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

- (a) 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 15% for gas turbines.
- (b) 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

END OF PERMIT

Variation Notice with introductory note

Pollution Prevention and Control Regulations 2000

Teesside Power Station

**GDF Suez Teesside Ltd
Greystone Road
Grangetown
Middlesbrough
TS6 8JF**

Variation Notice number

XP3337KZ

Permit number

TP3935XX

Introductory note

This introductory note does not form a part of the Variation Notice.

The following Notice is issued under Regulation 17 of The Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No. 1973 (as amended) (the “Regulations”) to vary the conditions of Permit number WP3133LB (the “Permit”) issued under the Regulations to operate Teesside Power Station (the “Installation”).

The Notice comprises: Schedule A containing conditions to be deleted; Schedule B conditions to be amended; and Schedule C conditions to be added. The Notice is subject to the express conditions set out in Schedules A to C.

The Permit, as amended by this Variation Notice, contains conditions which have to be complied with. It should be noted that aspects of the operation of the Installation which are not regulated by those conditions are subject to the condition implied by Regulation 12(10) of the Regulations, that the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the Installation. Techniques include both the technology used and the way in which the Installation is designed, built, maintained, operated and decommissioned.

This variation amends the name of the Operator and their registered address, a reduction in the number of hours the plant is permitted to use naphtha as a fuel, includes a trending table for energy and water use in the annual reporting forms and makes references to the newly installed MCERTS CEMS (continuous emissions monitors) on units 2, 4, 5, 7 and 10.

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Enron	AA8397(IPC)	24/07/92	Fully superseded
Enron	BR7429(IPC)	08/04/02	Fully superseded
px Limited	BY3924(IPC)	05/12/04	Fully superseded
px Limited	WP3133LB(PPC)	15/12/06	Fully superseded
px Limited	RP3834UY (PPC variation)	17/05/07	Fully superseded
px Limited	KP3130XR	23/11/07	Fully superseded

Talking to us

If you contact the Agency about this Permit please quote the Permit Number.

The Operator should use the Emergency Hotline telephone number (0800 80 70 60) or any other number notified to it to give a notification under condition 5.1.1 of the Permit.

Confidentiality

The Permit/Variation requires the Operator to provide information to the Agency. The Agency will place the information onto the public registers in accordance with the requirements of the PPC Regulations. If the Operator considers that any information provided is commercially confidential, it may apply to the Agency to have such information withheld from the register as provided in the PPC Regulations. To enable the Agency to determine whether the information is commercially confidential, the Operator should clearly identify the information in question and should specify clear and precise reasons.

Variations to the permit

This Permit may be varied in the future. The Status Log within the Introductory Note to any such variation will include summary details of the Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the permit

Before this Permit can be wholly or partially surrendered, an application to surrender the Permit has to be made. For the applicant to be successful, they would have to be able to demonstrate to the Agency, in accordance with Regulation 19 of the PPC Regulations, that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the permit or part of the permit

Before the Permit can be wholly or partially transferred to another person, a joint application to transfer the Permit has to be made by both the existing and proposed holders, in accordance with Regulation 18 of the PPC Regulations. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the Installation or will not ensure compliance with the conditions of the transferred Permit. If the Permit authorises the carrying out of a specified waste management activity, then there is a further requirement that the transferee is considered to be a "fit and proper person" to carry out that activity.

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

Status Log

Status Log of the permit		
Detail	Date	Response Date
Application WP3133LB	Duly made 31/03/06	
Additional Information Received	26/09/06	03/11/06
Permit determined	15/12/06	
1 st variation RP3834UY	17/05/07	
Variation determined	28/06/07	
2 nd variation KP3130XR	30/03/06	
Variation determined	23/11/07	
Transfer Application TP3935XX	04/01/08	
Transfer TP3935XX issued	10/03/08	
3 rd variation XP3337KZ	10/01/2010	
Variation determined	18/02/2010	

End of introductory Note

.Variation Notice

Pollution Prevention and Control
(England and Wales) Regulations 2000



**ENVIRONMENT
AGENCY**

Variation Notice

Permit number

WP3133LB (the "Permit")

Variation Notice number

XP3337KZ

The Environment Agency in exercise of its powers under Regulation 17 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I. 2000 No. 1973) (as amended) (the "Regulations"), hereby varies the Permit held by

GDF Suez Teesside Limited (the "Operator"),

Whose Registered Office is

1 City Walk

Leeds

West Yorkshire

LS11 9DX

Company registration number **02464040**

which relates to the operation of the Installation at

Teesside Power Station

Greystone Road

Grangetown

Middlesbrough

TS6 8JF (the "Installation")

to the extent set out in Schedules A to C of this Variation Notice.

Signed



Howard Stuttard

Team Leader PIR

Authorised to sign on behalf of the Environment Agency

Date 18 February 2010

SCHEDULE A - CONDITIONS TO BE DELETED

None

SCHEDULE B - CONDITIONS TO BE AMENDED

Permit condition 2.3.3 shall be amended to reduce the number of hours naphtha can be used as a stand by fuel each year.

2.3.3 Standby fuel naphtha may be used but for no more than 1,200 hours per machine per year

Three notes shall be added beneath the emissions Table S4.1 in Schedule 4

Table S4.1 Point source emissions to air – emission limits and monitoring requirements							
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method	
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NATURAL GAS or Propane	110 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO 10849	
A10 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NATURAL GAS or Propane	80 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO 10849	
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NATURAL GAS or Propane	30 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039	
A10 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NATURAL GAS or Propane	70 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039	
A1,A2,A3,A4,A5,A6, A7,A8 and A10 on site plan in Schedule 2	Oxides of Sulphur	Gas turbine firing on NATURAL GAS or Propane	10 mg/Nm ³	Daily Mean	Bi-annual	BS ISO 6069-4.1	
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbines firing on NAPHTHA	125 mg/Nm ³	Monthly average	Continuous	ISO 10849	
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Carbon Monoxide	Gas turbines firing on NAPHTHA	50 mg/Nm ³	Daily Mean of validated hourly averages	Continuous	ISO12039	
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Oxides of Sulphur	Gas turbine firing on NAPHTHA	No limit	Not applicable	Not applicable	Not applicable	
A1,A2,A3,A4,A5,A6, A7,A8 on site plan in Schedule 2	Particulates	Gas turbine firing on NAPHTHA	No limit	Not applicable	Not applicable	Not applicable	
A12 GT by-pass stack	None	Not applicable	No limit applies	Not applicable	Not applicable	Not applicable	
A13 Auxiliary boiler stack	None	Not applicable	No limit applies	Not applicable	Not applicable	Not applicable	

NOTE 1: Units 2, 4, 5, 7 (the naphtha capable units) and 10 have been installed with MCERTS CEMS. Only air monitoring data from units fitted with MCERTS CEMS shall be reported.

NOTE 2: Until all units are fitted with MCERTS CEMS, air monitoring results from units 2, 4, 5 and 7 shall be taken to be indicative of releases from the remaining units 1, 3, 6 and 8.

NOTE 3: The emission limit values shall only apply to those units fitted with MCERTS CEMS.

Schedule 5, Table S5.4 shall be amended to include the new reporting form date

Table S5.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Agency	11/01/2010
Sewer	Form sewer 1 or other form as agreed in writing by the Agency	11/01/2010
Water usage	Form water usage1 or other form as agreed in writing by the Agency	11/01/2010
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	11/01/2010

SCHEDULE C - CONDITIONS TO BE ADDED

Permit condition 3.1.6 shall be added to the Permit as follows:

3.1.6 MCERTS CEMS shall be installed on units 1, 3, 6 and 8 in accordance with a timetable agreed in writing with the Environment Agency.

End of document

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

GDF Suez Teesside Limited

Teesside Power Station
Greystone Road
Grangetown
Middlesbrough
TS6 8JF

Variation application number
EPR/TP3935XX/V003

Permit number
EPR/TP3935XX

Teesside Power Station

Permit number EPR/TP3935XX

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

GDF Suez Teesside Limited ceased to operate the power station at this site in February 2013 and has subsequently removed all plant from the site that was associated with the emission points in the permit.

The Operator has applied for a variation to the permit to remove all emission points from Tables S4.1, S4.3 and S4.6 as well as the associated reporting requirements from Tables S5.1, S5.2, S5.3 and S5.4 as the removal of all plant means that there will be no discharges from the site and no monitoring data to report.

The schedules specify the changes made to the original permit.

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

Status log of the permit

Description	Date	Comments
Application received EPR/WP3133LB/A001	Duly made 31/03/06	Application for Power Station.
Permit determined EPR/ WP3133LB	15/12/06	Original permit issued to Teesside Power Limited.
Variation application EPR/WP3133LB/V002	Duly made 17/05/07	
Variation determined EPR/TP3935XX	28/06/07	
Variation application EPR/WP3133LB/V003	Duly made 30/03/06	
Variation determined EPR/TP3935XX	23/11/07	
Transfer application EPR/TP3935XX	Duly made 04/01/08	Application to transfer the permit in full to GDF Suez Teesside Limited.
Transfer determined	10/03/08	
Variation application EPR/TP3935XX/V002	10/01/10	
Variation determined	18/02/10	
Variation application EPR/TP3935XX/V003	12/03/14	Variation to remove emission points.
Variation determined	07/04/14	

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number
EPR/TP3935XX

issued to:
GDF Suez Teesside Limited (“the operator”)

whose registered office is
Senator House
85 Queen Victoria Street
London
EC4V 4DP

company registration number 2464040

to operate a regulated facility at

Teesside Power Station
Greystone Road
Grangetown
Middlesbrough
TS6 8JF

to the extent set out in the schedules.

The notice shall take effect from 07/04/2014

Name

Date

Thomas Ruffell	07/04/2014
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Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator

Table S4.1 as referenced by condition 3.1.1 has been amended to remove all emission points and monitoring requirements

Table S4.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
-	-	-	-	-	-	-

Table S4.3 as referenced by condition 3.1.1 has been amended to remove all emission points and monitoring requirements

Table S4.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
-	-	-	-	-	-	-

Table S4.6 as referenced by condition 3.1.1 has been amended to remove all emission points and monitoring requirements

Table S4.6 Noise monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
-	-	-	-	-

Table S5.1 as referenced by condition 4.2.2 has been amended to remove the requirement to report monitoring data

Table S5.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
-	--	-	-

Table S5.2 as referenced by condition 4.2.1 has been amended to remove the reporting of the annual production/treatment requirements

Table S5.2: Annual production/treatment

Parameter	Units
-	-

Table S5.3 as referenced by condition 4.2.1 has been amended to remove the reporting of performance parameters

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
-	-	-

Table S5.4 as referenced by condition 4.2.1 has been amended to remove the requirement to use the reporting forms specified in that table

Table S5.4 Reporting forms

Media/parameter	Reporting format	Date of form
-	-	-

Schedule 3 – conditions to be added

None