



**ENVIRONMENT
AGENCY**

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Roosecote Power Station

Centrica RPS Limited
Rampside Road
Barrow-in-Furness
Cumbria
LA13 0PQ

Permit number
BM4406IU

Roosecote Power Station

Permit Number BM4406IU

Introductory note

This introductory note does not form a part of the permit

A non-technical description of the installation is given in the Application, but the main features of the installation are as follows.

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The following Permit is issued under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No.1973), as amended, ("the PPC Regulations") to operate an installation carrying out activities covered by the description in Section 1.1 A(1)(a) or (b) in Part 1 to Schedule 1 of the PPC Regulations, to the extent authorised by the Permit:

Section 1.1 A(1)(a) - "Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more".

The Operator, Centrica RPS Limited operates a Combined Cycle Gas Turbine (CCGT) power station within this Installation, which is located to the south east of Barrow-In-Furness, Cumbria, and supplies electricity to the national grid in the UK.

The power station consists of a single Gas Turbine (primary activity), Heat Recovery Steam Generator –HRSG (associated activity) and Steam Turbine (associated activity), and can be configured to produce 224MWe of power under section 1.1 Part A(1) of the Pollution Prevention and control (England and Wales) Regulations 2000.

Both the Gas Turbine and Steam Turbine have their own individual electricity generators. Energy, in the form of heat, is produced within exhaust gases from the Gas Turbine, and is utilised within the HRSG in order to convert water into steam. From here, steam energy is used to drive the Steam Turbine, after which, condensation occurs, and the water is re-used within the process.

Natural Gas is the primary fuel used on site, and is supplied via the National Transmission System (NTS) to the Above Ground Installation (AGI), which are all controlled by the National Grid. Distillate Fuel Oil is used as a backup fuel supply, and is stored within two on-site storage tanks. Replenishment of Distillate Fuel Oil takes place via an underground pipeline, connected to Barrow Docks.

Aside from the associated activities detailed above, other associated activities include; raw materials storage and handling; waste storage and handling; water treatment facilities; and water abstraction and return.

Principle environmental issues, concern both emissions released to air and water.

The main air emissions of concern are oxides of nitrogen (NOx), which arise primarily as Thermal NOx and are formed as a result of the dissociation of molecular oxygen and nitrogen, occurring within the high temperatures of combustion air. In order to suppress these emissions, the station employs steam injection, in which dilution reduces the peak temperatures reached in the combustion zone, thus reducing the formation of Thermal NOx.

In order to meet the cooling requirements on site, the station employs a water-cooled condenser, of which the cooling circuit utilises (abstracts) brackish water from Cavendish Dock as licensed under the Environment Agency.

There are no process emissions released to sewer from the site and only uncontaminated surface and process waters are discharged to Roosecote Sands.

Land use surrounding the Installation comprises a gas terminal, which is located immediately south of the Installation, and a sewage works and Mills Business Centre to the northwest. Cavendish Dock, from which the Installation abstracts and returns cooling waters, is located a distance of 500 metres to the west. The closest residential properties lie a distance of 650 metres to both the north and northeast aspect of the site.

The majority of the site forms part of the Morecambe Bay Special Protection Area (SPA), Special Area of Conservation (SAC), Site of Special Scientific Interest (SSSI) and wetland of international importance under the RAMSAR convention. South Walney and Piel Channel Flats, designated SSSI and SPA, is within 100 metres from the Installation, and the Duddon Estuary, designated SPA and Ramsar lies at approximately 3km from the Installation. Both Elliscales Quarry and Sea Wood are designated SSSI sites, and located within 10km of the Installation,

Centrica RPS Limited holds a certified Environmental Management System, which is externally audited to ISO 9001 and ISO 14001. The Installation is also permitted under the Greenhouse Gas Emissions Trading Scheme (Regulations 2003), as issued by the Environment Agency.

Status Log of the permit		
Detail	Date	Response Date
Application BM4406IU	Duly made 29/03/2006	
Additional Information Received		29/11/2006
Permit determined	19/12/2006	

Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation			
Holder	Reference Number	Date of Issue	Fully or Partially Superseded
Centrica RPS Ltd	AF8408	04/11/93	Fully superseded

Other existing Licences/Authorisations/Registrations relating to this site		
Holder	Reference Number	Date of issue
Centrica RPS Ltd	26 74 811 021	30/07/2003

End of Introductory Note

Permit

Pollution Prevention and Control
(England and Wales) Regulations 2000

Permit

Permit number

BM4406IU

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

Centrica RPS limited ("the operator"),

whose registered office is

**Centrica Plc
Millstream
Maidenhead Road
Windsor
Berkshire, SL4 5GD.**

company registration number **4713745**.

to operate an installation at

**Centrica RPS limited,
Roosecote Power Station,
Rampside Road,
Barrow-In-Furness,
Cumbria,
LA13 0PQ.**

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

Signed

Date

	19/12/2006
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Julian 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.

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 (Fuel oil) may be used but for no more than 1080 hours per year.

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 4 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.

3.2 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 have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.3.2 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;
 - (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 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 8 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 All LCP monitoring required by this permit shall be carried out in accordance with the provisions of Annex VIII of the Large Combustion Plant Directive.
- 3.7.2 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 continuous measurement systems, including a timetable for the implementation of those measures; and
 - (b) implement the approved measures.
- 3.7.3 Continuous measurement systems on emission points from the LCP shall be subject to quality control by means of parallel measurements with reference methods at least once every calendar year, in accordance with the requirements of BS EN 14181.
- 3.7.4 Unless otherwise agreed in writing by the Agency in accordance with condition 3.7.5 below, the operator shall carry out the methods, including the reference measurement methods, to use and calibrate continuous measurement systems in accordance with the appropriate CEN standards.
- 3.7.5 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.
- 3.7.6 Where required by a condition of this permit to check the measurement equipment the operator shall submit a report to the Agency in writing, within 28 days of the completion of the check.

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 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 No condition applies.
- 4.2.4 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.
- 4.2.5 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency
- 4.2.6 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 28 days 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 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.

- 4.3.7 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 A(1) (a) : Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more	Production of electricity in one combined cycle gas turbine (CCGT) with a maximum thermal input of 456MW operating on natural gas with distillate fuel oil as standby fuel.	From receipt of raw materials to despatch of products and waste
Directly Associated Activity		
Directly associated activity	Handling, Storage and Use of Distillate Fuel Oil.	From the receipt of raw materials to the use as a fuel within the Installation.
Directly associated activity	Surface water discharge to Salthouse Pool.	Handling and storage of site surface water run-off and discharged effluent from the treatment of potable water to the oil interceptor pit, and subsequent discharge to Salthouse Pool.
Directly associated activity	Operation of one steam turbine.	From input of steam to dispatch of products and waste.
Directly associated activity	Heat recovery steam generator (HRSG) operation.	From receipt of raw materials to dispatch of products and waste.
Directly associated activity	Water treatment, including chemical control, ion exchange and re-treatment of blow down water.	From the receipt of potable water for treatment within the Water Treatment Plant, to the use within site and / or the release to surface water following ion exchange.
Directly associated activity	Abstraction of brackish water from Cavendish Dock for cooling water purposes.	From the abstraction and screening of water within the pump-house, to the use within the Main Cooling Water System (MCWS) on-site, and subsequent return to Cavendish Dock.
Directly associated activity	Miscellaneous utility systems (including: non-process auxiliary boilers; fire pumps; site, auxiliary and standby transformers; and lubrication systems).	From receipt of raw materials to dispatch for use.

Table S1.2 Operating techniques

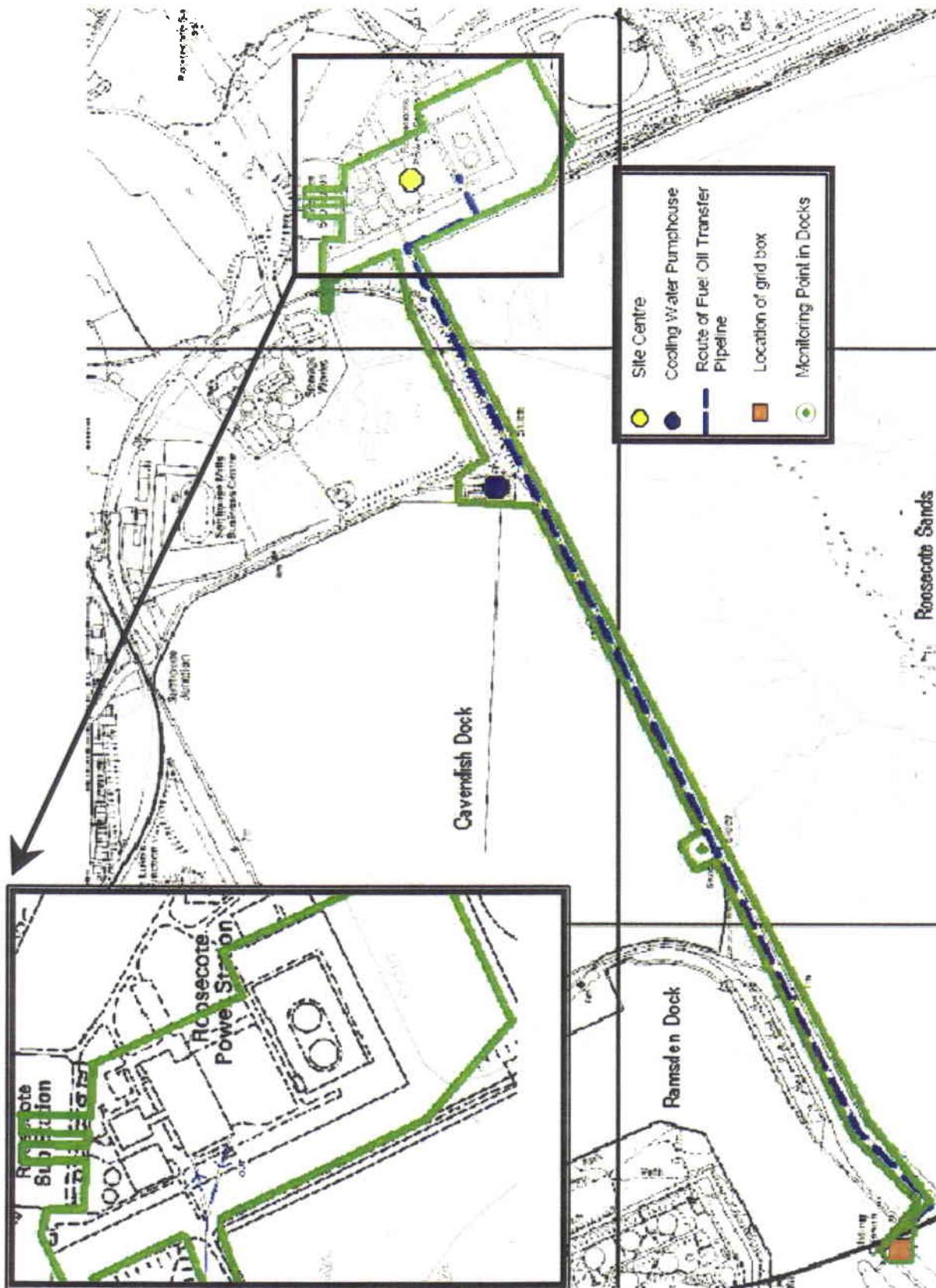
Description	Parts	Date Received
Application	The response to section 2.1 and 2.2 in the Application.	29/03/2006

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IP1	<p>A written plan shall be submitted to the Environment Agency for approval detailing measures required in order to prevent, and where that is not possible, minimise visible emissions during start-up and shutdown periods, in accordance with section 2.2 of TGN V2.03 "IPPC Sector Guidance Note for Combustion Activities", 27 July 2005.</p> <p>This plan shall address those issues documented within sections 2.1.5.2/3 and 4.3.6 of the application, and shall include a timetable for the implementation of any such measures in order to ensure compliance with this condition.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Environment Agency.</p>	01/07/2007
IP2	<p>The Operator shall undertake an assessment into the containment measures on site. This shall include, but not be limited to bunding of distillate fuel oil storage tanks.</p> <p>The assessment shall take into account the requirements of section 2.2.6 and 2.2.9 of TGN V2.03 "IPPC Sector Guidance Note for Combustion Activities", 27 July 2005.</p> <p>A written report summarising the findings, together with a timetable for any improvements identified shall be submitted to the Environment Agency.</p>	01/09/2007
IP3	<p>The Operator shall assess current monitoring equipment, personnel and organisations employed for air emissions monitoring (as specified within table S4.1 of this Permit) for compliance with MCERTS (condition 3.6.3), as specified within section 2.10.1.7 of the application.</p> <p>A written summary shall be provided to Agency documenting the findings, together with a timetable for any improvements identified. The notification requirements of condition 2.5.2 shall be deemed to have been complied with upon submission of this plan.</p>	31/12/2007
IP4	<p>The Operator shall carry out a further noise survey in accordance with the assessment procedure given in BS4142: 1997 Method for rating industrial noise affecting mixed residential and industrial areas.</p> <p>A written summary shall be provided to the Agency documenting the findings of the survey, together with a comparison to the assessment provided within appendix E of the application.</p> <p>The summary shall include a timetable for the implementation of any proposed improvements, as appropriate, and shall seek written approval from the Agency to the timescales indicated within the summary.</p>	31/12/2007
IP5	<p>The Operator shall carry out monitoring for emissions to air of Carbon Monoxide from emission point A1 for the validation of current in-house methods, in accordance with table S4.1.</p> <p><i>Prior to undertaking such monitoring, the Operator shall submit a plan detailing proposed monitoring methods to the Agency for agreement. The plan shall have regard to Agency Technical Guidance Note M2 for monitoring.</i></p> <p>The results of the monitoring shall be reported to Agency together with a summary report for the validation of current monitoring methods, in accordance with table S4.1. This report shall also identify any variations, which might exist, between monitoring results.</p> <p>This assessment shall be used to assess the requirement for either the reduction of, or setting of any additional monitoring parameters.</p>	01/03/2008

IP6	The Operator shall assess options available for reducing emissions of NOx in order to meet benchmark levels, as detailed within section 3.2 of TGN V2.03 "IPPC Sector Guidance Note for Combustion Activities", 27 July 2005.	01/07/2008
	A written report summarising the assessment shall be submitted to the Agency. This shall take into account air emissions data; as provided within the application and; monitoring, as required by schedule 4 of the permit, and shall re-assess information on NOx control technologies, as provided within section 5.4.1 of the application.	
	The report shall include a timetable for the implementation of any proposed improvements, as appropriate, and shall seek written approval from the Agency to the timescales indicated within the report.	
IP7	The Operator shall carry out a waste minimisation audit, in accordance with section 2.4.2 of TGN V2.03 "IPPC Sector Guidance Note for Combustion Activities", 27 July 2005	01/01/2009
	A summary of the audit shall be submitted to the Agency together with a timetable to implement any necessary improvements identified.	
IP8	The Operator shall carry out a water efficiency audit, in accordance with section 2.7 of TGN V2.03 "IPPC Sector Guidance Note for Combustion Activities", 27 July 2005	01/01/2009
	A summary of the audit shall be submitted to the Agency together with a timetable to implement any necessary improvements identified.	
IP9	The Operator shall carry out an Energy efficiency audit, in accordance with section of TGN V2.03 "IPPC Sector Guidance Note for Combustion Activities", 27 July 2005	01/01/2009
	A summary of the audit shall be submitted to the Agency together with a timetable to implement any necessary improvements identified.	
IP10	The Operator shall produce a written site closure plan, in accordance with section 2.11 of V2.03 "IPPC Sector Guidance Note for Combustion Activities", 27 July 2005. A copy of the plan shall be submitted to the Environment Agency.	01/05/2009

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
Gas oil until 31/12/2007	Less than 0.2% w/w sulphur content
Gas oil from 01/01/2008	Less than 0.1% w/w sulphur content

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%
- 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 given in S4.1 do not apply during start-up or shutdown periods.

Table S4.1 Point source emissions to air from Gas Turbines

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 (Main Stack)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbine fired on natural gas.	125mg/m ³ (Note 1)	Daily average composed from validated hourly averages	Continuous	BS EN 14181
A1 (Main Stack)	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Gas turbine fired on fuel oil.	185mg/m ³ (Note 1)	Daily average composed from validated hourly averages	Continuous	BS EN 14181
A1 (Main Stack)	Carbon Monoxide	Gas turbine fired on natural gas and on fuel oil.	50mg/m ³	Spot sample	3 months (Note 2)	In-house method.
A1 (Main Stack)	Particulates	Gas turbine fired on fuel oil.	No limit set	(Note 3)	6 Months	In-house method.
A1 (Main Stack)	Oxides of Sulphur (expressed as SO ₂)	Gas turbine fired on fuel oil.	No limit set	(Note 3)	Annually	(Note 3)
A2 (Fuel Pump House - Auxiliary Boiler)	No parameters set	Fuel oil pre-heating boiler.	No limit set	-	-	Permanent sampling access not required
A3 (Plant Heating Boiler - Administration Building)	No parameters set	Non-process auxiliary boiler.	No limit set	-	-	Permanent sampling access not required
A4 (Water Treatment Plant)	No parameters set	Vents from sulphuric acid and caustic soda storage areas.	No limit set	-	-	Permanent sampling access not required
A5 (Fuel Oil Storage)	No parameters set	Vents from distillate fuel oil storage tanks.	No limit set	-	-	Permanent sampling access not required
A6 (Cooling Water Pump House)	No parameters set	Vents from sodium hypochlorite and sodium bromide storage areas.	No limit set	-	-	Permanent sampling access not required

a. these limits do not apply during start up or shut down.

(Note 1)

Limit maybe subject to change following completion of improvement condition IP6.

(Note 2)

Monitoring frequency may be reduced by prior agreement in writing by the Agency.

(Note 3)

Calculation derived from spot sample analysis of fuel oil. Report mass release over reporting period.

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 (Note 1)	Monitoring standard or method
W1 (Oil interceptor pit – prior to discharge to Salthouse Pool)	Total suspended solids	Water treatment plant, boiler treatment effluent and surface water drainage.	50 mg/l	Spot sample	Monthly	To be agreed with the Agency in writing
W1 (Oil interceptor pit – prior to discharge to Salthouse Pool)	pH		5 - 9	Spot sample	Weekly	In-house method.
W1 (Oil interceptor pit – prior to discharge to Salthouse Pool)	Temperature		30°C		Weekly	In-house method.
W1 (Oil interceptor pit – prior to discharge to Salthouse Pool)	Mercury and its compounds, expressed as mercury (Total Hg)		5 µg/l	Composite sample	Annually	In-house method.
W1 (Oil interceptor pit – prior to discharge to Salthouse Pool)	Cadmium and its compounds, expressed as cadmium (Total Cd)		10 µg/l	Composite sample	Annually	In-house method.
W2 Cavendish Dock (cooling water supply)	pH	Cooling waters	5 - 9 (Note 2)	Spot sample	Weekly	In-house method.
W2 Cavendish Dock (cooling water supply)	Temperature Difference (cooling water inlet / outlet)		If T ¹ < 16°C then T ² -T ¹ ≤ 15°C If 16°C ≤ T ¹ ≤ 21°C then T ² ≤ 31°C If T ¹ > 21°C, then T ² -T ¹ ≤ 10°C (Note 3) (Note 4)		Continuous	
W2 Cavendish Dock (cooling water supply)	Total Residual Oxidant		0.5 mg/l	Spot sample (Note 5)	Weekly	In-house method.
W2 Cavendish Dock (cooling water supply)	Flow		346,000 m ³ /day		Monthly	(Note 5)

(Note 1) Monitoring frequency may be reduced by prior agreement in writing by the Agency.

(Note 2) When the pH of the inlet water exceeds 8.5, this limit is suspended and the limit becomes 0.5 units above that of the inlet water.

(Note 3) The temperature difference shall not exceed those limits specified above for any period over 8 hours AND shall not exceed those limits for more than 5% of the readings in any one calendar year.

(Note 4) Where T¹ = inlet temperature, T² = Outlet temperature, ≤ = less than or equal to, and ≥ = greater than or equal to.

(Note 5) Current method is based on calculations derived from pump curves.

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
N/A	-	-	-	-	-	-

Table S4.4 Annual limits(Excluding start up and shut down except where otherwise stated).

Substance	Medium	Limit (including unit)	Release Points
N/A	-	-	-

Table S4.5 Surface water monitoring requirements

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

Table S4.6 Noise monitoring requirements

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

Table S4.7 Ambient air monitoring requirements

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

Table S4.8 Process monitoring requirements

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
A1 (Main Stack)	Visible Plume	Continuous.during operation	Visual Inspection	Emissions to air from this emission point shall be free from visible smoke, under normal operating conditions, excluding start-up and shutdown periods.
W1 (Oil interceptor pit – prior to discharge to Salthouse Pool)	Oil and Grease	Daily	Visual Inspection	Spot-check on a daily basis. Results to be recorded on log sheets and reported quarterly to the Environment Agency.
W2 (Cooling water return - discharge to Cavendish Dock)	Oil and Grease	Daily	Visual Inspection	Spot-check on a daily basis. Results to be recorded on log sheets and reported quarterly to the Environment Agency.
Cavendish Dock (sample point at NGR SD 217 682)	Cavendish dock temperature	Continuous	Platinum resistance thermometer.	The temperature of the dock measured at this point shall not exceed 25°C for more than 5% of the readings in any one calendar year. Records of maximum temperatures recorded per month shall be reported quarterly to the Environment Agency.

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
Oxides of nitrogen Parameters as required by condition 3.6.1.	A1	Every 3 months	01/01/2007
Carbon monoxide Parameters as required by condition 3.6.1	A1	Every 3 months (Note 1)	01/01/2007
Particulates Parameters as required by condition 3.6.1	A1	Every 6 months	01/01/2007
Total annual oxides of nitrogen	A1	Annually	01/01/2007
Total annual oxides of sulphur (expressed as SO ₂)	A1	Annually	01/01/2007
Total annual dust emission (as total suspended particles)	A1	Annually	01/01/2007
Invalidation of continuous monitoring	A1	Annually	01/01/2007
Total suspended solids	W1	Every 3 months	01/01/2007
pH	W1 & W2	Every 3 months	01/01/2007
Temperature	W1	Every 3 months	01/01/2007
Mercury and its compounds, expressed as mercury	W1	Annually	01/01/2007
Cadmium and its compounds, expressed as cadmium	W1	Annually	01/01/2007
Temperature difference	W2	Every 3 months	01/01/2007
Total residual oxidant	W2	Every 3 months	01/01/2007
Flow	W2	Every 3 months	01/01/2007
Oil and grease	W1 & W2	Every 3 months	01/01/2007
Cavendish dock temperature Parameters as required by condition 3.6.1	Sample point at NGR SD 217 682	Every 3 months	01/01/2007

Note 1 The reporting frequency may be subject to change following completion of IP5, Table S1.3.

Table S5.2: Annual production/treatment

Parameter	Units
Power generated	GWHrs

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Water usage	Annually	M ³
Natural gas usage	Annually	GJ
Distillate fuel oil usage	Annually	GJ
Total energy input	Annually	GJ
Total energy output	Annually	GWh
Total energy input : output ratio	Annually	

Table S5.4 Reporting forms				
Media/ parameter	Reporting format	Starting Point	Agency recipient	Date of form
Air	Form Air – 1 continuous monitoring or other form as agreed in writing by the Agency	01/01/2007	Area Office	04/12/2006
Air	Form Air – 2 continuous measurement systems invalidation log or other form as agreed in writing by the Agency	01/01/2007	Area Office	04/12/2006
Air	Form Air – 3 or other form as agreed in writing by the Agency (Note 1)	01/01/2007	Area Office	04/12/2006
Air	Form Air – 4 or other form as agreed in writing by the Agency	01/01/2007	Area Office	04/12/2006
Air	Form Air – 5 Annual releases : operational summary or other form as agreed in writing by the Agency	01/01/2007	Area Office	04/12/2006
Air	Form Air – 6 Energy Usage summary or other form as agreed in writing by the Agency	01/01/2007	Area Office	04/12/2006
Water	Form Water – 1 or other form as agreed in writing by the Agency	01/01/2007	Area Office	06/12/2006
Water	Form Water – 2 or other form as agreed in writing by the Agency	01/01/2007	Area Office	06/12/2006
Water	Form Water – 3 or other form as agreed in writing by the Agency	01/01/2007	Area Office	06/12/2006
Water (process monitoring)	Form: Process monitoring 1 or other form as agreed in writing by the Agency	01/01/2007	Area Office	06/12/2006
Performance indicators	Form performance 1 or other form as agreed in writing by the Agency	01/01/2007	Area Office	06/12/2006

Note 1 Subject to change following completion of IP5, Table S1.3.

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	BM4406IU
Name of operator	Centrica RPS Limited
Location of Installation	Rampside Road, Barrow-In-Furness, Cumbria.
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 Centrica RPS 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.

"*calendar monthly mean*" means the value across a calendar month of all validated hourly means.

"*Combustion Technical Guidance Note*" means IPPC Sector Guidance Note Combustion Activities, version 2.03 dated 27th July 2005 published by Environment Agency.

"*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 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".

"*large combustion plant*" or "*LCP*" is a boiler or group of boilers discharging waste gases through a common windshield or stack, where the total thermal input is 50 MW_{th} or more, based on gross calorific value.

"*Large Combustion Plant Directive*" means Directive 2001/80/EC of the European Parliament and of the Council of 23 October 2001 on the limitation of emissions of certain pollutants into the air from large combustion plants.

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

"*mcr*" means maximum continuous rating.

"*Natural gas*" means naturally occurring methane with no more than 20% by volume of inert or other constituents.

"*National Emission Reduction Plan*" (NERP) is a plan issued by Defra in accordance with Article 4.6 of the Large Combustion Plants Directive.

"*ncv*" means net calorific value.

"*notify without delay*" / "*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.

"*operational hours*" are whole hours commencing from the first unit ending start up and ending when the last unit commences shut down.

"*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.

"reference conditions" means:

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.

"SI" means site inspector

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

"start-up" means a period not exceeding one hour from flame on.

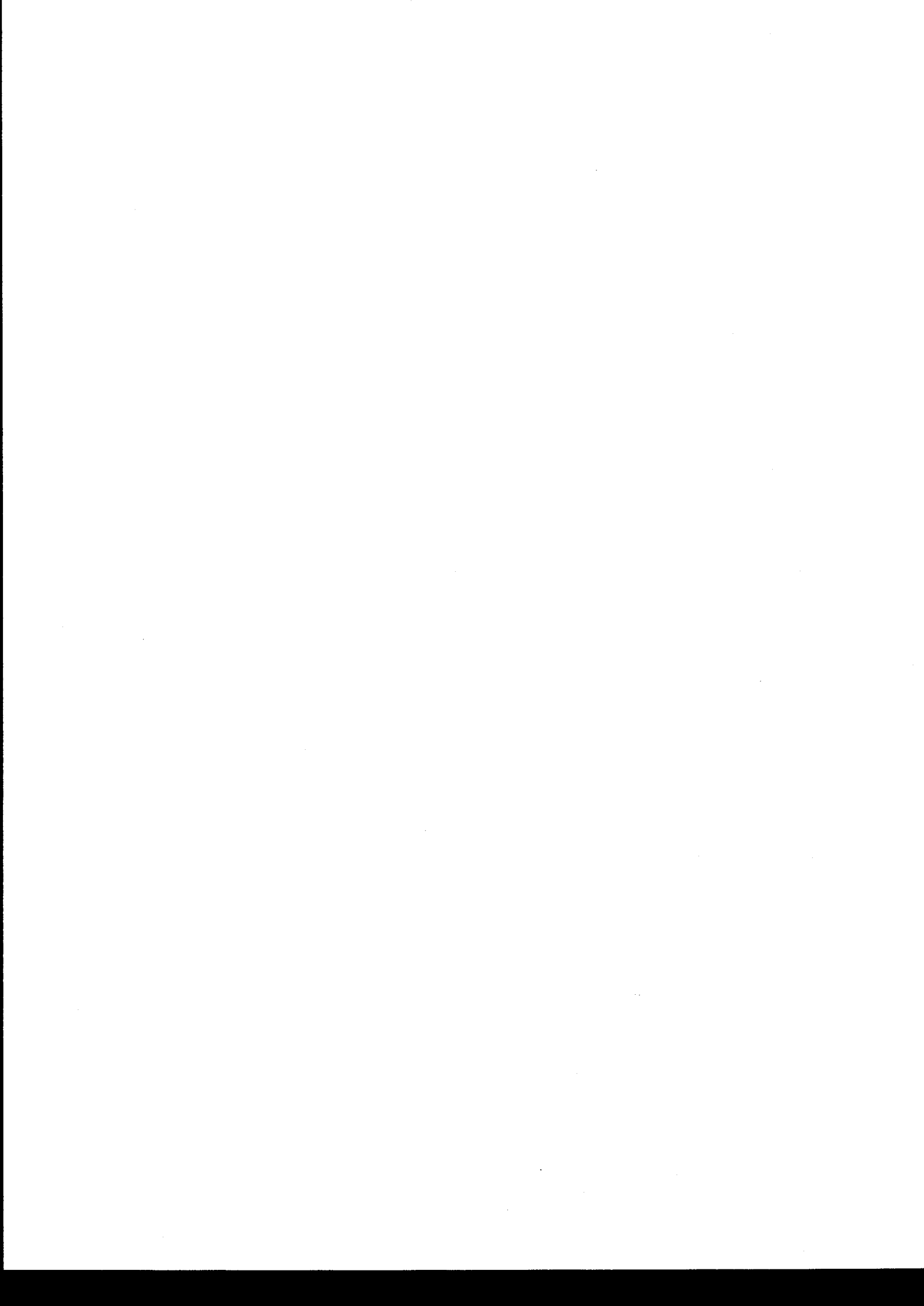
"shutdown" means a period not exceeding 30 minutes prior to flame off.

"year" means calendar year ending 31 December.

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.
- (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.
- (c) in relation to gas turbines or compression ignition engines; an oxygen content of 15%, dry, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, for liquid and gaseous fuels.
- (d) in relation to the manufacture of gypsum based products; an oxygen content of 18%, dry, the concentration at a temperature of 273K, and at a pressure of 101.3 kPa, for liquid and gaseous fuels.
- (e) In relation to spark ignition engines; an oxygen content of 5%, dry, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, for liquid and gaseous fuels.

END OF PERMIT



Variation notice with introductory note

Environmental Permitting (England & Wales) Regulations 2007

Roosecote Power Station

Centrica RPS Limited
Rampside Road
Barrow-in-Furness
Cumbria.
LA13 0PQ

Variation notice number
EPR/BM4406IU/V002

Permit number
EPR/BM4406IU

Roosecote Power Station

Permit Number EPR/BM4406IU

Introductory note

This introductory note does not form a part of the permit

The following notice, which is issued pursuant to regulation 20 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations S.I.2007 No. 3538 (the Regulations), gives notice of the variation of an environmental permit to operate a regulated facility.

The permit variation is that the installation boundary is to be amended to include the above ground installation (AGI). This is adjacent to the existing installation boundary and was previously considered to be part of the gas supply system operated by National Grid but responsibility for the AGI has now passed to Centrica.

Schedule 1 of this notice lists any deleted conditions, Schedule 2 lists any amended conditions and Schedule 3 lists any conditions that have been added.

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

Status Log of the permit		
Detail	Date	Response Date
Application BM4406IU	Duly made 29/03/2006	
Additional Information Received		29/11/2006
Permit determined	19/12/2006	
Variation EA/EPR/BM4406IU/V002	05/10/2009	
Additional Information Received	07/10/2009	16/10/2009
Variation EPR/BM4406IU/V002 determined	20/10/2009	

End of Introductory Note

Notice of variation

Environmental Permitting
(England and Wales) Regulations 2007



Permit number

EPR/BM4406IU

The Environment Agency in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2007 (SI 2000 No 3538) varies the permit as set out below.

Centrica RPS Ltd ("the operator"),

whose registered office,

Centrica RPS Ltd

Millstream

Maidenhead Road

Windsor

Berkshire, SL4 5GD.

company registration number 4713745

holds a permit to operate a regulated facility at

Centrica RPS Limited

Rampside Road

Barrow-in-Furness

Cumbria

LA13 0PQ.

and that permit is varied to the extent set out in Schedules 1 to 3 of this notice.

The notice shall take effect from 20 October 2009

Name	Date
	20 October 2009

Authorised on behalf of the Agency

Schedule 1 – conditions to be deleted

1. None.

Schedule 2 – conditions to be amended

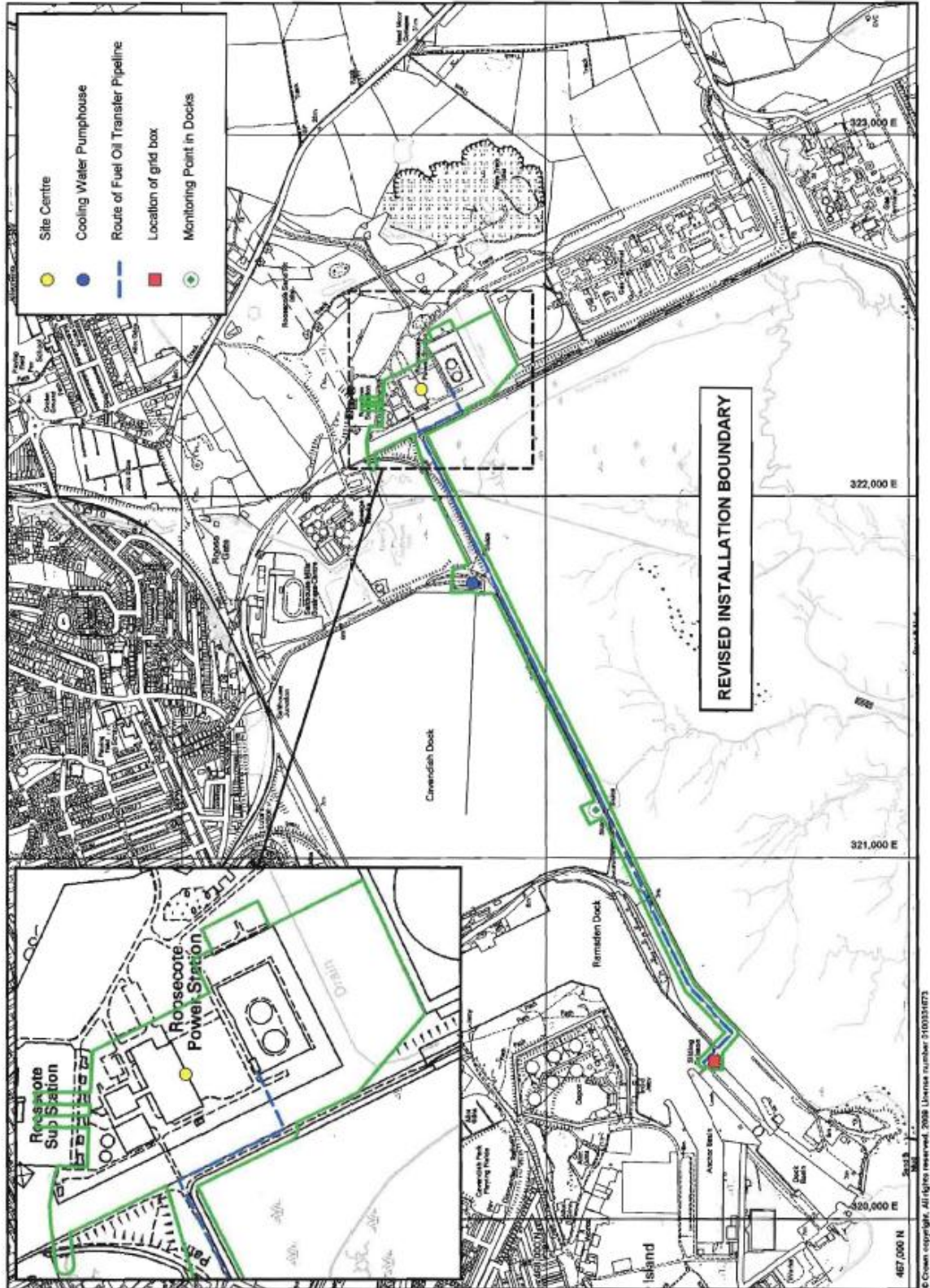
2. The following conditions are amended as follows;

Schedule 1 Operations.

Table S1.1 Licensed Activities		
Activity listed in schedule 1 of the PPC regulations	Description of specified activity	Limits of specified activity
Section 1.1A(1) a: burning any fuel in an appliance with a rated thermal input of 50 megawatts or more.	Production of electricity in one combined cycle gas turbine (CCGT) with a maximum thermal input of 456MW operating on natural gas with distillate fuel oil as standby fuel.	From receipt of raw materials of despatch to products and waste.
Directly Associated Activity		
Directly Associated Activity	Handling, Storage and Use of Distillate Fuel Oil.	From the receipt of raw materials to the use as a fuel within the installation
Directly Associated Activity	Surface water discharge to Salthouse Pool	Handling and storage of site surface water run-off and discharged effluent from the treatment of potable water to the oil interceptor pit and subsequent discharge to Salthouse Pool.
Directly Associated Activity	Operation of one steam turbine.	From input of steam to dispatch of product and waste.
Directly Associated Activity	Heat Recovery Steam Generator (HRSG) operation.	From receipt of raw materials to dispatch of products and waste
Directly Associated Activity	Water treatment including chemical control, ion exchange and re-treatment of blow down water.	From the receipt of potable water for treatment within the Water Treatment Plant to the use within the site and/or the release to surface water following ion exchange.
Directly Associated Activity	Abstract of brackish water from Cavendish Dock for cooling water purposes.	From the abstraction and screening of water within the pump house to the use within the main cooling system (MCWS) on-site, and subsequent return to Cavendish Dock.
Directly Associated Activity	Miscellaneous utility systems (including: non-process auxiliary boilers; fire pumps; site, auxiliary and standby transformers; and lubrication	From receipt of raw materials to dispatch for use.

	systems.	
Directly Associated Activity	Operation of the gas supply pipeline and 4 gas-fired condensing boilers in the AGI.	From receipt of raw materials to dispatch of products and waste

Schedule 2. Site Plan



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Schedule 3 – conditions to be added

3. None

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Centrica RPS Limited

Roosecote Power Station
Rampside Road
Barrow-in-Furness
Cumbria.
LA13 0PQ

Variation notice number
EPR/BM4406IU/V003

Permit number
EPR/BM4406IU

Roosecote Power Station

Permit number EPR/BM4406IU

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.

This is an Environment Agency initiated variation to add an improvement condition to ensure that the regulated facility will comply with the Eels (England and Wales) Regulations 2009 (SI 2009/3344) and the Environment Agency's "Safe Passage of Eel" Regulatory Position Statement version 1 dated July 2012.

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 BM4406IU	Duly made 29/03/2006	
Additional information received		29/11/2006
Permit determined	19/12/2006	
Variation Application EPR/BM4406IU/V002	Duly made 05/10/2009	
Additional information received	07/10/2009	16/10/2009
Variation EPR/BM4406IU/V002 determined	20/10/2009	
Variation determined EPR/BM4406IU/V003	11/03/2013	Environment Agency Initiated Variation, to incorporate Eel Regulations improvement condition.

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/BM4406IU

issued to:
Centrica RPS Limited (“the operator”)

whose registered office is at

Centrica RPS Limited
Millstream
Maidenhead Road
Windsor
Berkshire
SL4 5GD

company registration number **4713745**

to operate a regulated facility at

Centrica RPS Limited
Rampside Road
Barrow-in-Furness
Cumbria
LA13 0PQ

to the extent set out in the schedules.

The notice shall take effect from 11/03/2013

Name	Date
A.J. Nixon	11 March 2013

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None

Schedule 2 – conditions to be amended

None

Schedule 3 – conditions to be added

The following condition is added following an Environment Agency initiated variation

Improvement condition IP11 is added to Table S1.3

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IP11	<p>The Operator shall undertake a review of the existing screening measures at the intakes and outfalls which provide and discharge water to and from the Installation. The review shall be undertaken with reference to the Eels (England and Wales) Regulations 2009 (SI 2009/3344) and the Environment Agency "Safe Passage of Eel" Regulatory Position Statement version 1 dated July 2012.</p> <p>The Operator shall submit details of the arrangement suitable to meet the requirements for the safe passage of eels [of the Eels (England and Wales) Regulations 2009 (SI 2009/3344)] by either:-</p> <ul style="list-style-type: none">• Providing a written proposal for the installation of an eel screen.• Providing a written proposal to the modification of existing screening arrangements.• Providing a written response with an explanation and description of how the existing screening arrangements can be regarded to meet the requirements for the safe passage of eels [of SI 2009/3344] either without change or with mitigation measures.• Providing a written response setting out a case for an exemption <p>In all cases, the proposal shall be submitted in writing for the approval of the Environment Agency. Where appropriate, each proposal shall contain an assessment of alternative options considered including impacts on other fish species and an explanation of why the proposed option has been chosen.</p> <p>Where installation of eel screen; modification of existing arrangements; or mitigation measures are proposed, the submission shall contain relevant timescales for installation in accordance with the Safe Passage of Eel Regulatory Position Statement version 1 dated July 2012.</p> <p>The proposals shall be implemented in accordance with the Environment Agency's written approval.</p>	30 September 2013