

Permit with introductory note

Pollution Prevention and Control Act 2001

OESCO Power Station

Ormrod Electricity Supply Company
Europa Business Centre
Gibraltar

Permit number

PPC002

OESCO Power Station Permit Number PPC002

Introductory note

This introductory note does not form a part of the permit

The main features of the installation are as follows.

OESCO Ltd (Ormrod Electricity Supply Company) Ltd was set up in 1989. The OESCO Power Station is equipped with seven diesel generating sets providing electrical power to Gibraltar through the local grid run by the Gibraltar Electricity Authority (GIBEELEC). The engines were all manufactured by Mirreles Blackstone, Stockport in the late 1960's and early 1970's and remanufactured by Omrod Diesels in the 1980s and 1990s. The seven engines are from the Mirreles K Major Range. Engine sets 2 to 6 are Mark I engines operating at 500 rpm, and sets 1 and 7 are Mark II engines operating at 600 rpm. The engines are of the direct injection four-stroke type, turbo-charged and inter-cooled. Engine sets 1, 2 and 3 are in-line engines rated at 15.2bar bmep (break mean effective pressure), Sets 4 to 6 are Vee-engines rated at 15.2bar bmep and Set 7 is a Vee-engine rated at 17.2bar bmep. The engines operate on light fuel oil that is stored in three bulk fuel tanks sited on the northern perimeter of the installation within a bunded area. The OESCO power station is located in the Europa Business Centre, Gibraltar at 288286, 4000975. The installation area covers the entire facility and covers an area of approximately 6,175 m². The site location map is presented in Schedule 2 of the permit. OESCO occupies the site under a 23 year lease from the Gibraltar Government, which currently has 5 years remaining. The facility is located within part of the former Royal Naval Dockyard on the western coast of the peninsula. It is surrounded by:

- *North* – MOD power station.
- *East* – the remainder of the Europa Business Centre comprising small business units including an apprentice training school directly adjacent to the north-eastern corner of the site, offices, and the parking area courtyard for Europa Business Centre. Other business units are generally light industrial including vehicle repair and offices.
- *South* – stores for local businesses, part of the New Harbours Industrial Estate.
- *West* – berthing facilities for privately owned commercial dockyard with Gibraltar Harbour beyond.

The OESCO Power Plant is located in the Ex-Royal Naval Dockyard, Gibraltar, approximately 1 km south of the town centre. The immediate surrounding area on the land side is used for light and heavy industrial purposes; although slightly further to the east and south the industrial area is bordered by residential premises, the closest of which is approximately 100m away from the OESCO power plant. As the land rises steeply away from the site, many of the surrounding residential buildings look over and have a line of sight to the power plant. Noise from OESCO's operations dominates noise conditions in the environment immediately surrounding the power plant. The installation generates electricity for Gibraltar using seven diesel-powered engines; it has the capacity to generate 27 MW although it normally operates at between 4.3 and 12.5 MW. Fuel is supplied by road tanker into three above ground bulk storage vessels, each with a capacity of 55,000 L. The fuel is then pumped to day service tanks, from which the engines are fed. Electricity is fed to the grid via high voltage cables which run in underground ducts. The engines are configured in two engine halls. The first hall contains engines 1, 2 and 3, the second bank contains engines 4, 5, 6 and 7; engine 7 was constructed at a later date. The diesel day service, lubricating oil and jacket water tanks are located outdoors on overhead gantries. The valve cage tanks are located inside the station building. In addition, four distilled water storage tanks are located outside on the overhead gantry, each with a capacity of 2,200 litres. One supplies engines 1, 2 and 3, two supply engines 4, 5 and 6, and one supplies engine 7. Banks of radiators are located on raised platforms outdoors. The jacket water is used to cool the engine blocks, and the valve cage water is used to cool the exhaust valves of the engines.

Associated equipment includes:

- Switchgear;
- transformers;
- radiators;
- air compressors;
- 'black start' emergency generator; and
- pumps.

There are two sensitive land uses reported within a 2 km radius of the installation boundary, both of them fall under the Nature Protection Ordinance of April 1991 which provides for the protection of wild birds, animals and plants and for the designation and preservation of protected areas. The Upper Rock is a designated nature reserve located 415 m to the east of the site. A marine reserve was also declared in January 1996, covering all of Gibraltar's territorial waters. The nature reserve and the southern waters are also both candidate Special Areas of Conservation (SACs).

The site is underlain by Made Ground which included previous building foundations, and sands and gravels of unspecified thickness, which ERM considers are likely to be a mixture of fill and natural alluvium. These deposits overlie limestone bedrock. The limestone bedrock is the main morphological unit in the Gibraltar peninsula and underlies the entire area. Gibraltar falls within the North Front Aquifer. The aquifer is not confined and intergranular flow occurs. The site is located approximately 30 m from the harbour on the western side of Gibraltar.

Status Log of the permit		
Detail	Date	Response Date
Application PPC002	25 th May 2007	
Permit determined	DD/MM/YY	

End of Introductory Note

Permit

Pollution Prevention and Control
Act 2001

Permit

Permit number
PPC002

The Environmental Agency (the Agency) in exercise of its powers under the Pollution Prevention and Control Act 2001, hereby authorises
Ormrod Electricity Supply Company (“the operator”),
whose registered office (or principal office) is

33 Turnbolls Lane
Gibraltar

company registration number 30473
to operate an installation at

Oesco Power Station
Europa Business Centre
Gibraltar

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

Signed	Date

Francis E. Martin
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 red 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 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.

2.4 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

- 2.6.1 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 Where a substance is specified in schedule 4 table S4.2 or S4.3 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.

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;
- 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.

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 reports 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 A summary report of the waste types and quantities accepted and removed from the site shall be made for each quarter. It shall be submitted to the Agency within one month of the end of the quarter and shall be in the format required by the Agency.
- 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.
- 4.3.9 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 Government not to re-certify the agreement;
 - (b) a decision by either the operator or the Government to terminate the agreement; and
 - (c) any subsequent decision by the Government 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. Combustion installations with a rated thermal input exceeding 50 MW.	Operation of seven compression ignition engines with an approximate combined thermal input of 73.71MW for the purpose of electricity generation from the combustion of fuel oil.	From receipt and storage of oils used for combustion. Combustion of fuel oil for the generation of electricity, to venting of combustion exhaust gases to air.
Directly Associated Activity		
Directly associated activity	Oil storage	From receipt of raw materials, storage of oils, to dispatch for use in combustion process. Disposal of collected waste oils.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	The response to section B2.1, and B2.2 in the Application. Section B9 of the application - Proposed improvement program.Note1	25/05/2007

Note 1:Where there is conflict between the timescales proposed by the operator in the incorporated proposed improvement program and those set by the Agency via improvement conditions. It will be the timescales set by the Agency that will take precedence.

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	<p>The operator shall ensure that a review of the design, method of construction and integrity of all bunds surrounding above ground tanks be carried out by a qualified structural engineer. This shall compare existing bunds against the standards set out in CIRIA Report 163 on the Construction of Bunds for Oil Storage Tanks with a tank capacity of < 25 m³ (ISBN: 0 86017 468 9), and CIRIA Report 164 on Design of Containment Systems for the prevention of water pollution from industrial incidents, for tanks with a capacity of > 25 m³ (ISBN: 0 86017 476X).</p> <p>The review shall include:</p> <ul style="list-style-type: none"> the physical condition of the bunds, their suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure, any work required to ensure compliance with the standards set out in CIRIA Reports 163 and 164 for reinforced concrete or masonry bunds, and suggested preventative maintenance & inspection regime. <p>A written report of the review shall be submitted to the Environmental Agency detailing the reviews findings and recommendations.</p> <p>Remedial action shall be taken to ensure all bunds meet the standards set out in the above documents and implement the maintenance and inspection regime.</p>	<p>Within 3 months of permit issue (specify date)</p> <p>Within 9 months of permit issue (specify date) unless otherwise agreed in writing</p>
IC2	The Operator shall ensure that a review the integrity of all storage tanks and site surfacing against the requirements of section 2.2.9 of the Sector Guidance Note IPPC S1.01 Combustion Sector Technical Guidance Note, version 2.03 July 05 be carried out by a qualified structural engineer. The review shall identify any measures necessary to meet	Within 3 months of permit issue

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
	those requirements and propose a time scale for implementing them. A written report of the review shall be submitted to the Environmental Agency detailing the reviews findings and recommendations.	
	Remedial action shall be taken to ensure all tanks and surfacing meet the standards set out in the above documents and implement the maintenance and inspection regime.	Within 9 months of permit issue unless otherwise agreed in writing.
IC3	<p>The operator shall carry out an assessment of the containment measures that exist on site with the purpose of preventing fugitive releases from the chemicals, oils and wastes that are used or generated within the installation. The assessment will be made against the requirements of section 2.2.9 of the Sector Guidance Note IPPC S1.01 Combustion Sector Technical Guidance Note, version 2.03 July 05 or Box 5 of H7. The assessment shall specifically focus upon, but not be limited to,</p> <ul style="list-style-type: none"> Measures taken to ensure that any spillage on the areas of hard-standing will not migrate into the surrounding permeable ground; and That the containment measures for the storage of chemicals, oils and wastes meet the requirements of section 2.2.9 of the Combustion Sector Technical Guidance Note(TGN). Submission of a fugitive emission management plan detailing the measures to be used to control fugitives emissions to surface water, sewer and groundwater in accordance with section 2.2.9 of TGN S1.01 or Box 5 of H7. <p>The results of the assessment along with a timetable for any remedial action to be taken if necessary shall be submitted in writing to the Agency for approval.</p>	5 months
IC4	<p>A fugitive emission management plan shall be submitted to the Agency, detailing the measures to be used to control fugitive emissions to air and shall be accordance with section 2.2.8 of Sector Guidance Note IPPC S1.01 Combustion Sector Technical Guidance Note, version 2.03 July 05</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Agency</p>	6 months
IC 5	<p>The operator shall carry out, a detailed feasibility study into the provision of two 30-40 meter stacks as outlined in option 3 of section 11.2 Volume 2 of the application. The study shall include a timetable for the construction and completion of the stacks.</p> <p>The operator is also invited to carry out any other detailed feasibility studies that will result in comparable NOx reductions(>70%) to option 3 of section 11.2 of the application. Any studies undertaken shall include timetables for implementation and completion.</p> <p>The plan shall be implemented by the operator from the date of approval in writing by the Agency</p>	Within 6 months of permit issue.
IC6	<p>The operator shall submit proposals, including time-scales, to the Agency for the installation of the noise mitigation improvements outlined in Section 9.7 Volume 2 of the application. The improvements shall include, but not be limited to:</p> <ul style="list-style-type: none"> Replacement of the existing corrugated roof and ridge vents with a new roof and acoustic louvre system; and Provision of a sealable door for the south access entrance, and accompanying attenuated ventilation system to allow this door to remain closed; and All glazed areas are to be sealed with panes of minimum thickness 6mm, and all penetrations sealed and made good, where practicable. <p>The plan shall contain dates for the implementation of individual measures. The plan shall be implemented by the operator from the date of approval in writing by the Agency.</p>	Within 7 months of permit issue.
IC7	<p>A revised Accident Management Plan shall be submitted to the Agency for approval. This should identify the hazards, provide an assessment of the risks and identify the techniques necessary to reduce the risks in accordance with the indicative requirements of section 2.8 of the Sector Guidance Note IPPC S1.01 Combustion Sector Technical Guidance Note, version 2.03 July 05. The revised accident management plan should consider, but not be limited to, the following additional potential hazards:</p> <ul style="list-style-type: none"> abnormal operating conditions leading to abnormal emissions; 	9 months from date of permit issue

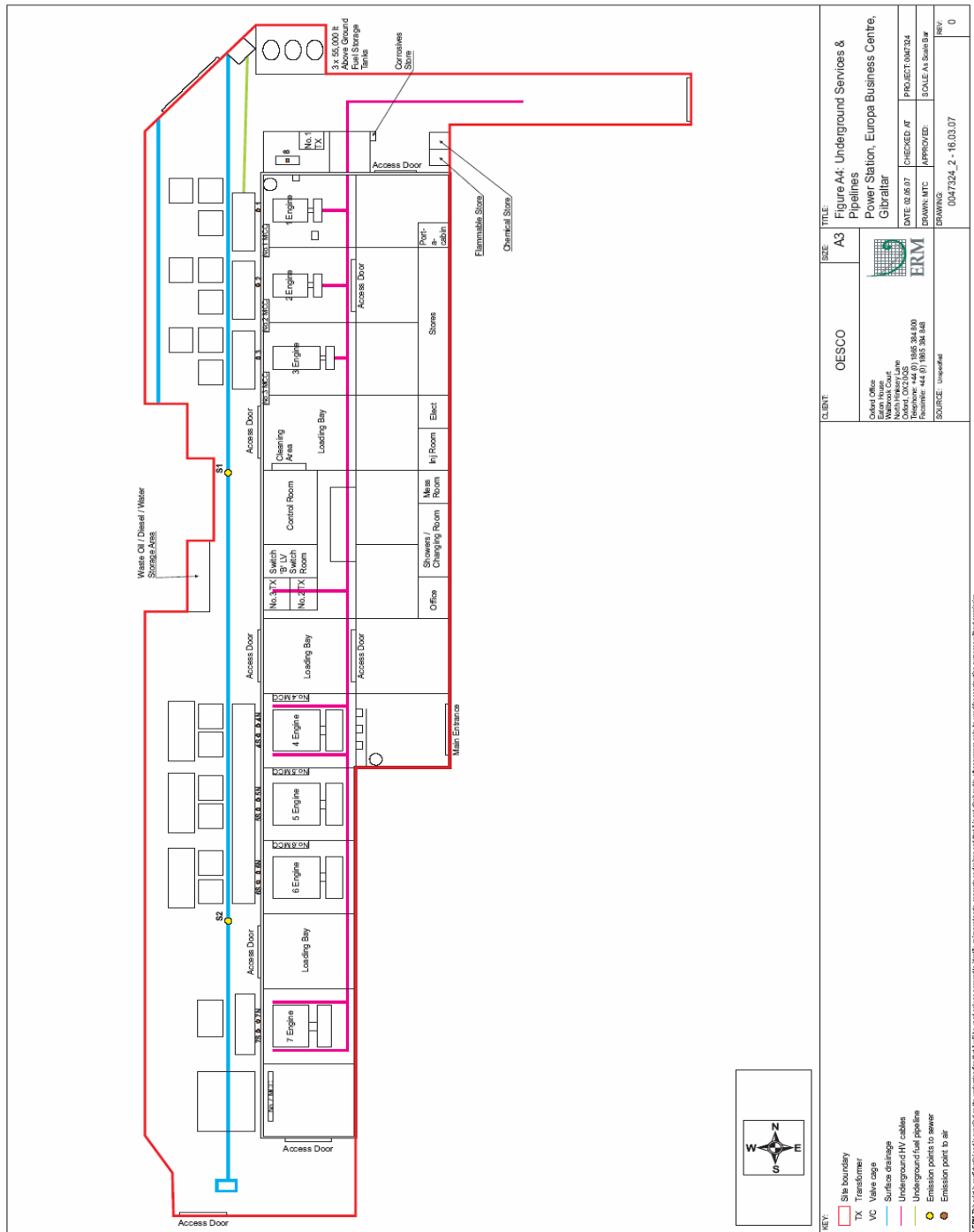
Table S1.3 Improvement programme requirements

Reference	Requirement	Date
	<ul style="list-style-type: none"> • transfer of substances; • overfilling of vessels; • firewater containment; and • flooding. <p>Where appropriate the plan shall contain dates for the implementation of individual measures. The plan shall be implemented by the operator from the date of approval by the Agency.</p>	
IC8	<p>The Operator shall develop and implement a formal Environmental Management System (EMS) as described in section 2.3 of the Sector Guidance Note IPPC S1.01 Combustion Sector Technical Guidance Note, version 2.03 July 05. at the installation, having regard to the requirements of ISO14001 or equivalent recognised standards. The EMS shall include all elements described in Section 2.3 of the Combustion Sector Technical Guidance Note and shall include but not be limited to the following elements:</p> <ul style="list-style-type: none"> • Procedures for monitoring of emissions and impacts; • Procedures to ensure environmental considerations are incorporated into capital approval and purchasing policies; • A comprehensive system of auditing; • Production of an annual environmental report; and • Procedures for the keeping of records of all aspects of the environmental management system. <p>A written report which describes the main elements of the EMS shall be submitted to the Agency for approval.</p>	12 months from the date of permit issue
IC9	<p>A written procedure shall be submitted to the agency detailing the measures to be used so that monitoring equipment, personnel and organisations employed for the emissions monitoring programme shall have either MCERTS certification or accreditation in accordance with condition 3.6.3. The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the procedure.</p>	12 months from the date of permit issue
IC10	<p>The operator shall submit a written plan to the Agency for approval that sets out the monitoring of emissions to be undertaken from A1-A11 (stacks A1 and A2). The plan shall be in accordance with the requirements of section 2.10.1 of the Sector Guidance Note IPPC S1.01 Combustion Sector Technical Guidance Note, version 2.03 July 05 and Technical Guidance Note M2 (Monitoring of stack emissions to air) in order to fulfill the air emissions monitoring requirements set out in section 3.6 of the permit.</p>	Upon completion of IC 5
IC11	<p>The operator shall undertake the monitoring set out in the plan submitted as a requirement of IC10 following its approval by the Agency. The results of the monitoring shall be submitted to the Agency along with an assessment of the impact of the emissions using the Agency's H1 methodology.</p>	Within three months of completion of IC 10
IC12	<p>On completion of IC11 the operator shall carry out air dispersion modeling for any emissions identified as being significant by the H1 screening tool and submit the results to the Agency along with a timetable for implementing any remedial action to be taken if necessary.</p>	Within two months of completion of IC 11
IC13	<p>The operator shall carry out an assessment of the measures that are in place to reduce the risk of a pollution incident caused by firewater. The review shall include:</p> <ul style="list-style-type: none"> consideration of the principals set out in PPG 18 – Managing Fire-water and major spillages. Identification of any improvements necessary in order to minimise the risk of a pollution incident caused by firewater <p>A written report summarising the assessment and any necessary improvements shall be submitted to the Environmental Agency for approval. The Agency approval shall include timescales for the Operator to implement the improvements.</p>	14 months from the date of permit issue

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC14	A noise management plan shall be submitted to the Agency, detailing the measures to be used to control emissions of noise and shall be accordance with Appendix 4 (noise management plan) of Horizontal Guidance Note H3 (Horizontal Noise Guidance) Part 2). The plan shall be implemented by the operator from the date of approval in writing by the Agency.	
IC15	A written Site Closure Plan shall be submitted to the Agency for approval to comply with the requirements of section 2.11 of the Sector Guidance Note IPPC S1.01 Combustion Sector Technical Guidance Note, version 2.03 July 05.	18 months from date of permit issue

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

Table S4.1 Point source emissions to air from compression ignition engines

Emission point ref. & location	Parameter	Source	Limit (including unit) ^a	Reference period	Monitoring frequency	Monitoring standard or method
A1-A11[Point A1-A11 on site plan in schedule 2]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	Compression ignition generation engines 1-7	Limit to be set on completion of IC 11.	Reference period to be set upon completion of IC 10	Continuous	To be agreed with the agency
A1-A11[Point A1-A11 on site plan in schedule 2]	Carbon Monoxide	Compression ignition generation engines 1-7	Limit to be set on completion of IC 11.	Reference period to be set upon completion of IC 10	Continuous	To be agreed with the agency
A1-A11[Point A1-A11 on site plan in schedule 2]	Total VOC's	Compression ignition generation engines 1-7	Limit to be set on completion of IC 11.	Reference period to be set upon completion of IC 10	Continuous	To be agreed with the agency
A1-A11[Point A1-A11 on site plan in schedule 2]	Particulate matter PM ₁₀	Compression ignition generation engines 1-7	Limit to be set on completion of IC 11.	Reference period to be set upon completion of IC 10	Continuous	To be agreed with the agency

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

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
" "						

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
Parameters as required by condition 3.6.1.	A1-A11	Every 3 months	DD/MM/YY

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
Oil usage	Annually	MJ

Table S5.4 Reporting forms

Media/ parameter	Reporting format	Starting Point	Agency recipient	Date of form
Air	Form Air – 2 continuous monitoring or other form as agreed in writing by the Agency	Permit issue		DD/MM/YY
Water usage	Form water usage1 or other form as agreed in writing by the Agency	Permit issue		DD/MM/YY
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	Permit issue		DD/MM/YY
Other performance indicators	Form performance 1 or other form as agreed in writing by the Agency	Permit issue		DD/MM/YY

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	PPC002
Name of operator	Ormrod Electricity Supply Company
Location of Installation	Oesco Power Station Europa Business Centre Gibraltar
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 Ormrod Electricity Supply Company.

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 the Pollution Prevention and Control Act 2001

"*authorised officer*" means any person authorised by the Agency under section 7(3) of The Pollution Prevention and Control Act 2001 to exercise, in accordance with the terms of any such authorisation, any power 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.

"*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 the UK 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 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".

"*large combustion plant*" or "*LCP*" is a combustion plant or group of combustion plants discharging waste gases through a common windshield or stack, where the total thermal input is 50 MWth 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 UK Environment Agency's Monitoring Certification Scheme.

"*mcr*" means maximum continuous rating.

"*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 Act 2001

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

"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.

"year" means calendar year ending 31 December.

Unless otherwise stated any references in this permit to 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. 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