

# Surrender notice with introductory note

## The Environmental Permitting (England & Wales) Regulations 2010

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RWE Generation UK plc

Fawley Power Station  
Fawley  
Southampton  
SO45 1TW

### **Surrender application number**

EPR/WP3535LZ/S004

### **Permit number**

EPR/WP3535LZ

# Fawley Power Station

## Permit number EPR/WP3535LZ

### Introductory note

#### **This introductory note does not form a part of the notice.**

The following notice gives notice of the surrender in part of an environmental permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

The main features of the Installation are as follows:

The Installation at Fawley Power Station is operated by RWE Generation UK plc and is located on the west bank of Southampton Water at Fawley in Hampshire. It is centred on National Grid Reference SU 4730 0245 and covers an area of 27.1 ha. The area around the installation is predominantly rural although a large oil refinery and its associate chemical plants lie to the north. The nearest European Habitats site is the Solent Maritime Special Area of Conservation (SAC). There are also 3 Ramsars, 3 Special Protection Areas and 5 SAC sites within 15km of the power station, in addition to 24 Sites of Special Scientific Interest. Construction of Fawley Power Station began in 1963 and it was first commissioned in 1970. Operation of the 2 main HFO fired units ceased on 31<sup>st</sup> March 2013 with decommissioning completed by 31<sup>st</sup> December 2013. Operation of the OCGTs ceased on 30<sup>th</sup> September 2014 with decommissioning completed by 31<sup>st</sup> December 2014.

Fawley was a 2000 MW(e) power station comprising 4 x 500 MW(e) oil fired units and 4 x 17.5 MW open cycle gas turbines. The gas turbines were installed for emergency start-up and peak lopping duties operating on light oil. Two of these gas turbines and three of the main units were mothballed in the mid 1990's. However, one of the main units and one of the gas turbines were brought back on line during 2006, providing 2 x 500 MW(e) operational oil fired units and 3 x 17.5 MW(e) operational gas turbines. The fourth gas turbine resumed commercial operation during 2008. Propane was used to light all burners and fuel heating was provided by four oil-fired package boilers.

Heavy fuel oil has been delivered to the site by pipeline from the nearby refinery however, in later years of operation this was replaced with delivery by road or ship / barge.

Exhaust gases from the main boilers were passed through cyclone separators and then dispersed via a 198m stack. Exhaust gases from the auxiliary boilers were also emitted via this stack. Combustion products from the gas turbines were released to atmosphere via individual 58m stacks. The main atmospheric pollutants emitted are sulphur dioxide, oxides of nitrogen and particulates.

The main cooling water was abstracted from Southampton Water and utilised in a once-through cooling system utilising heat exchangers and discharged off shore in the Solent at a higher temperature than extracted. Process water supplies for boiler feeds and for the generation of steam were drawn from an industrial raw water supply.

The main boiler units are classified as "opted out" Large Combustion Plant (LCP) under the large combustion plant directive (LCPD). Therefore the LCP could not have operated for more than 20,000 hours between 2008 and 2015, with the LCP closing by 31<sup>st</sup> December 2015.

In addition, the Operator elected to operate the LCP and gas turbines under the 10,000 hour lifetime derogation (Annex VIII A2 of the LCPD) from the requirement to carry out continuous emissions monitoring.

Effluent consisting of main plant blowdown and condensate rejection was discharged to the power station dock. Rainwater entering the plant will continue to pass through the existing interceptors and treatment facilities before being discharged to the dock. Site surface drainage continues to be released to Southampton Water via on-site interceptors.

Decommissioning activity involved the draining of fuel and lubricating oil from storage tanks, pipework and plant and the removal of the material from site. The boilers, flue gas ducts and stack have been cleaned internally to normal outage standards.

As part of this application a change in operator name has been implemented. The operator's name has been amended from RWE npower plc to RWE Generation UK plc. It should be noted that there is no expectation that the Operator will exercise the use of the remaining scheduled activity under Section 1.1(A)(1)(a) as the main operation of commercial energy generation at this site has ceased.

The schedules specify the changes made to the permit, as a result of the part surrender application.

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

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application EPR/WP3535LZ/A001	Duly made 31/03/06	
Additional information received	20/11/06	Confirmation of changes to fuel supplies to the installation.
Permit determined EPR/WP3535LZ	Issued 30/05/07	
Application for Variation EPR/WP3535LZ/V002 (Billing ref XP3239KE)	Duly made 04/06/09	
Variation Determined EPR/WP3535LZ	11/09/09	
Variation Determined EPR/WP3535LZ/V003	26/02/13	Environment Agency Initiated Variation, to incorporate Eel Regulations improvement condition.
Part surrender application EPR/WP3535LZ/S004	Duly made 20/01/2015	Application to surrender, in part, regulated activities under table S1.1.
Part surrender determined EPR/WP3535LZ (Billing Reference RP3338WY)	10/03/15	Part surrender complete. Notice issued to RWE Generation UK plc.

<b>Superseded or Partially Superseded Licences/Authorisations/Consents relating to this installation</b>		
<b>Operator</b>	<b>Permit number</b>	<b>Date of issue</b>
RWE npower plc	IPC Authorisation Number AA3115 (as varied)	08/04/93 Fully superseded
RWE npower plc	Water Abstraction Licence Number 35/079	10/04/02 (revised 14/05/02)

End of introductory note.

# Notice of surrender

## The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 25 of the Environmental Permitting (England and Wales) Regulations 2010 accepts the surrender in part of

### Permit number

EPR/WP3535LZ

### Issued to

**RWE Generation UK plc** (“the operator”)

whose registered office is

**Windmill Hill Business Park**

**Whitehill Way**

**Swindon**

**Wiltshire**

**SN5 6PB**

company registration number 3892782

to operate a regulated facility at

**Fawley Power Station**

**Fawley**

**Southampton**

**SO45 1TW**

to the extent set out in the schedules.

This notice shall take effect from 10/03/2015.

Name	Date
A.J. Nixon	10 March 2015

Authorised on behalf of the Environment Agency

## Schedule 1

All conditions have been varied by the part surrender and consolidated permit as a result of the application made by the operator.

## **Schedule 2 – consolidated permit**

Consolidated permit issued as a separate document.

# Permit

## The Environmental Permitting (England and Wales) Regulations 2010

### Permit number

**EPR/WP3535LZ**

This is the consolidated permit referred to in the part surrender for application EPR/WP3535LZ/S004 authorising,

**RWE Generation UK plc** (“the operator”),

whose registered office is

**Windmill Hill Business Park**

**Whitehill Way**

**Swindon**

**Wiltshire**

**SN5 6PB**

company registration number 3892782

to operate an installation at

**Fawley Power Station**

**Fawley**

**Southampton**

**SO45 1TW**

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

Name	Date
A.J. Nixon	10 March 2015

Authorised on behalf of the Environment 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 Accident Management Plan

- 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; and
  - (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 identified 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 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

## **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 table S4.1.
- 3.1.2 The limits given in schedule 4 shall not be exceeded except where otherwise stated in the conditions of this permit.

### **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 table S4.1.
- 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 table S4.1 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 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) 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 S5.2 ; and
  - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.3 The operator shall, unless notice under this condition has been served within the preceding 4 years, submit to the Agency, within 6 months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.4 All reports and notifications required by the permit shall be sent to the Agency using the contact details supplied in writing by the Agency
- 4.2.5 The results of reviews and any changes made to the site protection and monitoring programme shall be reported to the Agency, within 1 month of the review or change.

### **4.3 Notifications**

- 4.3.1 The Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution;
  - (b) the breach of a limit specified in the permit;
  - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.
- 4.3.3 Prior written notification shall be given to the Agency of the following events and in the specified timescales:
- (a) as soon as practicable prior to the permanent cessation of any of the activities;
  - (b) cessation of operation of part or all of the activities for a period likely to exceed 1 year; and
  - (c) resumption of the operation of part or all of the activities after a cessation notified under (b) above.
- 4.3.4 The Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.5 Where the Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Agency when the relevant monitoring is to take place. The operator shall provide this information to the Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.6 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.

## **4.4 Interpretation**

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

## Schedule 1 – Operations

<b>Table S1.1 activities</b>		
<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity</b>	<b>Limits of specified activity</b>
Section 1.1 A(1) (a)	Burning any fuel in an appliance with a rated thermal input of 50 megawatts or more in a single 72MWth open cycle gas turbine	No burning of any fuel shall take place on site unless agreed in writing with the Environment Agency.
<b>Directly Associated Activity</b>		
Directly associated activity	Surface water drainage and process effluent system	Handling and storage of site drainage.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
Application	The responses to Sections 2.1 and 2.2 in the Application	31/03/06
Receipt of additional information to the application	Receipt of information in relation to the installation a new heavy fuel oil tank within the current power station site effecting a shift in the installation boundary. Exclude reference to building the tank bund without an impermeable base.	20/11/06
Notification of LCP closure and site visit	Notification of cessation of operation of LCP units (units 1 and 3) from 31/03/13 and submission of the decommissioning plan (CAR Report ID A/121030WP3535LZ)	30/10/12

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC14	<p>The operator must provide, to the Environment Agency, and implement a written Demolition Phase Water Monitoring Plan, prior to site demolition works commencing on site.</p> <p>The plan must include a review of the environmental risks associated with each phase of proposed demolition works and the identification of appropriate measures for ensuring no significant environmental impact occurs as a result of this activity.</p> <p>The plan must be approved, by the Environment Agency, before any demolition works are undertaken on site.</p>	To be agreed with the site inspector.

<b>Table S1.4 Pre-operational measures</b>		
<b>Reference</b>	<b>Operation</b>	<b>Pre-operational measures</b>
-	-	-



## Schedule 3 - Waste types, raw materials and fuels

**Table S3.1 Raw materials and fuels**

Raw materials and fuel description	Specification
-	-

**Table S3.2 Permitted waste types and quantities for use as fuels**

EWC code	Description
-	-



## Schedule 4 – Monitoring

**Table S4.1 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
W2 [Point W2 on site plan in schedule 2] emission to power station dock	Oil	Water treatment effluent, surface drainage, water from transformer bund area	Maximum value 5,000 µg/l	Spot sample	Quarterly	BS EN ISO 9377
				Visual check	weekly	
W2 [Point W2 on site plan in schedule 2] emission to power station dock	Nickel	Water treatment effluent, surface drainage, water from transformer bund area	Annual average 30 µg/l, maximum value 100 µg/l	Maximum value as 90% ile compliance using look up tables	Quarterly	BS6068
W2 [Point W2 on site plan in schedule 2] emission to power station dock	Mercury	Water treatment effluent, surface drainage, water from transformer bund area	Annual average 0.3 µg/l, maximum value 1 µg/l	Maximum value as 90%ile compliance using look up tables	Quarterly	BS6068
W2 [Point W2 on site plan in schedule 2] emission to power station dock	Cadmium	Water treatment effluent, surface drainage, water from transformer bund area	Annual average 4 µg/l, maximum value 20 µg/l	Maximum value as 90%ile compliance using look up tables	Quarterly	BS6068
W2 [Point W2 on site plan in schedule 2] emission to power station dock	Zinc	Water treatment effluent, surface drainage, water from transformer bund area	Annual average 250 µg/l, maximum value 1000 µg/l	Maximum value as 95%ile compliance using look up tables	Quarterly	BS6068
W2 [Point W2 on site plan in schedule 2] emission to power station dock	Vanadium	Water treatment effluent, surface drainage, water from transformer bund area	Annual average 100 µg/l, maximum value 400 µg/l	Maximum value as 95%ile compliance using look up tables	Quarterly	BS6068
W2 [Point W2 on site plan in schedule 2] emission to power station dock	Dissolved Iron	Water treatment effluent, surface drainage, water from transformer bund area	Maximum value 1000 µg/l	Spot sample	Quarterly	BS6068
W2 [Point W2 on site plan in schedule 2] emission to power station dock	Suspended Solids	Water treatment effluent, surface drainage, water from transformer bund area	Maximum value 100 µg/l	Spot sample	Quarterly	BS6068

**Table S4.1 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements**

<b>Emission point ref. &amp; location</b>	<b>Parameter</b>	<b>Source</b>	<b>Limit (incl. unit)</b>	<b>Reference period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
W3 [Point W5 on site plan in schedule 2] emission to power station dock	Oil	Site surface drainage	None visible	At time of inspection	Monthly	Visual
W4 [Point W6 on site plan in schedule 2] emission to power station dock	Oil	Site surface drainage	None visible	At time inspection	Monthly	Visual
W5 [Point W7 on site plan in schedule 2] emission to power station dock	Oil	Site surface drainage	None visible	At time inspection	Monthly	Visual

## Schedule 5 – Reporting

**Table S5.1 Reporting of monitoring data**

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emission to water sample and analysis results	W2, W3, W4 and W5	Quarterly	01/04/2015

**Table S5.2 Reporting forms**

Media/parameter	Reporting format	Starting Point	Agency recipient	Date of form
Emission to water sample analysis results	W1	01/01/2015	Site Inspector	As provided at time of permit issue or as subsequent amended by the Environment Agency.

# 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 EP Regulations.

## Part A

Permit Number	<b>WP3535LZ</b>
Name of operator	<b>RWE Generation UK plc</b>
Location of Facility	<b>Fawley Power Station Fawley Southampton SO45 1TW</b>
Time and date of the detection	

<b>(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution</b>	
<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
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 facility in the preceding 24 months.	

<b>Name*</b>	
<b>Post</b>	
<b>Signature</b>	
<b>Date</b>	

\* authorised to sign on behalf of the operator

## Schedule 7 - Interpretation

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

"*annually*" means once every year.

"*assessment year*" means any complete calendar year except that the first assessment year for the purposes of this permit shall run from 1 October 2006 until 31st December 2007.

"*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.

"*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 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.

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

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

"*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*" of an LCP is the time spent between start up and shut down of the LCP.

"*operator B Limit*" means the limit for the assessment year in question specified in column 3 of Table S4.4 in Schedule 4 or such other limit for that year as has been approved by the Agency following notification by the operator on form SO1 or NO1, as referred to in Schedule 5, table S5.4.

"*process B limit*" means such limit for the assessment year in question, as has been approved by the Agency following a notification by the operator on form SO2 or NO2, as referred to in Schedule 5, table S5.4

"*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.

"*relevant processes*" means the combustion processes at Fawley Power Station, Didcot A Power Station, Aberthaw Power Station, Littlebrook Power Station and at Tilbury Power Station carried on by RWE Generation UK plc. which are subject to permits requiring compliance with an operator B limit "and relevant process" means any one such process carried on by RWE Generation UK plc.

"*Shut down*" is defined as when the output from last unit within an LCP has fallen below SOP in accordance with "Principles for Determining MSG and SOP Thresholds for a Unit" Issue 3.0, 23 October 2006 or any subsequent revision to this protocol agreed in writing with the Agency.

"*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*” is defined as when the first unit within an LCP has started up in accordance with “Principles for Determining MSG and SOP Thresholds for a Unit” Issue 3.0, 23 October 2006 or any subsequent revision to this protocol agreed in writing with the Agency.

“*t SO<sub>2</sub>/GWh*” in Table S4.4 is given by the following equation,

$$t.SO_2/GWh = Tots/Ge$$

Where:

Tots is the total mass of SO<sub>2</sub> released over an Assessment Year.

Ge is the total electricity generated using fuels combusted at the power station expressed as GWh over an Assessment Year.

In the absence of an agreed protocol based on the continuous measurement of sulphur dioxide or other method agreed in writing with the Agency, the release of sulphur dioxide shall be calculated in accordance with the formula:

$$\text{Sulphur dioxide released (Tots)(tonnes)} = [(Sc \times Tc \times 0.95) + (So \times To) + (Sg \times Tg)] \times 0.02$$

where -

Sc = sulphur content of solid fuel (% w/w);

So = sulphur content of liquid fuel (% w/w);

Sg = sulphur content of gas (% w/w);

Tc = solid fuel burned (tonnes);

To = liquid fuel burned (tonnes);

Tg = gaseous fuel burned (tonnes)

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

“*year*” means calendar year ending 31 December.

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

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

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content

END OF PERMIT