

# Variation notice with introductory note

Environmental Permitting (England & Wales) Regulations 2010

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Aberthaw Power Station

RWE npower plc  
Aberthaw  
near Barry  
Vale of Glamorgan  
CF62 4ZW

Variation notice number  
EPR/ RP3133LD/V003

Permit number  
EPR/RP3133LD

# Aberthaw Power Station

## Permit Number EPR/RP3133LD

### 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.2010 No. 675 (the Regulations), gives notice of the variation of an environmental permit to operate a regulated facility.

This variation notice introduces a minor technical change to modify the aqueous pH emission limits from the installation to the Severn Estuary from 6 to 8.5 on a 100%ile basis to the same limits on a 95%ile basis, together with the introduction of a 5.8 absolute minimum.

Schedule 1 of this notice lists any deleted conditions, Schedule 2 lists any amended conditions, Schedule 3 lists any conditions that have been added and Schedule 4 shows any changes to the plan.

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 RP3133LD	Duly made 31/03/06	
Schedule 4 Notice/Additional Information Received	Issued 26/07/06	4/10/06, 1/11/06, 10/11/06, 5/12/06, 1/03/07, 16/3/07, 8/08/07, 10/08/07, 22/08/07, 5/09/07 and 11/09/07
Public Participation Directive consultation	30/10/07	27/11/07
Permit determined	21/12/07	
Variation Notice GP3635XF issued	9/01/08	
Application EPR/RP3133LD/V003 [PAS Ref No TP3230TS]	Duly made 05/03/10	
Variation Notice EPR/RP3133LD/V003 issued	13/05/10	

Other PPC permits relating to this installation		
Operator	Permit Number	Date of Issue
RWE npower	DP3432SW	30/03/07
RWE npower	BP3339BH	4/05/07

Other existing Licences/Authorisations/Registrations relating to this site		
Holder	Reference Number	Date of issue
RWE Innogy plc	21/57/31/0040	16/09/99

End of Introductory Note

Notice of variation

Environmental Permitting  
(England and Wales) Regulations 2010

Permit number

**EPR/RP3133LD**

The Environment Agency in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 (SI 2010 No 675) varies the permit as set out below.

**RWE npower plc** ("the operator"),

whose registered office is

**Windmill Business Park**

**Whitehill Way**

**Swindon**

**Wiltshire**

**SN5 6PB**

company registration number **3892782**

to operate an installation at

**Aberthaw Power Station**

**Aberthaw**

**Nr. Barry**

**Vale of Glamorgan**

**CF62 4ZW**

to the extent set out in schedules 1 to 4 of this variation notice.

The notice shall take effect from 13 May 2010

Name	Date
	13 May 2010

Eirian Macdonald

Authorised on behalf of the Environment Agency

## Schedule 1 – conditions to be deleted

None.

## Schedule 2 – conditions to be amended

The following conditions are amended as follows:

Condition 2.5.1 is amended such that Table S1.3 in Schedule 1 is amended to include the following improvement conditions:

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC24	<p>A written report shall be submitted to the Agency for approval. The report shall contain the results of direct sea water pH and temperature measurements made on two-monthly basis for a period of 12 months. Measurements shall be made at the twelve locations detailed in the application for variation of 18th February 2010 and shall be made under a variety of tidal conditions and Station loadings with a sampling methodology agreed by the Agency. An assessment shall be made of any environmental impact on key aqueous receptors.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the report.</p>	1 <sup>st</sup> May 2011
IC25	<p>A written report shall be submitted to the Agency for approval. The report shall contain an assessment of the impact on energy consumption due to the modification of limits during the first twelve months of operation.</p> <p>The notification requirements of condition 2.5.2 shall be deemed to have been complied with on submission of the report.</p>	1 <sup>st</sup> May 2011

Condition 3.1.2 is amended such that Table S4.2 in Schedule 4 is amended to:

<b>Table S4.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements</b>						
<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>
W1 [0.9 metre diameter out fall located at NGR ST02916574]	Total suspended solids	Surface water drainage from roads, coal plant stockyard, & silo areas	100mg/l	Spot sample during discharge	Weekly	BS EN 872
W1 [0.9 metre diameter out fall located at NGR ST02916574]	Ammoniacal nitrogen	Surface water drainage from roads, coal plant stockyard, & silo areas	2mg/l	Spot sample during discharge	Monthly	BS 6068-2.11
W1 [0.9 metre diameter out fall located at NGR ST02916574]	Cadmium and its compounds, expressed as cadmium (Total Cd)	Surface water drainage from roads, coal plant stockyard, & silo areas	0.01mg/l	Spot sample during discharge	Monthly	BS 6068-2.89
W1 [0.9 metre diameter out fall located at NGR ST0291657]	Total hydrocarbon oil	Surface water drainage from roads, coal plant stockyard, & silo areas	3mg/l	Spot sample during discharge	Daily	EN ISO 9377-2
W1 [0.9 metre diameter out fall located at NGR ST02916574]	pH	Surface water drainage from roads, coal plant stockyard, & silo areas	6-9	Spot sample during discharge	Daily	BS6068-2.50
W2 [twin discharge structures located at NGR ST01656588 and ST01636595]	Differential total suspended solids	Condenser cooling water, FGD process water, boiler water treatment plant effluent, boiler blow down, dirty water drainage, surface water drainage	50 mg/l	24-hour composite sample	Weekly average of daily samples	BS EN 872
W2 [twin discharge structures located at NGR ST01656588 and ST01636595]	Ammoniacal nitrogen	Condenser cooling water, FGD process water, boiler water treatment plant effluent, boiler blow down, dirty water drainage, surface water drainage	0.1 mg/l (above back ground)	24-hour composite sample	Monthly average of daily samples	BS 6068-2.11

**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
W2 [twin discharge structures located at NGR ST01656588 and ST01636595]	Differential temperature	Condenser cooling water, FGD process water, boiler water treatment plant effluent, boiler blow down, dirty water drainage, surface water drainage	13.5°C	For 98% of all continuous daily average values	Continuous	Calibrated and traceable to national standards
W2 [twin discharge structures located at NGR ST01656588 and ST01636595]	Total hydrocarbon oil	Condenser cooling water, FGD process water, boiler water treatment plant effluent, boiler blow down, dirty water drainage, surface water drainage	3 mg/l	24-hour composite sample	Daily	EN ISO 9377-2
W2 [twin discharge structures located at NGR ST01656588 and ST01636595]	pH	Condenser cooling water, FGD process water, boiler water treatment plant effluent, boiler blow down, dirty water drainage, surface water drainage	5.8 (min)	Instantaneous	Continuous	BS6068-2.50
W2 [twin discharge structures located at NGR ST01656588 and ST01636595]	pH	Condenser cooling water, FGD process water, boiler water treatment plant effluent, boiler blow down, dirty water drainage, surface water drainage	6.0 - 8.5	95%ile of the Instantaneous measurements	Continuous	BS6068-2.50

**Schedule 3 – conditions to be added**

None.

**Schedule 4 – amended plan**

None.