

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2016

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Dŵr Cymru Cyfyngedig

Afan Combined Heat and Power Facility

Afan Waste Water Treatment Works  
Harbour Road

Phoenix Walk

Port Talbot Steelworks

Port Talbot

SA13 1RA

Variation application number

EPR/ZP3032KQ/V004

Permit number

EPR/ZP3032KQ

# Afan Combined Heat and Power Facility

## Permit number EPR/ZP3032KQ

### 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 operator initiated minor technical variation to amend the parts of the permit relating to the height of biogas flare and operating process of the surplus gas burner combustion chamber.

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
Permit determined EPR/ZP3032KQ/A001	26/05/10	Permit issued to Dŵr Cymru Cyfyngedig
Environment Agency variation determined EPR/ZP3032KQ/V002	27/03/13	Environment Agency initiated variation to implement changes introduced by the Industrial Emissions Directive (IED) 2013
Variation determined EPR/ZP3032KQ/V003	19/02/14	Variation issued to include abatement process for the removal of siloxane.
Application EPR/ZP3032KQ/V004	Duly made 13/08/18	Application to amend the parts of the permit relating to the height of biogas flare and operating process of the surplus gas burner combustion chamber.
Variation determined EPR/ZP3032KQ	24/09/18	Varied permit issued.

End of introductory note

## Notice of variation

Environmental Permitting (England and Wales) Regulations 2016

The Natural Resources Body for Wales (“Natural Resources Wales”) in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies

**Permit number**  
**EPR/ZP3032KQ**

**issued to:**  
**Dŵr Cymru Cyfyngedig** (“the operator”)

whose registered office is  
**Pentwyn Road**  
**Nelson**  
**Treharris**  
**Mid Glamorgan**  
**CF46 6LY**

company registration number 02366777

to operate a regulated facility at  
**Afan Combined Heat and Power Facility**  
**Afan Waste Water Treatment Works**  
**Harbour Road**  
**Phoenix Walk**  
**Port Talbot Steelworks**  
**Port Talbot**  
**SA13 1RA**

to the extent set out in the schedules.

The notice shall take effect from 24/09/2018

Name	Date
<b>Huw Davies</b>	<b>24/09/2018</b>

Authorised on behalf of Natural Resources Wales

### Schedule 1 – conditions to be deleted

None

### Schedule 2 – conditions to be amended

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

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Section 5 of the Part B Application Form	20/10/09, (duly made 27/11/09)
Pp Tek Operation and Maintenance data for Siloxane removal system Cardiff WwTW	All	22/07/13
PpTek Siloxane Removal System Hazardous Area Classification Report – Cardiff WwTW	All	29/08/13
Cardiff Surplus Gas Burner Repairs R1	All	13/08/18

**Table S3.1 Point source emissions to air – emission limits and monitoring requirements**

Emission point ref. & location (as identified onsite plan at Schedule 7)	Source	Parameter	Limit (mg/Nm <sup>3</sup> ) <sup>1</sup>	Reference period	Monitoring frequency	Monitoring standard or method
A1- CHP unit 1 A2- CHP unit 2	Exhaust of spark ignition engines via individual, 24m unimpeded vertical stacks	Nitrogen Oxides (NO <sub>x</sub> expressed as NO <sub>2</sub> )	500	Hourly Mean	Annually. The first annual monitoring to be undertaken as part of the engine commissioning	In accordance with Agency guidance note M2 "Monitoring of stack emissions to air".
		Carbon Monoxide	1,400			
		Sulphur dioxide	339			
A3 - Boiler unit 1 A4 - Boiler unit 2	Combustion products from boilers emitted via individual, 24m unimpeded vertical stacks	Nitrogen Oxides (NO <sub>x</sub> expressed as NO <sub>2</sub> )	170	Hourly Mean	Annually <sup>2</sup>	
		Carbon Monoxide	75			
		Sulphur dioxide	160			
A5 - biogas flare with a combustion temperature of at least 1,000 °C and a residence time of at least 0.3 seconds	Combustion products from biogas flare via a 10m unimpeded vertical stack	Nitrogen Oxides (NO <sub>x</sub> expressed as NO <sub>2</sub> )	150	Hourly Mean	Annually <sup>3</sup>	
		Carbon Monoxide	50			
		Sulphur dioxide	339			
		Operational temperature	>1000°C	Instantaneous reading	Annually <sup>3</sup>	

<sup>1</sup> These limits do not apply during start up and shut down.

<sup>2</sup> Annual monitoring of the boilers is only required if notified by the Agency, (based on a percentage usage of supplementary firing on biogas).

<sup>3</sup> Annual monitoring is only required when flare operates in excess of 10% of the time, taken on an annual assessment period.

### **Schedule 3 – conditions to be added**

None