

# Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

---

Siemens plc

Severn Power Station  
West Nash Road  
Newport  
Gwent  
NP18 2BZ

Variation application number  
EPR/HP3737UE/V004

Permit number  
EPR/HP3737UE

# **Severn Power Station**

## **Permit number EPR/HP3737UE**

### **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

The Severn Power Station installation generates the following waste water streams:

1. Neutralized effluent from the water treatment plant and condensate polishing plant (W1);
2. Surface water run-off from roofs and roads (W2); and
3. Oily water from process building sumps, sampling and auxiliary boiler blowdown (W3).

The discharges from W1, W2 and W3 are conveyed to a common release point on the River Usk via a pipeline. This variation authorises the relocation of the release point into the River Usk, which has been necessary to reduce the risk of bank erosion.

The monitoring frequency associated with W1 has also been amended as part of this variation. This is to reflect the fact that pH is measured immediately prior to the batch discharge from the neutralization pit, rather than on a continuous basis. This change has been made on the basis that the discharge of W1 effluent from the Neutralization tank is a batch process rather than a continual discharge.

The operator's effluent discharge procedure has been updated to reflect the need to control effluent flows to minimise the potential for further river bank erosion from the relocated outfall. The updated procedure has been incorporated into the operating techniques table. There are no other changes in the operator's releases to controlled water, as a result of this variation. There are also no changes to the operation of the permitted process.

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.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
Application HP3737UE	Duly made 26/03/09	
Additional Information Requested	27/10/09	
Additional Information Received	20/11/09	
Further Information Received	02/12/09	MSDS for acid and caustic solutions. SPL ref SEV-MISC-0087
Further Information Received	28/01/10	Water impact assessment. SPL ref SEV-MISC-0108
Further Information Received	10/03/10	H1 Spreadsheets
Further Information Received	22/03/10	Chemical cleaning operations ref SEV-MISC-0140
Permit determined EPR/HP3737UE	09/04/10	
Variation application EPR/HP3737UE/V002	Duly made 26/05/11	
Variation determined EPR/HP3737UE/V002	11/07/11	
Variation application EPR/HP3737UE/V003	Duly made 20/07/11	
Variation determined EPR/HP3737UE/V003	20/09/11	
Variation application EPR/HP3737UE/V004	Duly made 22/07/14	Application to relocate release point to River Usk and clarify monitoring requirements
Additional information received	18/08/14	Revised effluent discharge procedure
Additional information requested	13/11/14	
Additional information received	14/11/14	Amended site plan showing route of relocated pipeline and discharge point into the River Usk
Variation determined EPR/HP3737UE/V004 Permit number: EPR/HP3737UE	04/12/14	Varied permit issued.

End of introductory note

## Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

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 2010 varies

Permit number  
**EPR/HP3737UE**

issued to:  
**Siemens plc** ("the operator")

whose registered office is  
**Faraday House**  
**Sir William Siemens Square**  
**Frimley**  
**Camberley**  
**Surrey**  
**GU16 8QD**

company registration number **00727817**

to operate a regulated facility at:  
**Severn Power Station**  
**West Nash Road**  
**Newport**  
**Gwent**  
**NP18 2BZ**

to the extent set out in the schedules.

The notice shall take effect from 04/12/2014

Name

Date

	<b>04/12/2014</b>
---	-------------------

Eirian Macdonald, Principal Permitting Team Leader, NRW Permitting Service  
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 shall be amended to:

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application	Sections 2 and 5 of the application document in response to section 5a technical standards Part B of the application form, and the Odour Management Plan, Noise Management Plan and Fugitive Emissions Management Plan in Section 4 of the Application.	26/03/09
Response to Schedule 5 Notice dated 27/10/09	The entire response	20/11/09
Chemical cleaning operations. Document reference: SAG-SEV-1118	The entire document	21/08/09
Chemical cleaning operations. Document reference: SEV-MISC-0140	The entire document and associated impact assessments	22/03/10
Variation Application EPR/HP3737UE/V002	Parts C2 and C3 and the supplementary information supplied with these parts.	26/05/11
Variation Application EPR/HP3737UE/V003	Parts C2 and C3 and the supplementary information supplied with these parts.	20/07/11
Variation Application EPR/HP3737UE/V004	Document Reference SOM_02: "Treatment Plant Outfall – NRW Application Support Document", specifically section 4.1 stating that saltmarsh vegetation will be monitored for a 24 month period following after completion of the outfall relocation work.	22/07/14
Variation Application EPR/HP3737UE/V004 – Additional Information Received	Engineering Procedure EP-06.094 - "Severn Power CCGT Effluent Discharge Procedure"	18/08/14

Table S4.2 shall be amended to:

<b>Table S4.2 Point Source emissions to water (other than sewer) and land – 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 - The neutralisation pit, on site plan in Schedule 2	pH	Process effluents from the water treatment plant and condensate polishing plant.	6-9	Continuous	Immediately prior to batch discharge	BS6068-2.50
W1 - The neutralisation pit, on site plan in Schedule 2	Total ammonia	Process effluents from the water treatment plant and condensate polishing plant.	No limit set	Spot	Monthly	BS EN ISO 11732:2005
W2 – rainwater collection pond, on site plan in Schedule 2	No limit set	Surface Water run-off from roofs and roads via an oil/water interceptor.	-	-	-	-
W3 – process water collection pond	No limit set	Water from the process building sumps, sampling and auxiliary boiler blowdown via an oil/water interceptor.	-	-	-	-

**Schedule 3 – conditions to be added**

None



## Schedule 4 – amended plan

Amended plan attached

