





RELEASES TO AIR  
ANNUAL RETURN  
OPERATING HOURS

Operator: Siemens  
Location: Severn Power

Form: IED HR1  
Version/dates: V.11 Mar 2018

Permit/Variation Number: EPR/HP3737/V005

Year:	LCP1 (324) (hours)	Bypass (hours)	LCP2 (325) (hours)	Bypass (hours)	LCP3 (hours)	Bypass (hours)	LCP4 (hours)	Bypass (hours)
Annual Operating Hours <sup>(a), (b)</sup>	7,710	N/A	7,489	N/A	N/A	N/A	N/A	N/A
Cumulative Operating Hours <sup>(c),(d)</sup>		N/A		N/A	N/A	N/A	N/A	N/A
Derogated annual hours <sup>(e)</sup>		N/A		N/A	N/A	N/A	N/A	N/A
Five year rolling average <sup>(f)</sup>		N/A		N/A	N/A	N/A	N/A	N/A

NOTES:

- (a) Annual operating hours for every LCP from 1-Jan in calendar year. (For gas turbines with a Bypass stack, include the Bypass stack operating hours during normal operation even though these are reported separately).
- (b) For gas turbines with a Bypass stack, report Bypass operating hours from 1-Jan in calendar year, excluding Start-Up and Shut-down, in the adjacent column (labelled Bypass) which may be deleted if not applicable.
- (c) Cumulative operating hours from 1-Jan-2016 for LCP subject to a Limited Lifetime Derogation or a 10,000h monitoring derogation. (For gas turbines with a Bypass stack, include the Bypass stack operating hours during normal operation even though these are reported separately).
- (d) For gas turbines with a Bypass stack, report Bypass Cumulative operating hours from 1-Jan-2016 if subject to a separate 10,000h monitoring derogation, in the adjacent column (labelled Bypass).
- (e) Annual operating hours in calendar year from entry date (in first year as applicable) or from 1-Jan in calendar year, for each 1,500h ELV derogated Unit/LCP only.
- (f) Five year running average from entry date for each 1,500h derogated Unit/LCP only.
- (g) General note: hours are reported as a decimal number to two decimal places.

Signed on behalf of the Operator by: ..... Huw Edwards

Date of return: 26/01/2018

Permit Number: EPR/HP3737UE

Operator: Siemens plc

Facility: Severn Power Station

Form Number: Water1 / 10/03/10

Reporting of emissions to water (other than to sewer) and land for year commencing January 2017

Month	Emissions Point	Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
January	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Continuous. Pumps operate when pH is between 6 and 9	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	7.6	pH Probe	29 <sup>th</sup> 15:17	
	W3	pH	No limit set	Monthly spot	6.18	pH Probe	8 <sup>th</sup> 04:24	
February	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Continuous. Pumps operate when pH is between 6 and 9	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	8.2	pH Probe	28 <sup>th</sup> 21:05	
	W3	pH	No limit set	Monthly spot	6.9	pH Probe	8 <sup>th</sup> 16:08	
March	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Continuous. Pumps operate when pH is between 6 and 9	6-9	BS6068-2.50	N/A	
	W2	pH	No limit set	Monthly spot	8.0	pH Probe	28 <sup>th</sup> 03:32	
	W3	pH	No limit set	Monthly spot	7.1	pH Probe	8 <sup>th</sup> 05:16	

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Month	Emissions Point	Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
April	W1	Total ammonia	No limit set	Monthly spot	Tankerred away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	8.5	pH Probe	28 <sup>th</sup> 00:46	
	W3	pH	No limit set	Monthly spot	6.78	pH Probe	9 <sup>th</sup> 15:13	
May	W1	Total ammonia	No limit set	Monthly spot	Tankerred away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	8.8	pH Probe	28 <sup>th</sup> 19:54	
June	W3	pH	No limit set	Monthly spot	7.1	pH Probe	8 <sup>th</sup> 04:39	
	W1	Total ammonia	No limit set	Monthly spot	Tankerred away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	7.6	pH Probe	28 <sup>th</sup> 14:17	
	W3	pH	No limit set	Monthly spot	6.8	pH Probe	8 <sup>th</sup> 04:27	

Month	Emissions Point	Parameter	Emission Limit Value	Reference Period	Result (1)	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
July	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	8.5	pH Probe	28 <sup>th</sup> 13:06	
	W3	pH	No limit set	Monthly spot	6.5	pH Probe	7 <sup>th</sup> 23:15	
August	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	8.5	pH Probe	28 <sup>th</sup> 22:11	
September	W3	pH	No limit set	Monthly spot	7.7	pH Probe	7 <sup>th</sup> 23:29	
	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	BS6068-2.50	N/A	
	W2	pH	No limit set	Monthly spot	8.0	pH Probe	28 <sup>th</sup> 00:42	
	W3	pH	No limit set	Monthly spot	6.5	pH Probe	8 <sup>th</sup> 05:33	

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Month	Emissions Point	Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method [2]	Sample Date and Times [3]	Uncertainty [4]
October	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	7.9	pH Probe	28 <sup>th</sup> 03:14	
	W3	pH	No limit set	Monthly spot	8.6	pH Probe	8 <sup>th</sup> 12:46	
November	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	8.0	pH Probe	28 <sup>th</sup> 13:34	
	W3	pH	No limit set	Monthly spot	7.2	pH Probe	8 <sup>th</sup> 00:54	
December	W1	Total ammonia	No limit set	Monthly spot	Tankered away from site	BS EN ISO 11732:2005	N/A	
	W1	pH	6-9	Constant (pumps operate only when pH is 6 to 9)	6-9	pH Probe	N/A	
	W2	pH	No limit set	Monthly spot	7.8	pH Probe	28 <sup>th</sup> 15:14	
	W3	pH	No limit set	Monthly spot	7	pH Probe	8 <sup>th</sup> 16:07	

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[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ..... 

Date...26<sup>th</sup> January 2018..

(Authorised to sign as representative of Operator)

### Severn Power Station Total Power Generated in GWh 2017

Annual Production (As required in Table 4.2 of Permit)	
Parameter	Units
Power Output Unit 10 (LCP 324)	
2064	GWh
Power Output Unit 20 (LCP 325)	
1974	GWh
Total (LCP324 and LCP325)	
4038	GWh

*H. Edwards*

