


**RELEASES TO AIR**  
**ANNUAL RETURN**  
**CONTINUOUS MEASUREMENT SYSTEMS INVALIDATION LOG**  
**QUARTERLY RETURN**  
**Operator: NAES**  
**Location: Severn Power Station**  
**Monitor positioned on release point/LCP Number: GT20 / A2**  
**Permit/Variation Number: EPR/HP3737UE/V007**

**Year: 2025**  
**Form: IED/LCPBREF CEM1**  
**Version/Date: V3.0 Mar 2021**

Year: 2025 Date	Period of invalidation (hours)	Cumulative Invalidated Days in Year	Comments
10/01/2025	1 hrs	0	Condensate in sample line.
21/01/2025	2 hrs	1	Cooler issue as above, heat exchanger replaced.
25/02/2025	1 hrs	1	Low sample flow, pump replaced.

**NOTES:**

- (a) This form is returned in the event that the number of days of invalid CEMS performance exceeds 10 days within the calendar year for any individual pollutant.
- (b) Any day in which more than 3 hourly average values are invalid (due to malfunction or maintenance of the CEMS) is counted as a day of CEMS invalidity. If more than 10 days are invalid over a year the operator shall, within 28 days of becoming aware of this fact, review the causes of the invalidity and submit to the Environment Agency for approval, proposals for measures to improve the reliability of the CEMS, including a timetable for the implementation of those measures, and then implement the approved proposals.

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

Date of return: ...02/04/2025.....

RELEASES TO AIR

QUARTERLY RETURN

MONTHLY MEAN, MAXIMUM DAILY MEAN, ANNUAL MEAN AND ANNUAL PERCENTILE CONCENTRATIONS (a),(b),(c)

OPERATING MODE:

Operator: NAES

Form: IED/LCP/BREF CON2 (Gas Turbines)

Location: Severn Power Station

Vers./date: V3.0 Mar 2021

Permit/Variation Number: EPR/HP3737UE/V007

Year: 2025	LCP: A1					
	NOx (mg/m <sup>3</sup> )			CO (mg/m <sup>3</sup> )		
Month	Monthly Mean (d)	Max Daily Mean (d)	Part Load Max Daily Mean (e)	Monthly Mean (d)	Max Daily Mean (d)	Part Load Max Daily Mean (e)
January	31.58	30.57	30.41	2.7	5	11.8
February	21.7	27.08	26.71	2.1	2.3	11
March	N/A	35.91	35.7	N/A	2.5	12.2
April	-	0	-	-	0	-
May	-	0	-	-	0	-
June	-	0	-	-	0	-
July	-	0	-	-	0	-
August	-	0	-	-	0	-
September	-	0	-	-	0	-
October	-	0	-	-	0	-
November	-	0	-	-	0	-
December	-	0	-	-	0	-
Monthly ELV & Daily ELVs: (Jan-Dec):(f)			n/a			n/a
	Annual Mean (d)	Annual ELV		Annual Mean (d)	Annual ELV	
Annual Mean & ELV (g)	N/A			N/A		
	Annual Percentile (d)	Annual ELV		Annual Percentile (d)	Annual ELV	
Annual 95th Percentile & ELV (h)	38.12(15)			4.3(15)		

NOTES:

- (a) All concentration data, at 15% O<sub>2</sub>, dry, 273K, 101.3 kPa, are based on validated hourly mean concentrations, excluding start-up and shut-down, periods of malfunction or Breakdown of abatement equipment or Black Start operation.
- (b) Daily, Monthly and Annual means, and Annual percentile concentrations, are calculated from the validated hourly means defined in (a). OCGT qualifying periods for Hourly, Daily, Monthly and Annual averages are 40m, 6h, 72h or 3d, and 500h, respectively. OCGT qualifying periods are the same apart from the Hourly qualifying period which is reduced to 20m of normal operation. Annual averages, for plants with an Annual ELV, and Annual percentile concentrations, are submitted with the final return (Quarter 4).
- (c) Extend report to cover the required number of LCP on each site and repeat report for each separately regulated Operating Mode as required, e.g., Combined Cycle, Open Cycle, Supplementary firing, Auxiliary firing.
- (d) Averages determined at loads in the range E-DLN < Load ≤ 100% ISO base load and above (where E-DLN is the Effective-DLN load point).
- (e) Averages determined in the range MSUL\* < Load ≤ 100% ISO base load and above. (\* For a 3 parameter approach, from the point of Start-Up to the point of Shut-down).
- (f) When there is an in-year change of ELV, record both ELVs in consecutive rows. For example, compliance with the LCP BREF begins in August 2021 therefore replace 'Period 1' with 'Jan - Jul' and 'Period 2' with 'Aug - Dec'. Otherwise, replace 'Period 1' with 'Jan - Dec' and delete or blank out the row containing 'Period 2'.
- (g) For plants with an Annual ELV, for each pollutant, report the Annual mean in the first column and the Annual ELV in the second column. Annual ELVs are not applicable, and are not entered on the form, when the plant operates less than 1500 hours within the reporting year or for plant with a 1500 h/yr five-year rolling average derogation. Otherwise, reporting of the Annual mean begins in 2021 but compliance assessment with the Annual ELV begins in 2022 (incorporating plant operation from 1 January 2022); the Annual ELV is therefore not entered on the form for 2021 reporting.
- (h) For each pollutant, report the Annual 95th percentile of hourly means in the first column and the Annual 95th percentile ELV in the second column. However, if there is an in-year reduction of the percentile ELV then it is not mandatory to enter the ELV as compliance assessment will commence in the following year.

Signed on behalf of the Operator by:

[Redacted Signature]

Date of return:

02/04/2025

RELEASES TO AIR

QUARTERLY RETURN

MONTHLY MEAN, MAXIMUM DAILY MEAN, ANNUAL MEAN AND ANNUAL PERCENTILE CONCENTRATIONS (a),(b),(c)

OPERATING MODE:

Operator: NAES

Form: IED/LCPBREF CON2 (Gas Turbines)

Location: Severn Power Station

Vers./date: V3.0 Mar 2021

Permit/Variation Number: EPR/HP3737UE/V007

Year: 2025	LCP: A2					
	NOx (mg/m3)			CO (mg/m3)		
Month	Monthly Mean (d)	Max Daily Mean (f)	Part Load Max Daily Mean (e)	Monthly Mean (d)	Max Daily Mean (f)	Part Load Max Daily Mean (e)
January	20.01	37.16	37.24	5.1	19.6	29.1
February	24.55	26.62	32.16	1	1.2	23.2
March	N/A	28.4	31.16	N/A	1.6	21.3
April	-	0	-	-	0	-
May	-	0	-	-	0	-
June	-	0	-	-	0	-
July	-	0	-	-	0	-
August	-	0	-	-	0	-
September	-	0	-	-	0	-
October	-	0	-	-	0	-
November	-	0	-	-	0	-
December	-	0	-	-	0	-
Monthly ELV & Daily ELVs: (Jan-Dec)(f)			n/a			n/a
	Annual Mean (d)	Annual ELV		Annual Mean (d)	Annual ELV	
Annual Mean & ELV (g)	N/A			N/A		
	Annual Percentile (d)	Annual ELV		Annual Percentile (d)	Annual ELV	
Annual 95th Percentile & ELV (h)	36.77(15)			7.1(15)		

NOTES:

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Signed on behalf of the Operator by:



Date of return:

.....02/04/2025.....

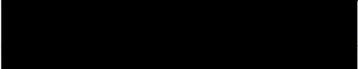
**RELEASES TO AIR**  
**ANNUAL RETURN**  
**CONTINUOUS MEASUREMENT SYSTEMS INVALIDATION LOG**  
**QUARTERLY RETURN**  
**Operator: NAES**  
**Location: Severn Power Station**  
**Monitor positioned on release point/LCP Number: GT10 / A1**  
**Permit/Variation Number: EPR/HP3737UE/V007**

**Year: 2025**  
**Form: IED/LCPBREF CEM1**  
**Version/Date: V3.0 Mar 2021**

Year: 2025 Date	Period of invalidation (hours)	Cumulative Invalidated Days in Year	Comments
25/02/2025	1 hrs	0	Calibration Gas solenoid valve replaced.

**NOTES:**

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Date of return: .....02/01/2025.....