

[Drafting note: Addendum to Form Air 9 – please copy and paste the following notes and tables below the footnotes but before the signature line of the “Reporting of periodically monitored emissions to air” table in your existing **Form Air 9** reporting form]

Assessment against Mercury and Dioxin Protocols: Notes for completion

- **ONLY complete this table in full** if there have been any periodically-monitored values above the thresholds set out in the mercury and dioxins monitoring protocols in this 6-month reporting period. **Otherwise**, enter N/A in the first date box if there have been no values above the threshold.
- For mercury, the threshold value is 10 µg/m³ (11% oxygen). For dioxins, the threshold value is the permit ELV.
- If there has been a value above the threshold within this 6-monthly reporting period but the results of both retests have not yet been obtained, and/or the measures to prevent recurrence not yet finalised, enter TBC into the "Retest 1 & 2" and/or "Measures put in place to prevent recurrence" boxes as necessary. Please then resubmit this information in the table for the next 6-monthly reporting period, with the previously TBC fields additionally completed.

Assessment against Mercury and Dioxin Protocols					
Date	Line	Hg or dioxins	Values		Measures put in place to prevent recurrence
[N/A or date]			Value		
			Retest 1		
			Retest 2		
			Value		
			Retest 3		
			Retest 4		
Note that the monitoring protocols require the operator to demonstrate consistent performance below threshold values such that continuous dioxins sampling or mercury monitoring is not required. The threshold value for dioxins is the same as the permit ELV, whereas the threshold for mercury is half of the ELV. Therefore, a value above the threshold value for mercury does not necessarily mean an exceedance of the permit ELV (see separate table above for compliance with the mercury ELV).					

Annual surveillance tests for continuous emissions monitoring systems: Notes for completion:

- Use this table to record the results of the annual surveillance tests (ASTs) that are carried out on the continuous emissions monitors (CEMS) if they have been carried within this 6-month reporting period.
- Where the CEM passes the AST, enter N/A under all the proceeding cells.
- Even if a new QAL2 is done as a precautionary measure, an AST must also be completed.
- Add additional table(s) if your plant has more than 3 lines, or delete table(s) if less than 3 lines.
- A number of parameters have the drafting note [as applicable] next to them. If not applicable, please delete these rows. Otherwise, retain the relevant rows and delete the drafting note.
- In the event that not all of the steps have been completed at the time of submission of this report, enter TBC into the relevant cells. Please then resubmit this information in the table for the next 6-monthly reporting period, with the previously TBC fields additionally completed.

Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)
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Environment Agency explanatory note: Note that, under the requirements of BS EN 14181 (the Quality Assurance of Automated Measuring systems), operators must carry out regular checks to assess for any drift in instrument calibration (referred to as QAL3 checks), as well as an annual calibration check known as an annual surveillance test (AST). Despite a QAL3 indicating that an instrument has not significantly drifted, the AST methodology includes additional checks of calibration variability and ongoing validity. If either the AST variability test or calibration validity test fail, the cause of must be identified (where possible) and rectified where appropriate, and a new QAL2 performed, reported and new calibration functions implemented in the CEMS software (the data acquisition and handling system – DAHS) within six months.
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Line 1	Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)							
Date of AST	Monitor	Variability test passed? Y/N	Calibration validity test passed? Y/N	Brief description of actions to investigate AST failure prior to new QAL2 being undertaken (as required by BS EN 14181:2014 Section 8.6)	Date of QAL2	New calibration function from QAL2 (whereby $y = bx + a$)		Date new calibration function entered into DAHS
						b value	a value	
	HCl							
	SO ₂							
	NO _x [as applicable]							
	NO [as applicable]							
	NO ₂ [as applicable]							
	TOC							
	Particulate matter							
	CO							
	NH ₃							
	CO ₂							
	N ₂ O							
	O ₂							
	Moisture							
	Flow [as applicable]							
	Velocity [as applicable]							

Line 2	Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)							
Date of AST	Monitor	Variability test passed? Y/N	Calibration validity test passed? Y/N	Brief description of actions to investigate AST failure prior to new QAL2 being undertaken (as required by BS EN 14181:2014 Section 8.6)	Date of QAL2	New calibration function from QAL2 (whereby $y = bx + a$)		Date new calibration function entered into DAHS
						b value	a value	
	HCl							
	SO ₂							
	NO _x [as applicable]							
	NO [as applicable]							
	NO ₂ [as applicable]							
	TOC							
	Particulate matter							
	CO							
	NH ₃							
	CO ₂							
	N ₂ O							
	O ₂							
	Moisture							
	Flow [as applicable]							
	Velocity [as applicable]							

Line 3	Annual surveillance tests (ASTs) for continuous emissions monitoring systems (CEMS)							
Date of AST	Monitor	Variability test passed? Y/N	Calibration validity test passed? Y/N	Brief description of actions to investigate AST failure prior to new QAL2 being undertaken (as required by BS EN 14181:2014 Section 8.6)	Date of QAL2	New calibration function from QAL2 (whereby $y = bx + a$)		Date new calibration function entered into DAHS
						b value	a value	
	HCl							
	SO ₂							
	NO _x [as applicable]							
	NO [as applicable]							
	NO ₂ [as applicable]							
	TOC							
	Particulate matter							
	CO							
	NH ₃							
	CO ₂							
	N ₂ O							
	O ₂							
	Moisture							
	Flow [as applicable]							
	Velocity [as applicable]							

Operator's comments :