

Recertification and Diagnostic Test Policy for In-situ CEMS⁽¹⁾

Event	Event Status ⁽²⁾	RATA	7 Day Cal Error ⁽³⁾	Cycle Time Test	Linearity Check	Calibration Error Test ⁽⁴⁾	Submit an Event Record	Comments
O ₂ or CO ₂ as defined in	R	X	X		X	X	X	The rule indicates that the permanent replacement of an analyzer is a recertification event. EPA does not require the cycle time test in this case, since the analyzer is like-kind and the rest of the system is the same. Modify the Monitoring Plan as necessary.
O ₂ or CO ₂ which does not qualify	R	X	X	X	X	X	X	The rule indicates that the permanent replacement of an analyzer is a recertification event. Thus, all tests are required. Modify the Monitoring Plan as necessary.
Flowing								EPA will conditionally allow the abbreviated linearity check (see footnote (5)). For repair or replacement of other major components that are not listed here, contact EPA for a case-by-case ruling.
	D				(5)	X	A	
	D				(5)	X	A	
	D				(5)	X	A	
	D				(5)	X	A	
	D				(5)	X	A	
	D				(5)	X	A	
	D				(5)	X	A	EPA will conditionally allow the abbreviated linearity check (see footnote (5)).
or component or maintenance (as	D					X		Examples include display, filter replacement, power cord replacement, power supply, valves, and analyzer pumps.
ective or dilution-	R	X	X	X	X	X	X	The rule indicates that the permanent replacement of a system is a recertification event. Thus, all tests are required. Modify the Monitoring Plan, as necessary.
surement path	R	X	X			X	X	The 7-day calibration error test is required, since

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								location changes may cause analyzer to drift, <u>e.g.</u> , due to thermal effects or vibration. Modify the Monitoring Plan, as necessary.

⁽¹⁾ Events are listed in § 75.20 (c)(1).

⁽²⁾ "D" means diagnostic test event.

⁽³⁾ Test is not required for a "regular" non-redundant backup system (see § 75.20(d)(2)(i)).

⁽⁴⁾ Test is required after every repair or corrective maintenance event that may affect system accuracy (Part 75, Appendix B, Section 2.1.3 (a)). If conditional data validation is used, a backup or test is required (§ 75.20(b)(3)(ii)).

⁽⁵⁾ A linearity check is recommended. However, an abbreviated linearity check is conditionally allowed (see Addendum, below). If the abbreviated test is not passed, consider it to be a failure and perform a full linearity check. Note: SO₂ and NO_x monitors with span values ≤ 30 ppm are exempted from linearity checks.

⁽⁶⁾ A <QACertificationEventData> record must be reported.

⁽⁷⁾ A <QACertificationEventData> record only if the full linearity check is performed. Keep the results of all successful alternative diagnostic tests on-site and do not report them to EPA.