



# Enhanced Monitoring Instrument Checklist

Source Identification:	Date:
Analyzer Model No.:	Serial No.:

## Daily Initial Measurement System Verification Tests

Test personnel:	Time:	
	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>
<i>Instrument battery charged (Section 8.2.1)</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Valid annual maintenance check certification (Section 8.2.2)</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>H<sub>2</sub>S scrubbing agent does not indicate a color change (Section 8.2.3)</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Particulate filter is in place and shows no liquid (Section 8.2.4)</i>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Calibration gas certificate is valid (Section 8.2.5)</i> - Analytical uncertainty at least +/- 2% - Gas has not expired	<input type="checkbox"/>	<input type="checkbox"/>
<i>Sampling Apparatus Leak Check Performed (Section 8.2.6)</i>	<input type="checkbox"/>	<input type="checkbox"/>

## Weekly Sensor Stability Test (Section 8.3.1)

Already performed for week: <input type="checkbox"/>		Date of Weekly Test:		
	Analyzer Response (C <sub>240</sub> )  (ppmv)	Analyzer Response (C <sub>300</sub> )  (ppmv)	Absolute Difference (C <sub>240</sub> - C <sub>300</sub> )  (ppmv)	Sensor Stability (C <sub>240</sub> - C <sub>300</sub> ) / C <sub>240</sub> × 100  %
High Level Standard				

**Test Results =**    **PASS**     **FAIL**     *Instrument must have a result less than +/- 2.5% to pass.*



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## Daily Response Time Test (Section 8.4.1)

	Manufacturer Certified Cylinder Value (ppmv)	Target: 95% of High Std. Concentration or within 0.5 ppmv of High Std.	Target: 5% of High Std. Concentration or within 0.5 ppmv of Low Std.	Time to Reach Target (seconds)
High Level Standard				
Low Level Standard				

**Response Time=**

## Initial Daily Instrument Error (IE) Test (Section 8.4.2, Section 8.6, Section 10)

Time:	Calibration Span (CS):			ppmv
	Manufacturer Certified Cylinder Value (A) ppmv	Analyzer Response (B) ppmv	Absolute Difference (B-A) ppmv	Instrument Error (Percent of Calibration Span) (B-A)/CS x 100 %
Low Level Standard				
High Level Standard				

**Test Results =** PASS  FAIL  Instrument must have a result less than +/- 5% to pass.

## Instrument Drift Test (Section 8.4.3)

	Instrument Error Initial (A) [from initial IE test] %	Instrument Error Final (B) [from post run IE test] %	Drift (B-A) %
Time			
Low Level Standard			
High Level Standard			

**Test Results =** PASS  FAIL  Instrument must have a result less than +/- 3% to pass.



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## Wellhead Sample Collection (Section 8.5)

[make copies of this page for each well to be tested]

**Purge Time = 1.5 x Response Time = Seconds**

**Well ID**  **Gas Temperature**  °F

Each run must be a minimum of 1-minute in length.

	ppmv
<b>Run 1 -</b>	
<b>Run 2 -</b>	
<b>Run 3 -</b>	
<b>Run 4 -</b>	
<b>Run 5 -</b>	
<b>Average =</b>	

Instrument Range:

80% of Instrument Range:

5 x Response Time = seconds

Did any of the following occur during the sampling?

	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>
Sensor Exposed to >80% of instrument range	<input type="checkbox"/>	<input type="checkbox"/>
Analyzer did not return to zero +/- 20 ppm within 5 times the response time after gas removed from it	<input type="checkbox"/>	<input type="checkbox"/>
Filters indicate that they require replacement	<input type="checkbox"/>	<input type="checkbox"/>
Filters exposed to abnormal conditions	<input type="checkbox"/>	<input type="checkbox"/>
End of Sampling	<input type="checkbox"/>	<input type="checkbox"/>

If answer was yes to any of the occurrences noted above, conduct IE test, and determine drift.



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## Instrument Error (IE) Test (Section 8.4.2, Section 8.6, Section 10)

Time:	Calibration Span (CS):			ppmv
	Manufacturer Certified Cylinder Value (A) ppmv	Analyzer Response (B) ppmv	Absolute Difference (B-A) ppmv	Instrument Error (Percent of Calibration Span) (B-A)/CS x 100 %
Low Level Standard				
High Level Standard				

**Test Results =**      **PASS**       **FAIL**       *Instrument must have a result less than +/- 5% to pass.*

**Drift test (page 2) and IE test above must pass for all samples since last passed IE (page 2) to be considered valid.**

**All Samples for are Valid:**       **Samples are Invalid:**