



## FORM 3B: Periodic Monitoring Recordkeeping Form For Portable Analyzers

SCAQMD RULES 1146 & 1146.1 Emissions of Oxides of Nitrogen from Industrial, Institutional and Commercial Boilers, Steam Generators, and Process Heaters

<b>DATE:</b> _____	<b>TIME (start/stop):</b> _____ / _____	<b>NAME:</b> _____
<b>FACILITY NAME:</b> _____		<b>ANALYZER (Make/Model):</b> _____
Facility ID Number: _____		Analyzer S/N: _____
Engine Name: _____		Date of Last Stability Check <sup>1</sup> : _____
Permit to Operate: _____		Date of Last Linearity Check <sup>2</sup> : _____
Application No.: _____		<small>1. Stability check must be conducted within 12 months of test date                  2. Linearity check must be conducted within 12 months of test date</small>

**"As Found" Test Results** Date: \_\_\_\_\_

Time Start: \_\_\_\_\_ Ambient Temperature \_\_\_\_\_  
 (°F): \_\_\_\_\_

Time End: \_\_\_\_\_

Constituent	CO (ppm)	NO (ppm)	NO <sub>2</sub> (ppm)	O <sub>2</sub> (%)
Measured, C <sub>MEAS</sub> *				
Cal Adjusted, C <sub>CORR</sub>				

Example Calculation: 
$$C_{ADJ} = (C_{MEAS} - C_{CZ}) \times \left( \frac{C_{CAL}}{C_{CM} - C_{CZ}} \right)$$

Constituent	CO (ppm)	NO <sub>x</sub> (ppm)	<b>Boiler Operating Conditions:</b>
C <sub>ADJ</sub> @ 3% O <sub>2</sub> , N			
Compliance Limit			
Difference			

**Calibration Results**

Date of Pre-Test Calibration: \_\_\_\_\_

Date of Post-Test Calibration: \_\_\_\_\_

Constituent	CO (ppm)	NO (ppm)	NO <sub>2</sub> (ppm)	O <sub>2</sub> (%)
Pre-Test Zero				
Post-Test Zero				
Mean Zero, C <sub>CZ</sub>				
Span Gas, C <sub>CAL</sub>				
Pre-Test Span				
Post-Test Span				
Mean Span, C <sub>CM</sub>				
Drift, %				

Drift Calculation is listed in Section 3.6, Periodic Monitoring Protocol

**"As Left" Test Results (if applicable)** Date: \_\_\_\_\_

Time Start: \_\_\_\_\_ Ambient Temperature \_\_\_\_\_  
 (°F): \_\_\_\_\_

Time End: \_\_\_\_\_

Constituent	CO (ppm)	NO (ppm)	NO <sub>2</sub> (ppm)	O <sub>2</sub> (%)
Measured, C <sub>MEAS</sub> *				
Cal Adjusted, C <sub>ADJ</sub>				
Constituent	CO (ppm)	NO <sub>x</sub> (ppm)	<b>Boiler Operating Conditions:</b>	
C <sub>ADJ</sub> @ 3% O <sub>2</sub> , N				
Compliance Limit				
Difference				

*Describe any boiler or control system maintenance or tuning conducted after the "As Found" Test to bring the boiler into compliance (attach additional documentation as necessary):*

  
  
  
  
  
  
  
  
  
  

*\* Attach printouts from the portable analyzer or the manual record of constituent concentrations during the test.*

**CERTIFICATION:** Based on the calibrations and measurements performed in accordance with this protocol, I certify that the statements and information contained in this report are true, accurate, complete and representative of the emissions from this source at the time of this test.

\_\_\_\_\_

Test Conducted By

\_\_\_\_\_

Title

\_\_\_\_\_

Signature

\_\_\_\_\_

Date