# 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

**DATE:** **TIME (start/stop):** / **NAME:**

**FACILITY NAME:** **ANALYZER (Make/Model):**

Facility ID Number: Analyzer S/N:

Boiler Name: Date of Last Stability Check[1]:

Permit to Operate: Date of Last Linearity Check[2]:

Application No.:

*1. Stability check must be conducted within 12 months of test date*
*2. Linearity check must be conducted within 12 months of test date*

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

Time Start: Ambient Temperature ($^0$F):

Time End:

| Constituent | CO (ppm) | NO (ppm) | $NO_2$ (ppm) | $O_2$ (%) |
|---|---|---|---|---|
| Measured, $C_{MEAS*}$ | | | | |
| Cal Adjusted, $C_{CORR}$ | | | | |

Example Calculation:

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

| Constituent | CO (ppm) | $NO_x$ (ppm) |
|---|---|---|
| $C_{ADJ}$ @ 3% $O_2$, N | | |
| Compliance Limit | | |
| Difference | | |

Boiler Operating Conditions:

**Calibration Results**

Date of Pre-Test Calibration:

Date of Post-Test Calibration:

| Constituent | CO (ppm) | NO (ppm) | $NO_2$ (ppm) | $O_2$ (%) |
|---|---|---|---|---|
| Pre-Test Zero | | | | |
| Post-Test Zero | | | | |
| Mean Zero, $C_{CZ}$ | | | | |
| Span Gas, $C_{CAL}$ | | | | |
| Pre-Test Span | | | | |
| Post-Test Span | | | | |
| Mean Span, $C_{CM}$ | | | | |
| Drift, % | | | | |

Drift Calculation is listed in Section 3.6, Periodic Monitoroing Protocol

**"As Left" Test Results (If applicable)** Date:

Time Start: Ambient Temperature ($^0$F):

Time End:

| Constituent | CO (ppm) | NO (ppm) | $NO_2$ (ppm) | $O_2$ (%) |
|---|---|---|---|---|
| Measured, $C_{MEAS*}$ | | | | |
| Cal Adjusted, $C_{ADJ}$ | | | | |

| Constituent | CO (ppm) | $NO_x$ (ppm) |
|---|---|---|
| $C_{ADJ}$ @ 3% $O_2$, N | | |
| Compliance Limit | | |
| Difference | | |

Boiler Operating Conditions:

*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 Signature

Title Date