

Southwest Clean Air Agency - Combustion Monitoring Worksheet - CO Basis

Facility Name:
Emission Unit ID:
Combust. Unit Manufacturer:
Combust. Unit Model No:
Combust. Unit Serial No:
Burner Manufacturer:
Burner Model No:
Burner Serial Number:
Monitoring Company:
Analyst Name:
Test Instrument Make:
Test Instrument Model:
Fuel Type:
Design Firing Rate: MMBtu/hr
Tested Firing Rate: MMBtu/hr

SWCAA ID: **Date Performed:**

1. The CO and NO_x span gas concentrations must not be less than 50% of the target/permitted pollutant concentration nor more than 200% of the target/permitted pollutant concentration. A lower concentration span gas may be used if it is more representative of measured concentrations.
2. The response check is failed if the difference between the pre-test and post-test readings is greater than 10% of the initial span value.
3. The calibration error check is failed if the pre-test analyzer response to a span or zero gas differs from the span or zero value by more than 10% of the span gas concentration.
4. No more than 12 hours may elapse between the pre-test and post-test analyzer response checks.
5. Calibration and use of an NO₂ cell is required, if:
 - There are significant quantities of NO₂ expected (e.g., specific types of catalysts, afterburners, etc.), or
 - The combustion analyzer does not have an integral or supplemental NO₂ to NO converter.
6. Submit results to SWCAA within 15 calendar days of monitoring.
7. Include available documentation of monitoring and quality assurance results such as printouts ("tapes"), data log files, span gas cylinder calibrations, calculations, etc.

Time of Pre-Test Calibration:
Time of Post-Test Calibration:

Does the permit have ppm limits for CO and NO_x?

Permit Number	NO _x Limit (ppm)	CO Limit (ppm)	O ₂ Correction (%)

Quality Assurance Results	NO _x (ppm)	CO (ppm)	CO ₂ (%)
Span Concentration:			
Pre-Test Span Reading:			
Post-Test Span Reading:			
Pre-Test Zero Reading:			
Post-Test Zero Reading:			

40 CFR 63 Subpart JJJJJJ (Boiler MACT) Monitoring Requirements for Liquid and Solid Fueled Boilers

Was the burner inspected?
 Was the flame pattern inspected and optimized?
 Was the air-to-fuel ratio system operating properly?
 Were total CO emissions optimized?

Describe any maintenance performed on the burner or boiler system in the "Test Notes" section.

Test Notes:

Results (Record at least once every 30 seconds for 5 minutes)

Sample	Stack Temp (°F)	NO _x Reading (ppm)	CO Reading (ppm)	CO ₂ Reading (%)
As Found				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Test Averages:
 Drift Corrected Values:
 Calculated O₂ (%):
 Oxygen Corrected Values:

NOTIFICATIONS: