

CALIFORNIA AIR RESOURCES BOARD
MONTHLY QUALITY MAINTENANCE CHECK SHEET
API MODEL 300EU CARBON MONOXIDE ANALYZER

Location: _____ Month/Year: _____
 Station Number: _____ Technician: _____
 Property Number: _____ Agency: _____
 Serial Number: _____ **s/n:** _____

Test Parameters		Readings			
	DATE:				
TIME	Current time of day (HH:MM:SS)				
RANGE	Analog output full-scale range (5ppm)				
STABIL	Std. Dev. Of CO readings <0.1 PPM with Zero Air				
CO MEAS	Current V/F conv. mV, meas channel (2500-4800mV)				
CO REF	Current V/F conv. mV, ref channel (2500-4800mV)				
MR RATIO	Measure/Reference Ratio (1.1 – 1.3 with Zero Air)				
AZERO RATIO	Auto Zero M/R Ratio (1.1 – 1.3)				
SAMPLE PRES	Sample Pressure (15 - 35”Hg)				
SAMPLE FL	Sample flow through Analyzer (1440- 2160 cc/min)				
BENCH TEMP	Temperature of the bench (48°C ± 2)				
WHEEL TEMP	Temperature of the correlation wheel (62°C± 2)				
OVEN TEMP	Temp of circulating air inside conv. oven (46°C ± 1)				
PHT DRIVE	Voltage to thermo coolers (250 mV – 4750 mV)				
SLOPE	Internal Formula – Slope (1.0 ± 0.3)				
OFFSET	Internal Formula - Offset (0 ± 0.3)				

OPERATOR INSTRUCTIONS:

1. Daily checks: Review hourly average data.
2. Weekly Checks: Review strip charts for Auto-Reference and auto QC checks.
 Record instrument diagnostic values.
 Change inlet particulate filter (1 micron). Date: _____
3. Monthly Checks: Complete and submit Monthly Maintenance Check Sheet.
4. Semi-Annual: Calibrate analyzer. Date last calibrated: _____
5. Annual: Replace pump diaphragm. Perform leak check.
6. As Required: Clean optics, pneumatic lines, and replace IR source.

Date	Comments or Maintenance Performed:

Reviewed by: _____ Date: _____