

**CALIFORNIA AIR RESOURCES BOARD  
MONTHLY QUALITY MAINTENANCE CHECK SHEET  
API MODEL 400E/T400 OZONE ANALYZER**

Location: \_\_\_\_\_ Month/Year: \_\_\_\_\_  
 Station Number: \_\_\_\_\_ Technician: \_\_\_\_\_  
 Property Number: \_\_\_\_\_ Agency: \_\_\_\_\_

Test Parameters		Readings			
	DATE				
TIME (PST)	Current Time (HH:MM)				
RANGE	500 ppb				
STABIL	< 1.0 with zero air (Record Only)				
O3 MEAS	2500-4900 mV				
O3 REF	2500-4900 mV				
**O3 GEN	80-5000 mV (Record Only)				
**O3 DRIVE	0-5000 mV (Record Only)				
PRES	0-2" Hg below ambient (Record Only)				
*SAMPLE FLOW	800 ± 80 cc/min at Sea Level				
SAMPLE TEMP	Station Temp ± 15°C				
PHOTO LMP	Photo Lamp Temp. 58 ± 1°C				
**O3 GEN TEMP	O3 Generator Temp. 48 ± 3°C				
BOX TEMP	Station Temp ± 8°C				
SLOPE	1.0 ± 0.15 – No Changes				
OFFSET	< ± 5 ppb – No Changes				

$$\text{Altitude Correction Factor (ACF)} = 1.001 * e^{(-.000037 * \text{altitude})}$$

$$\text{Corrected Sample flow} = \left( \frac{\text{Displayed Flow}}{\text{ACF}} \right)$$

\* = required for Federal EPA Equivalency Designation, at STP.

\*\* = applicable for the IZS option only.

**OPERATOR INSTRUCTIONS:**

1. Daily checks: Review data and strip charts.
2. Weekly Checks: Record test parameters.  
Change 5 µm PTFE particulate filter Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_
3. Semi-Annual: Calibrate analyzer. Date last performed: \_\_\_\_\_
4. Annual: Replace Sintered Filter / O-Rings Date last performed: \_\_\_\_\_
5. As Required: Clean optical chamber. Date last performed: \_\_\_\_\_  
Adjust photo lamp when O3 ref < 2500 mV. Date last performed: \_\_\_\_\_  
Rebuild the pump. Date last performed: \_\_\_\_\_

Date	Comments or Maintenance Performed:

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_