

**CALIFORNIA AIR RESOURCES BOARD**  
**MONTHLY QUALITY CONTROL MAINTENANCE CHECK SHEET**  
**LOS GATOS RESEARCH (LGR) 913-0015 N<sub>2</sub>O, CO AND H<sub>2</sub>O ANALYZER**

|                  |                |
|------------------|----------------|
| Location:        | Month/Year:    |
| Station Number:  | Operator:      |
| Property Number: | Serial Number: |

| Configuration and Diagnostic Parameters | Readings   |
|---|--|
| WEEKLY CHECKS DATE:                     |  |
| TIME                                    | PST (+1 min, adjust)   |
| CHANGE FILTER                           | Document with a yes or no  |
| TRANSMITTED INTENSITY                   | Document present transmitted intensity for drift.                |
| INSTRUMENT PRESSURE                     | Document present pressure in Torrs for drift. ( $\pm 0.5$ Torrs) |
| NAFION DRYER CHECKS                     | Verify flow through Nafion Dryer. (If applicable)                |
| DOWNLOAD DATA & COPY                    | Download data & copy to MLD server (If applicable)               |

**OPERATOR INSTRUCTIONS:**

1. Daily Checks: Review data and strip charts.
  
2. Weekly Checks: Record time of checks above. Verify time is correct. If more than 1 minute off reset. Change in-line sampling filter. Note the time so you can edit out data that was affected. Record the present transmitted intensity for deterioration. Spectrum screen, top right line. Record the present analyzer pressure in Torrs for deterioration. Bottom center of screen. If applicable, verify flow through Nafion Dryer. Should be between two and three times higher than "Measure analyzer flow" below. Adjust if outside these parameters. If **no** one (1) minute logging available, download data including last site visit date on to thumb drive. As soon as possible transfer that thumb drive data to the MLD server (Division X drive).
  
3. Monthly Checks: Complete and submit Monthly Quality Maintenance Check Sheet Perform Laser Offset Procedure. Pages 34 - 36 in LGR Manual. Date: \_\_\_\_\_ Document check cylinders number, pressure, regulator's output pressure and certified values. Cylinder #: \_\_\_\_\_ Pressure: \_\_\_\_\_ Reg's. Output Pressure: \_\_\_\_\_ Nitrous Oxide (N<sub>2</sub>O) Value: \_\_\_\_\_ Carbon Monoxide (CO) Value: \_\_\_\_\_
  
4. Semi-Annually: Calibrate analyzer. Date last performed: \_\_\_\_\_ Measure analyzer flow. Actual = \_\_\_\_\_ Clean or replace 4 ea. 3" x 3" and 8 ea. 2.5" x 2.5" fan filters.

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|-------|------------------------------------|
| Date: | Comments or Maintenance Performed: |
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|--------------|-------|
| Reviewed by: | Date: |
|--------------|-------|