APPENDIX 3 – COMPRESSOR EMISSION MEASUREMENT FREQUENCY

Quarterly Measurements for the Compressor Stations
2021 Winter Workshop (R. 15-001-08)— January 22, 2021
OVERVIEW OF COMPRESSOR EMISSION MEASUREMENT FREQUENCY

» There are 82 compressor units in the SoCalGas system
  ▪ 44 Storage facility units
  ▪ 38 Transmission facility units

» Vented emissions are currently measured on each unit annually under CARB Oil & Gas Rule

» SED has recommended measurements be taken quarterly

» Measuring emissions on every unit quarterly would require additional resources and funding
Quarterly Measurement for Compressor Stations Development

» **Objective:** Determine impact of quarterly compressor measurements compared to annual compressor measurements for potential full implementation across all units

» **Milestone Reached:** Pilot facilities have been selected, schedule, cost and procedure have been developed

» **Next Step:** Conduct measurements quarterly throughout 2021; analyze results, and assess feasibility of implementation in Q4 2021; formally propose next steps in 2022 Compliance Plan
Quarterly Measurement for Compressor Stations

» **Personnel:** Primarily SCG or SDGE Technicians

» **Instrument:** Small commercial rotary meter (8C-15 or similar)

» **Frequency:** Quarterly (4 total measurements per year)

» **Duration:** \( \leq 2 \) minutes

» **Response:** Conduct an evaluation within 30 days when a reciprocating compressor emission flow rate is greater than 2 scfm/cylinder. Depending on the results of an evaluation, repairs may be conducted. (Note: An evaluation procedure is being developed by Compressor Services.)
Quarterly Measurement for Compressor Stations

Initial emissions measurement. To be taken a minimum of 3 hours after start up.

- Measurement > 2 SCFM / Cylinder
  - Re-measure a minimum of 3 hours after initial measurement or sooner if there is a load change. Must be within 24 hours after initial measurement.
    - Measurement ≤ 3 SCFM / Cylinder
      - Record both measurements. Investigate possible causes. Contact Compressor Services and Storage Risk Management. Conduct COGR measurement and make any necessary repairs.
    - Measurement ≤ 3 & > 2 SCFM / Cylinder
      - Record both measurements. Investigate possible causes. Schedule follow up measurement for 1 month. If this is the follow up measurement, contact Compressor Services.

- Measurement ≤ 2 SCFM / Cylinder
  - Record measurement. No follow up action required. Next measurement to be taken quarterly.
  - Measurement ≤ 3 SCFM / Cylinder
    - Record both measurements. Investigate possible causes. Contact Compressor Services and Storage Risk Management. Conduct COGR measurement and make any necessary repairs.
  - Measurement ≤ 2 SCFM / Cylinder
    - Record both measurements. No follow up action required. Next measurement to be taken quarterly.
Questions?