

July 17, 2017

Bob Murphy  
President  
MurCal  
41343 12<sup>th</sup> Street West  
Palmdale, CA 93551

**Re: Revised Final Certification of Stationary Natural Gas  
Emission Compliance System for District Rule 4702  
Compliance**  
Certification Number: C-1121059

Dear Mr. Murphy:

The District is issuing a revised Final Certification under District Rule 4702 (Internal Combustion Engines) for the Stationary Natural Gas Emission Compliance (SNGEC) System described below.

The District reviewed the information provided in your application and the emissions data for internal combustion (IC) engines equipped with the SNGEC add-on emission control system consisting of the following components:

- Compliance Controls (FW Murphy) AFR (1R, 9R or 64R) air/fuel ratio controller,
- Johnson-Matthey Model Modulex B or Modulex C 3-way catalyst,
- Zirconia HEGO type oxygen sensor(s),
- Manifold Absolute Pressure (MAP) sensor, and
- Two Type K thermocouples

The initial source tests and extended use portable analyzer monitoring information submittal indicates that the SNGEC System described above is capable of satisfying the following District Rule 4702 requirements for agricultural, rich-burn, spark-ignited IC engines:

- Reducing exhaust emission levels to less than or equal to all of the following limits, corrected to 15% exhaust oxygen content: 90 ppmvd-NO<sub>x</sub>, 2,000 ppmvd-CO, and 250 ppmvd-VOC.

The SNGEC System described above is now considered to be "District Rule 4702 Certified" for any natural gas-fueled, rich-burn, agricultural IC engine for which it has been individually designed.

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

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