



2820 Pegasus Drive  
Suite 1  
Bakersfield, CA 93308

661.399.1398 PHONE  
661.393.8306 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

June 30, 2014

**Jack Hakop Aganyan**

TRC #: 220973.0000

Dear Mr. Aganyan,

TRC Environmental, Inc. conducted an engineering test on June 25, 2014 at Van Nuys, CA. Testing was performed on the outlet vent of a Hydrogen Generator. A 6 inch stack extension that met EPA Method 1 criteria was attached to the 3 inch outlet. An initial flow rate was measured prior to the sampling of two EPA 3C canister pairs. A final flow rate followed the canister sampling. During the test, voltage and current supplied to the system was recorded from the provided panel at approximately 10 minute intervals.

The test results are summarized in Table 1 and all supporting documentation is attached.

| Parameter             | Units | Run 1       | Run 2       | Average |
|-----------------------|-------|-------------|-------------|---------|
| Flow Rate             | dscfm | 116         | 110         | 113     |
| Flow Rate             | acfm  | 131         | 123         | 127     |
| Moisture              | %     | 5.2         | 4.4         | 4.8     |
| Reactor Temperature * | °F    | 92.1        | 86.8        | 89.5    |
| Hydrogen              | %     | 97.7 / 97.5 | 96.2 / 95.4 | 96.7    |
| Oxygen and Argon      | %     | 1.3/1.3     | 2.5 / 2.68  | 1.9     |
| Nitrogen              | %     | 1.0 / 1.17  | 1.3 / 1.9   | 1.3     |
| DC Voltage            | V     | 4           | 5.3         | 4.6     |
| DC Current            | Amps  | 95          | 85          | 90      |
| Power (V*A)           | VA    | 380         | 450         | 415     |

- Based on Stack Exhaust Temperature

If you have any questions concerning this report, please call me at (661) 619-3130.

Sincerely,

**TRC ENVIRONMENTAL CORPORATION**

A handwritten signature in black ink, appearing to read "James McSweeney", written in a cursive style.

James McSweeney  
Group Manager  
Bakersfield – Air Measurements  
Email [jmcsweeney@trcsolutions.com](mailto:jmcsweeney@trcsolutions.com)