

**Texas Commission on Environmental Quality
New Technology Research & Development (NTRD) Program
Monthly Project Status Report**

Contract Number: 582-11-11145-3264
Grantee: The University of Texas at Austin
Report for the Monthly period: December 2011 **Date Submitted:** January 9, 2012

Section I. Accomplishments

Provide a bulleted list of project accomplishments as well as a description of their importance to the project.

- Installed and plumbed external storage cylinders for the hydrogen station.
- Installed and plumbed fueling/off-loading post for back-up hydrogen supply. Tube trailer to arrive first week of January 2012.
- Continued preparations for the Proterra bus delivery. Proterra is nearing completion of bus trial operations prior to delivery. Current projections are for a January 2012 delivery.

Indicate which part of the Grant Activities as defined in the grant agreement, the above accomplishments are related to:

- Task 2.1.1: The PERFORMING PARTY will contract with GTI to prepare hydrogen fueling station and increase hydrogen fuel capacity.
- Task 2.1.2.5: The PERFORMING PARTY and GTI will provide a supply of backup hydrogen for bus refueling.
- Task 2.3: The PERFORMING PARTY will ensure that the Proterra bus, Capital Metro personnel, and support material are prepared for the demonstration.

Section II: Problems/Solutions

Problem(s) Identified: Report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project

- a) GTI is currently working to resolve an automation/controls problem identified with the hydrogen compressor in the station, which is preventing start-up of the compressor. Diagnosis found a faulty PLC module in the control system for the compressor.

Proposed Solution(s): Report any possible solution(s) to the problem(s) that were considered/encountered

- a) The solution is to repair or replace the bad PLC module.

Action(s) Conducted and Results: Describe the action(s) taken to resolve the problem(s) and its effect

- a) A spare PLC module is on order, and the faulty PLC module will be repaired or replaced the first week of January 2012.

Section III. Goals and Issues for Succeeding Period:

Provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen

- Continue fueling station upgrades and preparation with GTI. (Task 2.1)
- Complete/continue preparations for bus demonstration. (Task 2.3) Bus is scheduled to arrive in Austin in January.

Date: 1/9/2012

Authorized Project Representative's Signature

NOTE: *Please attach any additional information that you feel should be a part of your report or that may be required to meet the deliverable requirements for tasks completed during this reporting period.*