

**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: June 2011 **Date Submitted:** July 7, 2011

Section I. Accomplishments

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

- Grant Agreement signed on May 26, 2011
- Began organizational setup with Gas Technology Institute (GTI)
- Began Proterra bus preparation delivery for the bus demonstration (delivery expected at end of July 2011).
- Began coordination with Capital Metro on assessment of candidate routes for the bus demonstration and logistics of bus operation and fueling.
- Submitted Amendment to include an onsite back-up supply of hydrogen gas for the fueling station during the bus demonstration when the hydrogen fueling station is down for maintenance. This amendment included a revised budget and SOW, without any increase in overall budget or schedule.

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

- Task 2.1: The PERFORMING PARTY will contract with GTI to prepare hydrogen fueling station and increase hydrogen fuel capacity.
- Task 2.3: The PERFORMING PARTY will ensure that the Proterra bus, Capital Metro personnel, and support material are prepared for the demonstration.
- Task 2.4.1: The PERFORMING PARTY will complete pre-service trials to verify that the Proterra bus can satisfy route trip times and route range on the planned demonstration routes.

Section II: Problems/Solutions

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

- a) It is anticipated that the hydrogen fueling station will be unavailable during down time for maintenance.

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

- a) An alternative supply of hydrogen from a tube trailer was investigated, with both budget and schedule constraints considered.

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

- a) Risk mitigation for times when hydrogen station is unavailable for fueling the bus was taken in the form of a contract amendment to include a back-up supply of hydrogen gas, at no additional contract costs or schedule. An onsite back-up supply of hydrogen gas will help ensure program goals are met during the bus demonstration.

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

- **Begin hydrogen fueling station preparation, including storage upgrade design and additional station upgrades necessary for the demonstration. (Task 2.2)**
- **Complete preparations for bus demonstration, including verification of bus charger installation. (Task 2.3)**
- **Start pre-service trials with the Proterra bus to verify the bus can satisfy planned demonstration routes. (Task 2.4)**
- **Begin general operation and maintenance training for Capital Metro personnel. (Task 2.4)**

Date: July 7, 2011

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.*