

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:** September 2011

**Date
Submitted:** October 10, 2011

Section I. Accomplishments

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

- Received final authorization to proceed from University Office of Sponsored Projects on organizational setup with Gas Technology Institute (GTI) on September 7, 2011. Kick-off meeting held with GTI on September 16, 2011.
- Began design work on fueling station external storage upgrade. Storage cylinders have been identified and structural design of their support frame is underway.
- Identified location for back-up hydrogen supply tube trailer and began assembling quotes from vendors. Design work for off-loading fueling post that will plumb the tube trailer to the fueling station was completed and hardware procurement and fabrication is ongoing.
- Drafted a system safety plan (SSP), including bus and fueling station safety features and procedures. The SSP will be an integral part of training for Capital Metro staff.
- Continued preparations for the Proterra bus delivery. During bus trials, Proterra encountered some issues with the bus's communication network and fuel cell coolant loop. These issues are being addressed but have delayed delivery of the bus. Current projections are for a November 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 2.2: The PERFORMING PARTY will prepare the station operations and maintenance manual and safety plan, and provide copies of the manual and plan to on-site personnel.
- 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) None for this reporting period. CEM is currently tracking delivery of the Proterra bus. CEM is aware that if this becomes an issue it will have an impact on the program's schedule.

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

- a) N/A

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

- a) N/A

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 preparations for bus demonstration. (Task 2.3)

Date: 10/10/2011

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.*