

**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: August 2011 **Date Submitted:** September 9, 2011

Section I. Accomplishments

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

- Finalized organizational setup with Gas Technology Institute (GTI) on August 30, 2011. Awaiting final authorization to proceed from University Office of Sponsored Projects.
- Continued preparations for the Proterra bus delivery. Proterra began final bus trials at their facilities and is working to accumulate 500 error free miles prior to delivery. Current projections are for a late September / early October delivery.
- With Federal Transit Administration (FTA) National Fuel Cell Bus Program (NFCBP) funds, the Center for Transportation and the Environment (CTE) installed a mobile fueling trailer and performed operational checkout and training at UT Pickle Research Campus facilities. The mobile fueler will provide an interim fueling solution prior to completion of GTI fueling infrastructure upgrades.
- Received sample bus route data from Proterra and began compiling script routines for data processing and analysis to be used during pre-service trials and demonstration data collection.

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.
- Task 2.5.1.1.1: The PERFORMING PARTY will collect and compile route performance data from the bus's onboard data acquisition system.

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. The University of Texas Center for Electromechanics (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

- Begin fueling station upgrades and preparation with GTI. (Task 2.1)
- Complete preparations for bus demonstration. (Task 2.3)
- Begin general operation and maintenance training for Capital Metro personnel. (Task 2.4)
- Start pre-service trials with the Proterra bus to verify the bus can satisfy planned demonstration routes. (Task 2.4)

Date: 9/9/2011

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.*