

NTRD Program Disclaimers

1. Disclaimer of Endorsement:

The posting herein of progress reports and final reports provided to TCEQ by its NTRD Grant Agreement recipients does not necessarily constitute or imply an endorsement, recommendation, or favoring by TCEQ or the State of Texas. The views and opinions expressed in said reports do not necessarily state or reflect those of TCEQ or the State of Texas, and shall not be used for advertising or product endorsement purposes.

2. Disclaimer of Liability:

The posting herein of progress reports and final reports provided to TCEQ by its NTRD Grant Agreement recipients does not constitute by TCEQ or the State of Texas the making of any warranty, express or implied, including the warranties of merchantability and fitness for a particular purpose, and such entities do not assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represent that its use would not infringe privately owned rights.

**Texas Commission on Environmental Quality
New Technology Research & Development (NTRD) Program
Monthly Project Status Report
GTI Project # 20484**

Contract Number: 582-5-70807-0001

Grantee: Gas Technology Institute

Date Submitted: September 10, 2006

Report for the Monthly period: August 2006

Starting Date: August 1, 2006

Ending Date: August 31, 2006

Section I. Accomplishments *(Please provide a bulleted list of project accomplishments as well as a description of their importance to the project.)*

Accomplishment	Importance to the Project
GTI is in the final site selection process. The University of Texas, Center for Electro mechanics (UT-CEM) is a likely participant in the eventual deployment of this technology.	GTI met with Cap Metro and the City of Austin to discuss possible site locations for its hydrogen fueling station. A third site possibility is the JJ Pickle Campus where UT-CEM is located.
GTI and UT – CEM have met with fuel cell bus suppliers and are in the final process of making a selection of a vehicle supplier.	GTI and UT-CEM have narrowed the choice of fuel cell bus to two California bus suppliers. One option is to refurbish an existing fuel cell bus and another option is to purchase a newly fabricated fuel cell – battery hybrid bus.
GTI and GreenField are in the construction phase of the fueling station	Components are being delivered to GreenField for final assembly of the fueling station. The hydrogen compressor, and gas storage tanks are at GreenField's Dallas office. Skid structural design is almost complete – drawings are attached.
GTI continues with design and engineering of the Steam Methane Reformer (SMR) hydrogen generation system	The system is late stage design. Most components have been ordered and assembly of the SMR unit is taking place at GTI's lab in Des Plaines.

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

Accomplishment	Grant Activity
Host site negotiations for station deployment	Task 1, Article 2.1.2 in the Project S.O.W.
Vehicle proposal evaluations	Task 2

Integrated fueling station engineering and design	Task 1
SMR design, fabrication and testing	Task 1, Article 2.1.1.1 in the Project S.O.W.

Section II: Problems/Solutions

<p>Problem(s) Identified</p> <p><i>(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)</i></p>	<ol style="list-style-type: none"> 1) GTI does not have sufficient funding to obtain a fuel cell vehicle without finding a partner to share the cost of the project. 2) GTI has requested a no-cost time extension for this project to accommodate the time for identifying a new vehicle supplier. <p>This issue continues from last month's report.</p>
<p>Proposed Solution(s)</p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</i></p>	<p>GTI has identified supplemental federal funding through a new project partner to obtain a fuel cell bus vehicle that can operate as a "road-ready" vehicle in Texas.</p>
<p>Action(s) Conducted and Results</p> <p><i>(Please describe the action(s) taken to resolve the problem(s) and its effect)</i></p>	<p>GTI has ongoing discussions with a transit agency in Texas to operate the fuel cell bus.</p> <p>GTI has located supplemental funding for the fuel cell vehicle. A partnering agreement is in the contracting process.</p>

Section III. Goals and Issues for Succeeding Period: *(Please 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 preliminary work on the most likely deployment location and begin on-site permitting, gas supply, and operating groundwork.
- Complete the construction of the SMR and the integrated station.
- Continue the fabrication and testing of the hydrogen generation system.



Date: 9-10-2006

Authorized Project Representative's Signature

**J. B. Weeks, Associate Director,
Hydrogen Energy Systems
Gas Technology Institute**

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.*