

NTRD Program Disclaimers

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

Contract Number: 582-5-70807-0001

Grantee: Gas Technology Institute

Date Submitted: October 9, 2005

Report for the Monthly period: September 2005

Starting Date : September 1, 2005

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
Kick-off meetings	A series of initial planning meetings have been held in both Texas and in Des Plaines, Illinois to: <ul style="list-style-type: none"> • Identify roles and responsibilities of all project partners • Review and define engineering activities related to Task 1-3 in the Project Scope of Work • Begin contract negotiations for purchasing major equipment components.
GTI has solicited quotes for major system components including: <ul style="list-style-type: none"> • Hydrogen storage tanks • Hydrogen compression equipment. • Hydrogen Purification System 	GTI is evaluating cost, technical suitability, and timing of availability for different alternatives for these components. These components relate specifically to Tasks 1 and 2.
GTI and Greenfield Compression have agreed to a Statement of Work outlining Greenfield's technical contributions to the Project.	The hydrogen fueling station will be assembled and component integration will be finalized at Greenfield Compression's Richardson, Texas location. This accomplishment is critical to Task 1, Article 2.1.1.3 in the Statement of Work document.
A major component of the fueling station system was ordered from the selected supplier. This was a Quest Air PSA (pressure swing absorber) that is used to purify the hydrogen gas generated by the system.	Lead-time for ordering the PSA unit required an early commitment on this component. Quest Air is a leading supplier of this type of device.
GTI has signed a Letter of Intent with DFW Airport as a potential host site for the hydrogen fueling station	Demonstration site Research and Outreach is an integral part of this project in order to plan for a successful deployment subsequent to the completion of the hydrogen fueling station Project.

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

Accomplishment	Grant Activity
Kick-off meetings	Tasks 1 and 2
Quote Solicitations	Tasks 1 and 2
GTI / Greenfield Statement of Work Agreement	Task 1, Article 2.1.1.3 in the Project S.O.W.
Order of PSA Unit from Quest Air	Task 1, Article 2.1.1.1 in the Project S.O.W.
GTI / DFW Airport Letter of Intent	Task 1, Article 2.1.2 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>	<p>1) In the 18 months since the grant request was first submitted, the planned vehicle provider (Anuvu) has become unable to perform on its vehicle commitment.</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>1) GTI can contract with an alternate vehicle supplier or purchase an OEM-supplied vehicle.</p>

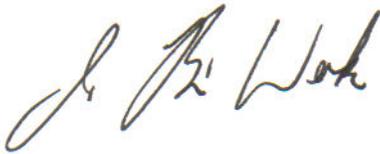
Action(s) Conducted and Results

(Please describe the action(s) taken to resolve the problem(s) and its effect)

- 1) GTI has located an alternate vehicle provider and is currently negotiating terms for delivering a hydrogen-fueled vehicle. This alternate provider has agreed to work with BAF to configure the vehicle for the GTI / TCEQ Project.

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)*

- Choose compression technology and vendor for the fueling station system.
- Identify most likely deployment location and begin on-site permitting, gas supply, and operating groundwork.
- Resolve remaining issues concerning the supply and configuration of the hydrogen-fueled vehicle.
- Identify and resolve major decisions on hydrogen station dispensing configuration.
- Finalize design approach for the fuel processor and initiate system construction.



Date: 10-9-05

Authorized Project Representative's Signature

**J. Brian 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.*