

NTRD Program Disclaimers

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**Texas Commission on Environmental Quality
New Technology Research & Development (NTRD) Program
Monthly Project Status Report
GTI Project #20285**

Contract Number: 582-5-70807-0018

Grantee: Gas Technology Institute

Date Submitted: October 10, 2006

Report for the Monthly period: September 2006

Starting Date: September 1, 2006

Ending Date: September 30, 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
Refrigerant mix has been adjusted to maximize system efficiency	GTI has optimized the refrigerant mix and has successfully tested the system to generate LNG under varying conditions.
GTI has finalized an agreement with Clean Energy to pick up LNG at GTI's Des Plaines site beginning in October.	Field-testing is an important deliverable in the overall project. This accomplishment will result in GTI being able to meet all deliverables on this project.
The liquefier has been prepared for an extended test run upon the arrival of a tanker from Clean Energy to collect the LNG. The liquefier has shown output of up to 1450 gallons of LNG per day.	The extended test run comprises the final task in the project, which will be used to show the overall viability of this technology for commercial applications.
GTI has scheduled visits from Texas-based LNG operators in early October	Review of the technology by Texas-based LNG fleet operators is an important aspect of the project, particularly since the field test site was moved to Des Plaines.

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

Accomplishment	Grant Activity
Refrigerant Mix	Tasks 3-4
Clean Energy Agreement	Task 5
Extended test run preparation	Task 5
Scheduled visits from Texas-based LNG fleet operators	Task 6

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>There are currently no problems existing or anticipated in the Project</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>Not Applicable</p>

Action(s) Conducted and Results

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

GTI has addressed all technical and contract issues. The extended test will validate the technology for commercial suitability.

Following is a photo of a Clean Energy tanker at GTI's facilities in Des Plaines, Illinois. The tanker is loading LNG generated by GTI's on-site natural gas liquefier system.



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)*

- Begin extended test run in October by filling multiple Clean Energy tankers for redelivery of LNG to Clean Energy customers in Texas.
- Provide tour of operation to Texas-based LNG fleet operators who will evaluate the technology for suitability at facilities in Texas.



Date: 10-10-06

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.*