

NTRD Program Disclaimers

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

Contract Number: _____582-5-70807-0005_____

Grantee: _____Teledyne Energy Systems, Inc._____

Date Submitted: _____10 October 2006_____

Report for the **Monthly** period:

Starting Date _____1Sept 2006_____ Ending Date _____31 Sept 2006_____

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

- Teledyne Energy Systems (TESI) and subcontractor Clean Fuel Generation (CFG) held one regular biweekly telecom during the month of August.
- TESI completed testing of the water pump for the fuel cell system.
- Testing of the air pump could not be completed as a flow meter with a sufficient capacity was not available. This is on order and is expected to be delivered in early October.
- The hydrogen compressor was received for testing; however the electrical connector was damaged during the test set-up. It will be attempted to repair this in-house (at TESI) as the manufacturer said that they cannot repair it.
- It was determined that the August testing of the fuel cell stack did not approximate all of the necessary conditions during the August test. A scaled profile will be rerun in October to more closely simulate the operating conditions of the fuel cell stack.
- CFG completed additional testing of the reformer which now has 318 hours of testing and 70 thermal cycles. The unit is still performing well with no noticeable catalyst degradation or decrease in catalyst activity.
- CFG also continued testing the hydrogen purifier reporting good results after 124 hours of testing and 44 thermal cycles.
- TESI and CFG continued work on the system model. CFG worked on and delivered a draft model of the reformer to TESI.
- CFG provided operating data for the task 2 report.
- TESI made considerable progress on the Task 2 report.

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

The above accomplishments are related to Task 2 in the Grant Activities including system modeling and evaluation of subsystems for the fuel processor.

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>None at this time.</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>Action(s) Conducted and Results</p> <p><i>(Please describe the action(s) taken to resolve the problem(s) and its effect)</i></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)*

Goals for October are to complete all Task 2 testing and the Task 2 report.

Additional information-



Date: 09 October 2006

 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.*