

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**

Contract Number: _____582-5-70807-0005_____

Grantee: _____Teledyne Energy Systems, Inc._____

Date Submitted: _____10 March 2006_____

Report for the **Monthly** period:

Starting Date _____1 Feb 2006_____ Ending Date _____28 Feb 2006_____

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

- Contract terms were concluded with the RRC and the purchase order is being executed in the beginning of February.
- Work has been started on Task 2 including the modeling of the APU subsystem components as well as work on prototyping critical subsystems for testing:
 - Redesigning and reworking the fuel delivery system and reformer to more effectively deliver the mixed fuel to the reforming catalyst bed optimizing the fuel to water ratio. Analyses of the entrainment of water in two and three dimensional calculations were performed to support the scale up and reduce the experimental effort. Prototypes have been built and are in the process of being installed for testing. Test result from this subsystem will be input to the system model.
 - Work is also proceeding on redesigning and testing a hydrogen purification system. (Hydrogen purity is critical to the life of the fuel cell stack.) Parts for building up the prototype purifier for testing are being received. The completed redesigned purifier will be tested and the results from this subsystem testing incorporated into the system model.

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>No technical problems are being experienced or anticipated at this time.</p> <p>The financial status report shows a negative total for February to correct an accounting error in a prior month.</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>No request for payment is being submitted this month as a result of the accounting error noted above.</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)*

The goal for March is to continue the system modeling work and expand upon the procurement and testing of critical subsystem components as described in Task 2 of the Grant Activities.

Additional information-



March 10, 2006

_____ Date: _____
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.*