

NTRD Program Disclaimers

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

Contract Number: 582-5-65591-0001

Grantee: Catalytica Energy Systems

Date Submitted: 9/7/05

Report for the **Monthly** period: August, 2005

Starting Date 10/18/04

Ending Date 10/31/05

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

The Denton demonstration program completed its third and final month of testing. Specific task accomplishments are listed below.

Task 5 Accomplishments:

(1) Task 2.5.5 activities

- a. Completed final emissions testing on both project vehicles prior to unit removal. The cumulative NOx emissions results are shown in the Appendix of this report.
- b. Removed XononD units and shipped them back to Gilbert in preparation for Task 6 activities (Post-program XononD evaluation and reporting)

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

The accomplishments listed above are all part of Task 5 in the Grant Agreement.

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) <i>The DT466 engine installed the AZ dynamometer facility suffered a bearing failure the week before the Denton units were scheduled to be returned to Gilbert. It took two weeks to get the engine up and running again. This could result in a delay in starting the task 6 activities.</i></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) <i>Expedite the testing program if possible. If it is not possible to expedite the engine testing program, consider extending the contract end date by one month.</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>	<p>(1) <i>CESI is currently running task 6 testing and evaluating the length of the remaining test program.</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)*

- (1) *Complete Task 2.6.1: Perform visual and physical inspections of the field units*
- (2) *Complete Task 2.6.2: Test field units in the AZ dyno facility using the FTP, AVL8 and CBD cycles*
- (3) *Begin Task 2.6.3: Subscale and material analysis of catalysts*

Joy W Kirney

Authorized Project Representative's Signature

Date: 8/9/05