

NTRD Program Disclaimers

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

Contract Number: 582-5-655-91-0007

Grantee: Converter Technology Inc

Date Submitted: May 10, 2006

Report for the **Monthly** period:

Starting Date April 1, 2006 Ending Date April 30, 2006

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

- Continued testing of the data acquisition systems and debug the software.
- Continued in-house testing on the new converters with emphasis on the incinerator to ensure satisfactory performance.
- Continued support and documentation of our application for OTAQ qualification.

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

1. Task #4 - Construction of converter, EGR, and data acquisition system.
2. Task #7 – In-house emission and acoustical testing.
3. Task #10 - Verification through EPA and or CARB.

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>	<ul style="list-style-type: none"> • Encountered problems with the oxygen sensor software (not adequate for the required range). • Encountered software problem with with smoke opacity meter. • Short circuit encountered on the converter incinerator.
<p>Proposed Solution(s)</p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</i></p>	<ul style="list-style-type: none"> • Resolve the O₂ software calibration through cooperation between CTI and the supplier through a modified version • Supplier to provide a new software without the observed problem. • Revise incinerator construction to be more rugged.
<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>	<ul style="list-style-type: none"> • CTI and supplier are working on an updated version of the software for the O₂ sensor. • New Software by the smoke meter/data acquisition supplier have been accomplished. • New incinerator construction has been accomplished and is being tested.

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. Ship all hardware to Houston including the data acquisition system for installation.

Most challenges in the upcoming periods are suppliers related delays, assembly and check for quality, debugging, and pre-testing in the field.



Date: 05/10/2006

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.*



Photo Showing three Mobile Data Acquisition Systems.



Photo showing complete Mobile Data Acquisition System of one unit with software display on the laptop computer.