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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: ,March 10, 2005

Report for the **Monthly** period:

Starting Date Feb 1, 2005 Ending Date Feb 28, 2005

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

- Response from CARB was received on our Test Protocol. CTI is preparing response. Thus far, overall feedback from CARB is well received.
- Continue durability testing on Converter Versions that is suitable/convenient for EGR.
- EGR mapping plan for the CAT 4406 engine is complete.
- Procurement of test analyzer, other components for in-house EGR emission testing is almost finished.
- Identification of selected marketing data in Texas for Trucks & Buses is in progress.
- CARB acknowledges durability data from Traverse City, Michigan bus for PM only. CARB needs chassis dyno testing to obtain first verification for PM.

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

1. Task #1, Third round of market study for market assessment in Texas is accomplished.
2. Task #3, Design of retrofit system for two engine families. EGR System design in progress.
3. Task #4, Construction of EGR for the CAT 4406 is done.
4. Task #5, EGR test mapping is complete.
5. Task #8, On-the-road emission testing and durabilities, in progress.
6. Task #11, Verification with CARB is in progress.

Section II: Problems/Solutions

Problem(s) Identified *(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)*	*None during this period* Selection of a host truck/bus owner in a locality where chassis dynamoter testing can be done in a lab acceptable to CARB is looming as a challenge that potentially could delay the verification process.
Proposed Solution(s) *(Please report any possible solution(s) to the problem(s) that were considered/encountered)*	*Currently, we are proceeding 3with two alternative to provide redundancy:* *1) Obtain durabilities on-the-road and emission lab testing in Houston, Texas at the University of Houston provided that this subject lab is recognized by CARB in a timely manner.* *2) Install two or more units in Los Angeles (LA) and work with CARB to have lab testing in down-town LA, or other labs acceptable to CARB in California.*
Action(s) Conducted and Results *(Please describe the action(s) taken to resolve the problem(s) and its effect)*	*1) Contacts and efforts have been initiated with both alternatives* *2) CARB would like to see the first round of test results from outside lab for PM only before we can negotiate with them the PM & NOX verification tests. We are proceeding in this direction to have formal testing for PM only in Michigan or Ohio labs. The PM & NOX lab testing will be done in Houston or L.A.*

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. Conduct independent emission tests for PM only at Lotus Testing Lab in Ann Arbor, Michigan.
2. Complete setting up the EGR testing rig for the CAT 3406 series 14.6L engine.
3. Begin EGR mapping.
4. Ship converters to LA, Houston, and Dallas.
5. Conduct emission testing for PM verification.

R. D. Kamme

Authorized Project Representative's Signature

Date: *3/9/2005*

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.*