NTRD Program Disclaimers

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9/15/05

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

Contract Number: 582-5-65591-0011

Grantee: Cummins West, Inc. dba Cleaire Advanced Emission Controls, LLC

Date Submitted: September 9, 2005

Report for the **Monthly** period:

Starting Date August 1, 2005 Ending Date August 31, 2005

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

- Monitored operations of the Lonestar unit installed a on a Department of Sanitation New York (DSNY) refuse truck. The customer is very satisfied and plans to install additional Lonestar units.
- Continued discussions with CARB on the verification application and test plan. See the Problems/Solutions section of this report for details.

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

Article 2, Task 3: Emission Verification of Lonestar Systems

Section II: Problems/Solutions

Problem(s) Identified *(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)*	CARB has expressed concern that there may be byproduct emissions from the Lonestar due to the copper in the NOx reducing catalyst (NRC). Although the Lonestar's NRC is identical to the Longview's NRC which has been verified, CARB believes the other differences between the products may impact this issue. Additional testing and measuring specific hydrocarbon and other species may be required to satisfy CARB. These potentially substantial costs were not included in Cleaire's budget for the NTRD project.
Proposed Solution(s) *(Please report any possible solution(s) to the problem(s) that were considered/encountered)*	In the verification application which was submitted to CARB and a copy given to TCEQ, Cleaire provided a detailed engineering argument on the unlikelihood of byproduct formation due to the copper in the catalyst matrix. However, Cleaire recognizes that additional testing may be required to satisfy CARB. Cleaire proposes to the TCEQ that if such tests are required, they be paid from the approved budget. If this change results in fewer total engine makes and models being tested, that is a consequence Cleaire can agree to as long as it is acceptable to the TCEQ.
Action(s) Conducted and Results *(Please describe the action(s) taken to resolve the problem(s) and its effect)*	Cleaire is currently in discussions with the TCEQ to extend the contract, add off-road engine families to the scope of work and clarify the consequences of partial performance. Specifically, Cleaire has asked TCEQ that if all the grant funds are spent on TCEQ-approved verification testing, but not all the engine families are able to be tested before the money runs out, is that result acceptable to the TCEQ.

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 September 2005:

- Receive concurrence from CARB for Cleaire's test plan.
- Monitor the Lonestar system operating on a DSNY refuse truck.
- Work with TCEQ on a revised contract, project schedule and the other items in the August 17, 2005 contract amendment request.
- Install Lonestar durability units on off-road vehicles.

William D. Bindley Date: 9/8/05

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.*