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OFFICE OF ENVIRONMENTAL
POLICY, ANALYSIS & ASSESSMENT
JAN 11 2005

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

RECEIVED

Contract Number: 582-5-65591-0011

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

Date Submitted: January 10, 2005

Report for the **Monthly** period:

Starting Date December 1, 2004

Ending Date December 31, 2004

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

- Purchased components to fabricate Lonestar units for durability aging and initial testing at Southwest Research Institute (SwRI).

Some refinement to the bill of materials may occur as we progress through the product development process.

As was reported previously, the main challenge to this goal is the fact that the final evaluation of the emission components and system configuration cannot be definitively determined until after the durability mileage has been accumulated (typically 6+ months) and formal verification testing has been performed.

- Completed a rough draft of the CARB verification application including proposed test methods.
- Purchased an NR6/Tier 1 engine from a major off-road engine manufacturer to use at SwRI for the off-road verification testing.
- Had numerous discussions with SwRI on the scope of work for initial Lonestar testing.

Getting preliminary test data for the engine baseline and prototype Lonestar is a near critical-path item.

Cleaire received a preliminary proposal from SwRI for the initial set of tests. Cleaire is working with Southwest to finalize the scope of work and get a formal contract.

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

Article 1.1.3. and Article 2, Task 1: Construction of Lonestar systems.

Article 2, Task 2: Verification Test Plan Approval

Article 2, Task 3: Emission Verification of Lonestar Systems

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><i>None at this time</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>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)*

Goals for January 2005:

- Sign a contract with SwRI in order to reserve test cell time for early 2005.
- Perform preliminary performance testing at the California Truck Testing Services (CaTTS) for the prototype Lonestar system.
- Fabricate Lonestar units for durability aging and initial testing at SwRI.
- Purchase truck and bus engines to be used for the verification testing.
- Finalize the pre-data verification application and submit to CARB.

The following goals are ongoing:

- Identify host vehicles and contact owners' in preparation for installing test units for durability mileage accumulation.
- Continue Cleaire's formal product development processes for the Lonestar.

William D. Binder

Date: _____

1/10/05

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.*