

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

Contract Number: 582-11-11143-3264
Grantee: Engine, Fuel, and Emissions Engineering, Inc.
Report for the Monthly period: August 1, 2011 to November 30, 2011 **Date Submitted:** December 13, 2011

Section I. Accomplishments

Provide a bulleted list of project accomplishments as well as a description of their importance to the project.

- Continued drafting of applications for verification of Compact SCR technology in generators and revisions to draft verification plan for Compact SCR in marine propulsion applications.
- Continued to monitor Compact SCR installations in ferryboats.
- Technical refinements to RAVEM system to provide full compliance with 40 CFR 89 test procedure.

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

- The above activities pertain to Task 1: Finalize Validation Test Plan and Revise Verification Plan

Section II: Problems/Solutions

Problem(s) Identified: Report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project

- a) Cash flow issues due to 2/3 reduction in sales from 2009 to 2010 (continuing until April 2011) prevented us from making the required advance payments to U.C. Riverside and the independent expert for their services.
- b) To date, we have experienced no technical issues that would put the success of the project in question.

Proposed Solution(s): Report any possible solution(s) to the problem(s) that were considered/encountered

- a) Cash flow issues are finally being resolved with receipt December 10, 2011, of California Energy Commission payments originally expected in September. We expect to pay U.C. Riverside by January 15, 2012, and to be able to schedule the verification testing in February 2012.

Action(s) Conducted and Results: Describe the action(s) taken to resolve the problem(s) and its effect

- a) See above.

Section III. Goals and Issues for Succeeding Period:

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

- Complete and submit draft verification plan for Compact SCR in marine propulsion engines
- Complete and submit draft verification plan for Compact SCR in generator engines
- Revise and resubmit test plan for correlation testing of RAVEM vs. U.C. Riverside
- Make required \$9K up-front payment to U.C. Riverside to initiate testing.

Date: December 13, 2011

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.*