

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

**Contract Number:** 582-11-13470-2019

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**Grantee:** GE Transportation

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**Report for the Monthly period:** November 1, 2012 – November 30, 2012      **Date Submitted:** December 6, 2012

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**Section I. Accomplishments**

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

- Task 2.5.1.1: For the month of November 2012, the development team focused on the United States Environmental Protection Agency (EPA) Emissions Certification of the 900 rotations-per-minute (rpm), 2035 horsepower (hp) engine rating. The first half of the month was spent installing and emissions testing the 900 rpm assembly with the new software release with the second half focusing on certification testing. The certification testing was completed successfully just before Thanksgiving.
- Task 2.5.3: All performance design reviews have been completed. There is only one action item, from the design review, remaining which is a back to back verification test in the Grove City test cells scheduled for January 2012. As for component level design review, it remains open and has been delayed due to late analysis work on the turbo mounting design. The goal is to complete this activity by the end of the year 2012.

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

*Task 2.5.1.1: All EPA certification testing will be completed using the 6L250 test engine and be completed in the engine test cells in Erie, PA*

*Task 2.5.3: The PERFORMING PARTY will complete all necessary design review closure and design tasks to finalize the Tier 3 system component designs per internal processes.*

**Section II: Problems/Solutions**

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

- The 900 rpm assembly did not pass EPA Tier 3 emission standards with the initial software release, so additional testing was required and the software had to be modified and re-released with a new fueling recipe. Once the 900 rpm assembly was Tier 3 compliant, we prepared for the Certification Test. There was a delay of three weeks in waiting for the lab to be ready for this test, as new test equipment had to be ordered.

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

- The new software with modifications to the fueling recipe was developed in order to meet the Tier 3 emission standards. The 900 rpm rating is now Tier 3 compliant.

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

- No further action was required.

### **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*

- With the EPA Tier 3 certification data collected for the 6L250, the final step before submission to the EPA is to finish the 900 and 1050 rpm certification data review, which are scheduled for completion by December 7, 2012. The classification society American Bureau of Shipping, ABS, submissions will be prepared in the following month for the new certificate. The 8-cylinder 8L250 prototype Tier 3 engine is also en-route to the Erie test cells for installation. This will begin sometime during the week of December 12, 2012.

Date: December 6, 2012

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*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.*