

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

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

**Grantee:** GE Transportation

**Report for the Monthly period:** December 1, 2011 – December 31, 2011 **Date Submitted:** January 10, 2012

### **Section I. Accomplishments**

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

- Task 2.6.1: All components have been procured and forwarded to the contract assembler for the 8L250 prototype engine. The second turbocharger purchase order has been placed for the 8L250 engine.

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

- (2.6.1) The PERFORMING PARTY will procure all required Tier 3 package components to include but not limited to: turbocharger, cam shafts, and power assembly components (pistons, piston rings, etc.)

### **Section II: Problems/Solutions**

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

- a) Due to a pressing issue at the test lab for its availability, the 6L250 engine testing has been pushed out for roughly (5) weeks. We are delaying Task 3 for the performance test. Although this delay was not anticipated in the project plan, the team feels that this delay will not hinder the existing test and certification schedule.
- b) There has also been a delay with procuring the analysis work with the engineering firm which has caused a similar delay for the design analysis of the production ready version of the turbo shelf. A fabricated version has been developed that will allow testing until the cast prototype is available. Once again, this delay was not anticipated in the project plan but the team feels that this will not hinder the existing test and certification schedule.

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

- a) The project plan has been updated to reflect the bump in the schedule and all affected design activities have been adjusted to accommodate.
- b) An agreement has been reached with the engineering service provider for the cast turbo shelf and work is currently underway. The fabricated version has been installed and will ensure that the testing schedule remains on track.

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

- a) Additional resources will be added to address the bump in the test schedule once testing begins.
- b) As for the turbo-shelf engineered services, the work-scope has been realigned to address the critical analysis only. All other analysis work has been transferred to the GE design team for completion.

### **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*

- The goals for the coming period are to complete the successful matching of the turbocharger package with assistance from the turbocharger supplier and to begin full scale functional testing on the 6L250. We will also begin building the 8L250 Prototype engine at the packager.
- The only notable challenge for the next (2) reporting periods will be optimizing available time of the lab personnel to make up for bump in the Erie lab schedule. Also, we must closely pulse the design and analysis efforts of the production cast turbo shelf development. Strict deadlines for design processes must be maintained to ensure the on-time delivery of the first prototype for testing on the 8L250 prototype engine.

*Date:* 1/10/12

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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.*