

**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:** February 1, 2012 – February 29, 2012      **Date Submitted:** March 12, 2012

**Section I. Accomplishments**

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

- 2.1.1.1. Design work for the production version of the 6L250 and 8L250 turbo shelf mounts is underway with design work being completed by GE engineering team and engineering analysis work being conducted by FEV.

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

2.1.1.1. The PERFORMING PARTY will develop and produce prototype assemblies to mount and operate a Tier 3 turbocharger on the existing L250 engine platform. This design work will include computer analysis and structural testing of the prototype mounting components.

**Section II: Problems/Solutions**

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

- a) With the unexpected delays with gaining access to the test facilities for the 6L250, we have to modify the anticipated certification date for the three engine ratings to 8/13/2012. Although this is well within the window of the existing project completion date, this will affect the testing and certification of the final 8L250 test engine. A delay of two months is possible for the project completion. We are exploring all options to minimize this impact.

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

The performance team is working on a contingency to see if we can run certain test protocols in parallel as opposed to in series as originally intended. The project plan has been updated to reflect the push in the schedule and all affected design activities have been adjusted to accommodate.

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

- a) Currently, the only action is to actively monitor the testing process to see if we can condense the anticipated test time and to look for opportunities to reduce set-up times between testing.

### **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*

- As with the last reporting period, the goal for the coming period is 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 design and analysis efforts of the production cast turbo shelf development are underway. Design is almost complete strict deadlines for tollgate processes must be maintained to ensure the on-time delivery of the first prototype for testing on the 8L250 prototype engine.

*Date:* 3/12/2012

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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.*