

**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: January 1, 2012 – January 31, 2012 **Date Submitted:** February 10, 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 turbocharger shelf mounts is underway with design work being completed. In parallel to this effort, the engineering analysis and modeling will also be completed.

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) Due to the engine test lab availability, the 6L250 engine testing has been pushed out for roughly (4) weeks. 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. However, if further delay is introduced, the team feels we will need to discuss a schedule modification with the TCEQ. Current engine testing start date is the week of February 20, 2012.

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 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) Additional resources will be added to address the push in the test schedule once testing begins.

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 goals for the coming period are to complete the successful matching of the turbocharger package and to begin full scale functional testing on the 6L250 the week of February, 20, 2012. We will also begin building the 8L250 prototype engine at the packager.

- As with the last reporting period, the only notable challenge for the next two reporting periods will be optimizing available time of the lab personnel to make up for the delay in the test lab schedule. Also, we must closely pulse the design and analysis efforts of the production cast turbo shelf development. Strict deadlines for the design review processes must be maintained to ensure the on-time delivery of the first prototype for testing on the 8L250 prototype engine.

Date: 2/10/2012

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.*