

**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: July 1, 2011 – July 31, 2011 **Date Submitted:** 8/10/11

Section I. Accomplishments

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

- a) (2.1.2) Design of reduced lube oil consumption package and integration plan.
- b) (2.2.1) Purchase order placed for (1) TCR16 Turbocharger for first prototype 6L250 Tier 3 Engine.
- c) (2.2.1) Purchase order placed with supplier for test turbocharger mounting design and modeling as well as assembly of the T3 prototype 6L250 test engine.
- d) (2.1.1/ 2.1.3) Turbocharger mounting design underway with associated computer aided system modeling
- e) (2.2.1) Orders placed for all engine hardware
- f) (2.2.2.1) Secured base (prototype) engine for rebuild and send to supplier for teardown.
- g) (2.3.1.1a) The anticipated scheduled test cell date for prototype testing has been determined to be FW44 by the Engine Test Team.
- h) (2.1.4) "Commercial Product Requirement Review" was conducted on 7-26-11 by GE Transportation Performance Engineering.

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

- a) Above item covered in Task 1: Tier 3 System Design under Section 2.1.2: Reduced Lube Oil Consumption Package and Integration.
- b) Above item covered in Task 2: Rebuild (1) 6L250 Prototype Engine under section 2.2.1: Procure Components & Services.
- c) Above item covered in Task 2: Rebuild (1) 6L250 Prototype Engine under section 2.2.1: Procure Components & Services.
- d) Above item covered in Task 1: Tier 3 System Design under Section 2.1.1: Turbocharger Mounting Design. Portion of work also covered under Section 2.1.3 Computer Aided System Modeling.
- e) Above item covered in Task 2: Rebuild (1) 6L250 Prototype Engine under section 2.2.1: Procure Components & Services.
- f) Above item covered in Task 2: Rebuild (1) 6L250 Prototype Engine under section 2.2.2: Rebuild Existing 6L250 Prototype to T3 Specs under sub-section 2.2.2.1: Obtain Base Test Engine.

- g) Above item covered in Task 3: Performance Test 6L250 Prototype Engine under Section 2.3.1 Performance Testing on 6L250 under sub-task 2.3.1.1a: Obtain Test Time/Schedule Assignment (Erie)
- h) Above item covered in Task 1: Tier 3 System Design under Section 2.1.4: Component and System Level Design Reviews.

Section II: Problems/Solutions

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

- a) To date, no problems have been identified that would jeopardize any of the deliverables/dates as outlined in the contract. Lead-time on certain sub-components is the only potential issue which, to date, has not changed the current plan.

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

- a) N/A

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

- a) N/A

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

During the August 2011 reporting period, the goals of the GE Marine T3 Inline Team are:

- To continue to work towards the completion of (2.1.3): Computer Aided System Modeling.
- To continue to work towards the procurement of needed components under sub-section (2.2.1): Procure Components & Services.
- To be well underway under Task 2, sub-section (2.2.2.2): Secure Design/Rebuild

The only potential challenges stem from the procurement of certain long-lead time components which may modify our test plan if we can't test all components during the 6L250 test run. Anything that misses the 6L250 build schedule will be validated during the 8L250 test run.

Date: 8/10/11

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.*