

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

**Contract Number:** 582-11-13473-2019  
**Grantee:** Robert Bosch LLC  
**Report for the Monthly period:** February 2011 **Date Submitted:** March 10, 2012

**Section I. Accomplishments**

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

- Engine (KTA 19-M3/4 from Curry Marine) selection for dyno testing at FEV
  - Selected engine was tested on the sellers test bench to compare the performance (load curve) with Cummins specification sheet
  - Some minor maintenance was done by Curry marine
- Assembling of complete aftertreatment system in sample shop including frame, piping, and brackets with all the necessary thermocouples in the substrates
- Specifications and requirements for urea tank determined and discussed w/supplier
- Electronic equipment (wiring, dosing system, connectors, control unit) was prepared and sent to the testing facilities

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

- Phase 2 – Task 1: System Installation and Baseline Measurements
  - 1.1 Procurement of all aftertreatment components
  - 1.2 Engine selection and purchase
  - 1.3 Install Engine w/o aftertreatment system on engine test bed
  - 1.4 Baseline raw emission measurement w/o aftertreatment system

## **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 unexpectedly longer lead-time needed for procuring some aftertreatment components, the start of dyno testing was postponed to mid of March 2012.

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

- a) -

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

- 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*

1. Installation and start up of dyno engine on the test bed including baseline measurements
2. Shipping of aftertreatment system to test facilities

Date: 3/12/2012

---

*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.*