

**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 _____ **Date** _____
Monthly period: March 2012 **Submitted:** April 10, 2012

Section I. Accomplishments

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

- Baseline Measurements on Engine (KTA 19-M3/4 from Curry Marine) at FEV:
 - Selected engine was shipped to engine test bench
 - Engine was mounted on the test bench and connected to dyno
 - Engine was equipped with all relevant sensors (engine speed, boost pressure and temperature, etc.)
 - Electronic equipment (wiring, dosing system, connectors, control unit) was also installed on the test bench
 - First full load curve was performed with this engine on test bench (first part of Baseline Measurement)
- Assembling of complete aftertreatment system in sample shop:
 - Assembled with necessary thermocouples in the substrates
 - Aftertreatment system is shipped to test bench at FEV
- Urea tank was ordered at selected tank supplier

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:
 - 1.3 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) None

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

a) None

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

a) None

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. Completing engine map and baseline measurements (measuring NO_x, soot, carbon monoxide, hydrocarbons, etc.)
2. installation of aftertreatment system on test bench
3. calibration and fundamental investigations of after treatment system

Date: April 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.*