

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

**Contract Number:** 582-11-13469-2019

**Grantee:** QuantLogic Corporation

**Report for the Monthly period:** May 1, 2013 to May 31, 2013      **Date Submitted:** June 10, 2013

**Section I. Accomplishments**

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

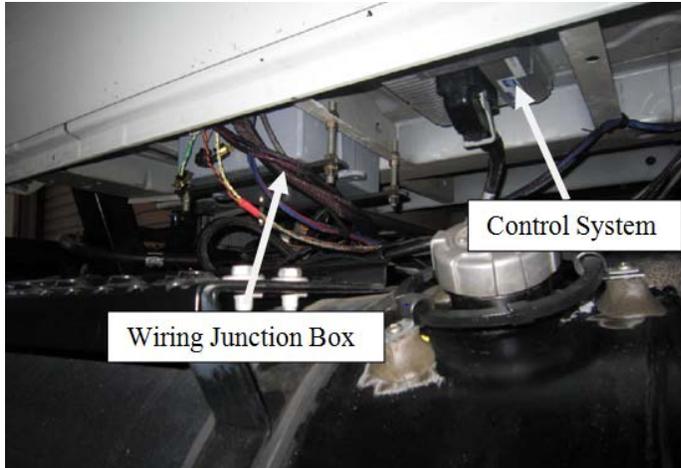
**Task 6**

- 100% completed.
- Completed vehicle retrofit of the dual loop exhaust gas recirculation (EGR) system as shown in Figure 1.



**Figure 1 Completed vehicle retrofit with dual-loop EGR system and DPF**

- The diesel oxidation catalyst (DOC), diesel particulate filter (DPF), and low pressure loop EGR were installed under the chassis.
- Figure 2 shows the wiring junction box for connecting various sensors, actuators as well as power to the control system. The wiring junction box and control system were installed under the cabin. The control system was activated by the ignition signal from the truck.



**Figure 2 Installation of wiring junction box and control system under cabin**

- After retrofitting was completed, road tests of the vehicle were conducted on local and highway conditions. Figure 3 shows the road test of the retrofitted test vehicle. The test demonstrated the design of the retrofit is robust and practical.



**Figure 3 Road test of retrofitted vehicle**

### **Task 7**

- 100% complete.
- The draft final report is complete which summarized all major achievements from the start of the project in the past two years. Data was prepared for final report.

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

The authorized tasks are related to:

*“Task 6: Vehicle installation of retrofit*

*2.6. Task Statement: The PERFORMING PARTY will retrofit the target vehicle with the dual loop EGR system for functionality test and initial usage accumulation.*

*2.6.1. The PERFORMING PARTY will uninstall the prototype retrofit dual loop EGR from the test engine and install it on the target vehicle.*

*2.6.2. The PERFORMING PARTY will complete a preliminary vehicle functionality test and begin the durability demonstration and usage accumulation “*

and

*“Task 7: Reporting”.*

## **Section II: Problems/Solutions**

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

- a) Project was completed. No major issues anticipated.

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

- a) NA

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

- a) NA

## **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.*

- Finalized the final report.

Date: 6/10/2013

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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.