

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

|                                       |                         |                        |          |
|---------------------------------------|-------------------------|------------------------|----------|
| <b>Contract Number:</b>               | 582-11-11142-3264       |                        |          |
| <b>Grantee:</b>                       | Roush Enterprises, Inc. |                        |          |
| <b>Report for the Monthly period:</b> | March 2011              | <b>Date Submitted:</b> | 4-8-2011 |

**Section I. Accomplishments**

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

- Completed calibration work and released the emissions and diagnostic calibration for in-vehicle testing.
- Tested the two confirmation prototype vehicles in a cold climate such as Minnesota. Testing included: cold starts and drive/loading, hot fuel handling, spark control or octane sensitivity, and knock sensor calibration.
- Released the final production calibration based on the calibration testing.
- Reflashed the calibration on the confirmation prototype with the final production calibration
- Completed the final engineering hardware and calibration sign off.
- Conducted emissions testing on the confirmation prototype vehicles. Testing included standard ambient urban emissions cycle (FTP75), highway fuel economy test cycle (HWFET), and prep cycles to pre-condition the vehicle for testing (FTP74).

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

Task 5: Calibration and emissions testing for confirmation prototype vehicles

**Section II: Problems/Solutions**

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

No issues arose during the month of March related to the completion of the task 5 deliverable.

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

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

**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*

- Complete NTRD Deliverable Task Report 4, 5 & 6

*Date: 4-8-2011*

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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.*