

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

**Contract Number:** 582-11-13515-2019

**Grantee:** Nett Technologies Inc. (Nett)

**Report for the** **Date** January 07,  
**Monthly period:** December 1, 2012 to December 31, 2012 **Submitted:** 2013

**Section I. Accomplishments**

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

- United States Environmental Protection Agency (EPA) application progress follow-up continues
- Sets of total of six diesel oxidation catalysts (DOC) to be positioned upstream of selective catalytic reduction (SCR) system have been designed, fabricated, and testing started to choose best performing for durability purposes
- Environment Canada testing confirmed and tentative testing date agreed and it is still valid

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

- Task 1

## Section II: Problems/Solutions

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

- a) EPA communicated they were not able to provide proper assessment of our application however they are fully aware of our timelines and promised to meet project deadline.
- b) Testing of DOCs has been conducted with goal of choosing the best performing technology. There is no clear winner in such comparison testing; however there are two additional configurations are being tested. Tests objective is to optimize the system to its best performance during low temperature operating modes of the engine. No negative effect on the progress of the project.

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

- a) Follow-up on the EPA approval progress needs to be intensified as the 1000 hour durability testing should not be delayed beyond mid of January 2013. Even though the date has been moved by one month, we believe the project still will be accomplished within its timeline. Environment Canada has been notified about possible delay and is willing to be flexible on their schedule. System is ready at 1 week notice from EPA to start 1000 durability hours.
- b) SCR system technology configuration has been identified. Testing of DOC further enhancing NO<sub>x</sub> performance started.

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

- a) EPA is fully aware of the project urgency and is working on technical/resource related issues on their side. Regular communication is maintained.
- b) Taking into account EPA delays, the system optimization is being conducted to choose the best technology which includes DOC NO<sub>x</sub> performance enhancer.

## 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*

- To obtain EPA Verification test approval
- To finalize durability technology
- To start durability testing

Date: 1/7/2013

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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.*