

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

Contract Number: 582-11-13515-2019

Grantee: Nett Technologies

Report for the Monthly period: July 1, 2011 - July 31, 2011 **Date Submitted:** August 12, 2011

Section I. Accomplishments

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

- Review of EPA & TERC regulations for stationary engines
- Research on NO_x credit mechanisms
- Preparation of draft test verification plan
- Preliminary selection of generator-set for demonstration test

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) The United States Environmental Protection Agency (EPA) protocol for NO_x Control Technologies for Stationary Combustion Sources has strict requirements for quality assurance and quality control (QA/QC) that must be adhered to. This resulted in minor delay in drafting test verification plan to be submitted to EPA. We estimate that test verification plan is now 70% complete.
- b) Review of existing regulations for stationary diesel engines in the United States revealed that regulations can be state and even county dependent. Thus, it can be challenging to select the most suitable application and requirements for our demonstration.

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

- a) The test verification plans that Nett Technologies has used in the past for other verifications will incorporate these new QA/QC requirements.
- b) Continue to review regulations in order to select most suitable application.

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

- a) Nett Technologies will spend more time than originally estimated for test verification plan. Test verification plan will be finalized at the end of August.
- b) The overall objective is to reduce NO_x emissions in the most cost effective manner so research was done on NO_x trading mechanisms in Texas. Diesel engines around 600 HP that run long hours in severe ozone non-attainment areas are the most suitable targets.

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

- Main goal for this coming period is to finalize the Test Verification Plan and submit it to EPA for their approval.
- Secondary goal is to finalize selection of generator-set as well as design criteria requirements such as NO_x, Particulate Matter, and CO conversion.

Date: August 10, 2011

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.*