

NTRD Program Disclaimers

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

Contract Number: _____508-5-70807-0016_____

Grantee: _____Texas A&M Research Foundation_____

Date Submitted: _____August 4, 2006_____

Report for the **Monthly** period: July 2006

Starting Date _____July 22, 2005_____

Ending Date _____August 31, 2006_____

Section I. Accomplishments *(Please provide a bulleted list of project accomplishments as well as a description of their importance to the project.)*

- operated most analyzers and meteorology without power outages
- regular calibration of CO analyzer with zero air and span gas
- updated web site at least once a week, also accessible through TAMU Dptm. Atmospheric Sciences homepage
- updated data analysis routine using R

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

Article 2. Scope of Work

Task 1 – Construction of test site and infrastructure development

Including 2.1.6 and 2.1.8

Task 2 – Commission the site, Quality-assure data and maintain site

Including 2.2.1

Section II: Problems/Solutions

<p>Problem(s) Identified</p> <p><i>(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)</i></p>	<p><i>Still waiting for our own Dasibi ozone to be returned from Tanabyte Inc., California, where it was send for refurbishing</i></p> <p><i>high pressure alarm turned out to be pump membrane failure</i></p> <p><i>ozone analyzer out of internal span, i.e. does not read expected ozone mixing ratio</i></p>
<p>Proposed Solution(s)</p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</i></p>	<p><i>order replacement membranes</i></p> <p><i>have to contact Teledyne, as we do not know whether the internal ozone production or the actual ozone measurement is in error</i></p> <p><i>need to run own Dasibi instrument alongside "old" analyzer for one week</i></p>
<p>Action(s) Conducted and Results</p> <p><i>(Please describe the action(s) taken to resolve the problem(s) and its effect)</i></p>	<p><i>ordered pump repair kits from TEI</i></p> <p><i>had to reorder repair kit as it was taken by unauthorized person and is lost; now four weeks out of NOx measurements, and will have repair kit send overnight</i></p> <p><i>Teledyne confirmed that the analyzer's internal zero/span option (IZS) is likely in error, not the actual ozone measurement</i></p>

Section III. **Goals and Issues for Succeeding Period:** *(Please 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)*

- replace pump membrane asap upon arrival of repair kit
- calibrate ozone analyzer against our own Dasibi instrument
- update web page daily around noontime
- calibrate NO_y catalyst biweekly using NO₂ standard



Authorized Project Representative's Signature

Date: 4-Aug 2006

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.*