

NTRD Program Disclaimers

1. Disclaimer of Endorsement:

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10/31/05

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

Contract Number: 582-5-65591-0010Grantee: Eaton CorporationDate Submitted: October 27, 2005Report for the **Monthly** period:Starting Date September 1, 2005 Ending Date September 30, 2005

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

1. Accomplishment: Previous period's goal #1 (Continue vehicle durability test) – The vehicle durability test is going well. Several minor problems have surfaced and been resolved. The test is yielding good information on design weaknesses and areas to improve.
Importance: The results of the durability test will give valuable insight into necessary design modifications for the production intent design.
2. Accomplishment: Previous period's goal #2 Continuing work on the hazard analysis and component FMEAs. There is now good momentum on these activities and rapid progress is being made.
Importance: Tasks will help assure a product designed with high reliability.
3. Accomplishment: Previous period's goal #3 Continuing detailed drawings of prototype parts.
Importance: Fundamental design work of the system components.
4. Accomplishment: Previous period's goal #4 (Begin physical layout of new system architecture). – CAD models of the HLA hardware and vehicle were used to look for the best way to install the new HLA system in a truck. Some promising configurations were identified. More detail on fluid connections needs to be added in order to make firm design decisions.
Importance: Needed to insure good functionality from a vehicle perspective.

Indicate which part of the Scope of Work, the above accomplishments are related to:

1. SOW 2.1.3.1
2. SOW 2.1.3.1
3. SOW 2.1.4
4. SOW 2.1.4

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>Proposed Solution(s)</p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</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>	

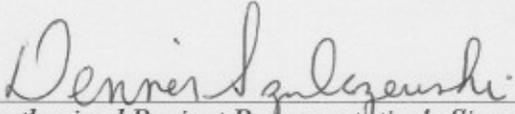
Section III. Goals and Issues for Succeeding Period: *(Please provide a brief description of the goal(s) you hope to realize in the coming period and identify any notable challenges that can be foreseen)*

GOALS:

1. Continue vehicle durability test.
2. Continue work on the hazard analysis and component FMEAs.
3. Add detail to the vehicle packaging study of the new system.

Section IV. Commercialization Progress:

Telephone and in-person interviews were done with more than 20 refuse truck end users during September. This "voice of the customer" (VOC) activity is in support of the upcoming gate review in Eaton's PROLaunch phase-gated product development system. There is a broad interest in the use of hydraulic hybrid technology in solid waste compaction trucks. The vast majority of individuals from which we gathered VOC were willing to participate in a program to gather duty (drive) cycle data and wanted to procure a vehicle equipped with the HLA system. The VOC that we collected corroborates and extends that which we have gathered in our previous conversations with end users and OEMs.


Authorized Project Representative's Signature

Date: 10/26/05

NOTE: *Please attach any additional information that you feel should be a part of your report or that may be required to meet the deliverables requirement for tasks completed during this reporting period.*