

## **NTRD Program Disclaimers**

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

Contract Number: \_\_582-5-70807-0011 \_\_\_\_

Grantee: \_\_Rolling Frito Lay Sales, LP\_\_\_\_\_

Date Submitted: \_\_October 4, 2005\_\_\_\_\_

Report for the **Monthly** period:

Starting Date \_\_September 1, 2005\_\_\_\_\_ Ending Date \_\_September 31, 2005\_\_\_\_

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

- **Updated Integrated Project Timeline** – The projected timeline has been continuously updated to reflect progress against objectives.
- **Contracts/Purchase Orders** –
  - **Azure Dynamics** –All long lead items have been ordered from sub-suppliers. The base vehicle has been delivered to Azure's facility, and engineering for integration of the hybrid drive components is underway. A detailed timeline with all phases of development and major milestones is being assembled; a project review is planned at Azure for November.
  - **LopezGarcia Group** - The process of getting paperwork in place (including confidentiality agreement, contract/services description, Terms & Conditions document, proof of insurance, etc.) is complete, and a purchase Order for environmental services has been issued. The LG Group scope includes emissions equipment specification and purchase, and data collection, analysis, and reporting. A kick-off meeting was held on Sept 08 to meet the project team, go through objectives and scope, next steps, and potential issues related to the project. LG Group's first task is to perform a market survey, define specifications, identify and recommend the emissions monitoring and GPS system that the vehicles will carry. LG was given the requirement that the GPS/engine diagnostics system would provide live, real time location, vehicle speed, and MOG as well as any other critical engine and driveline performance measures. In addition, the system would be able to accept outside signals from the emissions equipment and transfer them with the other vehicle data.
  - **Eaton/International** - TCEQ has been approached concerning a proposed change to the contract wording describing suppliers and integration of the hybrid drive components. A draft of the proposed change has been generated and will be sent to TCEQ as soon as a formal quotation is received from International Corp. The overall project budget is expected to stay the same, with expenditures moving from Eaton's to International's area. Some difficulty is being experienced in delivering the base chassis to International. Workhorse Custom Chassis was recently acquired by International Corp, and communication between the Workhorse sales and leadership personnel has been fragmented of late. Some confusion exists as to existence of a formal order from Frito-Lay and final pricing for the chassis from Workhorse. Purchase of the base chassis and truck body is funded from standing available capital within Frito-Lay's Fleet Capability group. International is still confident that they can meet the mid-April timing target for having a truck ready to test. The next progress meeting is planned at International's site in Fort Wayne, IN on 10/11/05.

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

The above activities are directly related to Article 2, Scope of Work, Task 1: Development and Delivery of Hybrid Vehicles, specifically sections 2.1.1 and 2.1.2.

Section II: Problems/Solutions

<p><b>Problem(s) Identified</b></p> <p><i>(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)</i></p>	<p><i>International proposes to integrate the hybrid drive components rather than Eaton. This will result in learnings for future production of larger number of vehicles with International and would shorten development time and cost required for any potential future orders for wider implementation of hybrid vehicles.</i></p>
<p><b>Proposed Solution(s)</b></p> <p><i>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</i></p>	<p><i>Investigate with TCEQ what is required to amend the contract to reflect a different supplier of the comparable equipment and/or services as what was originally proposed. Send proposed changes to contract scope of work description and budget to TCEQ for consideration and approval.</i></p>
<p><b>Action(s) Conducted and Results</b></p> <p><i>(Please describe the action(s) taken to resolve the problem(s) and its effect)</i></p>	<p><i>Proposed changes to contract scope of work and budget has been drafted, but not sent to TCEQ pending receipt of formal proposal from International.</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)*

1. *Continue vehicle fabrication activities with each supplier. The Workhorse chassis will have to be delivered to International soon to stay on schedule. Frito-Lay is working with both Workhorse and International to define what agreements or formal orders are required for chassis delivery.*
2. *Market survey, specification, and recommendation of GPS and emissions monitoring equipment. LG Group's first task is underway, and a recommendation is expected in Late October.*
3. *Data analysis on current vehicle drive cycles - using GPS units to analyze current drive cycle for input into testing plans (ongoing activity). Pilot program independent of the hybrid project has activated GPS on a number of vehicles currently in use, and the data is now becoming available for analysis. Currently, the project team is finalizing the process for drawing data from the GPS database and putting the data in usable format for drive cycle analysis. Plans are to track the truck drive cycles over time for approximately one month before completing detailed analysis.*



Date: September 09, 2005

**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.*