

NTRD Program Disclaimers

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

Title: FEEDLOT BIOMASS: A REBURN FUEL FOR "MAXIMUM NO_x" REDUCTION IN COAL-FIRED POWER PLANTS

Contract Number: TCEQ Grant # 582-5-65591 0015

Grantee: Texas Engineering Experiment Station, Texas A&M University

Date Submitted: Dec 15, 2006

Report for the Monthly period:

Starting Date: Nov. 1, 2006

Ending Date: Nov. 30, 2006

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

The overall objectives of the project are i) to develop a retrofit technology of using processed low-ash feedlot biomass (FB) as reburn fuel for potential reduction of the NO_x in coal-fired power plants by 80-90% and ii) determine the possible capture of Hg for low rank coals, reduction of CO₂ and other benefits of using animal wastes (alternately known as feedlot biomass, FB) as fuels.

In previous reports, the task lists were summarized and the progress/accomplishments for each task were reported. Task reports for all tasks except i) Task 3 and ii) final report part of Task 6 were already submitted. Thus progress for Tasks 3 and 6 are reported here. The original contract start date is March 31, 2005.

Task 3: *Pilot scale test at the 500,000 BTU/hr DOE-NETL facilities to verify the small-scale test data on NO_x reduction and Hg capture and obtain optimum conditions.*

2.3. Task Statement: The pilot plant at the Combustion and Environmental Research Facility (CERF) will be used for testing LA-RM and LA-PC fuels and measuring the NO_x emissions. The PERFORMING PARTY will also obtain the optimum operating conditions and appropriate injector configuration.

Schedule: The PERFORMING PARTY shall complete this task within 25 months from NTP (or 05/01/07) of the signed Notice to Proceed Date as issued by TCEQ.

Progress to date

Task 3 and Pilot Scale Tests: The contract originally is supposed to end on Dec 31, 2006. A request was made to TCEQ to extend the date of contract to May 31, 2007 in order to conduct the pilot scale tests due to cost of prospective vendors and to file more patent applications. Recently TCEQ has approved contract extension to a later date.

Task 6: Reporting

2.6. Task statement: The PERFORMING PARTY will prepare and submit monthly detailed progress reports on the status of this project and a comprehensive final report while ensuring compliance with all TCEQ program requirements.

2.6.1. The PERFORMING PARTY will coordinate all project resources to ensure compliance with NTRD program requirements while providing deliverables on-schedule and on-budget.

2.6.2. The PERFORMING PARTY will generate monthly progress reports and a final report summarizing all aspects of the project based on data from the task completion reports, including the final emissions testing report.

2.6.3. Schedule: The PERFORMING PARTY shall submit monthly reports to TCEQ by no later than 10 days after the end of each month. The PERFORMING PARTY shall submit the final report to complete this task within 21 months from NTP (or 12/31/06) of the signed Notice to Proceed Date as issued by TCEQ.

2.6.4. Deliverables: The PERFORMING PARTY shall submit monthly progress reports with associated billing statements and a final project summary report.

Section II: Problems/Solutions

<p>Problem(s) Identified</p> <p>(Please report anticipated or unanticipated problem(s) encountered and its effect on the progress of the project)</p>	<p>Task 1: Fuel shipments for pilot scale testing has not yet been shipped (see Task 3) None Task 2: Task 3: The cost of pilot scale tests with vendor 2 is double that of vendor 1 due to larger size of facility and almost twice more than what TCEQ has allocated. None Task 4: None Task 5: None</p>
<p>Proposed Solution(s)</p> <p>(Please report any possible solution(s) to the problem(s) that were considered/encountered)</p>	<p>Task 1: see Task 3 Task 3: Request has been forwarded to TCEQ for an extension of deadline of task # 3 to May 31, 2007 (the current end date for DOE) so that both pilot scale tests can be performed and DOE funds can be used to make up for the increased cost. TCEQ had approved the extension date. Task 4: Task 5:</p>

<p>Action(s) Conducted and Results</p> <p>(Please describe the action(s) taken to resolve the problem(s) and its effect)</p>	<p>Tasks 2</p> <p>Task 3: Further negotiations are planned; a request for proposal has been prepared and will be submitted by third week of Dec.</p> <p>Task 4:</p> <p>Task 5:</p>
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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)

Next Month's Goals

Task 3: Route the call for pilot scale to prospective bidders by Dec 31, 2006

Authorized Project Representative's Signature

Date: 12/15/06

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.