

## **(6) Field Trial of a High Capacity Gas-Fired Paper Dryer**

This project builds on a pilot scale dryer project funded by the U.S. Department of Energy. From the results of that project, a preliminary and final design will be completed, a gas-fired system constructed and a field trial conducted.

Total project cost: \$1,424,850

Funding request: \$634,850

Project Lead: Minnesota Department of Commerce, State Energy Office Project

Participants: Western Michigan University; Gas Technology Institute; Boise Paper Solutions; Groupe Laperriere & Verreault; Flynn Burner, Corp.

### Patents

None.

### Presentations/Publications

There was no presentation made during the reported quarter.

There was project information included in DOE/ITP brochure "Energy Technology Solutions: Public-Private Partnership Transforming Industry".

### Progress in Past Quarter and Current Status

<u>Milestones:</u>	<u>Date</u>	<u>Status</u>
Draft full-scale GFPD design developed	12/31/04	done
Final GFPD design completed	06/30/05	done
Baseline test/auditing completed	12/31/05	done
GO/NO GO		in progress
GFPD components fabricated, purchased, assembled	12/31/05	in progress
Field trial completed	06/30/06	
Final Technical Report	08/20/06	

### The following activities were performed during the reported period:

LPI has decided not to proceed with the field trial due to economical issues caused by natural gas price increase and operating concerns (high temperature felt, bearing cooling).

- the alternative approach to demonstrate the GFPD technology was developed and revised SOW, schedule and budget were submitted to MN SEO for consideration and approval
- GL&V and FBC subcontracts were re-quoted towards to revised Work Scope
- multiple communications with project partners, papermakers and gas companies to further support the GFPD development and technology showcase

### Plans for Next Quarter

The planned activities are contingent to DOE/STAC Go/No Go decision to proceed further with modified Work Scope:

- Adjust GFPD design for the full-scale laboratory trial
- Amend existing subcontracts with GL&V and FBC
- Develop a control/measurement system for laboratory installation
- Initiate GFPD fabrication