

**(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.

**Presentations/Publications:** None.

**Progress in Past Quarter and Current Status:**

<u>Milestones:</u>	<u>Date</u>
Draft full-scale GFPD design developed	12/31/04
Final GFPD design completed	06/30/05
GFPD components fabricated, purchased, assembled	12/31/05
Baseline test/auditing completed	12/31/05
Field trial completed	06/30/06
Final Technical Report	08/20/06

The following activities were performed during the reported period:

- Sub-contractual paperwork for the design stage of project was prepared for signing by FBC, GL&V
- GTI in-house simulation of the drying section performance with GFPD presence was carried out
- Baseline/audit results (LPI drying section) were processed and analyzed
- GFPD location within the drying section was selected per audit and simulation results and WMU curl study
- Field Test Agreement was revised per LPI comments and forwarded to project partners' review
- License Agreement was drafted up and sent to GL&V for consideration and comments
- Full-scale GFPD was designed and ready for final review by project partners (scheduled for 7-13-05).

**Plans for Next Quarter:**

- Finalize the entire GFPD system design per GTI/GL&V/FBC/WMU technical review meeting comments
- Develop a detailed timeline schedule to address unresolved issues
- Execute all the paperwork for supply and fabrication work
- Finalize the Field Trial Agreement
- Provide necessary engineering support to GL&V and FBC
- Draft a measurement/data collection system and Field Trial plan/matrix for partners' review