

Grant Round Application for LRC-LXX (70)

**TECHNICAL ADVISOR'S SUMMARY & RECOMMENDATION
LRC-LXX (70) – A**

“Agglomeration and Ash Deposition Management in Fluidized Bed Combustion”

Submitted by: Microbeam Technologies, Inc.; Request for: \$50,000; Total Project Costs: \$300,000;
Project Manager: Margaret Laumb; Project Duration: 24 Months

Description of the Project: This program is designed to develop a computer-based management tool that can aid in minimizing ash-related problems (bed agglomeration and ash deposition) and increase efficiency and reliability of lignite coal-, biomass-, coal-, and petroleum coke-fired fluidized bed combustion systems. The tool will include the effects of fuel impurities, bed materials, additives, and operating conditions.

Technical Advisor's Recommendation: Fund

Fund contingent on:

- a. Details of tool development methodology provided to and accepted by the Technical Advisor.
- b. Matching funding received from all the parties or revised scope of work focused on lignite; received and approved by Technical Advisor.

Conflict of Interest: Montana-Dakota Utilities Co.