

Grant Round Application for LRC LXIX (69)

**TECHNICAL ADVISOR RECOMMENDATION
LRC-LXIX (69) – C**

**“WRITECoal™ Gasification Process for Low Rank Coals for Improved Integrated Gasification
Combined Cycle with Carbon Capture: Phase II- Pilot-scale Demonstration”**

Submitted by: Montana Dakota Utilities Co. (MDU) and Western Research Institute (WRI)

Request for: \$549,500; Total Project Costs; \$1,970,922

Description of the Project: The project will demonstrate at a 1-2 MWth pilot-scale the WRI’s WRITECoal™ gasification process for IGCC with carbon capture, fuel cell applications, and chemicals production, to identify engineering and scale up issues and to estimate the cost of WRITECoal™ Gasification process for low rank coal including lignite coal.

Technical Advisor’s Recommendation: Fund

Fund subject to the following:

- a. Technical summary identifying accomplishments of Phase I accepted by the Technical Advisor.
- b. Program Management Plan including milestone chart, schedule, financial plan, working groups, organization and communication charts, test matrix and specific performance criteria Submitted and approved by the Technical Advisor. The Technical Advisor should be invited to participate in all group meetings.
- c. Matching Funding received from all the parties.
- d. Demonstrate that the potential cost of electricity using WRITECoal™ could be less than other options for electricity generated from lignite to Technical Advisor.

Conflict of Interest: Montana-Dakota Utilities Co.
Basin Electric Power Cooperative