

Grant Round Application for LRC LXXV (75)-D

TECHNICAL ADVISOR'S SUMMARY and RECOMMENDATION

LRC-LXXV (75) – D

“Feasibility Assessment of the NET Power Electric-Generation Technology when fueled with North Dakota lignite”

Submitted by: ALLETE, Inc.

Request for: \$150,000; Total Project Costs: \$1,000,000;

Principal Investigator: William Sawyer

Description of the Project:

The objective is to determine the feasibility of an innovative clean coal power generation cycle which uses CO₂ as the working fluid, pressurized combustion and gasification when it is applied to North Dakota lignite.

Technical Advisor's Recommendation: Fund

Fund subject to the following:

- Matching Funding received.
- The team demonstrates to the Technical Advisor before funding that lignite properties/ gasification experience are accounted for in the project.

Conflict of Interest:

Minnesota Power

BNI Coal, Ltd.

Dakota Gasification Company