

Grant Round Application for LRC-LXXVI (76)-C

TECHNICAL ADVISOR’S SUMMARY and RECOMMENDATION

LRC-LXXVI (76) – C

“ION Advanced Solvent CO2 Capture Project”

Submitted by: ION Engineering.

Request for: \$1,000,000; Total Project Costs: \$20,194,045;

Principal Investigator: Alfred (Buz) Brown, Ph.D.

Description of the Project:

The primary objective of this project is to test ION's lead CO2 capture solvent under more realistic somewhat larger slipstream conditions (~ 0.7 MWe) during continuous long-term operation, and to demonstrate significant progress is being made to meet or exceed DOE’s goal for second generation solvents of 90% CO2 capture rate with 95% purity at a cost of \$40/tonne CO2 captured by 2025.

Technical Advisor’s Recommendation: Fund at \$250,000

Fund subject to the following:

- Matching Funding received.
- Developers clearly describe the path to commercialization of this technology
- Issues with operation of this technology with ND lignite are addressed

Conflict of Interest:

GRE

EERC