

Grant Round Application for LRC LXXV (75)-A

TECHNICAL ADVISOR'S SUMMARY and RECOMMENDATION

LRC-LXXV (75) – A

“Advancing CO₂ Capture Technology: Partnership for CO₂ Capture (PCO₂C) Phase III”

Submitted by: Energy & Environmental Research Center;

Request for: \$500,000; Total Project Costs: \$5,398,000;

Principal Investigator: John Kay

Description of the Project:

The overall goal of the Phase III activity is to advance the state of CO₂ capture technology and create tools for managing CO₂ capture decisions through pilot-scale and systems engineering analyses. In order to meet this goal, the following objectives have been identified:

- Through pilot-scale demonstrations, find and evaluate promising pre-combustion and post-combustion CO₂ capture technologies.
- Evaluate CO₂ pretreatment technologies that can enhance the performance and reduce the cost of CO₂ capture systems.
- Continue the creation of systems engineering-based models using pilot-scale data and evaluations.
- Utilize the information gathered through the modeling and pilot-scale work to create economic-based decision tools that can aid owners and operators of CO₂ emission sources with capture-based strategies.

Technical Advisor's Recommendation: Fund

Fund subject to the following:

- Matching Funding received from all the parties.
- Technical advisor participates in Advisory group to recommend technologies selected for additional work under this program.
- Decision support tools available to LEC/LRC membership

Conflict of Interest:

Energy & Environmental Research Center