

# FY10-LXIX(69)-171

## “Partnership for CO<sub>2</sub> Capture Demonstration Project –Phase II”

Submitted by: Energy & Environmental Research Center (EERC)

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### PARTICIPANTS

<u>Sponsor</u>	<u>Cost Share</u>
U.S. DOE	\$1,460,000
CO2 Capture project (CCP)	\$ 250,000
Hitachi Power Systems America	\$ 50,000
Nebraska Public Power District	\$ 50,000
Constellation Energy	\$ 50,000
Arthur J. Gallagher & Company	\$ 50,000
PPL Montana	\$ 50,000
Huntsman Corporation	\$ 50,000
General Electric	\$ 50,000
NDIC	<u>\$ 150,000</u>
Total Cost	\$2,210,000

Project Schedule – 17 Months  
Contract Date – 10/15/10  
Start Date – 09/15/10

Completion Date – 02/29/12

Project Deliverables  
Status Reports:  
10/31/10 (✓); 3/31/11 ( );  
10/31/11 ( )  
Draft Final 1/31/12 ( )  
Final Report: 2/29/12 ( )

### OBJECTIVE / STATEMENT OF WORK:

This project builds on the results of the Phase I activity to develop promising technologies toward demonstration and commercialization that capture and separate CO<sub>2</sub> from a dilute gas stream produced by combusting fossil fuels. In order for this to happen, the program will focus on developing and demonstrating a range of CO<sub>2</sub> capture technologies while achieving high reductions in SO<sub>x</sub>, NO<sub>x</sub>, particulate, mercury, and other gas constituents as required by CO<sub>2</sub> capture technologies.

## **STATUS:**

### **October 31, 2010**

The first report summarizes and states that the project has been fully funded and work will commence in November. Delays in securing the funding have pushed the project schedule back as is reflected in the new milestone dates.

### **January 31, 2011:**

During this quarter, several discussions took place in order to secure the technologies that will be tested. In all, ten test campaigns have been planned, which includes the evaluation of approximately eight technologies. These technologies include three advanced solvents, solid sorbents, an ionic liquid-based solvent, a slurry-based system, system integration options, and other advanced systems. More details about these technologies will be released as the final agreements are put in place.