

FY08-LXIV(64)-164

“Partnership for CO₂ Capture Demonstration Project”

Submitted by: EERC

Principal Investigator: Brandon Pavlish

PARTICIPANTS

<u>Sponsor</u>	<u>Cost Share</u>
U.S. DOE	\$2,360,000
Metso Power	\$ 75,000
Black & Veatch Corporation	\$ 75,000
Atco Power Canada	\$ 75,000
Constellation Energy	\$ 75,000
Midwest Generation	\$ 75,000
PPL Montana	\$ 75,000
MN Power	\$ 75,000
SaskPower	\$ 75,000
TransAlta	\$ 75,000
Metso Power	\$ 75,000
Industry Company (not yet secured)	\$ 75,000
NDIC	<u>\$ 300,000</u>
Total Cost	\$3,410,000

Project Schedule – 16 Months

Contract Date – 6/19/08

Start Date – 6/2/08

Completion Date – 12/02/09

Project Deliverables

Status Reports:

10/1/08 (✓); 1/30/09 ();

4/2/09 ()

Final Report: 12/2/09 ()

OBJECTIVE / STATEMENT OF WORK:

EERC proposes to conduct pilot-scale demonstration testing of selected CO₂ separation and capture technologies for fossil fuel- and biomass-fired systems. The technologies may include solvent scrubbing, oxygen-fired combustion, and gas separation membranes.

STATUS

July 1 – September 30, 2008. Work on the design of the equipment necessary and final test plans. The design of the postcombustion system is about three-quarters complete. Test plan development is about 40% complete. The oxygen-fired retrofit design has been completed and equipment procurement has begun. Base modeling within ASPEN has begun.