

**FY-05-LI(51)-133**

**“Demonstrating North Dakota Lignite’s Profitability in  
Energy Production and Agricultural Processing”**

Submitted by: Red Trail Energy L.L.C.;  
Principal Investigator: Frank Kirschenheiter

**PARTICIPANTS**

<b><u>Sponsor</u></b>	<b><u>Cost Share</u></b>
Red Trail Energy	
Senior Debt	\$ 43,020,000
Member Equity	25,000,000
Seed Capitol	3,000,000
ND State	3,500,000
Grant Income	3,500,000
NDIC	<u>\$ 350,000</u>
Total Cost	\$ 78,220,000

**Project Schedule - 22 Months**

Contract Date –

Start Date –

Completion Date –

**Project Deliverables**

Contract Signed: 4/26/06

Status Report: 6mo. after construction of ICM  
Fluidbed boiler

Final Report: 6 mo. after ethanol production  
commenced

**OBJECTIVE / STATEMENT OF WORK:**

The proposed project would utilize a lignite-fired Fluid Bed Combustion boiler to generate process steam & electricity for a corn-based ethanol production plant.

**STATUS**

Through November 6, 2006: Red Trail energy is in its sixth month of construction on the ICM fluidbed boiler. Currently finishing the piping and electrical loops for the entire coal island. Start date has been pushed back to the week of November 27, 2006.