Advanced Conversion Technologies Task Force Meeting
Draft Minutes
Friday, March 27, 2015
University of Wyoming Energy Innovation Center
Laramie, Wyoming

ACTTF Members Present: Paul Lang (Chair), Tom Lockhart (Vice-Chair), James Anderson, Carl Bauer, Eli Bebout, Tom Botts, Cindy Crane, David Emery, Jeane Hull, Rob Hurless

ACTTF Members Absent: Rob Wallace

SER Staff in Attendance: Mark Northam, Mary Byrnes, Rachel Ferrell, Cath Harris, Diana Hulme, Abby Scott

Others Attending: Wendy Lowe, Peabody Coal; Brett Befus, UW Foundation

Agenda:
1) Approval of Agenda
2) Approval of Minutes from the November 14, 2014 meeting
3) Maohong Fan 2012 project update – Diana Hulme
4) 2007 Clean Coal interest funds – Carbon Engineering
5) Results from ITC RFI – Rob Hurless and Carl Bauer
6) Clean Coal Research Fund Symposium – August 20, 2015 – Diana Hulme
7) Update on other projects – Diana Hulme
8) New business/Direction for next meeting
9) Adjourn

Summary of Action Items from Meeting:
1. Approval of Agenda – Jeane Hull moved to approve the agenda. Tom Lockhart seconded the motion. The motion passed unanimously.
2. Approval of Minutes from the November 14, 2014 meeting - A motion to accept the minutes from the November 14, 2014 meeting was made by Vice Chairman Tom Lockhart and seconded by Carl Bauer. The motion passed unanimously.
4. 2007 Clean Coal interest funds – Carbon Engineering - No action was taken. Mark and SER staff will come up with an idea of how to deploy the interest funds by the next Task Force meeting.
5. Results from ITC RFI - No action taken. Rob, Carl and Abby will continue sorting through the RFI responses and working with the utilities as potential test bay host sites.
6. Clean Coal Research Fund Symposium – August 20, 2015 – No action taken. This will be the last symposium for the Clean Coal Technology Fund program.
7. Update on other projects – No action taken.
8. New business/Direction for next meeting – No action taken. The next meeting will be held on June 2, 2015.
9. Adjourn – Vice-Chairman Tom Lockhart moved to adjourn the meeting. Cindy Crane seconded the motion. The motion passed unanimously; meeting was adjourned at 1:19 p.m.
MEETING DETAILS:

1. Approval of Agenda
   
   **Summary:** The Task Force voted to approve the agenda as presented.

   **Action Taken:** Jeane Hull moved to approve the agenda. Vice-chair Tom Lockhart seconded the motion. The motion passed unanimously.

2. Minutes from November 14, 2014 Meeting
   
   **Summary:** The Task Force voted to approve the minutes from the November 14, 2014 meeting.

   **Action Taken:** A motion to accept the minutes from the November 14, 2014 meeting was made by Vice Chairman Tom Lockhart and seconded by Carl Bauer. The motion passed unanimously.

3. Maohong Fan 2012 Project Update
   
   **Summary:** Diana Hulme provided the Task Force with some background on Dr. Fan's Clean Coal project. Originally, some of the matching funds were to be provided by West Virginia University (WVU). WVU ended up backing out as a collaborator and contributor to the project before the project got started. Dr. Fan was then able to work with Western Research Institute (WRI) and have them contribute additional matching funds to make up for what was lost when WVU left the project. After approximately 18 months of work on the project, the collaboration with WRI was terminated and as a result, Dr. Fan lost some of the matching funds required for the project. Since July of 2014, Dr. Fan has been trying to secure matching funds from other sources so that he can continue with the project. The Clean Coal Technology Research program requires that a dollar-for-dollar match be in place prior to conducting any research; therefore, Dr. Fan has been forced to cease work on the project until appropriate matching funds can be found.

   **Action Taken:** No action was taken. The Task Force will receive an update on this project at the next meeting.

4. 2007 Clean Coal Interest Funds – Carbon Engineering
   
   **Summary:** The 2007 Clean Coal Fund was derived of state of Wyoming funds. This fund has no legislatively designated reversion date and has been accumulating interest since 2007. Currently, there is approximately $247,000 of interest funds in the account. Guidance from the Wyoming Attorney General’s Office recommends spending the 2007 interest funds in the same manner as the principle funds. This means that the funds need to be awarded competitively and awardees must provide a dollar-for-dollar match in non-state of Wyoming funds. In addition, the Attorney General’s Office said the interest funds would sunset on the same date that the Task Force sunsets, which at this time is June 30, 2017. At the last Task Force meeting, there was discussion about using the interest money toward the carbon engineering effort, which could still be an option. Another alternative is to release a very targeted request for proposal (RFP) on a small-scale research project that
doesn’t require significant equipment purchases or graduate student time. Mark said SER would think about this and get back to the Task Force at the next meeting.

**Action Taken:** No action was taken. Mark and SER staff will come up with an idea of how to deploy the interest funds by the next Task Force meeting.

5. **Results from ITC RFI**

   **Summary:** Rob Hurless provided an overview of efforts to date on the Integrated Test Center (ITC). The ITC proposes five research bays and provision of a 1-5 megawatt (MW) slipstream from an electric generation facility. In order to assess the market and types of requirements a pilot project might need from a utility, Carl Bauer and Rob Hurless created a request for information (RFI) and distributed it to a broad list of potential researchers. Only entities whose technology was ready for near-term commercial-scale demonstration were encouraged to submit a response to the RFI. A total of 10 responses to the RFI were received, 9 of which were from the private sector and the other from the XPrize Foundation. Carl and Rob, with help from Abby Scott, have been sorting through all of the RFI responses looking at the different technologies and cataloging the various operating parameters that would be required - such as amount of power needed, water requirements, footprint of the equipment, etc. Several of the responses propose a pilot project using a 5MW slipstream and several are even in the range of a 10-25 MW slipstream. However, even though interest has been expressed from a couple of Wyoming utilities to host test bays, there are no firm commitments from them. Rob, Carl and Abby will continue sorting through the RFI responses and continue working with the utilities as potential test bay host sites.

   **Action Taken:** No action taken.

6. **Clean Coal Research Fund Symposium**

   **Summary:** Diana let the Task Force know that the next Clean Coal Technology Research Symposium will be held on Thursday August 20, 2015, the day before the August ERC meeting. It will be a one-day symposium and it will be the last one as all the remaining Clean Coal projects will be nearing completion by then.

   **Action Taken:** No action taken.

7. **Update on Other Projects**

   **Summary:** Diana Hulme provided a brief overview of the progress of ongoing Clean Coal projects. There are currently no issues with deadlines or spending, and projects are wrapping up.

   **Action Taken:** No action taken.

8. **New business/Directions for next meeting**

   **Summary:** No new business or direction for next meeting was discussed.

   **Action Taken:** No action taken.
9. **Adjourn**

*Summary:* The next meeting will be held Tuesday June 2, 2015 in Laramie.

*Action Taken:* Vice-Chairman Tom Lockhart motioned to adjourn, and Cindy Crane seconded the motion. The motion passed unanimously.

**Meeting adjourned at 1:19 p.m.**

Respectfully submitted:

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Paul Lang      Tom Lockhart
Chairman       Vice-Chairman