Clean Coal Task Force Meeting
Minutes
Friday, May 18, 2012
UW Conference Center – Hilton Garden
Laramie, Wyoming

CCTF Members Present:
Ron Harper, Kit Jennings, Jim Bowzer, Rob Hurless (Governor’s Office Representative), Rob Wallace, Paul Lang, Carl Bauer

CCTF Members Absent:
Tom Lockhart

SER Staff in Attendance:
Mark Northam, Mary Byrnes, Diana Hulme, Don Roth, Bob Ballard, Cath Harris, Pam Henderson, Nadia Kaliszewski, Abby Mellinger

Others Attending:
Dustin Bliezeffer (WYO File), Wendy Lowe (Peabody Coal), Jeff Kirtland (WPX Energy)

Agenda:
1) Approval of Meeting Agenda
2) Minutes from March 30, 2012
3) RFP – CCTF Awards
4) RFP - $9 Million – Process Discussion
5) RFP – Economic & Technical Feasibility Study ($500,000)
6) Review of Glass Manufacture Studies
7) Clean Coal Technology Research Symposium, August 22-23, 2012
8) Legislative Reports Timeline
9) Other Business

Summary of Action Items from Meeting:
1. Meeting agenda – Approved unamended
3. RFP – CCTF Awards - The CCTF passed a motion to have SER staff issue the next Clean Coal RFP containing the same research focus that had been listed in previous RFP’s (with slight modification provided by Paul Lang to Section 2-I Economic Analysis). In the interim until the next CCTF meeting (August 24, 2012), SER staff will draft an additional RFP that solicits research on the economic, regulatory and financial barriers to the successful development and deployment of clean coal technologies. At the next CCTF meeting, the CCTF will decide which projects to fund from the technology-focused RFP and review the language of the draft economic/regulatory/financial barrier-focused RFP. The CCTF voted to allocate $500,000 for the economics-focused RFP.

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Other follow-up items:

a. The CCTF asked Diana Hulme to modify the table that shows how much funding has gone to each research focus area since the inception of the Clean Coal program. The CCTF asked that completed projects that are moving forward in some capacity or that have been successful (patented, commercialized technology) be highlighted in the table and footnoted as such. The CCTF also asked that projects that have been terminated or withdrawn be noted on that table as well.

b. Mark Northam asked Diana Hulme to add a paragraph at the beginning of the draft RFP explaining the upcoming name change of the Clean Coal Task Force to the Advanced Conversion Technology Task Force taking effect July 1, 2012.

c. Language will be added to the draft RFP to the effect that the CCTF is not obligated to fund every research category listed in the RFP and reserves the right to emphasize some categories over others.

d. The CCTF agreed to include language in the draft RFP indicating that SER may wish to periodically follow up with researchers through a voluntary survey to determine the extent to which the research has progressed or moved toward commercialization.

e. The CCTF agreed that the modified RFP could be released on June 1st, 2012 as long as it contains specific items identified by the CCTF in its discussion.

4. RFP- $9 Million – Process Discussion – No action taken. As follow-up, SER will draft a letter requesting more clarity on this appropriation for Ron Harper’s signature to the Chairs of the Joint Minerals Committee as soon as possible. SER will request review of the draft letter by Don Richards, UW Vice President of Governmental and Community Affairs. Chairman Harper will circulate the letter to the other members of the CCTF before sending it to the Chairs of the committee.

5. RFP – Economic & Technical Feasibility Study ($500,000) – No action taken. As follow-up, Bob Ballard will arrange for a conference call with the CCTF to select proposals for funding at 7:00 am MT (9:00 am ET, 10:00 am CT, 6:00 am PT) on Monday June 18, 2012 and will distribute the call-in number, participant code, and call time listed for every time zone. Bob Ballard will lead the call and will distribute a short list of the proposals to CCTF members before the call.

6. Review of Glass Manufacture Studies – No action taken. As follow-up, SER will draft a letter as soon as possible for Ron Harper’s signature to the Chairs of the Joint Minerals Committee recommending that the scope of the $100,000 natural resources (trona)-to-glass feasibility study be broadened to natural resources (trona)-to-other value-added products. SER will request review of the draft letter by Don Richards, UW Vice President of Governmental and Community Affairs. Chairman Harper will circulate the letter to the other members of the CCTF before sending it to the Chairs of the committee.


8. Legislative Reports Timeline – No action taken

9. Other Business – No action taken
MEETING DETAILS:

1. **May 18, 2012 Meeting Agenda:**
   
   *Action Taken:* A motion was made and seconded to approve the agenda for the meeting. The agenda was unanimously accepted without amendment.

2. **Minutes from March 30, 2012:**
   
   *Action Taken:* A motion to accept the minutes from the March 30, 2012 meeting was made and seconded. There were no changes to the minutes and the motion passed unanimously.

3. **RFP – CCTF Awards:**

   *Summary:* The CCTF received copies of a draft request for proposals (RFP) to deploy $10 million appropriated in the 2012 legislative budget session for additional clean coal technology research. SER staff asked the CCTF for input on whether they want to fund the same research topic areas in this new RFP as had been funded in the past. To help with this discussion, the CCTF was presented with a table summarizing the number of projects and total dollar amounts that have been spent on each research topic listed in previous RFP’s. To date, the majority of Clean Coal funds have been spent on carbon capture/sequestration/use technologies (~$18 million) and coal combustion/gasification technologies (~$10.5 million). Each CCTF member was then asked for their opinion about whether to alter the research focus areas for the next RFP. Other items discussed by the CCTF regarding the draft RFP include adding a paragraph to the RFP explaining the upcoming name change of the Clean Coal Task Force to the Advanced Conversion Technology Task Force that will take place July 1, 2012, the long-term follow-up and reporting for projects funded through this program, and whether to release another RFP that focuses strictly on the economic, regulatory and financial barriers to implementing advanced coal conversion technologies in Wyoming.

   *Comments:* Regarding the research focus areas for this RFP, Carl Bauer suggested that the document emphasize carbon capture and use rather than carbon capture and sequestration as use technologies are broader and research interest in sequestration is waning at this time. Paul Lang noted that no studies have been funded that assess the economic, regulatory and financial impediments to implementation of new coal technologies and suggested issuing a separate RFP that focuses only on this topic. Diana Hulme noted that the lack of funding in this area could be due to the RFP not being targeted to potential applicants with expertise in this area. The RFP’s are typically sent to potential applicants with technical expertise, not economic and policy expertise. It was suggested that a separate RFP should be focused on economic and legal barriers to existing technologies, or include research on the dynamics of federal tax legislation, court cases, etc. Mark Northam suggested that SER team with the private sector to develop the RFP and possibly ask for input from Dr. Tim Considine, Director of the SER Center for Energy Economics and Public Policy.

The week prior to this meeting, Diana Hulme sent Clean Coal Technology Program final summary reports to CCTF members as had been requested in the March 30, 2012 meeting. This prompted comment by Senator Jennings regarding long-term follow up of completed projects to see how they have progressed toward additional research or commercialization. He felt this
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would be useful information for the legislature. The CCTF discussed the practicality of following up on projects 2-5 years after completion. This type of request isn’t something that has been required to date and some CCTF members were unsure of the enforceability of such a request. Mark Northam noted that requiring too much information on research involving proprietary or confidential information could chase away some of the best projects and that it will be important for the CCTF to find a balance between having follow up information and creating disincentives for researchers to participate. It was decided that the CCTF could request follow-up information that could be responded to voluntarily by the researchers. The CCTF agreed to survey project investigators on the general outcome of their research and to make it clear in the RFP of what will be asked of researchers in the future after their projects are completed.

Finally, Diana Hulme proposed a timeline for the next Clean Coal Technology RFP is as follows:

- June 1, 2012 – RFP released
- July 13, 2012 – Proposals due
- August 24, 2012 – CCTF meeting to review proposals
- August 28, 2012 – Proposal funding recommendations from the CCTF to the Joint Minerals and Economic Development Committee (this is a tentative meeting date)
- September 15, 2012 – Last date to notify applicants of the status of their proposal

Action Taken:
The CCTF passed a motion to have SER staff issue the next Clean Coal RFP containing the same research focus that had been listed in previous RFP’s (with slight modification provided by Paul Lang to Section 2-I Economic Analysis). In the interim until the next CCTF meeting (August 24, 2012), SER staff will draft an additional RFP that solicits research on the economic, regulatory and financial barriers to clean coal technology development and deployment. At the next CCTF meeting, the CCTF will decide which projects to fund from the technology-focused RFP and review the language of the draft economic/regulatory/financial barrier-focused RFP. The CCTF voted to allocate $500,000 for the economics-focused RFP.

Other follow-up items:

a. The CCTF asked Diana Hulme to modify the table that shows how much funding has gone to each research focus area since the inception of the Clean Coal program. The CCTF asked that completed projects that are moving forward in some capacity or that have been successful (patented or reached commercial scale) be highlighted in the table and footnoted as such. The CCTF also asked that projects that have been terminated or withdrawn be noted on that table as well.

b. Mark Northam asked Diana Hulme to add a paragraph at the beginning of the draft RFP explaining the upcoming name change of the Clean Coal Task Force to the Advanced Conversion Technology Task Force taking effect July 1, 2012.

c. Language will be added to the draft RFP to the effect that the CCTF is not obligated to fund every research category listed in the RFP and reserves the right to emphasize some categories over others.

d. The CCTF agreed to include language in the draft RFP indicating that SER may wish to periodically follow up with researchers through a voluntary survey to determine the extent to which the research has progressed or moved toward commercialization.
4. **RFP - $9 Million – Process Discussion:**

*Summary:* Mark Northam noted that he would like to approach the Joint Minerals Committee at their next meeting in June to provide more clarity on the language and intent of the legislation appropriating $9 million for construction and operation of a commercial-scale minerals to value-added products facility. There is question as to whether the focus of this legislation is on fossil fuels to liquids or whether the scope is intended to be broader.

*Comments:* Kit Jennings suggested Mark draft a letter from the chair of the CCTF to the chairs of the Joint Minerals Committee as soon as possible requesting more clarity on this appropriation. Chairman Harper also agreed with the suggestion and added that he’d like to circulate a copy of the letter to members of the CCTF before sending it to the Chairs of the Joint Minerals Committee.

*Action Taken:* No action taken. As follow-up, SER will draft a letter for Ron Harper’s signature to the Chairs of the Joint Minerals Committee as soon as possible. SER will request review of the draft letter by Don Richards, UW Vice President of Governmental and Community Affairs. Chairman Harper will circulate the letter to the other members of the CCTF before sending it to the Chairs of the committee.

5. **RFP – Economic & Technical Feasibility Study ($500,000):**

*Summary:* Mark Northam informed CCTF members that the RFP for the economic and technical feasibility study has been released and proposals are due by May 25, 2012. He also informed CCTF members of concerns raised by Senator Eli Bebout and Representative Tom Lockhart that the RFP language left a loophole that would allow an individual company or person to apply for and use funds to solicit further proposals for a second party to do the research. Mark assured Senator Bebout and Representative Lockhart that applicants that might attempt this strategy would be dealt with in the review process. Bob Ballard reported that he is in the process of lining up reviewers for the proposals.

Mark Northam coordinated scheduling of a conference call for members of the CCTF to review the proposals and make awards. The call is scheduled for Monday June 18, 2012 at 7:00 a.m. MST (9 am ET, 10 am CT and 6 am PT). Bob Ballard will lead the call and distribute the necessary preparatory materials.

*Comments:* Carl Bauer requested that CCTF members have an opportunity to look at a short list of the proposals before the June 18 conference call.

*Action Taken:* No action taken. As follow-up, Bob Ballard will arranged for a conference call with the CCTF to select proposals for funding at 7:00 am MT (9:00 am ET, 10:00 am CT, 6:00 am PT) on Monday June 18, 2012 and will distribute the call-in number, participant code, and call time listed for every time zone. Bob Ballard will lead the call and will distribute a short list of the proposals to CCTF members before the call.
6. **Review of Glass Manufacture Studies:**  
*Summary:* Mark Northam began the discussion about the $100,000 natural resources (implied to be trona)-to-glass feasibility study by verifying that all CCTF members received copies of the three existing studies that have looked at the feasibility of the use of trona in glass manufacturing in Wyoming. Mark Northam expressed his concern that the legislation is narrow in scope and that much more benefit could result if the study was broadened to consider natural resources (trona)-to-other value-added products.

*Comments:* Mark Northam asked if the CCTF would support writing a second letter to the Chairs of the Joint Minerals Committee for consideration at the June 2012 meeting recommending expanding the scope of the feasibility study from natural resources-to-glass to natural resources-to-value-added products. Chairman Harper supported Mark Northam’s idea of broadening the scope of the study and suggested that a summary of the three existing reports be submitted with the letter.

*Action Taken:* No action taken. As follow-up, SER will draft a letter as soon as possible for Ron Harper’s signature to the Chairs of the Joint Minerals Committee recommending that the scope of the $100,000 natural resources (trona)-to-glass feasibility study be broadened to natural resources (trona)-to-other value-added products. SER will request review of the draft letter by Don Richards, UW Vice President of Governmental and Community Affairs. Chairman Harper will circulate the letter to the other members of the CCTF before sending it to the Chairs of the committee.

7. **Clean Coal Technology Research Symposium – August 2012:**  
*Summary:* The Clean Coal Technology Research Symposium, which will be held August 22-23, 2012 in Laramie, was discussed during the ERC meeting.

*Comments:* Chairman Harper asked CCTF members to do their best to attend the August 22-23, 2012 Clean Coal Technology Research Symposium.

*Action Taken:* No action taken.

8. **Legislative Reports Timeline:**  
*Summary:* The legislative reports timeline was discussed in the ERC meeting.

*Action Taken:* No action taken.

9. **Other Business:**  
*Summary:* No other business was introduced.

*Action Taken:* Motion to adjourn was made, seconded, and passed unanimously.

**Meeting adjourned at 12:00 p.m.**