



RECORD

FCAB UPDATE

Week of February 28, 2002
(Last update was February 4, 2002)

MEETING SCHEDULE

Stewardship Committee Meeting
Thursday, March 14, 2002, 6:30 p.m.

**PEIC – Public Environmental
Information Center**

Fernald Citizens Advisory Board Meeting
Saturday, March 16, 2002, 8:30 a.m.

**PEIC – Public Environmental
Information Center**

ATTACHMENTS

- Draft Minutes from the 02/11/02 FCAB Meeting
- 02/13/02 Stewardship Committee Meeting Summary
- Draft 03/16/02 Full Board Meeting Agenda
- Draft 03/14/02 Stewardship Committee Meeting Agenda
- Memo & Draft Letter on SSAB Ground Water Statements
- Articles & News Clippings

NEWS and ANNOUNCEMENTS

The fourth Future of Fernald Workshop: Exploring Long-Term Public Access to Site Records will be held on Wednesday, March 13th from 6:30-8:30 at the Crosby Senior Center, 8910 Willey Road.

The SSAB Chairs Meeting will be held April 11th-13th at the Westin in Cincinnati. Please see the web site for more detailed information at www.fernaldcab.org.

FOR FURTHER INFORMATION

Please note that the phone number for The Perspectives Group has changed.

Please contact Doug Sarno or David Bidwell at The Perspectives Group
Phone: 513-648-6478 or 703-837-9269 Fax: 513-648-3629 or 703-837-9662
E-Mail: djsarno@theperspectivesgroup.com or dbidwell@theperspectivesgroup.com



FULL BOARD MEETING
Public Environmental Information Center

Monday, February 11, 2002

DRAFT MINUTES

The Fernald Citizens Advisory Board met from 6:00 p.m. until 9:00 p.m. on Monday, February 11, 2002, at the T-1 Trailer on the Fernald Environmental Management Project site.

Members Present:

French Bell
 Jim Bierer
 Kathryn Brown
 Sandy Butterfield
 Marvin Clawson
 Lisa Crawford
 Lou Doll
 Steve Depoe
 Pam Dunn
 Gene Jablonowski
 Steve McCracken
 Graham Mitchell
 Robert Tabor
 Thomas Wagner
 Gene Willeke

Members Absent:

Lisa Blair
 Blain Burton
 Jane Harper

Designated Federal Official:

Gary Stegner

The Perspectives Group Staff:

Douglas Sarno
 David Bidwell

Fluor Fernald Staff:

Sue Walpole

Approximately 15 spectators also attended the meeting, including members of the public and representatives from the Department of Energy and Fluor Fernald.

Call to Order

Jim Bierer called the meeting to order at 6:00 p.m. Minutes from the January 12, 2002 Board meeting were approved.

General Remarks and Announcements

Jim Bierer stated that John Bradburne, former President of Fluor Fernald, called him personally to explain that he was retiring. Mr. Bradburne thanked the FCAB for its work and for building good relationships with other parties involved in the cleanup of the FEMP site.

Jim introduced Judith Bradbury, who explained that she was conducting an assessment of public involvement for DOE. Judith said she has been observing meetings and interviewing stakeholders at various sites. The report from this assessment will be submitted to Martha Crosland.

Susan Brechbill announced that Secretary of Energy Spencer Abraham and Jessie Roberson visited the FEMP to kick-off the Top to Bottom Review. According to Susan, Secretary Abraham was impressed with the progress at the Fernald site.

Johnny Reising explained that DOE is working with Fluor on a 2006 baseline schedule. The baseline should be available in early April.

Doug announced that the draft Master Plan for Public Use of the FEMP has been released. An environmental assessment (EA) will not be produced for this issue. There will be a public meeting for the plan on February 28.

David Bidwell announced that Tom Schneider gave a plenary talk on Fernald at the Long-Term Stewardship Symposium in New Orleans. Tom complimented the work of the FCAB in his talk.

DOE Top to Bottom Review

Susan Brechbill reported on the results of the DOE Top-to-Bottom Review of Environmental Management, which has been a top priority of Jessie Roberson. The review was released by DOE Secretary Abraham when he visited the FEMP on January 31. The review was conducted through a series of informational meetings in August and September 2001. According to Susan, the review is a departure from "business as usual" and identifies, the below listed four areas for improvement. Susan stated that the Ohio sites are already following the approaches recommended by the report, which is a reason Secretary Abraham chose Fernald for his press conference.

- Contract management should focus on accelerating risk reduction.
- EM's cleanup strategy should be based on risk prioritization.
- EM's processes should support an accelerated, risk-based approach.

- Some EM sponsored activities currently do not support an accelerated, risk-based approach:

Susan stated that the common theme is to find ways to complete environmental cleanup projects faster and cheaper. The proposed 2003 budget reflects these priorities.

Susan addressed questions from FCAB members with assistance from Jim Owendoff, Principal Deputy of Environmental Management. Discussion points are listed below.

1. The review focuses on EM activities at DOE sites, which includes some sites with active missions. The goal of the review was to reduce the budget by \$100 million. Pam Dunn suggested performing a similar review of production operations, in order to reduce the risk of future contamination.
2. Susan agreed to provide the FCAB members with a list of team members who developed the report.
3. Lisa Crawford stated that stakeholders at other sites should have been provided an opportunity to contribute to the review.
4. Public involvement should be part of risk prioritization at sites.
5. Members cautioned that past studies and recommendations concerning contractor reform have resulted in little actual change.
6. Susan will provide the FCAB with copies of a letter from Secretary Abraham that outlines next steps. The letter does not establish a timeline.
7. EM's science and technology funding will be focused on site closure and remedies for high-risk sites. Pam Dunn suggested that groundwater contamination should be contained, even when an efficient technology does not exist for cleanup.
8. The review does not address concerns at specific sites. Rather, it offers general ideas for the operation of EM across the Complex.

FY2003 Budget

Pete Greenwald, DOE Ohio Field Office, reviewed aspects of the proposed budget for FY 2003. Pete stated that the budget reflects the recommendations of the Top-to-Bottom Review. Basic budgets of sites with longer cleanup schedules were cut back, while a discretionary fund was created from which these sites can fund specific projects that shorten cleanup. According to Pete, sites experiencing budgetary decreases should view this as an opportunity to secure greater funding overall.

Pete explained that baseline funding for the Ohio closure sites has not been reduced, but still does not reflect the goal of closure by 2006. To meet that goal, the Ohio office will need to tap into the \$800 million discretionary fund that has been set aside by Roberson. Doug inquired about the status of the \$24 million for next year that was promised to the site by Roberson; Susan responded that she

was confident that if a credible closure baseline is developed based on \$324 million, there will be no problem securing that funding. Susan also explained that Fluor would pursue a list of additional projects that would help them meet the accelerated closure goal. Pete stated that Fernald has an excellent chance to receive discretionary funding.

FCAB members stated that funding for the site will be necessary beyond 2006 in order to complete unfinished projects and implement stewardship activities. Pete assured the group that DOE headquarters is aware that funding liabilities will exist beyond 2006. Members stated that they want to see a preliminary commitment to fund stewardship activities, even if the amount of funding must be revised at a future date.

Current Remediation Issues

Dennis Carr provided a detailed update on current remediation issues.

At the last FCAB meeting, members asked for better information regarding the activities of the site technology coordination group (STCG). Dennis announced that the FCAB will now receive minutes from the STCG meetings. The time of the STCG meeting will be discussed at its next meeting. Dennis also reviewed the ALRAD system, an alpha-emitting particulate monitoring system currently under development. He explained there would be a peer review by an expert in instrumentation to decide a future path for this technology. Dennis asked Gene Willeke to meet with him to discuss his concerns regarding this technology.

Dennis also reported that the baseline for 2006 closure will be presented to DOE on March 18. It will be based on a revised funding schedule of \$300 million for this year and \$324 million for FY03-FY05. Dennis explained that he hopes the FCAB will endorse the baseline, so he proposed reviewing the baseline at the March meeting. Lisa Crawford requested that Johnny and Dennis attend the March 28 FRESH meeting to present the completed baseline.

The soils project has slowed for the winter, but according to Dennis, Fluor plans to have staff in place by March 15 for its self-performance contract. The focus for excavation over the next year will be the northeast production area. Preparatory work, such as breaking up concrete and digging an isolation trench, is ongoing. Dennis stated that Fluor would coordinate worker shifts to reduce traffic problems resulting from closure of the north access road. In answer to a question by Pam, Dennis explained that perched water zones would be removed during the excavation. Excavated soils that exceed the OSDF WAC will be stockpiled, blended with waste pit materials, and shipped off site by train.

Dennis reported that Plant 6 has been demolished and Plants 2,3, and 8 are currently being prepared for demolition. Dennis explained that as part of the 2006 closure baseline, the completion date for these structures has been revised from May 2004 to September 2003. To meet this goal, a seven-day work schedule will begin within the next month. The Health and Safety building has

been turned over to Mactech and will be razed in a couple of months. Dennis stated that demolition of the Pilot Plant has been accelerated to September 2003, to allow better access to perched water areas. The Lab Building will be vacated by September 2002, because it also sits atop a perched water zone.

Waste Management has a goal of shipping 230,000 cubic feet of materials this year. Dennis reported that they are reviewing remaining waste streams for potential disposal with waste pits material. This would allow the waste to be sent to Envirocare by train. He also reported that contaminated liquids batches 11 and 12 are ready for shipment, leaving just one more shipment to remove all remaining liquids. All nuclear product will be removed from the site by the end of May 2002. Some rejected materials have been reclassified as waste. Dennis said that the metals will be shipped to NFS in Irwin, Tennessee, if its NRC license is modified. He stated that two thousand drums of compounds will be combined with waste pits material and shipped to Envirocare. Dennis also reported that a truck carrying materials to NTS strayed from the accepted route and traveled through Las Vegas; this driver's team has been banned from making any additional shipments.

Although no shipments of waste pit materials to Envirocare were planned during the Salt Lake City Olympics, Dennis reported that a delay caused by a mechanical problem resulted in shipments being sent during the games. He further reported that an enhanced ventilation system was being placed on the dryer system to allow safe processing of higher concentration materials. This year's goal of 136,000 tons has been updated to 155,000 tons. Dennis explained that this increase will be possible due to twenty new rail cars (expected in mid-March) and a seven-day, twenty-four hour work schedule. He stated that the explanation of significant difference will be submitted in March to accommodate disposal of legacy materials, blended with waste pit materials to Envirocare. The group briefly discussed the proposed purchase of IT by Shaw, which should not create any schedule changes.

Dennis also updated the Board on the silos project. Construction continues on the accelerated waste retrieval (AWR) for silos 1 and 2, including the radon control system. He reported that changes to the Foster-Wheeler design should be completed in a couple of weeks. The balance of plant designs should be completed in July. The preliminary design for the remediation system should be completed in April. Dennis reported that he remains optimistic that Envirocare will receive a NRC permit modification to allow them to take silos material. Fernald expects to complete a draft ROD modification and conduct a comment period in May. Dennis further reported that the conceptual design for silo 3 still includes a treatment portion, although Fluor is still pursuing a no treatment option for disposal. The proposed alternative would use super sacks for the shipment of untreated materials by train to Envirocare. This option would also require a ROD amendment and NRC license modifications. Dennis suggested that he meet directly with Gene Willeke to discuss concerns over the risks of airborne risks if silo 3 materials are not treated prior to shipment.

Todd Martin of the critical analysis team (CAT) also reported on the silos projects. Overall, the team would like to see more developed designs, but understands there are a lot of details to work out. The CAT performed a review of the silo 3 conceptual design package and had the following feedback:

- For breaching the silo wall, structural concerns have been satisfactorily addressed but not how to actually cut the hole.
- More information is needed on how efficient dust collectors and venting systems will be when materials are moved and how will these systems will be effected by no-treatment.
- More specific information is needed on how the proposed wand would work for the pneumatic retrieval system.
- Assurances are needed that the excavator will function correctly when used to cut a hole in the silo wall and more information is needed regarding the remote operation of this excavator.
- More information is needed on how containers would be filled in a no-treatment scenario.

Todd reported that Fluor has committed to mocking up its system on silo 4. Dennis added that more information on silos designs would be available in April through July.

Finally, Dennis informed the FCAB that Foster-Wheeler has filed a lawsuit against Fluor to recoup monetary losses on the silos project. Susan stated that this should not interfere with progress on the project.

Materials for Tracking Progress at Fernald

Doug explained that materials are needed that can easily communicate the progress being made at the FEMP. These materials would be useful in creating a more broadly informed community, which is important for stewardship. He reported that Sue Walpole has been developing some prototype materials, which should be available at the next FCAB meeting. He urged the FCAB members to suggest topics or projects on which they think they or the general public would want regular updates. Some suggestions were offered at the meeting:

- Numbers of rail cars is a good way to illustrate amounts of materials that have been shipped. In general, information on shipments is needed.
- Information about perched water is needed.
- The tables in the back of the Fernald book are helpful.
- Information on how close the site is to attaining acceptable levels of soil contamination would be appreciated.
- Before-after photos clearly illustrate progress.

Product of the SSAB Groundwater Workshop

Pam attended the SSAB groundwater in Augusta, Georgia the first week of February. Lisa Blair, Gene Jablonowski, Graham Mitchell, David Bidwell, and

Doug Sarno also attended. Pam reported that the meeting was good and that everyone shared most of the same concerns about groundwater. Doug explained that, as in past SSAB workshops, a list of consensus statements were developed by the group. These eight statements will be discussed at the March Board meeting and the FCAB will be asked to endorse them. After each SSAB has had an opportunity to approve the statements, they will be sent to DOE.

Draft Closure CAB Memo

At the January meeting, the FCAB decided to draft a memo to Steve McCracken, to suggest it transition to a "Closure CAB." The FCAB discussed a draft memo and agreed to send it with some minor changes. Board members want the memo to acknowledge that the FCAB must maintain its current responsibilities until all remedial actions are complete.

Public Comment

There were no public comments.

The meeting adjourned at 9:00 p.m.



MEETING SUMMARY

Date: February 13, 2002

Topics:

- Master Plan for Public Use of the Femp
- Future of Fernald Workshop on Public Access to Site Records
- Public Records Feasibility Study

Attendees

Fernald Citizens Advisory Board
 Marvin Clawson
 Pam Dunn
 Bob Tabor

FRESH

Carol Schroer
 Edwa Yocum

The Perspectives Group

Doug Sarno
 David Bidwell

U.S. Department of Energy

Cory Flowers
 Ed Skintik
 Gary Stegner
 Ann Wickham
 Pete Yerace

U.S. Environmental Protection Agency

Gene Jablonowski

Ohio Environmental Protection Agency

Donna Bohannon
 Kelly Kaletsky

Fluor Fernald

Ric Strobl
 Jeff Wagner
 Eric Woods

Others

Judith Bradbury

Master Plan for Public Use of the FEMP

Doug Sarno opened the meeting, reviewed the agenda, and introduced Eric Woods. Eric announced that the draft Master Plan for Public Use of the FEMP was released for comment on Tuesday, February 5. The comment period will last until March 15, and a public hearing will be held on February 28 at 6:30 in the Alpha Building.

Eric stated that the document reflects the community desire for limited public use of the site with an emphasis on education, which was expressed during past Future of Fernald workshops. According to Pete Yerace, the Natural Resource Trustees want to demonstrate how they have responded to the Future of Fernald process. Eric explained that the plan covers parking areas, mulched trails, some paved trails, and the kinds of information that could be presented at an education center at the public hearing. No decision or recommendation is included for the construction of such a center, because there are too many unanswered questions at this time (such as funding, who would manage a facility, and what kind of facility should be constructed). Eric stated that it is important to complete this public use plan now, because elements of this plan will influence decisions about stewardship for the site. He also stated that it is preferable to integrate public-use amenities into ongoing restoration projects.

The group briefly discussed the decision not to use the NEPA process for the public-use plan. Eric explained that a process similar to the environmental assessment (EA) process was being followed, but that the site did not feel it was necessary to complete actual EA documentation. Pete stated that the components of this plan would be covered by other NEPA documents. For example, trails were included in the land use EA. Ed Skintik explained that the site stewardship plan would be a NEPA process.

Eric summarized the purpose of other planning documents that have been and will be completed:

- Land Use EA (1998) proposed restoration of the site and potential development of the 23 acres. Resulted in agreement that 900 acres of the site would be an undeveloped park and access to the OSDF would be restricted.
- Natural Resources Restoration Plan and EA (1999) laid the groundwork for how restoration would be conducted on the undeveloped acres.
- Master Plan on Public Use (2002) discusses how the public will use the restored area.
- Long-Term Stewardship Plan (to be determined) will delineate how the OSDF, public amenities, and restored areas will be managed. Will likely have a companion EA.

Bob Tabor requested that this information be developed as a handout.

Doug suggested that the Stewardship Committee compile comments on this plan at its March 14 meeting and finalize them at the FCAB meeting on March 16. Pete and Eric stated that these comments would be welcomed and that committee members should contact them with any questions.



MEETING SUMMARY (continued)

Updates and Announcements

Ed stated that the draft Native American Repatriation Plan is not complete, but will be presented at a future meeting.

Gary Stegner distributed a copy of the site's comments on the pre-decisional draft Long-Term Stewardship Strategic Plan. He stated that the site's comments mirrored the comments submitted by the Stewardship Committee. Tom Schneider explained that a final draft of the strategic plan would be released for a more formal comment period.

The group briefly discussed the movement of the Office for Long-Term Stewardship (EM51) within DOE. Members hoped that this move reflects a rising awareness of long-term stewardship issues within DOE. Anne Wickham explained that departmental resources have been shifted towards site closure, but future funding priorities depend on Congress.

Future of Fernald Workshop on Public Access to Site Records

Doug presented a proposed approach for the March 13 Future of Fernald workshop on public access to site records. According to Doug, the proposed approach mimics past Future of Fernald workshops, which have been successful. There will be a number of displays available as people arrive at the workshop, highlighting the kinds of records and artifacts that are available regarding the site. This information will also be available as a handout. The workshop will begin with a brief introductory presentation by Doug or David Bidwell. Two facilitated breakout sessions will follow, with four topic-specific groups meeting in each session. The first breakout session will focus on what information the community desires for the future. The second breakout session will address how the information should be made accessible. Doug asked Stewardship Committee members to distribute themselves throughout the breakout groups, so they can provide background information to participants. The workshop will conclude with brief reports from the breakout groups. The Stewardship Committee approved this approach.

Doug stated that there is a lot to cover in the workshop, but it is important to start working on these issues now. Results of the workshop will help develop a framework to communicate to DOE what the public wants in the future. Gene Jablonowski suggested that a design competition could be held for creating an effective information management system.

Committee members suggested that the reminder post card to be sent to the workshop mailing list include an invitation to view displays from 6:00-6:30 p.m. and revise the ending time to 9:00 p.m.

Public Records Feasibility Study

David reviewed a summary of the "Information Management" chapter from the November 2001 DOE Long-Term Stewardship Study. He explained that this study identifies many issues related to managing information at closure sites.

Doug reviewed discussions he and David have had with site staff. Doug is concerned that the acceleration of work to meet a 2006 closure date might have a negative impact on information management and long-term stewardship preparation, because these issues may not be adequately covered in Fluor's scope of work. Committee members stated that DOE should push for the appropriate management of records. Gary Stegner stated that everyone should work collaboratively to resolve these issues in a way that meets everyone's needs. The group briefly discussed using retired workers to identify photos of the site. Pam Dunn asked that DOE provide assurance that decision-making on record management would include public input.

Pam asked about the status of the PEIC and whether the same information would be available to the public. Doug explained that the PEIC lease had been extended to September but would likely be moved after that. In recent years, public use of the PEIC has been minimal. Gary stated that DOE would provide the group a written plan for the PEIC. Tom Schneider explained that the Mound site was dealing with the same challenge and had identified information desired by stakeholders. Doug will get a copy of this report.

Anne Wickham promised to communicate within DOE any committee recommendations on this issue and believes there will be support within DOE to address these issues.

Next Meeting Date

The meeting was adjourned at 8:00 p.m. and the next Stewardship Committee will be held on Thursday, March 14 at 6:30 p.m. All committee members are urged to attend the Future of Fernald Workshop on Wednesday March 13 at Crosby Township Senior Center.

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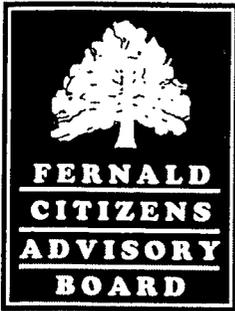


**STEWARSHIP COMMITTEE MEETING
PEIC**

Thursday, March 14, 2002

DRAFT AGENDA

- 6:30 p.m. Opening Remarks and Updates
- 6:45 p.m. Public Use Master Plan
- Summary of Public Meeting
 - Discussion and develop recommendations
- 7:30 p.m. Results of March 13 Workshop
- Summary of Workshop
 - Next Steps
- 8:30 p.m. Adjourn



FULL BOARD MEETING
Public Environmental Information Center

Saturday, March 16, 2002

DRAFT AGENDA AS OF 2/28/02

- | | |
|--------------------|--|
| 8:30 a.m. | Call to Order |
| 8:30 – 8:45 a.m. | Chair's Remarks and Ex Officio Announcements |
| 8:45 – 10:00 a.m. | 2006 Baseline |
| 10:00 – 10:30 a.m. | Ground Water Workshop Statements |
| 10:30 – 10:45 a.m. | Break |
| 10:45 – 11:15 a.m. | Envirocare Waste Acceptance Issues |
| 11:30 – 11:45 a.m. | Results of the Records Workshop |
| 11:45 – 12:00 p.m. | Plans for April Chairs Meeting |
| 12:00 – 12:15 p.m. | Public Comment |
| 12:00 p.m. | Adjourn |



MEMORANDUM

DATE: February 18, 2002
TO: FCAB Members
FROM: Doug Sarno
RE: SSAB Ground Water Statements

Attached is the result of the recent SSAB workshop on ground water. Please review in advance of the March meeting so that we can decide whether to endorse this document as a board.. I have also enclosed a copy of the materials we handed out at the workshop on Fernald ground water. Thanks.

DRAFT TRANSMITTAL LETTER FOR GROUND WATER STATEMENTS (2/7/02)

Ms. Jessie H. Roberson
Asst. Secretary for Environmental Management
U.S. Department of Energy
1000 Independence Avenue
Washington, DC 20585

Dear Ms. Roberson:

The Environmental Management Site Specific Advisory Boards (SSABs) conducted a Groundwater Workshop in Augusta, GA from January 31 – February 2, 2002. Over 100 participants including representatives from all nine SSABs, State and local regulators and interested stakeholders, attended the workshop.

The purpose of the workshop was to improve stakeholder understanding of groundwater cleanup and technology issues; to foster dialog among SSABs about common groundwater issues and concerns; and to provide joint recommendations toward resolution of those concerns.

The results of this workshop are a listing of statements related to ground water. These statements were developed and agreed to by all of the participants attending the workshop. They reflect the consensus opinion of the group. These statements were then taken back to each of the SSABs where they received further endorsement.

I am transmitting these statements to you on behalf of all of the Chairs of the nine SSABs across the country. As you know, members of the SSABs serve on a voluntary basis as active and concerned citizens. A tremendous amount of effort was put forth to develop and endorse these statements, and they reflect the cross-cutting views of the Boards. We strongly encourage the Department of Energy to consider these statements and to provide a response to the SSABs chairs at their next scheduled meeting.

Your consideration of these statements and on-going support is greatly appreciated.

Sincerely,

Wade Waters, Chair
SRS Citizens Advisory Board

cc: The Honorable Christie Whitman, Administrator, U.S. Environmental Protection Agency
Ms. Martha Crosland, EM 11
Mr. Greg Rudy, DOE-SR
Mr. Tom Heenan, DOE-SR
SSAB Chairs

SSAB GROUNDWATER WORKSHOP FINAL STATEMENTS

The nationwide Environmental Management Site-Specific Advisory Boards (SSABs) strongly believe that the cleanup and protection of ground water should be one of the highest priorities of the United States Department of Energy (DOE). Therefore, the SSABs recommend that DOE utilize the following statements as they formulate policy and actions related to ground water, and that they develop performance metrics to track their own and contractor efforts in this area.

Communication and Public Participation

Public awareness of DOE groundwater issues shall be a priority. DOE will work with SSABs and other stakeholders, including tribes, to create and implement communication and community participation activities that ensure public understanding of and participation in site-specific groundwater issues.

DOE, in its decision-making, shall incorporate stakeholder values in choosing appropriate solutions for groundwater issues. DOE and regulators shall establish accountability to stakeholders and tribes through full disclosure and measurable criteria developed with stakeholder and tribal involvement.

Regulatory/Decision Making

Effective and sustainable decision making requires that DOE and its regulators formally incorporate stakeholders, including tribal governments into predecisional planning related to all groundwater issues. Such involvement should be substantive and measurable.

When a remedy decision is made that allows contamination to remain, agencies shall make explicit the rationale being used, including short- and long-term risks, costs, and benefits. Monitored Natural Attenuation (MNA) should not be viewed as a default remediation effort. Rather, MNA may be considered along with viable technology to determine an effective site-specific solution. The remedy decision shall include provisions for periodic independent review and assessment of effectiveness of the remedy.

Groundwater Technology and Research

DOE and regulators shall identify, evaluate, select, and apply best available technologies, incorporating lessons learned across the complex and elsewhere, for preventing and remediating groundwater contamination.

DOE and regulators shall pursue innovative technology for gathering data to develop and validate conceptual models, support decision-making, and confirm effectiveness of groundwater remediation.

SSAB GROUNDWATER WORKSHOP FINAL STATEMENTS

Stewardship of Groundwater

DOE shall establish and implement principles of good stewardship.

- Ensure long-term control of all existing and potential sources that may introduce contaminants to groundwater.
- Design all new operations to prevent adverse impacts to soil and groundwater.
- Fully disclose current and future groundwater and soil contamination in a timely manner.
- Ensure public access to complete information, now and throughout the period of stewardship.
- Fully integrate stewardship principles into an objective and comprehensive planning process that includes local, stakeholder, and tribal concerns.

Implementation of stewardship principles is an obligation that shall be fully funded.

Chair, SRS Citizens Advisory Board

Chair, Fernald Citizens Advisory Board

Chair, Rocky Flats Citizens Advisory Board

Chair, Hanford Advisory Board

Chair, Northern New Mexico CAB

Chair, Paducah GDP SSAB

Chair, NTS Citizens Advisory Board

Chair, INEEL Citizens Advisory Board

Chair, Oak Ridge Citizens Advisory Board

Critical Analysis Team Report

CAT Report #24

30 November 2001

The Critical Analysis Team (CAT) has completed a brief "over the shoulder" review of ongoing silos project design efforts as a follow-up to the CAT's September review of Fluor and Jacobs efforts. This report documents the findings of this review.

The Jacobs engineering team is producing quality engineering documentation. While the CAT has found multiple areas where there are deficiencies (listed below), the Jacobs team is provides sound engineering capabilities for the silos project.

Cost and Schedule

CAT report #23 stated:

Currently, the Silos 1 and 2 schedule is not a useful document. It does not contain a critical path, interim milestones or sequential logic. Personnel responsible for each task should identify work logic and then estimate schedules with interim milestones and resource requirements. These estimates are then rolled-up to the project master schedule and cost estimate. It currently appears that the schedules and cost estimate are not being created in this bottoms-up approach but are rather created from the top-down.

The scheduling documentation for Silo 3 has matured into a useful document. The schedule for Silos 1 and 2 does not yet contain a clear logic and all project activities (e.g. Duratek activities) are not identified on the schedule. In addition, management and integration of these Duratek activities appears diffuse and is difficult to track.

The project Earned Value Management System has improved over the last CAT visit but is not yet fully implemented.

Project master schedules are not being prepared through a roll-up of the sub-project task schedules. Rather, these are separate efforts that are being integrated through task titles and milestones.

Compliance with Engineering Execution Plan (EEP)

In its brief review, the CAT noted areas where silos projects are not in compliance with the EEP. Silo 3, while generally utilizing the EEP to drive design deliverable activities, is not reporting progress according to the EEP. The EEP requires 0-70%, 80%, and 90% graded progress reporting for activities longer than three months. Silo 3, however, is using a 50/50 reporting approach for conceptual design. Jacobs acknowledged that the 50/50 method is not resulting in accurate reporting data and will therefore not be using it in the future.

Silos 1 and 2 is not in compliance with the EEP due to Conceptual Design documentation being moved into the Preliminary Design package and the CAT has not been presented project documentation of this change.

Technical Approach

Overall, the Silo 3 design effort appears to be proceeding apace and will likely meet its schedule for Conceptual Design with an acceptable design package.

Currently, all three silos projects facilities designs assume multiple startup and shut down processes each week. This may not be the best economic or processing approach. As all three silos projects progress, it is critical that facilities are designed consistent with Fernald's operating assumptions. To ensure such consistency, Fluor Fernald should: (1) conduct optimization evaluations to ensure the silos facilities operations approach is economically and technically sound; (2) document it's preferred operations approach for each project; and (3) revise each project's basis of design accordingly.

The Silos 1 and 2 schedule is in jeopardy, particularly because the Conceptual Design deliverables have been added to the Preliminary Design package due in April 2002. The project is still pursuing alternatives studies (e.g. intermodal shipping) that divert effort away from meeting the design schedule. The schedule slippage (presently estimated as 6 weeks) may be acceptable—provided the preliminary design deliverables are of sufficient quality and the 3-D design effort yields the anticipated results.

To maintain progress and prevent further schedule slippage, the Silos 1 and 2 project is facing multiple near-term decisions (e.g. transportation, canister, formulation). Without proactive movement to finalize decisions, the project schedule will likely be significantly delayed.

In report #23, the CAT stated:

The importance of remote systems mock-up, demonstration and testing before completing final design and initiating procurement cannot be overemphasized. This activity is fundamental to the ultimate success of this project. Mock-ups and demonstrations must simulate actual work conditions including operations and maintenance, protective clothing, breathing air, etc.