



**IDAHO NATIONAL ENGINEERING AND  
ENVIRONMENTAL LABORATORY  
CITIZENS ADVISORY BOARD**

**SUMMARY MEETING MINUTES**

**March 15-16, 2005**

**Held at:  
Willard Arts Center  
498 "A" Street  
Idaho Falls, ID**

These minutes were approved and certified by:

*David Kipping*

5-2-05

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David Kipping, Chair, INEEL CAB

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Date

## Idaho National Engineering and Environmental Laboratory Citizens Advisory Board Summary Meeting Minutes

Tuesday, March 15, 2005

### MEETING PARTICIPANTS

**Members:** David Kipping (Chair), Larry Knight (Vice Chair), Seth Beal, John Bolliger, Dick Buxton, Karen Corrigan, D.H. "Doc" DeTonancour, Georgia Dixon, Kenneth Erickson, Paul Faulkner, William Flanery, Lila Gold, Annemarie Goldstein, Ann Nichols, and Willie Preacher (the Shoshone-Bannock representative to the Board).

**Ex-Officio Members:** Rick Provencher (Department of Energy, Idaho Operations Office [DOE-ID]), Kathleen Trever and Rick Denning (State of Idaho), and Nick Ceto (U.S. EPA).

### WELCOME AND INTRODUCTIONS

#### David Kipping, CAB Chair, Opening Remarks

Mr. Kipping opened the meeting and welcomed the CAB. He noted that a lot of effort had been spent to improve the meeting minutes, especially on the part of Karen Corrigan. He asked the CAB to review the minutes and provide comments. He provided two documents on the EM budget for the CAB members' information. He commented on an event involving Yucca Mountain during which Margaret Chu, DOE manager, announced that Yucca Mountain would open in 2012. Kipping reported on the Environmental Management (EM) Site Specific Advisory Board (SSAB) Chairs call and a recent announcement that the incinerator at Oak Ridge was going to remain open. The Nevada Test Site CAB is being dissolved because the National Nuclear Security Agency (NNSA) is now overseeing operations. However, the NNSA has agreed to charter a CAB. Other sites will be undergoing this move from EM to NNSA over the next few years. Kipping suggested that the CAB develop a formal process for resolving issues related to meeting agendas. He would like to involve the committee chairs in deciding what topics to defer when the agenda is too full.

#### Rick Provencher, DOE-ID, Opening Remarks

Mr. Provencher welcomed the group. He has been involved in several procurement activities recently. No announcement of the contractor for the Idaho Cleanup Project (ICP) has yet been made. Another contractual activity is transition of Advanced Mixed Waste Treatment Facility (AMWTF) from British Nuclear Fuels Limited (BNFL) to Bechtel, Babcock Wilcox Incorporated (BBWI). BBWI will take over AMWTF on May 1, and a modification to the BBWI contract is being negotiated. The regulators are supporting the focus on getting waste out of Idaho. This includes regulators from New Mexico and EPA, who must certify that AMWTF can send waste to the Waste Isolation Pilot Plant (WIPP). A certification audit was recently conducted, and DOE is addressing some issues that were identified so that the certification can be approved. DOE has recently put a Basic Ordering Agreement (BOA) into place that makes companies available to bid on small tasks at any DOE site. DOE-ID put in a bid for a contractor to conduct a time and motion study for the dry storage side of building CPP-603. Under this task, experts will review how to improve processes and equipment in order to move fuel out more efficiently. Provencher told the group about two recent reports prepared by the National Academy of Sciences (NAS) and handed out brief summaries. Some of the recommendations in the reports will be part of on-going cleanup discussions.

#### Kathleen Trever, State of Idaho, Opening Remarks

Ms. Trever welcomed the CAB to the meeting. She noted that the new Idaho National Laboratory (INL) contractor has expressed a commitment to support cleanup of the site. Trever commented on the

NAS reports. Two different panels wrote the reports, which happened to be issued the same day. There may be some conflicts between the reports. There is another, separate panel of the NAS that will be looking at tank waste. The panel was chartered by Congress as part of the legislation related to classification of tank residuals. The State of Idaho will be involved with the panel.

**Nick Ceto, EPA, Opening Remarks**

Mr. Ceto noted some recent events at EPA. His office will be physically moving on April 1. EPA devotes 4.7 full time equivalents for Hanford and 2 FTE for Idaho. This is lean staffing, and EPA is hoping to hire one more person. Ceto recognized Provencher and his staff for working with EPA to achieve cleanup. The parties have been able to resolve issues and accomplish work. This is reflected in DOE's ability to obtain full funding for cleanup.

**Frank Russo, BBWI, Opening Remarks**

Mr. Russo commented that the new ICP contractor will rely on Battelle Energy Alliance (BEA) for support. The transition to ICP and INL was accomplished with very little disruption. BBWI was successful in accomplishing its performance objectives this last year. The work was done safely and in compliance. On February 18, checks were distributed to the people who supported the effort.

**Wendy Green Lowe, Facilitator, Meeting Orientation**

Ms. Lowe provided two documents to the CAB that will be discussed during the meeting. She also provided a calendar that identifies upcoming public events. This calendar is provided in response to the CAB's letter regarding public outreach. The Engineering Evaluation/Cost Analysis (EE/CA) for the Accelerated Retrieval Project (ARP) was provided in the pre-meeting mailing. There will be activity during the meeting to determine if a recommendation on the document or other input can be developed.

## **MEMBER AND COMMITTEE REPORTS**

**Annemarie Goldstein (Chair, End State Committee)**

Ms. Goldstein commented on the effort being done by the Consortium for Risk Evaluation with Stakeholder Participation (CRESP) to analyze risk related to cleanup. The two areas of focus are buried transuranic waste and calcine. The CRESP report is expected the end of March. It will be provided to the CAB. The report is related to the end states vision, which is a key effort for the CAB to follow.

**Ann Nichols (Chair, Balance of Cleanup Committee)**

Ms. Nichols reported on the committee's review of the DOE response to the recommendation on the Power Burst Facility (PBF) EE/CA. The committee was pleased with the rapid response. The recommendations were accepted with the exception of the way the in-pile tube was to be managed. More details on cleanup of PBF will be provided at the May meeting.

## **ENVIRONMENTAL MANAGEMENT (EM) PROGRESS STATUS, EMERGING ISSUES**

**Rick Provencher (DOE-ID)**

Provencher reviewed the status and progress of INL cleanup activities. In response to a CAB member's question about potential inefficiencies to be encountered when the new contract is put in place, Provencher noted that the type of contract will provide even more cleanup, although there will be some time for transition to the new ICP contractor. The goal for safety is zero injuries. Injuries are reported in number of injuries per 200,000 worker hours per year. Injuries cannot go unreported as a requirement of worker safety laws.

A CAB member asked how many drums would come out of one-half acre of one of the pits of buried waste. Jeff Perry, DOE-ID, replied that 13,000 drums are expected to be retrieved from the half acre. In response to a question about AMWTF, Provencher replied that the current plan is to have BBWI run AMWTF on a permanent basis.

A CAB member noted that the handout provided prior to the meeting indicated significant delays in several milestones and asked how these delays would be handled. Provencher replied that delays were due to external influences on DOE's plans that affect ability to get the work done. Provencher noted that

DOE would review the milestones and clarify its discussions. The Performance Management Plan (PMP) was developed in 2002, and things have changed. The next step is to award the ICP contract and rebaseline the work. This will lead to modification to the PMP.

In reply to a question about use of the Toxic Substance Control Act (TSCA) incinerator in Oak Ridge to treat legacy waste, Provencher stated he would look into this alternative. A commercial thermal desorption facility in Tennessee has been used to treat waste from Pit 4 that could not go to WIPP.

**Frank Russo (BBWI)**

In response to a question about safety goals, Russo explained that injuries do occur, and employees are encouraged to report them. It is important to gather data about first aid cases and near misses so that it can be studied and serious incidents avoided. Russo provided additional details about plans to demolish the stack at the Experimental Test Reactor (ETR).

**Kathleen Trever (State of Idaho)**

Trever noted that the TSCA incinerator at Oak Ridge has been part of the discussions on waste disposition. However, this incinerator is designed to treat polychlorinated biphenyls (PCBs).

**Nick Ceto (U.S. EPA)**

Ceto commented that the Power Burst Facility (PBF) work is an example of how DOE has listened to the public and the regulators and changed its plans as a result. The work at PBF involved integration of Resource Conservation Recover Act (RCRA) and Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) authorities.

## **ENGINEERING EVALUATION/COST ANALYSIS FOR THE ACCELERATED RETRIEVAL PROJECT – PHASE II**

**Jeff Perry (DOE-ID)**

Mr. Perry reviewed the plans for retrieving waste from Pits 4 and 6. Perry noted that DOE started detecting volatile organics in the groundwater in the early 1990's. The first project to address the problem was the Organic Contamination Vadose Zone Project (OCVZ) that is designed to remove what is moving in the subsurface. The Accelerated Retrieval Project (ARP) will address the source of the contamination. Wastes containing organics can go to WIPP after treatment. In response to a question about the targeted waste streams, Perry noted that the same waste streams are targeted for Pit 4 and Pit 6. Series 742 sludge is not targeted, but since it looks the same as Series 741, it will be pulled out as a practical matter. Perry agreed with a CAB member's observation that efforts to characterize waste for AMWTF is a priority due to a commitment to ship 6,000 cubic meters of waste to WIPP. Waste retrieved from the Pits will be stored until it can be characterized. A CAB member observed that ARP – Phase II (Pit 6) costs less than Phase I (Pit 4). Perry replied that costs for construction of the Phase I enclosure for Pit 4 were less than estimated. This was factored into the cost estimate for construction of Phase II. Higher costs are involved in characterization of the waste from Phase II because more waste is expected to be retrieved. Perry noted that some disposal options have been identified for waste that cannot go to WIPP. If no option is available and the waste is suitable for return to the pit, it will be returned. Perry clarified that even though drums are being found that have structural integrity, they are not in a condition that provides safe storage.

## **PIT 4 AND DOE'S RESPONSE TO THE CAB'S RECOMMENDATION ADDRESSING THE CLEANUP AND CLOSURE OF THE RADIOACTIVE WASTE MANAGEMENT COMPLEX**

**Brandt Meagher (BBWI)**

Jeff Perry introduced Brandt Meagher, BBWI, who provided an overview of the Pit 4 waste inventory and records management.

**Kathleen Trever (State of Idaho)**

Trever commented that the issue of classification of tank residuals should involve oversight and public participation. The process has been lagging, and Trever hopes that it will pick up speed. The classification of Idaho's tank residuals may lag behind South Carolina waste classification because of DOE priorities, but Idaho is interested in moving forward.

Trever commented that the State had reviewed a sampling of the information that was used to develop the waste inventory database and agreed that the data was acceptable. Some corrections are identified and the database is modified as needed. Trever noted that public comments on the ARP EE/CA have identified similar concerns that have been expressed by the CAB on questions such as returning waste to the pits and knowledge of waste characteristics.

The CAB conducted a sounding board of reactions to the presentations and information. This information can be used by the Clean/Close RWMC committee to develop a recommendation.

## **OVERVIEW OF THE IDAHO NUCLEAR TECHNOLOGY AND ENGINEERING CENTER**

### **Keith Lockie (DOE-ID)**

Mr. Lockie provided a presentation on historical processes and activities at Idaho Nuclear Technology and Engineering Center (INTEC). Reprocessing halted in 1992. At that time, the federal government determined that there was sufficient uranium and that there was no need to continue reprocessing. A CAB member noted that concerns about nuclear weapons proliferation also contributed to the decision.

## **STATUS AND PROGRESS FOR THE SODIUM BEARING WASTE AND TANK CLOSURE**

### **Keith Lockie (DOE-ID)**

Mr. Lockie provided a presentation on the composition of sodium bearing waste and efforts to complete closure of the tanks. Lockie clarified that the sodium bearing waste contains transuranic elements in sufficient concentrations to be considered transuranic waste. Lockie provided an estimated schedule for a treatment facility to come on line. Lockie reviewed sodium-bearing waste treatment technologies that have been evaluated over the years.

The new ICP contractor may generate additional liquid waste. It can be handled in tanks separate from the tank farm facility and dispositioned either along with the sodium-bearing waste or separately as other waste. Lockie commented on the recent NAS report which concluded that DOE needed to come up with a better method for making treatment and disposal decisions. The report identified types of waste associated with reprocessing that may be more appropriately dealt with as other-than high level waste and recommended that DOE work with regulators and the public to make decisions on disposition. He noted that the NAS had conducted a previous study of sodium-bearing waste disposition in 1999.

### **Kathleen Trever (State of Idaho)**

Trever commented that the issue of classification of tank residuals should involve oversight and public participation. The process has been lagging, and Trever hopes that it will pick up speed. Idaho's plans may lag behind those of South Carolina and Hanford, but the state is interested in moving forward.

## **STATUS AND PROGRESS FOR THE CALCINE**

### **Greg Duggan (DOE-ID)**

Mr. Duggan provided a presentation on the plans for disposition of calcine. He clarified that the term 'road ready' means when calcine has been packaged into canisters. A CAB member asked about the potential for an accident involving calcine in its powdered form and whether there is consideration of binding it up. Duggan replied that if transportation requirements cannot be met, further treatment may be needed. Duggan explained that an exemption from RCRA would be needed to send the calcine to Yucca Mountain because calcine contains hazardous constituents. The plan is to time packaging into canisters on a 'just in time' basis for shipment to Yucca Mountain so that there would not be a need for lag storage

for the filled canisters. The temperature of calcine is going down over time. The principal short-lived radionuclide is cesium 137 with a 30 year half-life. As this decays, the heat load should be reduced. About 4,100 canisters will be needed for the calcine. Each shipping cask holds five canisters. Casks will be shipped one cask per truck and five per rail car.

**Kathleen Trever (State of Idaho)**

Trever noted that the State is involved in permitting the calcine storage units. There are a lot of uncertainties in planning for calcine disposition. Yucca Mountain is not designed to hold all the SNF and HLW. The state has an agreement to remove the material as of a certain date. Trever noted that the calcine is in safe storage although it may need treatment for final disposal. The state is encouraging the DOE to move forward with activities needed to support disposal.

**Nick Ceto, (U.S. EPA)**

Ceto commented on the uncertainty surrounding disposition of calcine.

**Public Questions and Answers**

A member of the public inquired when in the timeline it would be determined that shipment in canisters is feasible. Duggan noted that it could be three to four years to determine whether this strategy will work. DOE is starting the process now. Provencher commented that the main focus for Yucca Mountain at this time is the license application. A RCRA permit will be needed for calcine retrieval and for any treatment.

**U.S. NAVY'S SPENT NUCLEAR FUEL MANAGEMENT PROGRAM: NAVAL REACTOR FACILITY'S DRY STORAGE FACILITY AND FUEL THAT IS CURRENTLY STORED AT INTEC**

**Wendy Dixon (Naval Reactors, Idaho Branch Office)**

Ms. Dixon provided a presentation on the U.S. Navy's SNF management program and a publication on the history of the program. A CAB member asked about the safety of fuel if a ship sinks. Steve Dunn, the director of the Naval Reactors Idaho Branch Office replied that the likelihood of severe casualties has been studied as well as the results of accidents. No problems have been seen to date, although monitoring continues. Dixon noted that most of the effort to package the fuel that will be returned from INTEC will be done at Naval Reactors. The fuel will still be radioactive after it has been utilized. All naval fuel that is not in use is located in Idaho. The over packs in which the fuel will be placed are for storage. Separate over packs are used for transportation and final disposal. Naval fuel has been shipped to Idaho since 1957. A CAB member asked about the photo in the publication that shows reactor compartments at Hanford. Dunn explained that the compartments are emptied and are to be disposed at Hanford. A CAB member commented that tribal representatives near Hanford have concerns about shipment of the compartments via the Columbia River.

**MEMBER AND COMMITTEE REPORTS (CONTINUED)**

**Annemarie Goldstein (Administrative Committee)**

Goldstein reported that the Administrative Committee had considered holding an evening session to encourage interaction with the public. The committee is not in favor of conducting evening or late afternoon sessions.

**Karen Corrigan (Co-Chair, Administrative Committee)**

Corrigan reviewed the proposed changes to the CAB procedures. The CAB decided to wait until the next meeting to consider the changes.

## **FACILITATED DISCUSSION OF THE ROLES AND RESPONSIBILITIES OF INEEL CAB REPRESENTATIVES AT CHAIRS MEETINGS AND OF WHO SHOULD ATTEND THE CHAIRS MEETING**

Kipping indicated that any representatives to the Chairs meetings are in attendance to speak for the CAB and not as individuals. Corrigan will attend with the chair.

## **FACILITATED DISCUSSION ABOUT INFORMATION TO BE PRESENTED ON BEHALF OF THE INEEL CAB AT THE APRIL CHAIRS MEETING**

The CAB listed issues that could be presented to the Chairs as the top issues of interest to the CAB. The CAB selected the following four issues:

- Aquifer protection including VOC mobility and excavation of buried waste
- Development of nuclear energy, including wastes produced
- Contingency plans for Yucca Mountain
- Long term planning for cleanup

The CAB also discussed what should be reported to the Chairs regarding how support is provided to the CABs and what the role of the CAB would be at sites moving away from management by EM.

## **WHAT THE CAB'S ROLE IS, WHO THE CAB ADVISES, AND HOW THE CAB DEVELOPS ITS ADVICE**

The CAB reviewed and discussed its mission statement. Provencher provided his perspective on the mission of the CAB. The role of a CAB member as a representative of particular interests was discussed.

**Wednesday, March 16, 2005**

## **STATUS AND PROGRESS FOR THE SPENT NUCLEAR FUEL PROGRAM**

### **Katie Hain (DOE-ID)**

Katie Hain provided a presentation on spent nuclear fuel (SNF) and its management at the site and at the Fort St. Vrain facility in Colorado. A CAB member noted that SNF from ATR is 0.5 metric tons and asked if this was an entire core or half a core? Hain replied she would obtain that information. Hain explained that the fuel in storage at Fort St. Vrain could require further packaging, but no design has been finalized. Fuel is sent to Idaho to allow for centralized packaging activities for the repository.

Ceto, EPA, asked how the amount of fuel that came out of the K Reactor at Hanford compared to the fuel at Idaho. Hain will follow up on this.

The material from Three Mile Island consists of mostly intact fuel, debris containing special nuclear materials, and debris. It is separated into these three types for management.

A CAB member observed that there was still energy left in SNF and asked about the criteria for fuel to be considered spent. Hain explained that SNF is produced once fuel is irradiated for power purposes. There is no set level of radiation to determine when it becomes SNF. The distinction between SNF and other irradiated materials is how the material is used. Hain stated that when fuel has been irradiated and removed from a reactor, it is not feasible to reload it.

Hain noted that wet storage was the original method for storage of SNF. This was an efficient way of removing heat, but there are problems managing the fluids used in cooling. These problems led to development of technologies for dry storage.

DOE has submitted a proposed design for packaging as part of its license application for Yucca Mountain, but it is not certain that this will be the approved design.

In response to a question about treatment of sodium bonded fuel, Hain will provide the CAB a brief summary of the process, which is located at the Materials and Fuel Complex (MFC).

Hain provided further explanation of the problems encountered in moving SNF into dry storage at building CPP-603 and those envisioned in moving SNF out of storage. A study of the process is being conducted to make sure movements flow efficiently.

Hain described the sources of the SNF shipments to Idaho. Hain explained that the Navy pays for SNF storage at INTEC. She described the efforts between DOE and the Navy to plan the process of returning Naval Reactors SNF to the Naval Reactors Facility.

Dixon explained that Naval Reactors would set the process for fuel returns. Costs of conducting the return will be borne by Naval Reactors. Discussions between DOE and Naval Reactors are focusing on roles and responsibilities.

## **STATUS OF THE FOSTER-WHEELER FACILITY**

### **Jan Hagers (DOE-ID)**

Mr. Hagers provided a presentation on plans for the Idaho Spent Fuel Facility, also referred to as the Foster-Wheeler facility. A CAB member noted the financial status of Foster-Wheeler and asked what would happen to the license process if Foster-Wheeler could not proceed. Hagers replied that the license could be transferred. DOE has agreed to be financially responsible for decommissioning the facility. A CAB member noted that there were complications and difficulties with privatized projects at the site, and asked why DOE continued these projects. Provencher stated that no further privatization contracts were planned for Idaho. Hagers noted that it can be difficult for private contractors to build unique facilities such as the Foster-Wheeler storage and packaging facility. When asked what would happen if the contract was terminated, Hagers indicated that DOE and FWENC would revisit costs to determine actual costs, and that DOE would be responsible only for amounts expended. Hagers explained that the Foster-Wheeler facility is a modular design and could be expanded if more storage capacity is needed.

## **STATUS OF THE IDAHO COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT DISPOSAL FACILITY**

### **Mary Verwolf (DOE-ID)**

Ms. Verwolf provided an overview of the Idaho Comprehensive Environmental Response, Compensation and Liability Act Disposal Facility (ICDF).

### **Nick Ceto (U.S. EPA)**

Ceto commented that there is a process for making changes at ICDF, but the Record of Decision (ROD) is the controlling document. If there is a significant change affecting the ROD, the process for changing the ROD would be followed. EPA prefers to have waste disposed in a proper facility such as ICDF if possible.

### **Rick Denning (State of Idaho)**

Denning noted that the State Department of Environmental Quality is very involved in regulation of the ICDF.

## **CAB Questions and Answers**

A CAB member asked about the protective equipment required for workers in the facility. Thus far, fairly innocuous waste streams have been handled, and gloves and booties were used. However, other equipment is available for workers when more hazardous waste streams are to be managed.

The effect on migratory birds was considered when the limits were set for the evaporation ponds. Hain explained what types of aqueous waste streams could be accepted at ICDF. Hain explained formation and monitoring of perched water zones.

There are limits on radionuclides that can be accepted. Limits are specific to radionuclides and are also set for total radionuclides. The in-pile tube from PBF has been placed in a special box and special procedures have been developed for disposal. Ceto noted that it seemed more appropriate to place the in-pile tube in a lined rather than an un-lined waste disposal facility.

A CAB member asked what would be done with waste generated after ICDF closes in 2013. Hain explained that 2013 reflects the schedule for removal of contaminated soils at INTEC. Much of the remediation at other locations that was considered in ICDF design has been completed. The final ROD for cleanup may change the timeframe for operation of the facility if the need continues.

A CAB member asked for more discussion on the radiation involved with the in-pile tube. Hain explained the limits for radioactive nickel were met by placing the in-pile tube in a box that provides shielding.

## **STATUS OF ICP CONTRACT**

Provencher stated that there has been an unanticipated delay with regard to award of the ICP contract. Provencher clarified that he is not privy to the activities and decisions of the board conducting the selection process. It is his responsibility to ensure that work continues with the current contractor should it go beyond May 1. The scopes of work to be accomplished in fiscal year 2005 are fairly well understood. A contract modification or extension may be likely.

Russo commented that the work force has not been significantly interrupted by the upcoming contract award. Planning beyond April 30 has been done to support the new contract and as a contingency in the event of a delayed contract award. A CAB member asked how many people would be affected by a new contractor. Russo indicated that 42 managers, and force account and temporary workers could be affected. Russo noted that under the contract, certain contracts must be assumed and others are optional. A CAB member stated that the work force includes represented and unrepresented workers. Events such as the contract award delay are understood by workers to occur although they would like to know who they are working for and for how long. One thing that is different at Idaho is that there is a continuing mission in the National Laboratory. The contract is a cleanup contract, not a completion contract. There will be work after 2012.

## **FACILITATED DECISION ABOUT THE NAME OF THE CAB**

The CAB identified potential names for the CAB. The CAB selected the name of the INL CAB. The CAB will inform DOE Headquarters that this name has been chosen.

## **FACILITATED DISCUSSION OF INEEL CAB'S WILLINGNESS TO HOST OCTOBER 2005 CHAIRS MEETING**

Kipping described activities involved in planning and arranging a chairs meeting. The CAB decided to offer to hold the chairs meeting in April 2006, so long as the administrative committee is satisfied that the additional costs to the CAB of a meeting would be borne by DOE.

## **PROGRAMMATIC SPENT NUCLEAR FUEL MANAGEMENT AND IDAHO NATIONAL ENGINEERING LABORATORY ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT PROGRAMS ENVIRONMENTAL IMPACT STATEMENT SUPPLEMENT ANALYSIS**

### **Mark Arenaz (DOE-ID)**

Mr. Arenaz provided a presentation on the supplement analysis being conducted of the Environmental Impact Statement (EIS). A CAB member asked if changes in the Yucca Mountain project

could affect the EIS. Arenaz noted that that this could affect it, but this would be considered by DOE Headquarters.

A member of the public asked whether the EIS covered only 10 years. Arenaz replied that the record of decision goes through 2005, and DOE is reviewing the EIS to determine if it can be used to support planning beyond 2005.<sup>1</sup>

### **CLEANUP AND CLOSURE OF THE IDAHO NUCLEAR TECHNOLOGY AND ENGINEERING CENTER (CONTINUED)**

The CAB conducted a sounding board and had discussion about the information presented. The Clean Close INTEC Committee will work with this information and assess whether a recommendation should issue.

### **ENGINEERING EVALUATION/COST ANALYSIS FOR THE ACCELERATED RETRIEVAL PROJECT (CONTINUED)**

The CAB discussed the recommendation. Consensus could not be reached and the recommendation was referred back to the committee.

### **BOARD WORK**

- The CAB reviewed the preliminary agenda for the May meeting.
- The CAB reviewed the committee meeting schedule

### **Next steps and action items**

Thank you letters to presenters, noting the quality was above average.

### **Meeting Evaluation for the March 2005 Meeting**

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Poster Boards, photos	Not clear what rules applied to discussion of chairs meeting – process did not work well
Jeff Perry acronym sheet	A big map would be useful for every meeting
Map from Rick’s presentation was good. A big map with new facility names would be useful for every meeting	
Support staff and room arrangements	
Fuel samples	
Refreshments	
Foster-Wheeler presentation	
Brant Meagher presentation on historical records	
Minutes from January meeting	

### **Next Meeting**

*The next meeting of the Idaho National Engineering and Environmental Laboratory (INEEL) Citizens Advisory Board (CAB) will be May 17-18, 2005, at the Hampton Inn & Suites in Nampa, Idaho. The meeting will be from 8 a.m. to 6 p.m. Tuesday, May 17, 2005 and from 8 a.m. to 5 p.m. Wednesday, May 18, 2005. The CAB will receive comments from the public at various times throughout the meeting as indicated on the final meeting agenda.*

<sup>1</sup> See Attachment D, DOE Clarification



**LIST OF ATTACHMENTS**

*Attachments are included at the end of the minutes*

- Attachment A ..... January 2005 Final INEEL CAB Meeting Agenda
- Attachment B ..... INEEL CAB Meeting Attendance
- Attachment C ..... Public Attendance
- Attachment D ..... Clarification

**LIST OF EXHIBITS**

*Exhibits and handouts are not included in the minutes, but are available upon request by calling the INEEL CAB Support Staff at (208) 557-7886.*

- Exhibit 1 ..... INEEL Citizens Advisory Board Update
- Exhibit 2 ..... Accelerated Retrieval Project – Phase II
- Exhibit 3 ..... Subsurface Disposal area Buried Waste Information
- Exhibit 4 ..... Idaho Nuclear Technology and Engineering Center Overview
- Exhibit 5 ..... Disposition of Sodium-Bearing Waste and Tank Closure
- Exhibit 6 ..... Calcine Disposition Project
- Exhibit 7 ..... U.S. Naval Nuclear Propulsion Program
- Exhibit 8 ..... Spent Nuclear Fuel Program
- Exhibit 9 ..... Idaho Spent Fuel Facility
- Exhibit 10 ..... Idaho Comprehensive Environmental Response,  
Compensation, and Liability Act (CERCLA) Disposal Facility (ICDF) Complex
- Exhibit 11 ..... 2005 Supplement Analysis Project

**LIST OF HANDOUTS**

- Handout 1 ..... Response to Citizens Advisory Board Recommendation #119  
on Cleanup and Closure of the Radioactive Waste Management Complex
- Handout 2 ..... Final End States Vision Document for Idaho National Laboratory
- Handout 3 ..... INL Outreach Calendar
- Handout 4 ..... National Academy of Sciences Report (Synopsis of Reports)



**ATTACHMENT A**  
**March 2005 Final Agenda**

Idaho National Engineering and Environmental Laboratory  
Citizen Advisory Board  
FINAL AGENDA FOR THE MARCH 2005 MEETING

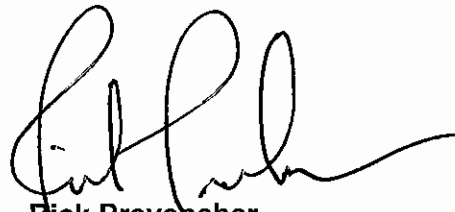
The following signatures indicate final approval for the agenda for the March 2005 meeting of the Idaho National Engineering and Environmental Laboratory Citizens Advisory Board.

All requests for changes after the final agenda has been signed must be approved by both the INEEL CAB Chair and the Deputy Designated Federal Official.

Requests for changes to the agenda should be directed to the CAB's Facilitator, Wendy Lowe by calling (208) 522-1662, ext. 3012, or via email to [wlowe@jason.com](mailto:wlowe@jason.com).



David Kipping  
Chair, INEEL CAB



Rick Provencher  
Deputy Designated Federal Official

**Idaho National Engineering and Environmental Laboratory  
Citizens Advisory Board  
FINAL AGENDA FOR THE MARCH 2005 MEETING**

*Note: The name of the Idaho National Engineering and Environmental Laboratory was changed to the Idaho National Laboratory on January 31, 2005. The Citizens Advisory Board has not yet determined how it will change its name.*

**Meeting Location**

Willard Arts Center  
498 "A" Street  
Idaho Falls, Idaho

**Meeting Dates and Times (times approximate)**

Tuesday, March 15, 2005 from 8:00 A.M. to 6:00 P.M. with a lunch break from 12:30 P.M. to 1:30 P.M.  
Wednesday, March 16, 2005 from 8:00 A.M. to 5:00 P.M. with a lunch break from 12:15 P.M. to 1:15 P.M.

**Opportunities for Public Participation (times approximate)**

Tuesday, March 15, 2005 from 11:50 A.M. to 12:05 P.M. and 4:20 P.M. to 4:35 P.M.  
Wednesday, March 16, 2005 from 11:05 A.M. to 11:20 A.M. and 2:05 P.M. to 2:20 P.M.

**Meeting Objectives**

The March 2005 meeting of the Idaho National Engineering and Environmental Laboratory Citizens Advisory Board will be designed to achieve the following objectives:

- > Receive a presentation addressing the status of the Environmental Management Program addressing items of potential interest to the CAB (including the decommissioning activities for the Power Burst Facility and demonstration of thermal desorption) and award of new Idaho Cleanup Project contract (if appropriate)
- > Receive presentations and status reports relevant to the theme of the meeting which will be focused on the cleanup and closure of the Idaho Nuclear Technology and Engineering Center, including:
  - Overview presentation on the Idaho Nuclear Technology and Engineering Center
  - The status and progress related to sodium bearing waste and tank closure
  - The status and progress related to the calcine
  - A brief overview of the Naval spent nuclear fuel program, including the status of the Naval Reactor Facility's dry storage facility and the fuel that is currently located at INTEC
  - The Spent Nuclear Fuel Program - Status and Progress - including transfer of fuels from wet to dry, status of fuel basins, and orphan fuels (sodium bonded fuel, Fermi blanket fuel, and epoxy treated fuel)
  - The Foster Wheeler facility
  - The Programmatic Spent Nuclear Fuel and Idaho National Environmental Laboratory Environmental Restoration and Waste Management Program Environmental Impact Statement supplement analysis
- > Discuss information presented within the theme of the meeting and develop ideas for possible future recommendations (if desired)
- > Receive a presentation and develop consensus on a recommendation addressing the Engineering Evaluation and Cost Analysis for the Accelerated Retrieval Project
- > Receive a status report on the Pit 4 Project
- > Discuss CAB processes used to develop recommendations

**Idaho National Engineering and Environmental Laboratory  
Citizens Advisory Board  
Final Agenda for Tuesday, March 15, 2005**

<b>Welcome and Introductions</b>	<b>8:00 AM - 8:45 AM</b>
David Kipping (INEEL CAB Chair) Opening remarks	8:00 AM - 8:15 AM
Rick Provencher (Deputy Designated Federal Official) Opening remarks	8:15 AM - 8:25 AM
Kathleen Trever (State of Idaho) Opening remarks	8:25 AM - 8:30 AM
Nick Ceto (U.S. Environmental Protection Agency) Opening remarks	8:30 AM - 8:35 AM
Frank Russo (INEEL Liaison) Opening remarks	8:35 AM - 8:40 AM
Wendy Green Lowe (Facilitator) Meeting orientation	8:40 AM - 8:45 AM
<b>Member and Committee Reports</b>	<b>8:45 AM - 8:55 AM</b>
Annemarie Goldstein (End State Committee Chair) Report on Status of the Independent Risk Assessment being prepared by the Center for Risk Excellence with Stakeholder Participation and the Committee's plans for CAB review of that document	8:45 AM - 8:50 AM
Ann Nichols, (Balance of Cleanup Committee Chair) Report on Committee's review of DOE's response to CAB Recommendation #120 addressing the Engineering Evaluation/Cost Analysis for Phase 1 of the Decommissioning for the Power Burst Facility Reactor Building	8:50 AM - 8:55 AM
<b>Break</b>	<b>8:55 AM - 9:10 AM</b>
<b>Environmental Management Program Status and Items of Potential Interest to the INEEL CAB</b>	<b>9:10 AM - 10:10 AM</b>
Rick Provencher (DOE-ID) Presentation	9:10 AM - 9:50 AM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	9:50 AM - 9:55 AM
CAB questions and answers	9:55 AM - 10:05 AM
Public questions and answers	10:05 AM - 10:10 AM
<b>Engineering Evaluation/Cost Analysis for the Accelerated Retrieval Project</b>	<b>10:10 AM - 10:50 AM</b>
Jeff Perry (DOE-ID) Presentation	10:10 AM - 10:30 AM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	10:30 AM - 10:35 AM
CAB questions and answers	10:35 AM - 10:45 AM
Public questions and answers	10:45 AM - 10:50 AM
<b>Break</b>	<b>10:50 AM - 11:05 AM</b>

<b>Pit 4 and DOE's Response to the CAB's Recommendation Addressing the Cleanup and Closure of the Radioactive Waste Management Complex</b>	<b>11:05 AM - 11:50 AM</b>
Jeff Perry (DOE-ID) Presentation	11:05 AM - 11:35 AM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	11:35 AM - 11:40 AM
CAB questions and answers	11:40 AM - 11:45 AM
Public questions and answers	11:45 AM - 11:50 AM
<b>Public Participation</b>	<b>11:50 AM - 12:05 PM</b>
David Kipping (INEEL CAB Chair) Invite public comment on issues under consideration	
<b>Engineering Evaluation/Cost Analysis for the Accelerated Retrieval Project (continued)</b>	<b>12:05 PM - 12:30 PM</b>
Facilitated sounding board of reactions to and concerns about the document	
<b>Lunch</b>	<b>12:30 PM - 1:30 PM</b>
<b>Overview of the Idaho Nuclear Technology and Engineering Center</b>	<b>1:30 PM - 2:15 PM</b>
Joel Case, Keith Lockie, and Katie Hain (DOE-ID) Presentation	1:30 PM - 2:00 PM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	2:00 PM - 2:05 PM
CAB questions and answers	2:05 PM - 2:10 PM
Public questions and answers	2:10 PM - 2:15 PM
<b>Status and Progress for the Sodium Bearing Waste and Tank Closure</b>	<b>2:15 PM - 3:00 PM</b>
Joel Case and Keith Lockie (DOE-ID) Presentation	2:15 PM - 2:45 PM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	2:45 PM - 2:50 PM
CAB questions and answers	2:50 PM - 2:55 PM
Public questions and answers	2:55 PM - 3:00 PM
<b>Status and Progress for the Calcine</b>	<b>3:15 PM - 3:50 PM</b>
Greg Duggan (DOE-ID) Presentation	3:15 PM - 3:35 PM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	3:35 PM - 3:40 PM
CAB questions and answers	3:40 PM - 3:45 PM
Public questions and answers	3:45 PM - 3:50 PM

**U.S. Navy's Spent Nuclear Fuel Management Program: Naval Reactor Facility's Dry Storage Facility and the Fuel that is Currently Stored at INTEC**

3:50 PM - 4:20 PM

Wendy Dixon (Naval Reactors, Idaho Branch Office) Presentation

3:50 PM - 4:05 PM

CAB questions and answers

4:05 PM - 4:15 PM

Public questions and answers

4:15 PM - 4:20 PM

**Public Participation**

4:20 PM - 4:35 PM

David Kipping (INEEL CAB Chair) Invite public comment on issues under consideration

**Break**

4:35 PM - 4:50 PM

**Member and Committee Reports (continued)**

4:50 PM - 5:15 PM

Annemarie Goldstein (Administrative Committee) Report on Committee's discussion of the idea of hosting evening sessions for members of the public

4:50 PM 4:55 PM

Facilitated discussion of the roles and responsibilities of INEEL CAB representatives at Chairs Meetings

4:55 PM 5:00 PM

Facilitated decision of who should represent the INEEL CAB at the April 2005 Chairs Meeting

5:00 PM 5:10 PM

Karen Corrigan (Administrative Committee Co Chair) Review of Proposed Amendments to the CAB Procedures

5:10 PM 5:15 PM

**What the CAB's Role is, Who the CAB Advises, and How the CAB Develops its Advice**

5:15 PM - 6:00 PM

Facilitated discussion

**Idaho National Engineering and Environmental Laboratory  
Citizens Advisory Board  
Final Agenda for Wednesday, March 16, 2005**

<b>Status and Progress for the Spent Nuclear Fuel Program</b>	<b>8:00 AM - 9:05 AM</b>
Katie Hain (DOE-ID) Presentation	8:00 AM - 8:45 AM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	8:45 AM - 8:55 AM
CAB questions and answers	8:55 AM - 9:00 AM
Public questions and answers	9:00 AM - 9:05 AM
<b>Break</b>	<b>9:05 AM - 9:20 AM</b>
<b>Status of the Foster-Wheeler Facility</b>	<b>9:20 AM - 10:05 AM</b>
Jan Hagers (DOE-ID) Presentation	9:20 AM - 9:50 AM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	9:50 AM - 9:55 AM
CAB questions and answers	9:55 AM - 10:00 AM
Public questions and answers	10:00 AM - 10:05 AM
<b>Status of the Idaho Comprehensive Environmental Response, Compensation, and Liability Act Disposal Facility</b>	<b>10:05 AM - 10:50 AM</b>
Mary Verwolf (DOE-ID) Presentation	10:05 AM - 10:35 AM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	10:35 AM - 10:40 AM
CAB questions and answers	10:40 AM - 10:45 AM
Public questions and answers	10:45 AM - 10:50 AM
<b>Break</b>	<b>10:50 AM - 11:05 AM</b>
<b>Public Participation</b>	<b>11:05 AM - 11:20 AM</b>
David Kipping (INEEL CAB Chair) Invite public comment on issues under consideration	
<b>Engineering Evaluation/Cost Analysis for the Accelerated Retrieval Project (continued)</b>	<b>11:20 AM - 12:00 PM</b>
Facilitated discussion of CAB recommendation addressing the document	
<b>Lunch</b>	<b>12:00 PM - 1:00 PM</b>
<b>Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Environmental Impact Statement Environmental Impact Statement supplement analysis</b>	<b>1:00 PM - 1:55 PM</b>
Mark Arenaz (DOE-ID) Presentation	1:00 PM - 1:30 PM
Kathleen Trever (State of Idaho) and Nick Ceto (U.S. Environmental Protection Agency) Agency perspectives	1:30 PM - 1:40 PM
CAB questions and answers	1:40 PM - 1:50 PM
Public questions and answers	1:50 PM - 1:55 PM

<b>Break</b>	1:55 PM - 2:05 PM
<b>Public Participation</b>	2:05 PM - 2:20 PM
David Kipping (INEEL CAB Chair) Invite public comment on issues under consideration	
<b>Cleanup and Closure of the Idaho Nuclear Technology and Engineering Center (continued)</b>	2:20 PM - 2:50 PM
Facilitated discussion of CAB reactions to and concerns about information presented and plans for further consideration	
<b>Break</b>	2:50 PM - 3:00 PM
<b>Member and Committee Reports (continued)</b>	3:00 PM - 4:05 PM
Facilitated decision about the name of the CAB	3:00 PM - 3:15 PM
Facilitated discussion of changes to the CAB Procedures	3:15 PM - 3:30 PM
Facilitated discussion about information to be presented on behalf of the INEEL CAB at the April meeting	3:30 PM - 3:50 PM
Facilitated discussion of INEEL CAB's willingness to host October 2005 Chairs Meeting	3:50 PM - 4:05 PM
<b>Break</b>	4:05 PM - 4:15 PM
<b>Board Work</b>	4:15 PM - 5:00 PM
Status of efforts under the INEEL CAB's Annual Work Plan	4:15 PM - 4:25 PM
Topics for discussion at the May 2005 meeting	4:25 PM - 4:35 PM
Committee schedule	4:35 PM - 4:40 PM
Next steps and action items	4:40 PM - 4:45 PM
Meeting evaluation for the March 2005 meeting	4:45 PM - 4:55 PM
Success stories	4:55 PM - 5:00 PM



**ATTACHMENT B**

**INEEL CAB Meeting Attendance**

	Tuesday March 15, 2005				Wednesday March 16, 2005			
	Time In	Time Out	Time In	Time Out	Time In	Time Out	Time In	Time Out
<b>INEEL CAB Members</b>								
David Kipping (Chair)	7:35	12:30	1:30	6:00	8:00	12:30	1:30	5:30
Lawrence Knight (Vice Chair)	8:00	12:30	1:30	6:00	8:00	12:30	1:30	5:05
Seth Beal	8:30	12:30	1:30	6:00	8:00	12:30	1:30	5:05
John Bolliger	8:00	12:30	1:30	6:00	7:50	12:30	1:30	5:05
Richard Buxton	7:50	12:30	1:30	6:00	7:50	12:30	1:30	5:05
Karen Corrigan	7:50	12:30	1:30	6:00	8:05	12:30	1:30	5:15
D.H. DeTonancour	7:50	12:30	1:30	6:00	7:50	12:30	1:30	5:05
Georgia Dixon	7:55	12:30	1:30	6:00	8:00	12:30	1:30	5:05
Kenneth Erickson	8:00	12:30	1:30	6:00	8:00	12:30	1:30	5:00
Paul Faulkner	7:52	12:30	1:30	6:00	7:50	12:30	1:30	5:05
William Flanery	8:00	12:30	1:30	6:00	8:01	12:30	1:30	5:05
Lila Gold	7:55	12:30	1:00	6:00	8:00	12:30	1:30	5:05
Annemarie Goldstein	7:55	12:30	1:30	6:00	7:50	12:30	1:30	5:05
Ann Nichols	7:50	12:30	1:30	6:00	7:55	12:30	1:30	5:05
Willie Preacher	7:55	12:30	1:30	5:05			1:45	5:05
<b>State of Idaho/EPA</b>								
Kathleen Trever, State	8:00	12:25	1:55	6:00	8:00	12:00		
Rick Denning, State					7:45	12:00	1:00	
Nick Ceto, U.S. EPA	8:00	12:15	1:30	6:00	7:55	12:00	1:30	3:50
<b>DOE-ID Representatives</b>								
Rick Provencher, DOE-ID	8:00	12:30	1:30	6:00	8:00	12:00	1:00	5:00
Shannon Brennan, DOE-ID	7:50	12:30	1:30	6:00	7:00	12:00	1:00	5:15
Bill Leake, DOE-ID	8:00	12:30	1:30	6:00	8:00	12:00	1:00	5:00
<b>INEEL Liaison</b>								
Frank Russo	7:30	12:30	1:30	4:00	8:30	11:35		
Kliss McNeel					8:30	12:00	1:00	



## ATTACHMENT C

### Members of the Public in Attendance March 15-16, 2005

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#### March 15, 2005

Erik Simpson, BBWI  
Brian Edgerton, DOE-ID  
Stephen Dunn NR-IBO – Naval Reactors  
Rob Homes, BNFL  
Wendy Dixon, NR-IBO  
Hopi Salomon, Washington Group International  
Jeff Perry, DOE-ID  
Kathy Falconer, Areva  
Chuck Rice  
Beatrice Brailsford, Snake River Alliance

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#### March 16, 2005

Wendy Dixon, NR-IBO  
Mark Arenaz, DOE-ID  
Beatrice Brailsford, Snake River Alliance

## **ATTACHMENT D**

### **DOE Clarification**

The EIS supported the record of decision (ROD), which covered the specific projects described in its appendix. These specific projects were expected to be implemented within the 10 year planning horizon and sufficiently well defined to analyze in the EIS and address in the ROD. DOE is currently conducting a supplement analysis (SA) on the EIS to determine: (1) if any major action remains to occur in the projects covered by the ROD, and (2) if there are any significant new circumstances or information relevant to environmental concerns and bearing on these projects' impacts that will affect the quality of the human environment in a significant manner or to a significant extent not already considered in this or subsequent EISs. DOE will also be assessing the extent the EIS forms an adequate baseline to support planning beyond 2005.