The Savannah River Site (SRS) Citizens Advisory Board (CAB) Waste Management Committee (WMC) and the Nuclear Materials (NM) Committee met jointly on Tuesday, September 9, 2008, 5:30-7:30 p.m., at Newberry Hall, in Aiken SC.

The purpose of the meeting was to discuss the 1) the General Accounting Office (GAO) Report on reduction of risks prior to processing additional nuclear material at the Savannah River Site H-Canyon, presented by Allen Gunter, DOE-SR; and 2) Plutonium Disposition to the Defense Waste Processing Facility, presented by Jean Ridley, DOE-SR and to provide an opportunity for public comments on CAB related documents.

ATTENDEES:

CAB Members	Stakeholders	DOE/Contractors/Others
- Joe Ortaldo, WMC Chair	Karen Patterson, Public	Sheron Smith, DOE-SR
- Manuel Bettencourt, NM		
Chair	Greg Grunzel, SCDHEC	Marc Woodworth, DOE-SR
- Alex Williams, WMC Vice		
Chair	Joan Mobley, Public	Glenn Christenbury, DOE-SR
- Judy Greene, NM Vice		
Chair	Murray Riley, Public	Patrick McGuire, DOE-SR
- Stan Howard, NM Vice		
Chair	Liz Goergen, Public	Jean Ridley, DOE-SR
Leon Chavous	Chuck Goergen, Public	Terry Spears, DOE-SR
Ed Burke	Rick Castagna, Public	Mark Keefer. WSRC
Don Bridges	Matt Duncan, DNFSB	Pete Hill, WSRC
Wendell Lyon	Gayle Gulick, Public	Rob Trimble, SRNS
Kathe Golden	Virginia Dunkelbarger, Public	Les Sorenberg, WSRC
Donna Antonucci	Howard Gnann, Public	Larry Ling, SRNS
Madeleine Marshall	Liz Goodson, Public	Paul Sauerborn, SRNS
Sarah Watson	Lee Poe, Public	Dawn Gillas, DOE-SR
	Martha Berry, EPA	Allen Gunter, DOE-SR
	Alan Eckmyre, Technical	
	Advisor	

Welcome and Introduction:

Manuel Bettencourt, NM Chair, called the meeting to order. He acknowledged that this is a joint committee meeting with the Waste Management Committee and recognized Mr. Joe Ortaldo, WMC Chair. Mr. Bettencourt welcomed and thanked everyone for attending the meeting.

Mr. Bettencourt, NM Chair, referenced the meeting ground rules and encouraged participation of all attendees. Then, the attendees introduced themselves.

Mr. Bettencourt, NM Chair, reviewed the agenda topics and the upcoming committee meeting schedule.

Committee Update:

Mr. Bettencourt, NM Chair, provided an update and status of the three NM open and pending recommendations. He stated that the Recommendation on the NMDCCC would be discussed with the NM Committee vice chairs to consider closure. Mr. Bettencourt informed the attendees that Stan Howard, CAB member, attended a meeting today where

the status of Yucca Mountain opening was provided. Mr. Bettencourt requested a briefing from Mr. Howard.

Mr. Ortaldo, WMC Chair, provided a status of the Waste Management Committee activities, the solvent waste transport completion success, and the success of the DWPF pouring of canisters this fiscal year. He reviewed the status of the WMC open and pending recommendations.

Committee Meeting Summary:

Allen Gunter, DOE-SR, provided an overview of the methodology, results, and recommendations from the GAO review of nuclear materials processing in H Canvon/HB Line at SRS. He stated that the review was performed at the request of the Subcommittee on Energy and Waste Development on Appropriation. The review included the types of material to be processed in H Canyon/HB Line and associated costs; the waste generation and whether SRS facilities can process and disposition this waste; and ensure compliance with safety and environmental requirements. The review was conducted between October 2007 and July 2008. The reviewers conducted a review of DOE's nuclear materials disposition plans, how costs are estimated, how milestones are determined, Waste Management Plans, DOE Business Plans, Project Management, DNFSB Reports, and the process to monitor performance. The reviewers interviewed EM personnel, NNSA personnel, and IG personnel. The GAO report identified no safety concerns with operating H Canyon/HB Line through 2019, provided DOE invests in the planned Open discussions expressed concerns by the Committee infrastructure upgrades. members included creating additional waste for disposition; the path to disposition the waste; costs; and the impacts of long-term storage if Yucca Mountain does not open. Questions from the committee members included how DOE and SRNS have input into the NMDCCC decisions; when NNSA takes over the site, will there be a split of ownership and the Canyons remain under EM? There will not be a split of ownership of the Canvons. The Canvons will be shut down and decommissioned under the EM scope. DOE ensured that the costs have been added; the waste disposition path has been determined; and that H Canvon did not have a defined mission until after 2007 so did not have a long mission life is why the safety basis documents were not reformatted into the DOE-STD-3009 standard. DOE expects the revised format to be in place by 2010. In conclusion, H Canyon can be operated safely through 2019 to disposition Al-clad Spent Nuclear Fuel; Highly Enriched Uranium, and Plutonium. SRS has, nor will not, process any materials without adequate safety basis. SRS has made progress on upgrading H Canyon/ HB Line safety documentation. EM has updated the cost data for disposition of nuclear materials through H Canyon / HB Line to include the costs for waste storage and disposition. H Canyon has completed initiatives to minimize waste generation. The NM Committee members expressed appreciation for the briefing and support for the consolidation and processing of Pu in the H Canyon / HB Line.

Jean Ridley, DOE-SR, provided a briefing on the Plutonium Disposition through the Defense Waste Processing Facility (DWPF). The briefing included an overview of sludge preparation; the introduction of additional Pu, the nuclear criticality basics; and the safety, criticality studies. She reviewed the sludge constituents in detail and explained the DWPF vitrification process. She stated that sludge batching is tailored to achieve acceptable glass quality as projected with the Glassmaker Model. Don Bridges,

CAB member, asked if the process has changed. Ms. Ridley replied that the process has not changed, but has been improved by increased waste loading. Pu disposition in DWPF is not a new process; it has been accomplished successfully in the past. The increased quantities of curries being processed with an aging infrastructure are of concern to the CAB members. Ms. Ridley stated that DOE is continuing to study and will ensure the infrastructure and system is robust enough to handle the increase. Criticality studies will continue throughout the process. Discussions of the draft EIS issuance and opportunities to comment on the process occurred. Ms. Ridley continued be providing details of the risks and consequences for a criticality in DWPF. Bill Lawless asked if the higher curries loaded canisters would be marked an easily identifiable. Ms. Ridlev replied that each canister is marked, documented with contents and is validated. Joe Ortaldo asked if there is any way to monitor the concentration and ensure all Pu that went into the processing, did actually go into the canisters. Open discussion on the concentration and controls, sampling, and any issues would suspend operations to prevent a criticality occurrence. In conclusion, Ms. Ridley stated that the safety, criticality studies, which are ongoing at SRS, have confirmed safe operations. The CAB members expressed appreciation for the briefing and stated a very good job on a very difficult subject. The WMC members would like an update on the DWPF criticality studies in four or five months.

Stan Howard, CAB Member, provided a short review of the Eric Knox, Status of Yucca Mountain briefing and encouraged the CAB members to invite Mr. Knox to speak at a future meeting.

Public Comment:

Bill Lawless – Very good news to hear of the Legacy Purex final shipments offsite. Tom Clements – Appreciated meeting notifications. Expressed concerns of Yucca Mountain opening delays. Encouraged CAB members to think about criticalities and the explosion in Russia in 1957, suggested to lesson pubic risks.

New Member Applicants who stated their desire to become members of the Board were: Rick Castagna, Gayle Gulick, Virginia Dunkelbarger.

Adjourn:

Mr. Bettencourt and Mr. Ortaldo adjourned the meeting at 7:50 p.m.

Follow-Up Actions: The WMC would like an update on the DWPF criticality studies in four or five months.

GAO Review of SRS Processing of Nuclear Materials – Presented by Allen Gunter, DOE-SR





Plutonium Disposition to the Defense Waste Processing Facility – *presented by Jean Ridlev, DOE-SR*



