SITE ALARA COMMITTEE (SAC) MEETING MINUTES -8/4/09

The Site ALARA Committee met on August 4, in 766-H rm.1047, 1:00 - 2:00 p.m.

Attendees:

Lynn Anderson	Trent Edwards	Dennis Hadlock	Ruby Parks
Donald Bickley	Roger Eshelman	Darrell Howe	Ellen Parrish
Cork Blackshire	Jon Fagan	Jeannette Hyatt	Terry Pifer
Rick Burns	Wayne Farrell	Kela Johnson	Chuck Radford
Joel Cantrell	Mignon Ford	Tim Kerrigan	TV Smith
Michael Collins	John Gall	Leah Lavallee	Greg Tunno
Mike Conaway	Don Gregory	Robert Minnick	Jim Stafford
		Mike Negron	Jim Wilson

The Quorum was met.

1) Introduction: Jim Stafford

Jim Stafford began the meeting by welcoming the attendees. Each member then introduced themselves. At this time a Chair hadn't arrived and sufficient voting members were not in attendance for a Quorum. Two of the three actions from the 1st Qtr. were completed. The action for Ken Crase to present neutron dose methodology changes to the FMF on 6/18/09 was moved out to the August FMF meeting.

2) 2nd Quarter CY Performance Indicators: Ellen Parrish

- M&O ORPS PerCon Events total **0**. FYTD = 1
- M&O Non-ORPS PerCon Events total **1**. FYTD = 5
- M&O ORPS Area Contamination Events total **2.** FYTD = 3
- M&O Non-ORPS Area Contamination Events total **2**. FYTD = 3
- LWO ORPS PerCon Events total **0**. FYTD = 0
- LWO Non-ORPS PerCon Events total **0**. FYTD = 1
- LWO ORPS Area Contamination Events total **0**. FYTD = 0
- LWO Non-ORPS Area Contamination Events total **1**. FYTD = 1

- The 2009 Cumulative Exposure goal is 126 rem.

  The 2nd Qtr. total Cumulative Exposure goal is 63 rem.
  The 2nd Qtr. total Cumulative Exposure actual is 52 rem.

- The maximum individual 2nd Qtr. dose in LWO is 178 mrem (HTF).
  The maximum individual 2nd Qtr. dose in M&O is 197 mrem (NMM).

- The CYTD maximum individual 2nd Qtr. dose in LWO is 272 mrem (HTF).
  The CYTD maximum individual 2nd Qtr. dose in M&O is 304 mrem (SWM).

- The Maximum CYTD Extremity dose in LWO is 7687 mrem (DWPF).
  The Maximum CYTD Extremity dose in M&O is 2326 mrem (SRT).

- CYTD Internal Exposures: >100 mrem = 0 & >500 mrem = 0

See attached Performance Indicators

4) +/- 25% Discrepancies in ALARA Goals versus Actual Exposure: Facility Representative

WSI is 0.7 rem under the estimated goal due to a new security posture and changing requirements for manning of posts implemented in the 1st Qtr. Some of the manned posts are now response posts. Testing was performed by Health Physics Services to determine if the WSI ballistic vests interfered with the TLND neutron response, and it was found that they did not for plutonium neutron energies. The SAC requested that an assessment be performed to ensure that TLNDs were worn properly in HBL after it was observed that several vests were removed and placed on a rack with the TLND still attached in KAC. TLNDs must be positioned directly on the chest as they measure the neutrons being backscattered from the body. WSI issued an email in July reminding all inspectors of this requirement. The WSI ALARA Coordinator stated that an adjustment of 0.5 rem of dose could be made to the 3rd and 4th Qtr. estimates.

ACTION 1: Present the adjustment of 0.5 rem to the Change Control Board
RESPONSIBLE: Lynn Anderson **DUE DATE:** 9/3/09

ACTION 2: Perform an assessment in HBL to determine if dosimetry is being worn correctly by WSI. **RESPONSIBLE:** Mike Negron and Lynn Anderson **DUE DATE:** 8/31/09

HMD (HBL) is 1.7 rem below the estimated goal because the DE 3013 campaign is ahead of schedule and under the estimated dose. The Np flushes in Phase II and the U233 (skull oxide) were completed, below estimates. Chloride Wash estimated at 600 mrem is not schedule for this calendar year and the Hanford containers estimated for 500 mrem will come later this year. HBL facility to date has received 595 mrem with a 2nd Qtr. goal of 2330 mrem. The total 2009 HBL estimate is 4850 mrem. Based on the current work and the upcoming 311A upgrades, HBL facility has agreed to give back 1000 mrem.

ACTION 3: Present the adjustment of 1.0 rem of dose to the Change Control Board **RESPONSIBLE:** Mike Negron and Rick Burns **DUE DATE:** 9/3/09

F/H Lab is 1.5 rem below estimated goal because MCU did not send as many samples as planned and the sample doses were lower than expected in the 1st Qtr. Housekeeping and work in the 772-1F Shielded Cells is behind schedule, but is still planned to work in CY2009 to support future irradiated fuel work (FRR and DRR). An assessment after the 3rd Qtr will be made to determine if the annual goal can be adjusted for the 4th Qtr.

ACTION 4: Assess if an adjustment to the 4th Qtr goal can be made at the end of the 3rd Qtr. **RESPONSIBLE**: Terry Pifer **DUE DATE**: 9/20/09

NMSP (K-Area) is 3.3 rem below estimated goal due to the improved storage plan for receiving Hanford material, KAMs fire suppression work did not start up until April, and Cross Functional Team recommendations for dose reductions were implemented during the 1st Qtr and 2nd Qtr. Additional work has been scheduled to sort through drums in the IAEA storage area which will increase the dose to the workers.

SRNL is 0.9 rem below the estimated goal because the higher dose 3013 cans did not arrive in the 1st Qtr. The 2nd Qtr goal was within range (59 mrem below estimated goal). Unanticipated work on the B-Cell Block crane will result in additional dose for the 3rd Qtr.

SWMF is 3.0 rem below the estimated goal primarily due to project delays. During the 1st Qtr the remote handling of higher dose drums did not begin until late February, syringe sampling was delayed, and less mining activities were performed than anticipated. Also, NDE/NDA work activity had equipment problems, less waste movement in HRA was performed, and Poly Box Retrieval did not handle high dose boxes. Additionally, new work scope under ARRA has begun on Pad 1, Pad 6, and in FCA TRU. Remote Handling drums will continue to contribute higher dose to the worker. A request will be submitted to increase the drum miners ACL from 500 mrem to 800 mrem.

ACTION 5: Submit ACL adjustment letter to increase the ACL to the appropriate management. **RESPONSIBLE**: Darrell Howe **DUE DATE**: 8/30/09

LWO RPD manager discussed the impacts on the LWO ALARA goal as a result of Saltstone grout pump failure/replacement in the first quarter and a process upset in the second quarter that required removal of hardened grout from the hopper and grout lines.

5) Wireless Radiation Monitoring: Donald Gregory

Information on Radio Frequency (RF) Wireless Networking was presented by Don Gregory from HPS. Some benefits of RF Networking: less costly than hard-wired network systems; reduces man-hours and materials associated with source checks and alarm responses for ARMs and CAMs; reduces worker radiation and contamination exposure; improves facility operational control; and improves alarm and operability communications. If your facility is interested in wireless networking please contact Don at 2-8395. See attached for more information.

ACTION 6: Quantify ALARA dose savings and avoidances with use of wireless radiation monitoring equipment in K & L Areas. **RESPONSIBLE:** Don Gregory and Henry Bolen **DUE DATE:** 10/1/09

6) Open Discussion: All

Note: The Chair arrived and Quorum was met at this time.

A summary of the actions was presented and approved by the committee. Roger Eshelman, Chair, encourage the mentoring of the new workers supporting the ARRA work. He is pleased with the Radcon program and encouraged us to keep up the good work, and he appreciates the effort of each work group in assessing their facility goals and the return of dose that is above their actual dose.

Rick Burns of HBL stated that he was pleased with the performance of the Aiken Tech Radcon Interns. This sentiment was shared by others in attendance.

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