

May 23, 2017

Site ALARA Committee Meeting Minutes

The Site ALARA Committee held at 2:30 in 735-B Alternate EOC.

Quorum was met for the SAC.

1) Introduction: Greg Tunno

Greg welcomed everyone to the meeting and presented a safety topic about offsite parking lot speed and safety.

2) Environmental ALARA : Teresa Eddy

Teresa reviewed the YTD Environmental ALARA status. It was recommended in the last meeting to revisit the A Area Guide during the first quarter. Guide was reviewed by the Environmental ALARA committee and no change to the A Area guide was recommended. This was approved by the SAC.

3) Target Residue Material: Bill Giddings

Bill gave a presentation to the board and invited anyone that was interested to H-Area for a tour of the process.

4) K-Area Material Storage Rapid Improvement Event: Chuck Reames

Chuck gave a presentation of the Rapid Improvement Event in KAC to reduce exposure to personnel entering the Material Storage Area.

5) 3H Evaporator Pot Repair: Steve Shuford

Steve gave a presentation on the evaporator repair at HTF.

6) TLD Dose: Randy Sullivan

Randy gave a presentation on the age of TLD and the revision to the daily background subtraction rate.

2) Review of 1st Quarter Performance: Pamela Powell

1st quarter performance indicators were not reviewed during the meeting due to time constraints. Slides to be provided to all meeting attendees.

3) Review of +/- 25% Discrepancy: Facility Representatives

(Note: All doses are in rem)

SRNL- Target 1.6 vs Actual 3.707 (+131.69%)

Scott Craft discussed the concerns that were raised with External Dosimetry on the amount of personnel who did not enter Rad areas who picked up dose. SRNL requested to increase 2nd quarter goal by 2 rem. A discussion was held and it was decided that an increase of 4 rem would be better. This was approved by the board with an action to evaluate reducing the number of TLD issued in the facility to personnel who do not need them.

HCA - Target 2.83 vs Actual 2.05(-27.56%)

Johnny Lott discussed that the TRM work actual dose was less than what was estimated due. No request to change goals at this time.

HBL Target 0.5 vs Actual 0.068 (-86.4%)

Johnny Lott discussed that cell window replacement slowed down the Phase II processing work. No request to change goals at this time.

CLAB Target 1.75 vs Actual 2.314 (+32.23%)

Terry Pifer discussed that more than normal samples were received for processing with higher dose. He also stated that CLAB was getting an influx of Parsons Lab Tech employees in the facility for training. No request to change goals at this time.

No further comments from the Board Chairs. Next meeting to be held via teleconference.

Meeting was adjourned at 3:55

SITE ALARA COMMITTEE

ATTENDANCE ROSTER

Meeting Date: 05/23/2017

Quarter/Year: 1/2017

<u>Initial</u>	<u>Chair</u>	<u>Initial</u>	<u>Alternate</u>
<u>DE</u>	David Eyler (Chair) Mike Borders (Vice Chair)	<u>DE</u>	Wyatt Clark Jim Wilson
<u>Initial</u>	<u>SAC Voting Member</u>	<u>Initial</u>	<u>Alternate</u>
<u>GT</u>	Greg Tunno (Ex. Secretary)	<u>KW</u>	Kent Williams
<u>KL</u>	Kliss McNeel (ESH&Q)	_____	Mary Flora
<u>DS</u>	Deborah Solomon (SRTE)	_____	Trent Edwards
<u>VM</u>	Verne Mooneyhan (SWM/TRU)	_____	Robert Minnick
<u>SW</u>	Steve Wilkerson (NMD)	_____	Richard Burns
<u>JL</u>	Janice Lawson (NMSP)	_____	Durwood Melvin
<u>MF</u>	Mark Flake (SRNL)	<u>SC</u>	Scott Craft
_____	Doug Bumgardner (TF)	_____	Tony Welch
_____	Joel Cantrell (WT)	_____	William Harris
_____	JC Wallace (Engineering)	_____	Cindy Head
<u>JD</u>	Jim Wilson (LWO RPD)	_____	DALE BRANTLEY
_____	Tim West (EC&ACP)	<u>DWB</u>	

Quorum Requirements: SAC = Chair/Vice Chair + 7 other members* = 8 total

*Member may be represented by designated alternate. At least 2 members from each company are required for an official vote.

Quorum Met: Yes No

Other Meeting Attendees (print name)

Chuck Repmes
John Gail
JACK PARKER
Lauren Hill
CR SANDERS
S. Shuford
Wendy Jordan

Casey Hunter
Dennis Hedlund
Johnny Lott
Cindy H. Head
Thomas V. Smith
Pamela Powell

Radiation Exposure Worksheet

Facility/Work Group SRNL	Manager Mark Flake	Area 773-A	ALARA Coordinator Scott Craft	Phone 725-8757	Date 05/23/2017
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PART I (Enter Percentages % of Exposure, as applicable)

Activity	Estimated Total Exposure	Anticipated Schedule				Percent % of Work Group Exposure per Section	Percent % of Work Group Exposure per Total	Final Yearly Exposure
		Quarter 1	Quarter 2	Quarter 3	Quarter 4			
A. Base Routine Operations	6.400	1.500	5.500	1.800	1.400	92.75	92.75	
A.1 Other (Const.,Sub.)	0.400	0.100	0.100	0.100	0.100	6	6	A.1
A.2								A.2
A.3								A.3
A.4								A.4
A.5								A.5
A.6								A.6
A.7								A.7
A.8								A.8
A.9								A.9
A.10								A.10
A. Total	7.000	1.600	5.600	1.900	1.500	98.75		
B. Special Work Operations								
B.1 776-10A Gallery Insp					0.400	1.25	1.25	B.1
B.2								B.2
B.3								B.3
B.4								B.4
B.5								B.5
B.6								B.6
B.7								B.7
B.8								B.8
B.9								B.9
B.10								B.10
B.11								B.11
B.12								B.12
B. Total								
TOTALS	7.000	1.600	5.600	1.900	1.900		100	
10.60 REM Base Rem	11.00 REM Total (Base + Special)	By exposure anticipated in the quarter the work is performed						REM Facility/Work Group Total

Part II (List specific ALARA Actions to Reduce Exposures on above work/jobs. Reference to sections in Part I.)

The projected (Total Base) dose was based on the average dose for 2016 from the first three quarters and minus the dose received from Special Work Operations. As of 12/27/2016, there is no confirmed "Special Work" scheduled for 2017.

SRNL has requested funding to replace (3) additional Cell Windows during 2017. Therefore, SRNL may request additional dose if funding is approved for the additional windows.

SRNL is requesting an additional 4.0 Rem for the 2nd Quarter of 2017 due to the reduction of site background subtraction associated with the take home badge program. Additional dose can also be attributed to the use of older TLD badges. SRNL will reevaluate at the end of the 2nd Quarter and possibly request additional dose for the 3rd Qtr for similar circumstances.

SRNL is scheduled to perform the 776-10A Gallery Inspections starting in the 4th Quarter of 2017. Estimated dose is based on the dose received during previous entries in 2008.

Savannah River Site

2017 ALARA Goals (U)

May 2017

CY17 ALARA Goals

Executive Summary

The ALARA goals for the Savannah River Site for calendar year 2017 were established by the appropriate radiological facilities and their support groups based on the anticipated work for the year.

The annual base routine operations cumulative exposure goal is 78.30 Rem. Exposure goals for special (non-recurring) work operations are maintained by calendar quarter. The preliminary special work goal for the year is 63.20 Rem. The total exposure goal for 2017 is 141.5 Rem. In comparison, the goal for 2016 was 103.425 Rem. The 2017 goal is a 37 % increase from the 2016 goal.

SRS has established an annual Administrative Control Level (ACL) of 500 mRem Total Effective Dose (TED) for most Site workers, the same as past few years. This can be compared to the DOE ACL of 2,000 mRem, and a federal limit of 5,000 mRem. Contractor chief official approval is necessary to allow a contractor employee to exceed the SRS ACL. DOE/National Nuclear Security Administration Secretarial Officer, or designee, approval is necessary to allow a Site worker to exceed the DOE ACL. DOE-SR has established the Site ACL for DOE employees at 150 mRem.

The goal for intakes of radioactive material resulting in an exposure greater than 500 mRem Committed Effective Dose (CED) from a single event continues to be zero.

CY17 ALARA Goals

Radiological Performance Goals

Cumulative Radiation Exposure is based on total effective dose exposures (including tritium) resulting from Base Routine Operations and Special Work Operations.

- *Base Routine Operations* are related to normal day to day activities.
- *Special Work Operations* are not part of routine operations and typically are of limited, non-repetitive duration. Special Work Operations goals are reviewed quarterly by the facilities and goals may be adjusted as approved by the company's executive committee.

Maximum Individual Exposure/Administrative Control Levels are established to maintain personnel radiation exposure well below the Department of Energy's Administrative Control Level of 2,000 mRem, while being both challenging and achievable for the site.

Personnel Contamination Events are established for skin and personnel effects contamination that are reportable in accordance with the criteria contained in DOE M 231.1-2, "Occurrence Reporting and Processing of Operations Information." These reporting criteria are available in the site's SIRIM/ORPS information system.

Confirmed Intakes Resulting in CED are established for a single intake of radioactive material that exceeds the anticipated exposure of 500 mRem or greater. This criterion is based on DOE M 231.1-2, "Occurrence Reporting and Processing of Operations Information." The reporting criterion is available in the site's SIRIM/ORPS information system.

CY17 ALARA Goals

Business Unit	Base Routine (Rem)	Special Work (Rem)	Total Cumulative Exposure Goal (Rem)
Management & Operations Total	45.55	16.555	62.105
<u>H-Area Material Disposition</u>			
HB-Line	2.30	0	2.30
H-Canyon/OF	4.6	9.630	14.230
<u>Nuclear Materials Storage Project</u>			
K-Area	12.1	6.0	18.1
L-Area	0.70	0.30	1.0
<u>Solid Waste</u>			
E-Area	4.6	0	4.6
<u>INF</u>	2.0	0	2.0
<u>EC&ACP</u>			
SGWR, Facility Disposition, BAL	0.25	0	0.25
<u>Tritium Projects</u>			
TRI/TEF	0.20	0.225	0.425
<u>Laboratories</u>			
772-F/772-1F	7.0	0	7.0
<u>F-Area Operations</u>	1.2	0	1.2
Savannah River National Laboratory	10.6	0.4	11.0
Centerra-SRS Total	4.0	0	4.0
Liquid Waste Operations Total	32.35	47.045	79.395
<u>Waste Treatment</u>			
DWPF/Saltstone	14	17.98	31.98
<u>Tank Farms</u>			
H-Tank Farm/299-H/ETP/F-Tank Farm	18.350	29.065	47.415
Site Goal	81.90	63.60	145.50

SRS ADMINISTRATIVE CONTROL LEVEL – 500 mRem

DOE-SR ADMINISTRATIVE CONTROL LEVEL – 150 mRem (for DOE-SR employees)