

1st Quarter 2023 Site ALARA Committee Meeting Minutes

May 24, 2023 – 1:00 PM

Hosted via Microsoft Teams

By: Diana Jennings

Introduction

Kent Williams, Radiological Protection Department Director, welcomed everyone to the meeting. The safety topic was heat stress as we are approaching mid-Spring and Summer. Kent discussed how we have had heat stress occurrences on site so far this year and reminded personnel to be mindful to not slip into a false sense of security with cool mornings. He also reminded everyone to hydrate properly and ensure personnel had access to cool areas. Kent then turned the meeting over to Diana Jennings to take attendance for Site ALARA Committee Members. A quorum was established for the Site ALARA Committee and the Change Control Board. See attached.

Environmental ALARA Update

Kent then turned the meeting over to Eric Doman, Environmental ALARA Chairperson, to discuss the Environmental ALARA Update. Eric stated the data shared today is the most up to date information as the March 2023 report was released on May 19th. Next, he discussed that both Liquid and Airborne Releases projected annual TED is within range. There were no comments or questions. See slides 3-5. Eric then turned to the meeting back over to Kent.

1st Quarter Performance Indicators

Kent then turned the meeting over to Diana to present the 1st Quarter Performance Indicators. There were no questions or comments for slides 7-10. For slide 11, which discussed maximum extremity dose, Nicholas Miller asked what the DOE Administrative Control Level for extremity is to ensure we were not approaching any limits. The DOE Administrative Control Limit is 50 rem/year for extremity dose. For slide 12, Radiological Events, Savannah River Mission Completion (SRMC) had 2 Non ORPS Personnel Contamination Incidents: HTF Personnel Clothing Contamination and Saltstone Vault 4 Contamination Incident. Kent asked Carol Hunter if they were seeing any trends with the Non-ORPS issues. Carol stated that they were not trending the data at this time. Kent then asked about the Vault 4 Contamination Incident and Carol stated that the individual knelt in a wet area which caused him to become contaminated. Lastly, Kent commented on the slide 13, Intakes, and stated that we have not had an intake of radioactive material since February of 2022.

+/- 25%

The facilities listed below were greater than 25% above or below the established goal. Each facility had a representative to speak to the differences.

Facility	Goal (rem)	Actual (rem)	Percent
FCA/CLB	1.4	0.615	-56.07
HCA	1.706	2.239	+31.24
Tritium	0.825	0.563	-31.76
Centerra	1.125	0.552	-50.93

FCA/CLB – Terry Pifer stated that in FCA/CLB they expected to do more deactivation work in F-Canyon in CY 2023, however plans have changed, and they have not only reduced the amount of deactivation work but have also decreased personnel numbers. Both factors resulted in a much lower-than-expected personnel dose. For that reason, the facility requests a reduction in overall goal for CY 2023 from 4.3 rem to 3.1 rem. This request was approved per the board.

HCA- Matt Arnold stated that many high dose jobs were performed during the 1st Quarter such as jumper maintenance in Hot Crane Maintenance Area and dip sampling. These jobs have not been as frequent in Quarter 2 and are not expected to increase for Quarter 3 & 4, therefore the dose totals are expected to even back out to be more consistent with ALARA Goals for the rest of the year. H-Canyon does not request any changes to the ALARA Goals at this time.

Tritium- Ruby Parks stated that Tritium facilities did less cutter head work than expected. They expect more work to be done for the rest of the calendar year and therefore expect dose totals to be closer to established ALARA Goals. Tritium does not request any changes to the ALARA goals at this time.

Centerra- Ethan Vanfossen stated that Centerra based their ALARA Goals largely on a post change in K-Area. Once the post change was established, Centerra personnel were able to use good ALARA practices to reduce time, increase distance and utilize shielding to reduce personnel dose. Because of this reduction in dose to personnel, Centerra requested to have their ALARA Goal reduced from 4.5 rem to 3.0 rem for the year. This request was approved per the board.

Final Comments

Kent first commented on the number of Non-ORPS issues on site for the 1st Quarter. He reminded everyone to be vigilant to support proper planning and execution of work. With the increase of Non-ORPS incidents, the likelihood of an ORPS occurrence is heightened.

Next, he discussed proper tracking of dose. As of May 24th, there were 16 1st Quarter dosimeters that were delinquent. He discussed the importance of personnel returning their dosimetry on time to ensure External Dosimetry can share accurate data with the facilities via the dose reports. J. C. Wallace commented that corrective actions should be considered to deal with individuals that repeatedly turn dosimetry in late. J. C. also asked the question of how many dosimeters are typically delinquent each quarter. Wendy Furtick stated that it varies from quarter to quarter, however, there have been quarters that have had 1000+ delinquent dosimeters. There was a

discussion on how to address issues relating to individuals not returning dosimetry and tracking. One suggestion was to only issue dosimetry to individuals that are preparing to enter radiological areas at the time they are requesting it. Casey Williams commented that they have gotten pushback from other work groups, such as engineering, when they deny issuing dosimetry to individuals not preparing to enter radiological areas. J. C. and Kent decided to meet at a later date to discuss these issues before presenting any more suggestions.

There were no other comments or questions. The meeting was adjourned.



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Site ALARA Committee Meeting

Kent Williams
Radiological Protection Department Director

May 24, 2023

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Agenda

1. Introduction	Kent Williams
2. Environmental ALARA Update	Eric Doman
3. 1 st Quarter Performance Indicators	Diana Jennings

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Environmental ALARA Update

Eric Doman
Environmental ALARA Chairperson

May 24, 2023


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2023 Environmental ALARA Guides Status- Liquid Discharges				
Liquid Discharges ALARA Guide Summary Report for All Areas – March 2023				
Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide
A-Area_LIQUID	1.65E-05	6.61E-05	6.00E-05	27.5%
F-Area_LIQUID	1.97E-05	7.86E-05	5.20E-04	3.8%
F-Tank Farm_LIQUID	3.90E-07	1.56E-06	2.00E-03	0.0%
G-Area_LIQUID	6.76E-06	2.70E-05	5.07E-02	0.0%
H-Area_LIQUID	6.24E-05	2.49E-04	5.20E-03	1.2%
H-ETP_LIQUID	2.51E-05	1.01E-04	1.00E-02	0.3%
H-Tank Farm_LIQUID	8.28E-04	3.31E-03	8.65E-03	9.6%
K-Area_LIQUID	2.65E-06	1.06E-05	3.09E-04	0.9%
L-Area_LIQUID	0.00E+00	0.00E+00	7.08E-05	0.0%
S-Area_LIQUID	2.98E-07	1.19E-06	1.65E-04	0.2%
Tritium_LIQUID	5.68E-05	2.27E-04	2.01E-04	28.3%
Site Totals:	1.02E-03	4.07E-03	7.79E-02	1.3%

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2023 Environmental ALARA Guides Status- Airborne Emissions



Airborne Emissions

ALARA Guide Summary Report for All Areas - March 2023


Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide
A-Area_AIR	2.54E-07	1.02E-06	1.70E-03	0.0%
C-Area_AIR	1.96E-06	7.83E-06	2.50E-04	0.8%
F-Area_AIR	2.41E-05	9.64E-05	1.29E-03	1.9%
H-Area_AIR	5.46E-06	2.18E-05	4.96E-03	0.1%
H-ETP_AIR	0.00E+00	0.00E+00	1.00E-07	0.0%
H-Tank Farm_AIR	1.71E-12	6.82E-12	1.00E-06	0.0%
J-Area_AIR	0.00E+00	0.00E+00	1.00E-06	0.0%
K-Area_AIR	1.33E-05	5.33E-05	4.05E-03	0.3%
L-Area_AIR	1.01E-05	4.02E-05	4.75E-03	0.2%
S-Area_AIR	1.81E-07	7.24E-07	6.60E-04	0.0%
Tritium_AIR	4.31E-03	1.72E-02	6.21E-02	6.9%
Z-Area_AIR	3.20E-09	1.28E-08	5.00E-06	0.1%
Site Totals:	4.36E-03	1.74E-02	7.98E-02	5.5%



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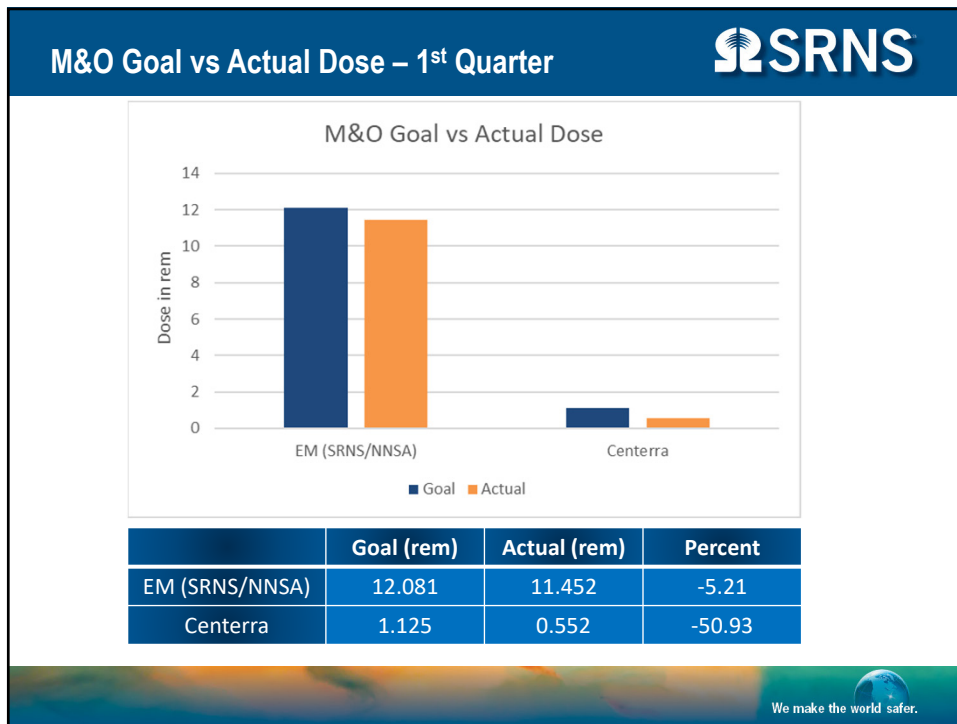
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1st Quarter Performance Indicators

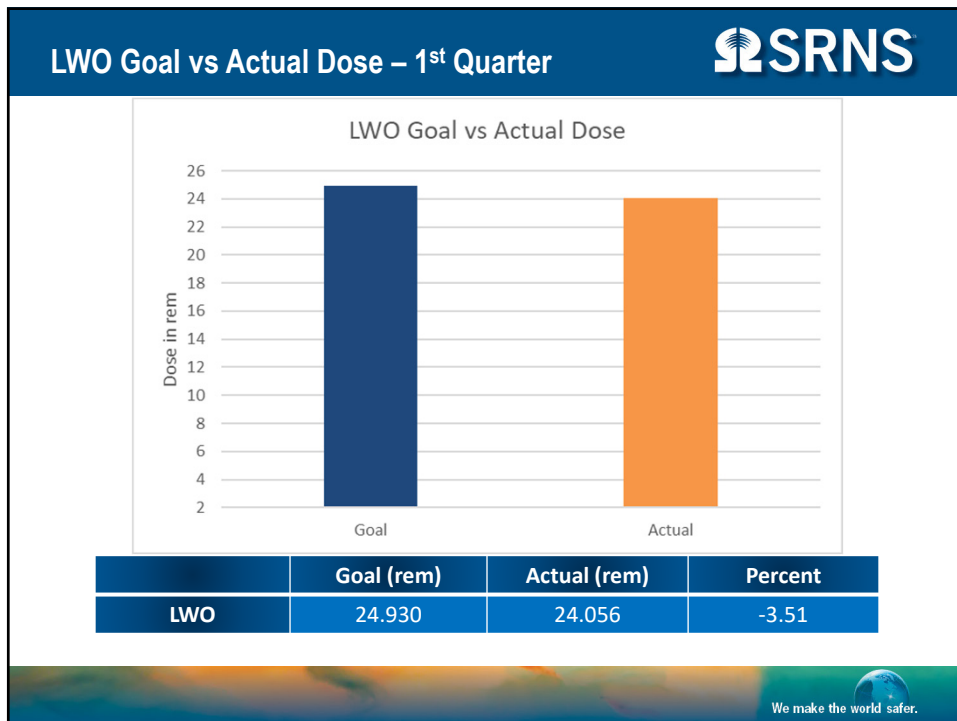
Diana Jennings
 Site ALARA Coordinator

May 24, 2023

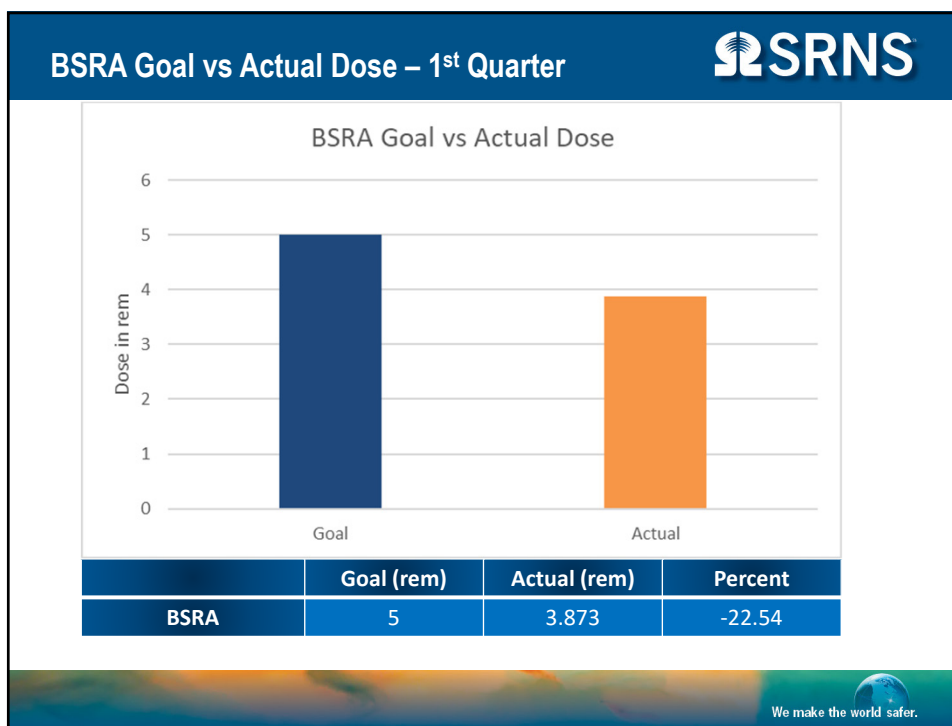
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Maximum Individual Dose



	1 st Qtr (rem)	Facility
EM	0.245	KAC
SRMC	0.198	SWPF
BSRA	0.130	
Centerra	0.030	



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Maximum Extremity			SRNS	
	1 st Qtr (rem)	Facility		
EM	4.603	KAC		
SRMC	1.606	SWPF		
BSRA	0.533			
Centerra	0.030			

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Radiological Events			SRNS	
Title	QTR 1	Event		
M&O ORPS PerCon				
M&O Non ORPS PerCon				
M&O ORPS Rad Mat				
M&O Non ORPS Rad Mat				
SRMC ORPS PerCon				
SRMC Non ORPS PerCon	2	(HTF) Personnel Clothing Contamination; (Saltstone) Vault 4 Contamination Incident		
SRMC ORPS Rad Mat				
SRMC Non ORPS Rad Mat				
BSRA ORPS PerCon				
BSRA Non ORPS PerCon				
BSRA ORPS Rad Mat				
BSRA Non ORPS Rad Mat				

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Intakes		SRNS	
Title	CY 2023		
M&O > 500 mrem	0		
M&O > 100 mrem	0		
SRMC > 500 mrem	0		
SRMC > 100 mrem	0		
BSRA > 500 mrem	0		
BSRA > 100 mrem	0		

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+/- 25%		SRNS	
Facility	Goal (rem)	Actual (rem)	Percent
FCA/CLB	1.4	0.615	-56.07
HCA	1.706	2.239	+31.24
Tritium	0.825	0.563	-31.76
Centerra	1.125	0.552	-50.93

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Quarter/Year: 1st Quarter 2023

<div style="text-align: center;"> <u>X</u> <hr/> </div>	<div style="text-align: center;"> <u>Chair</u> JC Wallace Doug Bumgardner (Vice Chair) </div>	<div style="text-align: center;"> * <hr/> <u>X</u> </div>	<div style="text-align: center;"> <u>Alternate</u> Janice Lawson Joel Cantrell </div>
<div style="text-align: center;"> <u>X</u> <hr/> <u>X</u> <hr/> <u>X</u> <hr/> <u>X</u> <hr/> <u>X</u> <hr/> </div>	<div style="text-align: center;"> <u>SAC Voting Member</u> Kent Williams (Ex. Secretary) Richard Sprague (ESH&Q) Deborah Solomon (SRTE) Verne Mooneyhan (SWM/TRU) Matt Arnold (NMD) Lee Sims (NMSP) Geoffrey Smoland (SRNL) Doug Bumgardner (WT) Lisa Amidon (TF) Elester Patten John Gall (LWO RPD) Tim West (EC&ACP) </div>	<div style="text-align: center;"> <u>X</u> <hr/> <u>X</u> <hr/> <u>X</u> <hr/> <u>X</u> <hr/> * <hr/> <hr/> <hr/> <u>X</u> <hr/> </div>	<div style="text-align: center;"> <u>Alternate</u> Roy Windham Mary Flora Ruby Parks Terry Pifer Scott Craft Neil McIntosh Kevin Webster James Harris Carol Hunter </div>

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.**

CCB = Chair/Vice Chair* + 5 other members = 6 Total May be represented by designated alternate.

Quorum Met SAC: **Yes** **No**

Quorum Met CCB: Yes No

**SITE ALARA COMMITTEE
&
CHANGE CONTROL BOARD

ATTENDANCE ROSTER**

Other Meeting Attendees (print name)

*Nicholas Miller (attending for Janice Lawson)

*Trinidad Bush (attending for Kevin Webster)

Wendy Furtick

Pamela Powell

Diana Jennings

Jack Parker

See attached attendance list for other meeting attendees.

Full Name	User Action	Timestamp
Diana Jennings	Joined	5/24/2023, 12:43:27 PM
+1 803-725-8757	Joined	5/24/2023, 12:50:10 PM
Trinidad Bush	Joined	5/24/2023, 12:50:28 PM
Kent Rosenberger	Joined	5/24/2023, 12:50:52 PM
Rhianna Hubbard	Joined	5/24/2023, 12:51:02 PM
Rhianna Hubbard	Left	5/24/2023, 12:51:32 PM
Rhianna Hubbard	Joined	5/24/2023, 12:51:57 PM
Alyson Jennings	Joined	5/24/2023, 12:51:21 PM
+1 803-208-8098	Joined	5/24/2023, 12:53:36 PM
Debd Solomon	Joined	5/24/2023, 12:53:42 PM
Page Courtney	Joined	5/24/2023, 12:53:47 PM
+1 803-557-3267	Joined	5/24/2023, 12:54:39 PM
Todd Brantley	Joined	5/24/2023, 12:55:13 PM
Gregory Walkup	Joined	5/24/2023, 12:55:19 PM
Carol Hunter	Joined	5/24/2023, 12:55:19 PM
Joel Cantrell	Joined	5/24/2023, 12:55:25 PM
Ethan Vanfossen	Joined	5/24/2023, 12:56:18 PM
CR-730-1B-204 (Guest)	Joined	5/24/2023, 12:56:20 PM
OWEN, AUSTIN A	Joined	5/24/2023, 12:56:35 PM
Scott Craft	Joined	5/24/2023, 12:56:38 PM
Wayne Minton	Joined	5/24/2023, 12:57:24 PM
Cathy Torres	Joined	5/24/2023, 12:57:25 PM
Casey Williams	Joined	5/24/2023, 12:57:30 PM
Bryan Ashe	Joined	5/24/2023, 12:57:33 PM
+1 803-557-3262	Joined	5/24/2023, 12:57:33 PM
Terry Pifer	Joined	5/24/2023, 12:57:48 PM
Phillip Owens	Joined	5/24/2023, 12:58:08 PM
Stephanie Blazer	Joined	5/24/2023, 12:58:17 PM
+1 803-952-8253	Joined	5/24/2023, 12:58:30 PM
Eric Doman	Joined	5/24/2023, 12:58:35 PM
Verne Mooneyhan	Joined	5/24/2023, 12:59:09 PM
Verne Mooneyhan	Left	5/24/2023, 1:04:52 PM
Verne Mooneyhan	Joined	5/24/2023, 1:06:02 PM
+1 803-646-1045	Joined	5/24/2023, 12:59:13 PM
Ronald Sykes	Joined	5/24/2023, 12:59:14 PM
OWEN, LONNIE P	Joined	5/24/2023, 12:59:15 PM
NELSON, ROBERT K	Joined	5/24/2023, 12:59:42 PM
James Wallace	Joined	5/24/2023, 1:00:23 PM
James Wallace	Left	5/24/2023, 1:01:27 PM
James Wallace	Joined	5/24/2023, 1:02:08 PM
+1 803-208-0167	Joined	5/24/2023, 1:00:38 PM
Lillie Gordon	Joined	5/24/2023, 1:00:40 PM
Neil McIntosh	Joined	5/24/2023, 1:00:44 PM
Robert Entzminger	Joined	5/24/2023, 1:00:48 PM
Nicholas02 Miller	Joined	5/24/2023, 1:00:50 PM
Jewel Lenderman	Joined	5/24/2023, 1:00:51 PM

Lee Sims	Joined	5/24/2023, 1:01:09 PM
Lee Sims	Left	5/24/2023, 1:24:18 PM
Jamie Willing	Joined	5/24/2023, 1:02:05 PM
Jared Wicker	Joined	5/24/2023, 1:05:04 PM
Jared Wicker	Left	5/24/2023, 1:12:43 PM
Matthew Arnold	Joined	5/24/2023, 1:05:40 PM
Kenneth Wells	Joined	5/24/2023, 1:06:36 PM
Teresa Eddy	Joined	5/24/2023, 1:24:56 PM