

## Site ALARA Committee Meeting Minutes

2<sup>nd</sup> Quarter 2023

Diana Jennings

This meeting was held via Microsoft Teams on August 24, 2023.

**Introduction**

Kent Williams welcomed everyone to the meeting and opened with a safety topic on hurricane season. He reminded everyone to be prepared for bad weather and have things on hand such as bottled water, medications, gas in your vehicles, and cash in the event ATMs are unavailable. He then turned the meeting over to Diana Jennings to establish a quorum. A quorum was established for the Site ALARA Committee and the Change Control Board.

The meeting was then turned over to Teresa Eddy for the Environmental ALARA Review.

**Environmental ALARA Review**

Teresa first discussed the Liquid Discharges for all areas as of June 2023. See attached slide 4. The overall site total is well below the ALARA guides for the year. Tritium was projected to be 96.9% of the ALARA Guide, so they requested an increase from 2.01E-04 to 4.21E-04. Tritium's Environmental Representative Jack Alexander discussed the increase request and stated that the increase was expected due to the increase in production. Jack also stated that they were aware of what was causing the increase, as they saw a similar upward trends in 2018. The increase was approved per the board.

Teresa then discussed the Airborne Emissions for all areas as of June 2023. See attached slide 5. All facilities are well within the ALARA Guide for the year. There were no change requests or any comments.

The meeting was then turned over to Diana Jennings for the 2<sup>nd</sup> Quarter Performance Review.

**2<sup>nd</sup> Quarter Performance Indicators**

Diana first presented the M&O Performance Indicators for 2<sup>nd</sup> Quarter. See attached slide 7. The facilities that were +/- 25% of their ALARA Goals were required to discuss.

**HCA-** Matt Arnold stated that the dose increased due to an increase in ABD sampling activities and FCA project upgrades for maintenance and construction. He stated that they are working to install additional shielding in various areas of the facility to lower individual dose. The question was asked if the work was expected. Matt stated that the work was expected however, they increased the number of samples which also included many dip samples, which increased personnel dose. Mike Swain asked what the maximum individual dose was, especially for the operators doing the dip sampling. Scott Craft stated that most operators are around 40 mrem, with a few being at about 150 mrem for the year. He does not expect operators to be above 300 mrem for the year, however they are monitoring the individual dose. Due to the increase in ABD

sampling activities and FCA project upgrades, HCA requested that their ALARA Goal for the year be increased to 12.5 rem. This request was approved per the board.

**L-Area-** Jamie Willing stated that L-Area saw an increase in personnel numbers in Operations and Engineering, many of which were entering radiological areas. Because of this significant increase in personnel, L-Area requested that the ALARA Goal be increased by 1 rem to compensate. This increase was approved per the board.

**SWM-** Anthony Carraway stated that there was unanticipated work and additional shipments that caused the overall dose to be higher than expected. Anthony originally asked to increase the ALARA Goal to 4.0 rem which was approved, however, after further discussion with facility radiological protection after the meeting it was decided that the ALARA Goal would not be changed. The facility plans to monitor it closely during the 3<sup>rd</sup> Quarter and make changes if needed during the next meeting.

**Centerra-** Ethan Vanfossen was unavailable so Robert Entzminger commented that he and Ethan had discussed the dose as most of Centerra's personnel dose is from posts in K-Area. It was commented that they had decreased the dose during the last Site ALARA Committee meeting, which may have been done prematurely. The post changes in K-Area are temporary and they will explore ways to decrease personnel dose, so no changes were requested at this time.

LWO Performance Indicators for the 2<sup>nd</sup> Quarter were presented. See attached slide 8. John Gall discussed that there was an unplanned outage in SWPF, which significantly increased overall dose. John stated they plan to increase the overall goal for Liquid Waste and will share that decision with the Site ALARA Committee once it is made by the SRMC ESH&Q Management team.

BSRA Performance Indicators for the 2<sup>nd</sup> Quarter were presented. See attached slide 9. There were no comments or questions.

Radiological Events were discussed next. See attached slide 10. Since SRMC had 4 total Non-ORPS events during the 2<sup>nd</sup> Quarter, John Gall stated that they are doing a team review of the Non-ORPS events and will share any information that comes from the review with the Site ALARA Committee.

The last slide of the presentation was 'Intakes' and there have been no intakes greater than 100 mrem on site for CY 2023. See attached slide 11.

Mike Swain commented on the torn/punctured glove incident that had happened at Tritium a few days prior to the meeting. Since we have seen large uptakes caused by puncture wounds in the past, this is a good reminder to be aware of sharp hazards to avoid issues that may cause uptakes.

There were no other comments. The meeting was adjourned.

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# Site ALARA Committee Meeting

**Kent Williams**

Radiological Protection Department Director

*August 24, 2023*

## Agenda



- |   |                |
|---|----------------|
| 1. Introduction                                   | Kent Williams  |
| 2. Environmental ALARA Update                     | Teresa Eddy    |
| 3. 2 <sup>nd</sup> Quarter Performance Indicators | Diana Jennings |



**Teresa Eddy**

Environmental Bioassay Laboratory and Environmental Monitoring Manager

August 24, 2023

### 2023 Environmental ALARA Guides Status Liquid Discharges



**Liquid Discharges**  
**ALARA Guide Summary Report for All Areas- June 2023**

Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide	Projected % of Guide
A-Area_LIQUID	2.07E-05	4.13E-05	6.00E-05	34.5%	68.9%
F-Area_LIQUID	1.28E-04	2.56E-04	5.20E-04	24.6%	49.2%
F-Tank Farm_LIQUID	2.70E-05	5.40E-05	2.00E-03	1.4%	2.7%
G-Area_LIQUID	6.05E-05	1.21E-04	5.07E-02	0.1%	0.2%
H-Area_LIQUID	1.38E-04	2.75E-04	5.20E-03	2.6%	5.3%
H-ETP_LIQUID	9.12E-05	1.82E-04	1.00E-02	0.9%	1.8%
H-Tank Farm_LIQUID	1.57E-03	3.13E-03	8.65E-03	18.1%	36.2%
K-Area_LIQUID	3.66E-06	7.32E-06	3.09E-04	1.2%	2.4%
L-Area_LIQUID	9.79E-06	1.96E-05	7.08E-05	13.8%	27.6%
S-Area_LIQUID	1.14E-06	2.29E-06	1.65E-04	0.7%	1.4%
Tritium_LIQUID	9.74E-05	1.95E-04	2.01E-04	48.5%	96.9%
Site Totals:	2.14E-03	4.29E-03	7.79E-02	2.8%	5.5%

Tritium requests to increase their ALARA guide to 4.21E -04 mrem/yr due to increases in stack emissions and subsequently liquid effluent values.





## 2023 Environmental ALARA Guides Status- Airborne Emissions



**Airborne Emissions**  
**ALARA Guide Summary Report for All Areas June 2023**

Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide	Projected % of Guide
A-Area_AIR	2.54E-07	5.08E-07	1.70E-03	0.0%	0.0%
C-Area_AIR	2.72E-06	5.44E-06	2.50E-04	1.1%	2.2%
F-Area_AIR	4.43E-05	8.86E-05	1.29E-03	3.4%	6.9%
H-Area_AIR	1.16E-05	2.33E-05	4.96E-03	0.2%	0.5%
H-ETP_AIR	0.00E+00	0.00E+00	1.00E-07	0.0%	0.0%
H-Tank Farm_AIR	1.71E-12	3.41E-12	1.00E-06	0.0%	0.0%
J-Area_AIR	0.00E+00	0.00E+00	1.00E-06	0.0%	0.0%
K-Area_AIR	3.01E-05	6.03E-05	4.05E-03	0.7%	1.5%
L-Area_AIR	2.69E-05	5.38E-05	4.75E-03	0.6%	1.1%
S-Area_AIR	5.32E-06	1.06E-05	6.60E-04	0.8%	1.6%
Tritium_AIR	7.12E-03	1.42E-02	6.21E-02	11.5%	22.9%
Z-Area_AIR	3.20E-09	6.41E-09	5.00E-06	0.1%	0.1%
Site Totals:	7.24E-03	1.45E-02	7.98E-02	9.1%	18.1%


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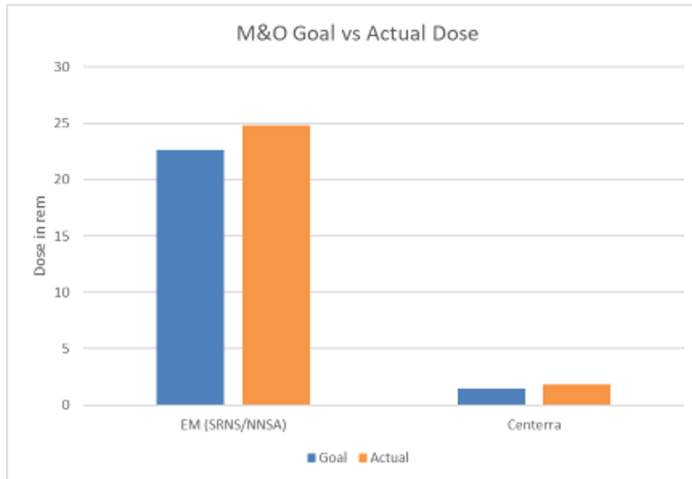

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## 2<sup>nd</sup> Quarter Performance Indicators

**Diana Jennings**  
 Site ALARA Coordinator

August 24, 2023

## M&O Performance Indicators 2<sup>nd</sup> Quarter



### Maximum Individual Dose

	YTD (rem)
Whole Body	0.430 (KAC) 0.060 (Centerra)
Extremity	7.379 (KAC) 0.060 (Centerra)

### Facilities +/- 25%

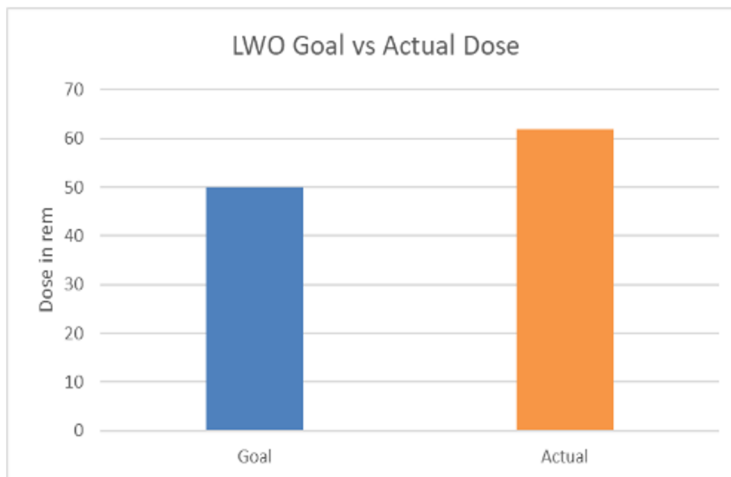
Facility	Goal (rem)	Actual (rem)	Percent
HCA	3.421	5.726	+67.38
L-Area	1.1	1.569	+42.64
SWM	1.8	2.274	+26.33
Centerra	1.5	1.91	+27.33

	Goal (rem)	Actual (rem)	Percent
EM (SRNS/NNSA)	22.646	25.133	+10.98
Centerra	1.5	1.91	+27.33



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## LWO Performance Indicators 2<sup>nd</sup> Quarter



### Maximum Individual Dose

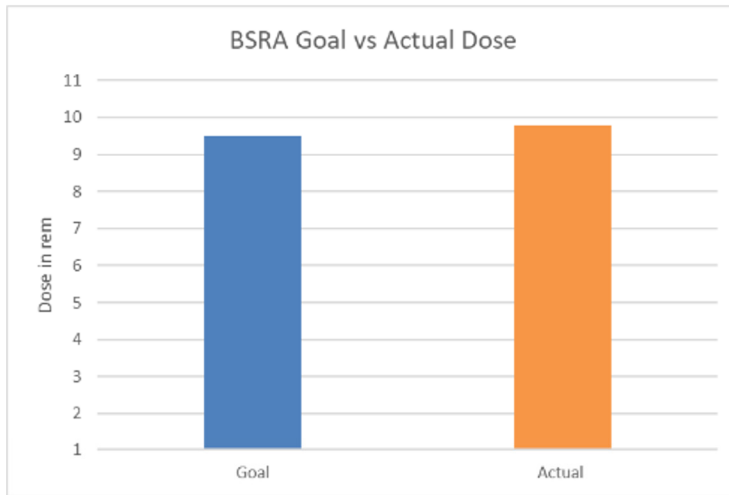
	YTD (rem)
Whole Body	0.593 (HTF)
Extremity	2.057 (SWPF)

	Goal (rem)	Actual (rem)	Percent
LWO	50.09	63.352	+26.48



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## BSRA Performance Indicators- 2<sup>nd</sup> Quarter



### Maximum Individual Dose

	YTD (rem)
Whole Body	0.188
Extremity	2.108

	Goal (rem)	Actual (rem)	Percent
BSRA	9.5	9.767	+2.81

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## Radiological Events



Title	QTR 2	Event
M&O ORPS <a href="#">PerCon</a>		
M&O Non ORPS <a href="#">PerCon</a>	1	Shoe Contamination Case within 221-H Canyon
M&O ORPS Rad Mat		
M&O Non ORPS Rad Mat		
SRMC ORPS <a href="#">PerCon</a>		
SRMC Non ORPS <a href="#">PerCon</a>	3	SWPF ARGOS Alarm Contamination in R135 PCV-2835; SWPF LAB Tech ARGOS Alarm; HTF Personnel ARGOS Alarm
SRMC ORPS Rad Mat		
SRMC Non ORPS Rad Mat	1	Bird droppings discovered outside of 241-24F RP Count Room
BSRA ORPS <a href="#">PerCon</a>	1	SCO Technician alarmed the E-Wing RBA ARGOS monitor
BSRA Non ORPS <a href="#">PerCon</a>	1	Contamination discovered on ARW lab personnel lab coat
BSRA ORPS Rad Mat		
BSRA Non ORPS Rad Mat		


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## Intakes



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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# SITE ALARA COMMITTEE & CHANGE CONTROL BOARD

## ATTENDANCE ROSTER

Meeting Date: August 24, 2023      Quarter/Year: 2<sup>nd</sup> Quarter, 2023

<u>X</u> _____ _____	<u>Chair</u> <b>Mike Swain</b> <b>Doug Bumgardner (Vice Chair)</b>	_____ _____ _____	<u>Alternate</u> <b>Janice Lawson</b> <b>Joel Cantrell</b>
<u>X</u> _____ _____ <u>X</u> _____ <u>X</u> _____ <u>X</u> _____ _____ _____ <u>X</u> _____ _____	<u>SAC Voting Member</u>  <b>Kent Williams (Ex. Secretary)</b> <b>Richard Sprague (ESH&amp;Q)</b> <b>Deborah Solomon (SRTE)</b> <b>Anthony Carraway (SWM/TRU)</b> <b>Matt Arnold (NMD)</b> <b>Lee Sims (NMSP)</b> <b>Geoffrey Smoland (SRNL)</b> <b>Doug Bumgardner (WT)</b> <b>Lisa Amidon (TF)</b> <b>Elester Patten</b> <b>John Gall (LWO RPD)</b> <b>Tim West (EC&amp;ACP)</b>	<u>X</u> _____ <u>X</u> <u>X</u> <u>X</u> _____ <u>X</u> _____ _____ _____ <u>X</u> _____ _____	<u>Alternate</u>  <b>Roy Windham</b>  <b>Ruby Parks</b> <b>Terry Pifer</b> <b>Scott Craft</b> <b>Neil McIntosh</b> <b>Kevin Webster</b>  <b>James Harris</b>  <b>Carol Hunter</b>

**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**

**Quorum Met CCB: Yes**

**SITE ALARA COMMITTEE  
&  
CHANGE CONTROL BOARD**

**ATTENDANCE ROSTER**

**Other Meeting Attendees (print name)**

Diana Jennings	
Pamela Powell	
Wendy Furtick	
Other meeting attendees on the following page.	

Full Name	User Action	Timestamp
Diana Jennings	Joined	8/24/2023, 1:43:00 PM
OWEN, AUSTIN A	Joined	8/24/2023, 1:45:28 PM
Teresa Eddy	Joined	8/24/2023, 1:49:30 PM
Teresa Eddy	Left	8/24/2023, 2:09:12 PM
Teresa Eddy	Joined	8/24/2023, 2:09:25 PM
John Gall	Joined	8/24/2023, 1:51:08 PM
Carol Hunter	Joined	8/24/2023, 1:51:25 PM
+1 803-557-6220	Joined	8/24/2023, 1:52:47 PM
+1 803-557-6220	Left	8/24/2023, 2:26:51 PM
VANFOSSEN, ETHAN	Joined	8/24/2023, 1:52:58 PM
Lillie Gordon	Joined	8/24/2023, 1:53:16 PM
Ronald Sykes	Joined	8/24/2023, 1:54:30 PM
+1 803-226-1321	Joined	8/24/2023, 1:54:38 PM
Robert Entzminger	Joined	8/24/2023, 1:54:50 PM
Wayne Minton	Joined	8/24/2023, 1:54:56 PM
+1 803-952-6207	Joined	8/24/2023, 1:55:21 PM
+1 803-952-6207	Left	8/24/2023, 2:33:27 PM
Terry Pifer	Joined	8/24/2023, 1:55:29 PM
Scott Craft	Joined	8/24/2023, 1:55:32 PM
CR-730-1B-204 (Guest)	Joined	8/24/2023, 1:56:12 PM
Ruby Parks	Joined	8/24/2023, 1:56:43 PM
Joy Epps	Joined	8/24/2023, 1:56:47 PM
+1 803-208-8521	Joined	8/24/2023, 1:56:58 PM
+1 803-208-8521	Left	8/24/2023, 2:41:53 PM
Alyson Jennings	Joined	8/24/2023, 1:57:03 PM
Cathy Torres	Joined	8/24/2023, 1:57:33 PM
Stephanie Blazer	Joined	8/24/2023, 1:57:36 PM
Kevin Webster	Joined	8/24/2023, 1:58:15 PM
Anthony Carraway	Joined	8/24/2023, 1:58:40 PM
Lee Sims	Joined	8/24/2023, 1:58:46 PM
Jack Alexander	Joined	8/24/2023, 1:59:06 PM
Phillip Owens	Joined	8/24/2023, 2:00:02 PM
Pamela02 Powell	Joined	8/24/2023, 2:00:06 PM
Pamela02 Powell	Left	8/24/2023, 2:00:21 PM
Matthew Arnold	Joined	8/24/2023, 2:00:46 PM
Matthew Arnold	Left	8/24/2023, 2:33:00 PM
Jamie Willing	Joined	8/24/2023, 2:02:22 PM
Bruce Long	Joined	8/24/2023, 2:03:15 PM
Kenneth Wells	Joined	8/24/2023, 2:04:43 PM
Gregory Walkup	Joined	8/24/2023, 2:18:15 PM
Gregory Walkup	Left	8/24/2023, 2:41:55 PM
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+1 803-208-8521	Joined	8/24/2023, 2:43:32 PM