

December 16, 2022

Created by Diana Jennings 

## **Site ALARA Committee and Change Control Board Meeting**

The Site ALARA Committee and Change Control Board meeting was held via Microsoft Teams.

### **1. Introduction: Kent Williams**

Kent welcomed everyone to the meeting. The safety topic was being safe around the holidays. Kent informed the meeting attendees that Dennis Carr was unavailable for the meeting this afternoon so John Gall would be chairing today's meeting. John added that we should be mindful of safety onsite and offsite. He discussed the recent fatalities in the CSRA including one child death in a house fire and one death due to fall from a ladder installing Christmas lights.

Pam Powell performed a roll call and Quorum was met (see attached). She then turned the meeting over to Teresa Eddy for the Environmental ALARA review.

### **2. Environmental ALARA: Teresa Eddy**

Teresa thanked Pam and stated that Eric Doman would be taking over the Chair position for the Environmental ALARA Committee for 2022. Eric discussed the data for the 3rd Quarter (see attached). Eric and Teresa stated that they should have the 2022 Environmental ALARA Goals by January 7th, 2022 due to F Area asking for an extension and they would be distributed the following week via email for approval by the board.

### **3. Review of 3<sup>rd</sup> Quarter Performance: Pam Powell**

Pam reviewed 3rd Quarter performance indicators (see attached). There were no comments or questions.

### **4. +/- 25 %**

Facility	*Target	*Actual	Percent
HCA	9.0	5.96	-33.78
FCA	0.90	0.49	-45.6
INF	3.0	2.174	-27.53

HCA - Nick Miller - Nick stated that some work that was planned for the year was postponed for next year. Kent asked if the CY 2022 goal reflected this work being done. Nick stated the goal for next year included expected dose for the postponed work.

FCA - Terry Pifer - Terry stated that work that would possibly generate higher dose was planned for the year but was postponed. Work is expected to take place 1st quarter 2022.

INF - Terry Pifer - Terry stated with a low goal there is a smaller range for error. INF base the yearly goals on historical data due to there not being much dose generating work.

## 5. Proposed 2022 ALARA Goals

Pam presented the 2022 ALARA Goals to the committee.

Facility	2021 ALARA Goal	2022 ALARA Goal
HCA	12	7.38
K-Area	15.8	29.8
L-Area	2.74	3.00
FCA	1.2	0.3
INF/SGP	4	4
SWM	4	4
CLAB	4.3	4
BSRA	18.5	18.5
Tritium	2.225	2.825
Tank Farms	48.735	43.2
Waste Treatment	24.53	21.52
Centerra	4	5

Kent commented that K Area is much higher this year due to work planned for CY 2022. He stated that he has spoken with K Area leadership and agrees with the increased goal.

John asked FCA personnel if the lower goal for the year reflected the work that was postponed. Terry responded that SRNL was taking over most of the analytical lab operations from CLAB that produces most of the dose so even with the work that is planned, the goal should be sufficient.

ALARA goals for CY 2022 were approved per the board.

Pam asked Kent and John if they had any more comments or questions.

John commented on the good work done in the ALARA Goal planning process by all facilities.

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



# 3rd Quarter Site ALARA Committee Meeting

**Kent Williams**

Radiological Protection Director  
Savannah River Nuclear Solutions, LLC

3rd Quarter Review

Teleconference

## AGENDA

- |                                       |                |
|---------------------------------------|----------------|
| 1. Introduction                       | Kent Williams  |
| 2. Environmental ALARA                | Teresa Eddy    |
| 3. 3rd Quarter Performance Indicators | Diana Jennings |
| 4. 2022 ALARA Goals                   |                |



## Environmental ALARA Update

Teresa Eddy  
Environmental ALARA Chairperson  
Savannah River Nuclear Solutions, LLC  
December 2021

### CY2021 Liquid ALARA guides status

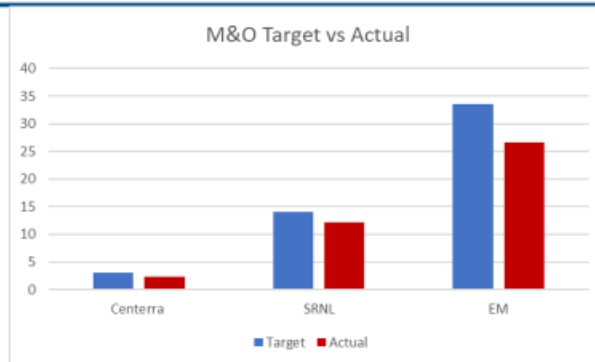
Liquid Discharges ALARA Guide Summary Report for All Areas September 2021					
Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide	Projected % of Guide
A-Area	8.42E-06	1.12E-05	6.00E-05	14.0%	18.7%
F-Area	2.89E-04	3.85E-04	5.20E-04	55.5%	74.0%
F-Tk Fm	7.48E-04	9.98E-04	2.00E-03	37.4%	49.9%
G-Area	6.53E-04	8.71E-04	5.07E-02	1.3%	1.7%
H-Area	8.75E-05	1.17E-04	1.04E-03	8.4%	11.3%
H-ETP	5.35E-03	7.13E-03	1.00E-02	53.5%	71.3%
H-Tk Fm	1.77E-03	2.36E-03	8.65E-03	20.4%	27.2%
K-Area	2.25E-06	3.00E-06	1.71E-05	13.2%	17.6%
L-Area	0.00E+00	0.00E+00	7.08E-05	0.0%	0.0%
S-Area	4.42E-07	5.89E-07	1.65E-04	0.3%	0.4%
Tritium	4.42E-05	5.90E-05	2.37E-04	18.7%	24.9%
Site Totals:	8.95E-03	1.19E-02	7.35E-02	12.2%	16.2%

## CY2021 Airborne ALARA guides status

Airborne Emissions  
ALARA Guide Summary Report for All Areas  
September 2021

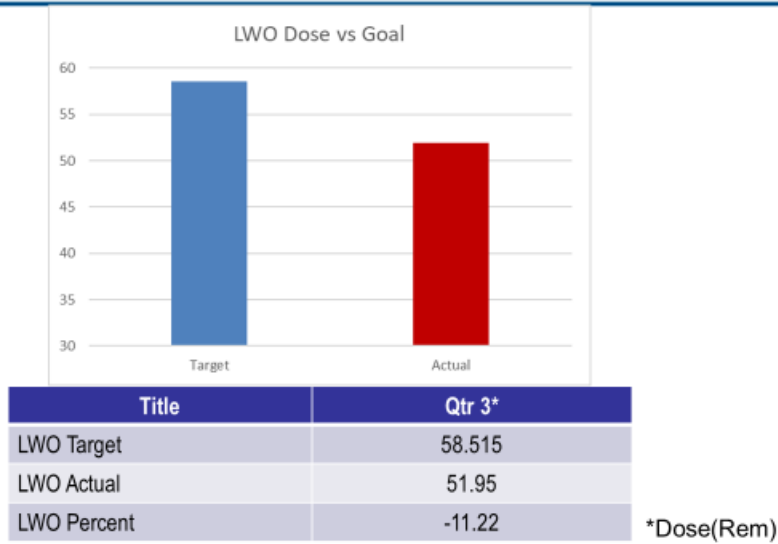
Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide	Projected % of Guide
A-Area	2.24E-08	2.99E-08	1.70E-03	0.0%	0.0%
C-Area	7.28E-05	9.70E-05	2.50E-04	29.1%	38.8%
F-Area	9.75E-05	1.30E-04	1.29E-03	7.6%	10.1%
H-Area	1.07E-05	1.43E-05	5.00E-03	0.2%	0.3%
H-ETP	0.00E+00	0.00E+00	1.00E-07	0.0%	0.0%
H-Tk Frn	7.39E-10	9.85E-10	1.00E-06	0.1%	0.1%
J-Area	5.89E-09	7.86E-09	1.00E-06	0.6%	0.8%
K-Area	1.32E-03	1.76E-03	4.05E-03	32.7%	43.5%
L-Area	1.61E-03	2.15E-03	4.75E-03	34.0%	45.3%
S-Area	1.75E-05	2.33E-05	5.50E-05	31.8%	42.4%
Tritium	1.13E-02	1.51E-02	7.88E-02	14.4%	19.1%
Z-Area	1.96E-08	2.61E-08	5.00E-06	0.4%	0.5%
Site Totals:	1.44E-02	1.93E-02	9.59E-02	15.1%	20.1%

## M&O Dose vs Goal



Title	Target*	Actual*	Percent	
Centerra	3.0	2.34	-22	
SRNL	14	12.205	-12.82	
EM	33.58	26.556	-20.92	*Dose(Rem)

## LWO Dose vs Goal



## Maximum Individual Dose

Title	*YTD	Facility
EM	0.321	NMM
LWO	0.320	HTF
SRNL	0.340	
Centerra	0.04	

\*Dose (Rem)

## Maximum Extremity

Title	CY21*
EM Maximum Extremity Dose	7.554 (NMM)
LWO Maximum Extremity Dose	2.606 (SSS)

\*Dose(Rem)

## Radiological Events

Title	QTR 3	Event
M&O ORPS PerCon	0	
M&O Non ORPS Percon	0	
M&O ORPS Rad Mat	0	
M&O Non ORPS Rad Mat	0	
LWO ORPS PerCon	0	
LWO Non ORPS PerCon	0	
LWO ORPS Rad Mat	1	241-24H Domestic Water Excavation Soil Contamination Incident
LWO Non ORPS Rad Mat	0	



## Intakes

Title	CY21
M&O > 500 mrem	0
M&O > 100 mrem	0
LWO > 500 mrem	0
LWO > 100 mrem	0

## +/- 25 %

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\*Dose(Rem)

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# SITE ALARA COMMITTEE & CHANGE CONTROL BOARD

## ATTENDANCE ROSTER

Meeting Date: 12/16/2021

Quarter/Year: 3rd / 2021

<u>Chair</u>	<u>Alternate</u>
<input checked="" type="checkbox"/> <b>Dennis Carr</b> <input checked="" type="checkbox"/> <b>Doug Bumgardner (Vice Chair)</b>	<input checked="" type="checkbox"/> <b>Wyatt Clark</b> <input checked="" type="checkbox"/> <b>John Gall</b>
<u>SAC Voting Member</u>	<u>Alternate</u>
<input checked="" type="checkbox"/> <b>Kent Williams (Ex. Secretary)</b>	<input checked="" type="checkbox"/> <b>Roy Windham</b>
<input checked="" type="checkbox"/> <b>Richard Sprague (ESH&amp;Q)</b>	<input checked="" type="checkbox"/> <b>Mary Flora</b>
<input checked="" type="checkbox"/> <b>Deborah Solomon (SRTE)</b>	<input checked="" type="checkbox"/> <b>Ruby Parks</b>
<input type="checkbox"/> <b>Verne Mooneyhan (SWM/TRU)</b>	<input checked="" type="checkbox"/> <b>Robert Minnick</b>
<input type="checkbox"/> <b>Scott Germain (NMD)</b>	<input checked="" type="checkbox"/> <b>Nicholas Miller</b>
<input type="checkbox"/> <b>Janice Lawson (NMSP)</b>	<input checked="" type="checkbox"/> <b>Durwood Melvin</b>
<input type="checkbox"/> <b>Geoffrey Smoland (SRNL)</b>	<input checked="" type="checkbox"/> <b>Kevin Webster</b>
<input type="checkbox"/> <b>Doug Bumgardner (WT)</b>	<input type="checkbox"/>
<input type="checkbox"/> <b>Joel Cantrell (TF)</b>	<input type="checkbox"/>
<input type="checkbox"/> <b>Wes Bryan</b>	<input checked="" type="checkbox"/>
<input type="checkbox"/> <b>John Gall (LWO RPD)</b>	<input checked="" type="checkbox"/> <b>Carol Hunter</b>
<input type="checkbox"/> <b>Tim West (EC&amp;ACP)</b>	<input type="checkbox"/>

**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)

<u>Pamela Howell</u>	<u>Eric Doman</u>
<u>Page Courtney</u>	
<u>Teresa Eddy</u>	
<u>Wayne Minton</u>	
<u>Todd Brantley</u>	
<u>Cal Dan Smith</u>	
<u>Rhianna Hubbard</u>	
<u>Robbie Black</u>	
<u>Robert Entzinger</u>	
<u>Andrew Parker</u>	
<u>Kevin Webster</u>	
<u>Ethan Vanfossen</u>	
<u>Ron Sykes</u>	
<u>Diana Jennings</u>	