

December 17, 2019

Created by Pamela A. Powell 

Site ALARA Committee & Change Control Board Meeting

The Site ALARA Committee and Change Control Board in 735-B Alternate EOC.

Rollcall was performed and Quorum was met for the SAC and CCB. (See Attached)

1) Introduction: Kent Williams

Kent welcomed everyone to the meeting. Safety topic was discussed.

2) Environmental ALARA: Teresa Eddy

Teresa Eddy presented the 2020 Environmental ALARA goals. Question was asked if there was a change in order of magnitude for A area goal and it was answered that there was a change due to anticipated work and dose conversion factors. H Area and A Area liquid discharge will be submitted for approval at a later date. Joel Cantrell wanted to take another look at S Area guides due to SWP startup. It was asked when this would happen and it was answered in approximately one week.

All other airborne and liquid discharge goals were approved per the board. Remaining guides will be sent out for approval via email.

3) External Dosimetry Update: Wendy Furtick

See Attached.

Wendy gave an update on the transition to Landauer and the delinquent 2019 dosimeters. It was requested to encourage all personnel to turn in dosimetry prior to leaving for holidays.

4) Review of 3rd Quarter Performance: Pamela Powell

3rd Quarter PI were reviewed (See Attached)

5) 2020 ALARA Goals – Pamela Powell

Pamela presented 2020 ALARA goals for approval. There were no questions about goals. 2020 ALARA Goals were approved per the board.



It was discussed that there was a new policy issued for restrictions to issuance of dosimetry to non-qualified radworkers.

SITE ALARA COMMITTEE & CHANGE CONTROL BOARD

ATTENDANCE ROSTER

Meeting Date: 12/17/2019

Quarter/Year: 3/2019

	<p style="text-align: center;"><u>Chair</u></p> <p>Dennis Carr Doug Bumgardner (Vice Chair)</p>		<p style="text-align: center;"><u>Alternate</u></p> <p>Wyatt Clark Jim Wilson</p>
<p><u>KW</u></p> <p>_____</p> <p>_____</p> <p><u>SW</u></p> <p>_____</p> <p>_____</p> <p><u>MC</u></p> <p>_____</p> <p><u>SW</u></p> <p>_____</p>	<p style="text-align: center;"><u>SAC Voting Member</u></p> <p>Kent Williams (Ex. Secretary) Richard Sprague (ESH&Q) Deborah Solomon (SRTE) Verne Mooneyhan (SWM/TRU) Steve Wilkerson (NMD) Janice Lawson (NMSP) Donald Barfield (SRNL) Doug Bumgardner (TF) Joel Cantrell (WT) William Harris Jim Wilson (LWO RPD) Tim West (EC&ACP)</p>	<p><u>SW</u></p> <p>_____</p> <p>_____</p> <p><u>SW</u></p> <p>_____</p> <p><u>SR</u></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p style="text-align: center;"><u>Alternate</u></p> <p>Roy Windham Mary Flora Ruby Parks Robert Minnick Richard Burns Durwood Melvin Scott Craft</p> <p>Cindy Head</p>

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)

Teresa Eddy
Gerald M. Achenbach
Austin Owen
Lillie M. Gordon
Terry Pifer
PHILIP OWENS
Todd Brantley
Ronno Sykes
PAUL BORDIN
Nitant Patel
Alec Salakovich
Ken Fleming
Tommy CHACKER

Wendy Furtick
John H. Jr
Robert Entzinger
Evan Gray
Adam Deese
Martha Thompson
George Harper
~~Butt~~
Doug Bumgarner

3rd Quarter Site ALARA Committee Meeting

Kent Williams

Radiological Protection Director

Savannah River Nuclear Solutions, LLC
December 17, 2019

3rd Quarter Review

735-B AEOC

AGENDA

- | | |
|---------------------------------------|---------------|
| 1. Introduction | Kent Williams |
| 2. Environmental ALARA | Teresa Eddy |
| 3. External Dosimetry Update | Wendy Furtick |
| 4. YTD Quarter Performance Indicators | Pamela Powell |
| 5. 2020 ALARA Goals | Pamela Powell |



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Environmental ALARA Update

Teresa Eddy
Environmental ALARA Chairperson
Savannah River Nuclear Solutions, LLC
December 2019

CY2019 Liquid ALARA Guides Status - October 2019

Area	YTD TED (mrem)	Projected Annual TED (mrem)	Guide (mrem)	YTD % of Guide	Projected % of Guide
A-Area	7.67E-06	9.20E-06	6.00E-05	12.8%	15.3%
F-Area	2.21E-04	2.65E-04	5.20E-04	42.5%	51.0%
F-Tk Farm	2.20E-04	2.65E-04	1.00E-03	22.0%	26.5%
H-Area	7.02E-05	8.43E-05	1.04E-03	6.8%	8.1%
H-ETP	4.15E-04	4.98E-04	7.25E-03	5.7%	6.9%
H-Tk Farm	1.61E-03	1.93E-03	8.65E-03	18.6%	22.3%
K-Area	2.46E-07	2.95E-07	8.55E-06	2.9%	3.5%
L-Area	0.00E+00	0.00E+00	7.08E-05	0.0%	0.0%
S-Area	2.36E-06	2.84E-06	1.50E-04	1.6%	1.9%
Tritium	2.80E-05	3.36E-05	3.00E-04	9.3%	11.2%
Site Totals	2.57E-03	3.09E-03	1.90E-02	13.5%	16.2%

CY2019 Airborne ALARA Guides - October 2019

Area	YTD TED (mrem)	Projected Annual TED (mrem)	Guide (mrem)	YTD % of Guide	Projected % of Guide
A-Area	1.43E-05	1.71E-05	1.25E-04	11.4%	13.7%
C-Area	1.19E-04	1.43E-04	2.31E-04	51.7%	62.0%
F-Area	2.12E-04	2.54E-04	1.87E-03	11.3%	13.6%
H-Area	3.52E-03	4.23E-03	5.00E-03	70.5%	84.6%
H-ETP	8.93E-10	1.07E-09	1.00E-07	0.9%	1.1%
H-Tk Farm	3.43E-09	4.11E-09	1.00E-06	0.3%	0.4%
K-Area	1.35E-03	1.62E-03	2.05E-03	66.0%	79.2%
L-Area	1.48E-03	1.78E-03	1.95E-03	76.1%	91.4%
S-Area	5.56E-07	6.68E-07	5.00E-05	1.1%	1.3%
Tritium	2.10E-02	2.52E-02	8.95E-02	23.5%	28.2%
Z-Area	1.03E-08	1.23E-08	5.00E-06	0.2%	0.2%
Site Totals	2.77E-02	3.33E-02	1.01E-01	27.5%	33.0%

2020 Environmental ALARA Goals

AIRBORNE Discharges AREA		2020 ALARA Guide (mrem/yr)	LIQUID Discharges AREA		2020 ALARA Guide (mrem/yr)
A-Area		5.11E-02	A-Area		TBD
C-Area		2.31E-04	F-Area		5.20E-04
F-Area		1.40E-03	F-Tank Farm		1.00E-03
F-Tank Farm		1.00E-07	H-Area		TBD
H-Area		TBD	H-ETP		7.25E-03
H-ETP		1.00E-07	H-Tank Farm		8.65E-03
H-Tank Farm		1.00E-06	K-Area		8.55E-06
J-Area		5.00E-06	L-Area		7.08E-05
K-Area		4.05E-03	S-Area		1.50E-04
L-Area		4.50E-03	Tritium		3.00E-04
S-Area		5.00E-05			
Tritium		8.95E-02			
Z Area		5.00E-06			



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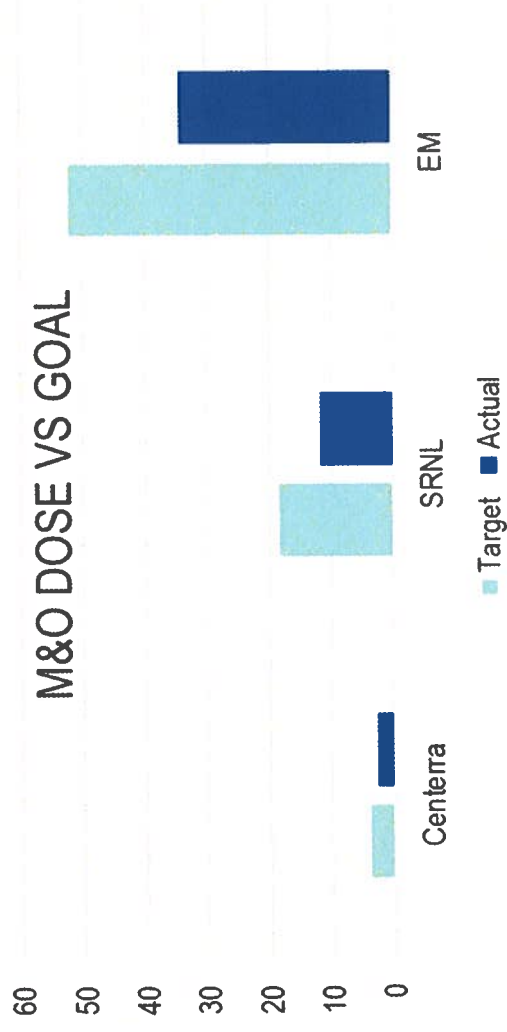
External Dosimetry Update

Wendy Furtick
Dosimetry Services Manager

External Dosimetry Update

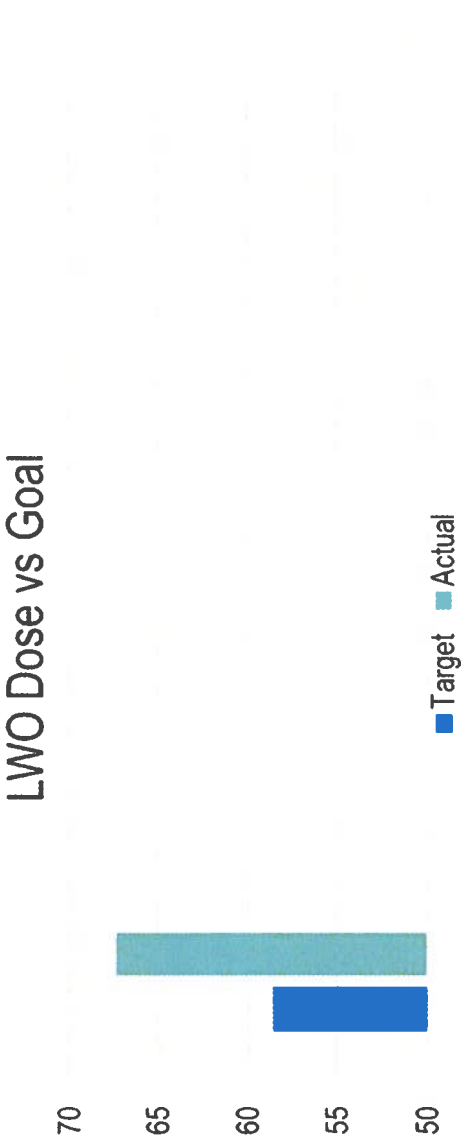
- **Transition to Landauer**
 - Dosimeters have been picked up by External Dosimetry personnel and receipt inspections will be completed this week
 - Field training for SRNS and SRR will be completed this week
 - Parsons training has been completed
 - Delivery to the field Radcon offices will be on 12/31/2019
 - Dosimeter exchange can begin on 01/01/2020
- **Delinquent 2019 Dosimeters**

M&O Dose vs Goal



Title	Target	Actual	Percent
Centerra	4.0	2.627	-34.33
SRNL	18.5	11.623	-37.17
EM	52.435	34.388	-34.42

LWO Dose vs Goal



Title	December 2019
LWO Target	78.43
LWO YTD Dose	67.584
LWO Percent	-13.83

Maximum Individual Dose

Title	YTD	QTR	Facility
EM	0.679	0.053	
LWO	0.369	0.104	
SRNL	0.746	0.067	
Centerra	0.087	0	

Maximum Extremity

Title	CY19
EM Maximum Extremity Dose	4.939 (235)
LWO Maximum Extremity Dose	6.833 (SSS)

Radiological Events

Title	December 2019	Event
M&O ORPS PerCon	0	
M&O Non ORPS Percon	1	ILVT Sampling
M&O ORPS Rad Mat	2	
M&O Non ORPS Rad Mat	0	
LWO ORPS PerCon	2	Personal Shoe Contamination at 299-H
LWO Non ORPS PerCon	0	
LWO ORPS Rad Mat	0	
LWO Non ORPS Rad Mat	0	

Intakes

Title	CY19
M&O > 500 mrem	0
M&O > 100 mrem	0
LWO > 500 mrem	0
LWO > 100 mrem	0

2020 ALARA Goals

Facility	Routine	Job-Specific	Total
HBL	.4	.05	.45
HCA	9.7	.6	10.3
KAC	8.8	4.0	12.8
L AREA	1.7	0.3	2.0
SW	3.6	0	3.6
INF/SGP	3.6	0	3.6
TRIT	2.65	0	2.65
CLAB	6.8	0	6.8
F AREA	1.7	0	1.7
SRNL	18.0	.5	18.5
CENTERRA	3.6	0	3.6
LWO – TK	24.3	24.93	49.23
LWO - WT	14.4	11.0	25.4

2020 ALARA GOALS

SITE	ROUTINE	JOB-SPECIFIC	TOTAL
M&O	60.55	5.45	66.0
LWO	38.7	35.93	74.63
Site Total	99.25	41.38	140.63