

3rd Quarter 2024 Site ALARA Committee Meeting Minutes

December 2, 2024

Prepared by Diana Jennings

Diana Jennings started the meeting by taking a role call and establishing the quorum for the Site ALARA Committee and Change Control Board. See attached roster.

Introduction

Kent Williams welcomed everyone to the meeting. As the safety topic, Kent discussed the cold weather and the safety issues that arise such as frozen pipes, ice on the road and on vehicles, and giving yourself more time to get to work safely with these hazards in mind.

Environmental ALARA Update

Eric Doman, Environmental ALARA Chairperson, discussed the Liquid Discharges and Airborne Emissions as of September 2024. See slides 4 and 5. Both liquid and airborne discharges are well within the ALARA Goals and are trending to be for the remainder of CY 2024. There were no comments or questions.

3rd Quarter Performance Indicators

The meeting was then turned over to Diana Jennings to discuss the 3rd Quarter Performance Indicators. M&O goals versus actual dose were discussed first. See slide 7. It was mentioned that External Dosimetry is currently awaiting additional neutron dosimetry results from Landauer that effected the dose totals for M&O and Centerra. The following facilities were greater than +/- 25% of the ALARA Goal and were required to discuss.

HCA- Matt Arnold stated that they overestimated for the work that was taking place for CY 2024. FCA and ABD work doses were a lot lower than expected and they have adjusted their ALARA Goals for CY 2025 accordingly. He then requested to lower the final goal for 2024 to 6.7 rem. This was approved per the board.

L-Area – Jeremy Mathis stated that the Mark 18 Cask processing did not take place during CY 2024 and therefore the dose estimates established at the beginning of the year had their overall goal high, even with the changes requested for Quarter 3 and Quarter 4. This was taken into consideration for the CY 2025 ALARA Goals. No changes were requested.

F-Area- Terry Pifer stated that the CY 2024 ALARA Goals for F-Area were increased at the last meeting due to the increase of personnel receiving dosimetry in the area. However, for the 3rd Quarter only about 1/3 of the usual number of people received dosimetry and therefore the dose total is lower. No changes were requested.

LWO 3rd Quarter Performance Indicators were presented. See slide 8. No comments or questions.

BSRA 3rd Quarter Performance indicators were presented. See slide 9. No comments or questions.

Radiological Events that occurred during the 3rd Quarter were then shared. See slide 10. There were no comments or questions.

There have been no intakes of radioactive material greater than 100 mrem for CY 2024. See slide 11.

CY 2025 ALARA Goals

CY 2025 ALARA Goals were presented for approval. See slide 12. Mike Swain asked H-Canyon about them lowering their goal by 50%. Matt Arnold stated that since they have actual data from work being done, they can better estimate the dose for next year. Next, he asked Tritium about their increase and if it was due to the outage planned. Ruby Parks stated that the increase was due to cutter head work. There were no other comments or questions. The CY 2025 ALARA Goals were approved per the board.

CY 2025 Administrative Control Levels

CY 2025 Administrative Control Levels were presented for approval. See slide 13. These included the general SRS employee of 500 mrem/year and 800 mrem/year for K-Area KIS Glovebox operators. These were approved per the board.

John Gall commented that the LWO ALARA Goals and Administrative Control Levels would be presented at the ESQB meeting and would be shared once they are approved.

Mike Swain closed the meeting with thanking everyone for their hard work this past year, noting achievements such as no intakes greater than 100 mrem for CY 2024 and no ORPS reportable radiological events. There were no other comments or questions, and the meeting was adjourned.

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Site ALARA Committee Meeting

Kent Williams
Radiological Protection Department Director

December 2, 2024


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Agenda		
1. Introduction	Kent Williams	
2. Environmental ALARA Update	Eric Doman	
3. 3rd Quarter Performance Indicators	Diana Jennings	
4. CY 2025 ALARA Goals		
5. CY 2025 Administrative Control Levels		

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Environmental ALARA Update

Eric Doman
Environmental Compliance & Area Completion Projects

December 2, 2024


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2024 Environmental ALARA Guides Status- Liquid Discharges							
Liquid Discharges							
ALARA Guide Summary Report for All Areas – September 2024							
Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide	Projected % of Guide		
A-Area_LIQUID	1.32E-05	1.76E-05	6.00E-05	21.9%	29.3%		
F-Area_LIQUID	2.29E-04	3.05E-04	5.86E-04	39.0%	52.0%		
F-Tank Farm_LIQUID	1.00E-04	1.33E-04	2.00E-03	5.0%	6.7%		
G-Area_LIQUID	2.43E-04	3.25E-04	4.16E-02	0.6%	0.8%		
H-Area_LIQUID	4.41E-04	5.89E-04	5.20E-03	8.5%	11.3%		
H-ETP_LIQUID	7.39E-04	9.85E-04	1.00E-02	7.4%	9.9%		
H-Tank Farm_LIQUID	2.68E-03	3.58E-03	8.65E-03	31.0%	41.3%		
K-Area_LIQUID	9.67E-07	1.29E-06	3.60E-04	0.3%	0.4%		
L-Area_LIQUID	1.70E-05	2.26E-05	6.32E-04	2.7%	3.6%		
S-Area_LIQUID	2.42E-06	3.22E-06	1.65E-04	1.5%	2.0%		
Tritium_LIQUID	1.25E-04	1.66E-04	1.59E-03	7.8%	10.4%		
Site Totals:	4.59E-03	6.12E-03	7.08E-02	6.5%	8.6%		



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2024 Environmental ALARA Guides Status- Airborne Emissions					
<div> <div>  </div> </div>					
<div> <div>Airborne Emissions</div> <div>ALARA Guide Summary Report for All Areas – September 2024</div> </div>					
Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide	Projected % of Guide
A-Area_AIR	2.21E-06	2.95E-06	1.70E-03	0.1%	0.2%
C-Area_AIR	3.99E-06	5.32E-06	4.50E-04	0.9%	1.2%
F-Area_AIR	2.96E-05	3.95E-05	6.26E-04	4.7%	6.3%
H-Area_AIR	9.71E-06	1.29E-05	4.96E-03	0.2%	0.3%
H-ETP_AIR	0.00E+00	0.00E+00	1.00E-07	0.0%	0.0%
H-Tank Farm_AIR	3.36E-09	4.48E-09	1.00E-06	0.3%	0.4%
J-Area_AIR	0.00E+00	0.00E+00	1.00E-06	0.0%	0.0%
K-Area_AIR	3.99E-05	5.32E-05	4.05E-03	1.0%	1.3%
L-Area_AIR	4.54E-05	6.05E-05	4.75E-03	1.0%	1.3%
S-Area_AIR	2.48E-05	3.30E-05	6.60E-04	3.8%	5.0%
Tritium_AIR	1.36E-02	1.81E-02	2.66E-01	5.1%	6.8%
Z-Area_AIR	4.65E-09	6.20E-09	5.00E-06	0.1%	0.1%
Site Totals:	1.38E-02	1.83E-02	2.83E-01	4.9%	6.5%


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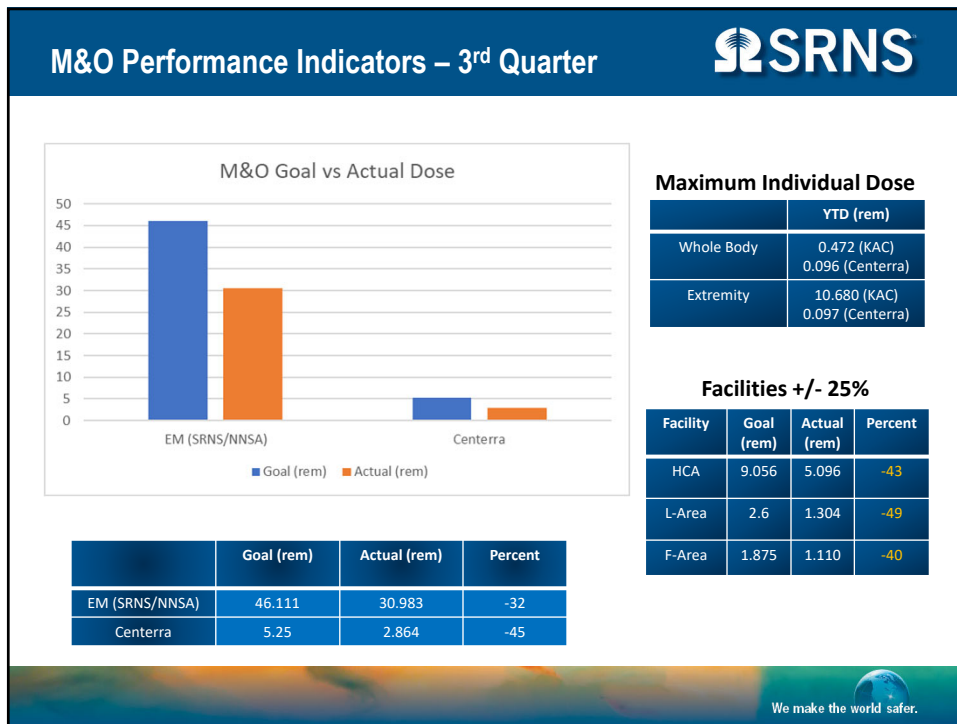
3rd Quarter Performance Indicators

Diana Jennings

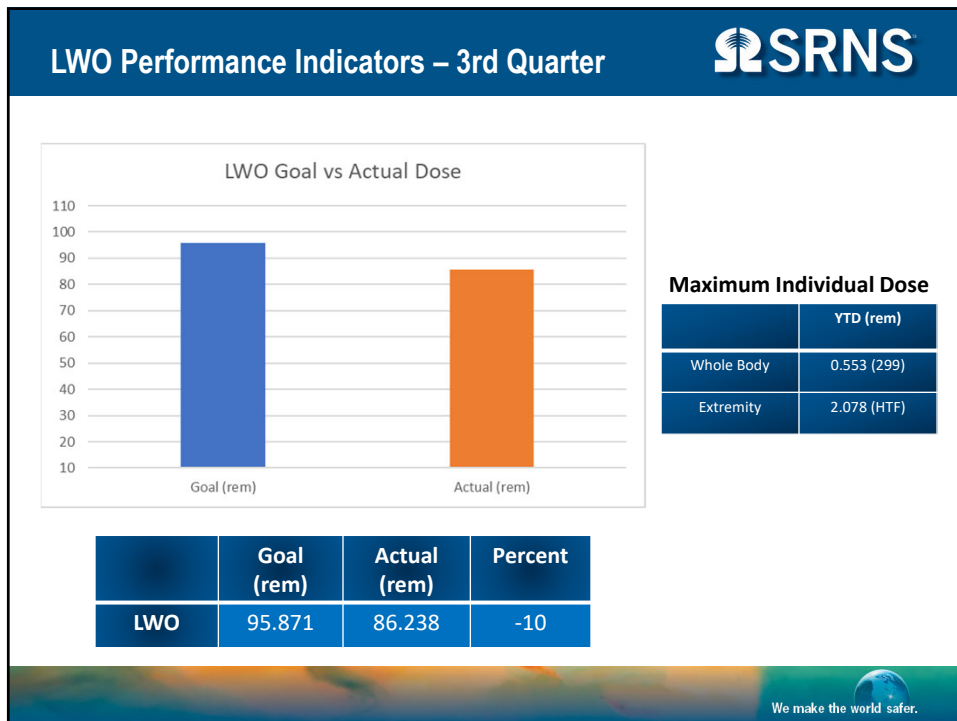
Site ALARA Coordinator

December 2, 2024

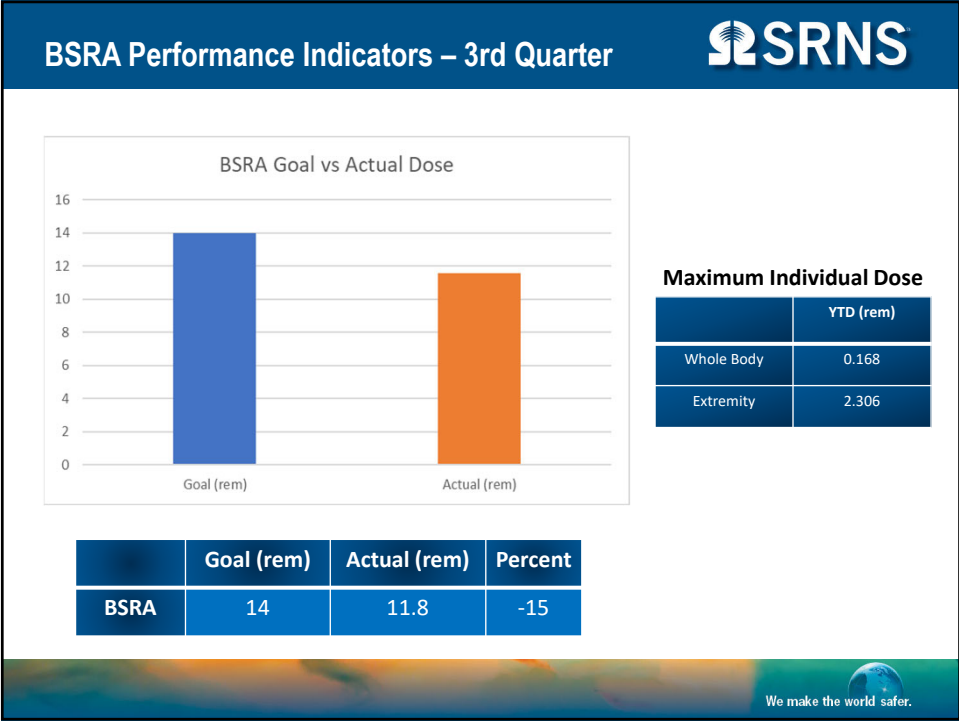
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Radiological Events



Title	QTR 3	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	SWPF- Personnel Contamination (2)
SRMC ORPS Rad Mat		
SRMC Non ORPS Rad Mat	5	FTF Contaminated Wasps Nests (3), ETF H-Lift Station Valve Leak, Tank 1-8 Valve Box Conductivity Probe
BSRA ORPS PerCon		
BSRA Non ORPS PerCon		
BSRA ORPS Rad Mat		
BSRA Non ORPS Rad Mat		

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Intakes		SRNS	
Title	CY 2024		
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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2025 ALARA Goals		SRNS	
Facility	2024 ALARA Goal (rem)	2025 ALARA Goal (rem)	Percent Change
HCA/HBL/HOF	12.071	6.000	-50.3
K-Area	34.4	37.4	+8.7
L-Area	3.2	2.69	-15.9
F-Area	2.5	2	-20
INF / EC&ACP	4	4	0
Solid Waste Management	4.6	4.4	-4.3
Tritium	2.41	2.85	+18.3
SRNS/NNSA Total	63.181	59.34	-6.1
BSRA	18.5	19.558	+5.7
Centerra	6.25	5	-20

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2025 Administrative Control Levels (ACL)



- General SRS ACL recommendation of 500 mrem.
- KAC requests that all qualified KIS Glovebox (GB) operators are given an ACL of 800 mrem.
 - The estimated exposure of KIS processing is 16 Rem.
 - With 29 qualified KIS GB operators, that equates to an average exposure of about 550 mrem/person/year.



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SITE ALARA COMMITTEE & CHANGE CONTROL BOARD

ATTENDANCE ROSTER

Meeting Date: Dec 2nd, 2024

Quarter/Year: 3rd Quarter/ 2024

<u>X</u> _____ _____	<u>Chair</u> Mike Swain Lisa Amidon (Vice Chair)	_____ _____ _____	<u>Alternate</u> Janice Lawson Bruce Long
<u>X</u> _____ _____ _____ <u>X</u> <u>X</u> _____ _____ <u>X</u> <u>X</u> _____ <u>X</u> _____	<u>SAC Voting Member</u> Kent Williams (Ex. Secretary) Richard Sprague (ESH&Q) Deborah Solomon (SRTE) Anthony Carraway (SWM/TRU) Matt Arnold (NMD) Lee Sims (NMSP) Geoffrey Smoland (SRNL) John Gall Rodney Blackmon Glen Johnson Teresa Eddy	_____ <u>X</u> _____ <u>X</u> <u>X</u> _____ _____ <u>X</u> <u>X</u> _____ _____	<u>Alternate</u> Roy Windham Ruby Parks Terry Pifer Scott Craft Neil McIntosh Kevin Webster Carol Hunter

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

David Roberts

Jack Parker

Wendy Furtick

Stephanie Blazer

* Jamie Willing attending for S. Craft

Other attendees via Microsoft Teams listed below.

[illegible]

1. Summary

Meeting title	Site ALARA Committee Meeting
Attended participants	51
Start time	12/02/24, 12:46:06 PM
End time	12/02/24, 1:26:15 PM
Meeting duration	40m 8s
Average attendance time	24m 43s

2. Participants

Name	First Join	Last Leave	In-Meeting D	Email
Diana Jennings	12/02/24, 12:52:58 PM	12/02/24, 12:52:59 PM		Diana.Jennings@srs.gov
Derek Colligan	12/02/24, 12:46:09 PM	12/02/24, 1:21:17 PM	35m 8s	Derek.Colligan@srs.gov
MARK MOODY	12/02/24, 12:46:38 PM	12/02/24, 1:21:21 PM	34m 43s	Mark.Moody@srs.gov
Ashley Eskew	12/02/24, 12:47:42 PM	12/02/24, 1:21:17 PM	33m 35s	Ashley.eskew@srs.gov
Teresa Eddy	12/02/24, 12:48:09 PM	12/02/24, 1:21:28 PM	33m 18s	teresa.eddy@srs.gov
Jamie Willing	12/02/24, 12:49:01 PM	12/02/24, 1:22:13 PM	33m 12s	jamie.willing@srs.gov
Christina Knox	12/02/24, 12:49:02 PM	12/02/24, 1:21:17 PM	32m 14s	Christina.Knox@srnl.doe.gov
VANFOSSSEN, ETHAN	12/02/24, 12:49:58 PM	12/02/24, 1:21:19 PM	31m 21s	ethan.vanfossen@srs.gov
Page Courtney	12/02/24, 12:50:28 PM	12/02/24, 1:21:19 PM	30m 50s	page.courtney@srs.gov
Stephanie Blazer	12/02/24, 12:51:11 PM	12/02/24, 1:21:32 PM	30m 20s	Stephanie.Blazer@srs.gov
LEE GAUSE-MCNAIR	12/02/24, 12:51:30 PM	12/02/24, 1:21:16 PM	29m 45s	Lee.Gause-Mcnair@srs.gov
18035573267 (Unverified)	12/02/24, 12:52:01 PM	12/02/24, 1:21:21 PM	29m 20s	
OWEN, AUSTIN A	12/02/24, 12:52:44 PM	12/02/24, 1:21:22 PM	28m 38s	austin02.owen@nnsa.srs.gov
Trinidad Bush	12/02/24, 12:52:57 PM	12/02/24, 1:21:21 PM	28m 23s	trinidad.bush@srnl.doe.gov
Rhianna Hubbard	12/02/24, 12:53:17 PM	12/02/24, 1:21:22 PM	28m 5s	Rhianna.Hubbard@srs.gov
Eric Doman	12/02/24, 12:54:16 PM	12/02/24, 1:21:17 PM	27m	Eric.Doman@srs.gov
18037258757 (Unverified)	12/02/24, 12:54:30 PM	12/02/24, 1:21:20 PM	26m 49s	
JOSEPH GARNER	12/02/24, 12:54:31 PM	12/02/24, 1:21:20 PM	26m 48s	Joseph.Garner@srs.gov
18039528253 (Unverified)	12/02/24, 12:54:43 PM	12/02/24, 1:21:17 PM	26m 34s	
Jeremy Mathis	12/02/24, 12:54:48 PM	12/02/24, 1:21:19 PM	26m 30s	Jeremy.Mathis@srs.gov
Carol Hunter	12/02/24, 12:55:08 PM	12/02/24, 1:21:21 PM	26m 13s	carol.hunter@srs.gov
Todd Brantley	12/02/24, 12:55:26 PM	12/02/24, 1:21:20 PM	25m 54s	todd.brantley@srs.gov
John Gall	12/02/24, 12:55:33 PM	12/02/24, 1:21:21 PM	25m 48s	John.Gall@srs.gov
CR-730-1B-139 (Unverified)	12/02/24, 12:55:41 PM	12/02/24, 1:22:22 PM	26m 41s	

Lori Coward	12/02/24, 12:55:58 PM	12/02/24, 1:21:20 PM	25m 21s	lori.coward@srs.gov
Roy Windham	12/02/24, 12:56:07 PM	12/02/24, 1:26:15 PM	30m 7s	roy.windham@srs.gov
Shane Shull	12/02/24, 12:56:10 PM	12/02/24, 1:21:20 PM	25m 10s	Shane.Shull@srs.gov
Paul Bordon	12/02/24, 12:56:15 PM	12/02/24, 1:21:35 PM	25m 19s	paul.bordon@srs.gov
Joy Epps	12/02/24, 12:56:19 PM	12/02/24, 1:21:19 PM	24m 59s	Joy.Epps@srs.gov
ruby parks (Unverified)	12/02/24, 12:56:34 PM	12/02/24, 1:21:43 PM	25m 8s	
Terry Pifer	12/02/24, 12:56:44 PM	12/02/24, 1:21:19 PM	24m 34s	terry.pifer@srs.gov
Kent Rosenberger	12/02/24, 12:56:58 PM	12/02/24, 1:21:21 PM	24m 22s	kent.rosenberger@srs.gov
Leslie Bonnette	12/02/24, 12:57:41 PM	12/02/24, 1:21:21 PM	23m 40s	Leslie.Bonnette@srs.gov
18032088521 (Unverified)	12/02/24, 12:57:46 PM	12/02/24, 1:21:18 PM	23m 32s	
Matthew Arnold	12/02/24, 12:57:59 PM	12/02/24, 1:21:22 PM	23m 23s	matthew.arnold@srs.gov
Anthony Carraway	12/02/24, 12:58:01 PM	12/02/24, 1:21:16 PM	23m 14s	anthony.carraway@srs.gov
Kevin Webster	12/02/24, 12:58:08 PM	12/02/24, 1:21:21 PM	23m 12s	kevin.webster@srnl.doe.gov
Gregory Walkup	12/02/24, 12:58:19 PM	12/02/24, 1:21:16 PM	22m 57s	gregory.walkup@srs.gov
Megan Corbin	12/02/24, 12:58:55 PM	12/02/24, 1:21:18 PM	22m 22s	Megan.Corbin@srs.gov
Dennis Hadlock	12/02/24, 12:59:09 PM	12/02/24, 1:21:23 PM	22m 14s	dennis.hadlock@srs.gov
Ronald Creech	12/02/24, 12:59:15 PM	12/02/24, 1:21:18 PM	22m 3s	Ronald.Creech@srs.gov
Phillip Owens	12/02/24, 12:59:18 PM	12/02/24, 1:24:33 PM	25m 15s	phillip.owens@srs.gov
Kevin Moeller	12/02/24, 12:59:40 PM	12/02/24, 1:21:34 PM	21m 54s	Kevin.Moeller@srs.gov
Rodney Blackmon	12/02/24, 1:00:24 PM	12/02/24, 1:21:06 PM	20m 42s	Rodney.Blackmon@srs.gov
Alice Barton	12/02/24, 1:00:56 PM	12/02/24, 1:21:39 PM	20m 42s	Alice.Barton@srs.gov
Cathy Torres	12/02/24, 1:01:02 PM	12/02/24, 1:21:20 PM	20m 18s	cathy.torres@srs.gov
Geoffrey Smoland	12/02/24, 1:03:22 PM	12/02/24, 1:21:19 PM	17m 56s	geoffrey.smoland@srnl.doe.gov
Janice Lawson	12/02/24, 1:06:18 PM	12/02/24, 1:21:20 PM	15m 1s	janice.lawson@srs.gov
Ivonne Amidon	12/02/24, 1:06:21 PM	12/02/24, 1:21:16 PM	14m 55s	ivonne.amidon@srs.gov
Kristin Brant	12/02/24, 1:06:32 PM	12/02/24, 1:21:19 PM	14m 47s	Kristin.Brant@srs.gov
Joseph Brutto	12/02/24, 1:25:10 PM	12/02/24, 1:25:29 PM	18s	Joseph.Brutto@srs.gov