May 7, 2018

Created by Pamela A Powell PAPowell

Site ALARA Committee Meeting Minutes

The Site ALARA Committee and Change Control Board Teleconference was held at 1pm.

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

1) Introduction: Kent Williams

Kent welcomed everyone to the meeting.

2) Environmental ALARA : Teresa Eddy

Teresa presented the 2018 Environmental ALARA Overview and Guide Status. Question was asked about the S Area Environmental Airborne ALARA goal at 46.40% of YTD guide. It was stated that this monitoring station has been known to spike at the beginning of the year, but it settles out by the end of the year. There was no concern about the goal being exceeded.

3) **Review of 1st Quarter Performance and Review of 2017**: Pamela Powell

1st Quarter PI were reviewed (See Attached)
Question was asked were there any lessons learned from the March M&O Non ORPS PerCon event. It was stated that the root cause of the event has not been determined. There was a dish pan with legacy contamination found in a drawer of the lab.

4) **Review of +/- 25% Discrepancy**: Facility Representatives
(Note: All doses are in rem)

SRNL - Target 5 vs Actual 3.684 (-26.32%)
Donnie Barfield stated that actual dose for the quarter reviewed in HP Warehouse was 4.738. This discrepancy was due to badges turned in late after the quarterly dose report was run. The facility was challenged to make sure that personnel are returning their badges on time.

HBL Target 0.4 vs Actual 0.182 (-54.5%)
Rick Burns stated that due to the transition of missions occurring in HBL the dose for the quarter was lower than expected. As the transition proceeds throughout the year, adjustments will be made to the goals.

C Lab Target 2.4 vs Actual 1.735 -27.71%)
Terry Pifer stated that the dissolver work did not produce as many high rad samples as expected. These samples should increase in the next quarter. No changes to goals will be made at this time.

KAC Target 3.7 vs Actual 2.152 (--41.84%)
Page Courtney state that the stack battery change out and RFTIDs did not occur in the 1st quarter. No changes to goals will be made at this time.
Tritium Target 0.575 vs Actual 0.753 (+30.96%)
Adam Reese stated that the extractions project was moved up to 1st quarter accounted for the increase in dose. No changes to goals will be made at this time.

SWM Target 0.9 vs Actual 0.533 (--40.78%)
Todd Brantley stated that the overpack of high rad containers and the construction work on pad 4 and 6 work occurred in 1st quarter. No changes to goals will be made at this time.

LWO - WT Target 9.22 vs Actual 4.201 (--54.44%)
LWO – TF Target 13.51 vs Actual 8.789 (-34.94%)

Jim Wilson stated that process systems were down during January in TF. Joel Cantrell stated that there were ventilation outages in WT. No changes to goals will be made at this time.

SITE ALARA COMMITTEE
&
CHANGE CONTROL BOARD

ATTENDANCE ROSTER

Meeting Date: 05/07/2018 **Quarter/Year:** 1st/2018

	Chair		Alternate
✓	David Eyler (Chair)		Wyatt Clark
	Doug Bumgardner (Vice Chair)	✓	Jim Wilson

	SAC Voting Member		Alternate
✓	Greg Tunno (Ex. Secretary)	✓	Kent Williams
	Kliss McNeel (ESH&Q)		Mary Flora
	Deborah Solomon (SRTE)	✓	Ruby Parks
	Verne Mooneyhan (SWM/TRU)		Robert Minnick
	Steve Wilkerson (NMD)	✓	Richard Burns
✓	Janice Lawson (NMSP)		Durwood Melvin
	Donald Barfield (SRNL)	✓	Scott Craft
✓	Doug Bumgardner (TF)		
✓	Joel Cantrell (WT)		
	William Harris		
✓	Jim Wilson (LWO RPD)	✓	Cindy Head
	Tim West (EC&ACP)		

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)

Robbie Black	Page Courtney
Lillie Gordon	Cindy Head
Teresa Eddy	Tommy Chalker
Wendy Jordan	John Ball
Donnie Barfield	
Dave Potocik	
Ruby Parks	

Savannah River NUCLEAR SOLUTIONS℠
FLUOR • NEWPORT NEWS NUCLEAR • HONEYWELL

1st Quarter Site ALARA Committee Meeting

Kent Williams

Radiological Protection Director

Savannah River Nuclear Solutions, LLC

05/07/2018

1st Quarter Review

735-B/Teleconference

AGENDA

1.	Introduction	Kent Williams
2.	Environmental ALARA	Teresa Eddy
3.	1st Quarter Performance Indicators	Pamela Powell
4.	± 25% Discrepancy	Facility Reps

ask about the DOE Reports - excel sheets only

Savannah River NUCLEAR SOLUTIONS℠
FLUOR • NEWPORT NEWS NUCLEAR • HONEYWELL

2018 Environmental ALARA Overview and Guides Status

Teresa Eddy
Environmental ALARA Chair

Savannah River Nuclear Solutions, LLC
May 07, 2018

Site ALARA Committee

Brief History of Environmental ALARA at SRS

- **1989 - DOE Order 5400.5**
  - Required an Environmental ALARA Program
  - 1990 - SRS/SRNL Developed Dose-Based Program
- **1991 Christmas**
  - K-Reactor Release of 5,700 Ci of Tritium to the River over 3 days
- **1992 High Focus**
  - Formalized Program with Procedures
  - Vice Presidents in charge of Environmental ALARA Committee
- **2002 Low Focus**
  - ALARA Procedure Cancelled
  - Dose-Based Program Continued by Environmental Monitoring Section
- **2012 DOE Order 458.1**
  - Refocused Management Attention
  - Part of RadCon ALARA Program

Purpose of Environmental ALARA

- **Maintain exposures to the public and releases to the environment As Low As Reasonably Achievable (ALARA)**

- **Comply with current regulations and DOE Orders (DOE O 458.1)**

*A **Documented** ALARA process **must be implemented** to optimize control and management of radiological activities so that doses to members of the public (both individual and collective) and releases to the environment are kept as low as reasonably achievable.*

*The **Environmental ALARA process must:** to the extent practical and when appropriate, **be coordinated with the 10 CFR Part 835 (RadCon) ALARA process**.*

Dose to the Public Requirements

- **DOE Order 458.1 Radiation Protection of the Public and the Environment**
  - All Pathway Exposure Limit - 100 mrem/yr Total Effective Dose
  - Derived Concentration Standards Compliance
- **40CFR61, Subpart H - National Emission Standards for Hazardous Air Pollutants (NESHAP)**
  - Airborne Total Effective Dose Limit - 10 mrem/yr
- **40CFR141- National Primary Drinking Water Regulations**
  - Drinking Water Limit – MCLs are roughly based on 4 mrem/yr

Derived Concentration Standard Defined

Derived Concentration Standard (DCS) - The value for a radionuclide in air and water that equates to a dose of 100 mrem (millirem) in one year to a gender-weighted and age-weighted reference person conservatively assuming continuous exposure to the actual undiluted/undispersed effluent (DOE-STD-1196-2011, *Derived Concentration Technical Standard*).

- Not regulatory release limits, but rather are screening values for best available technology (BAT) investigations.
- Applicable at the point of discharge from the conduit to the environment.

Environmental ALARA Guides

- **ALARA Guides (Airborne and Liquid) are established annually in accordance with**
  - DOE Order 458.1, *Radiation Protection of the Public and Environment*,
  - 3Q, Procedure 18.5, *Radiological Effluent Monitoring, Reporting and Environmental ALARA Process*
- **Guides take into account**
  - Historical releases
  - Sampling schedule
  - Projected releases (consistent with projected operational scope forecasts)
- **Environmental ALARA Guides are documented monthly in the Radiological Releases Report.**

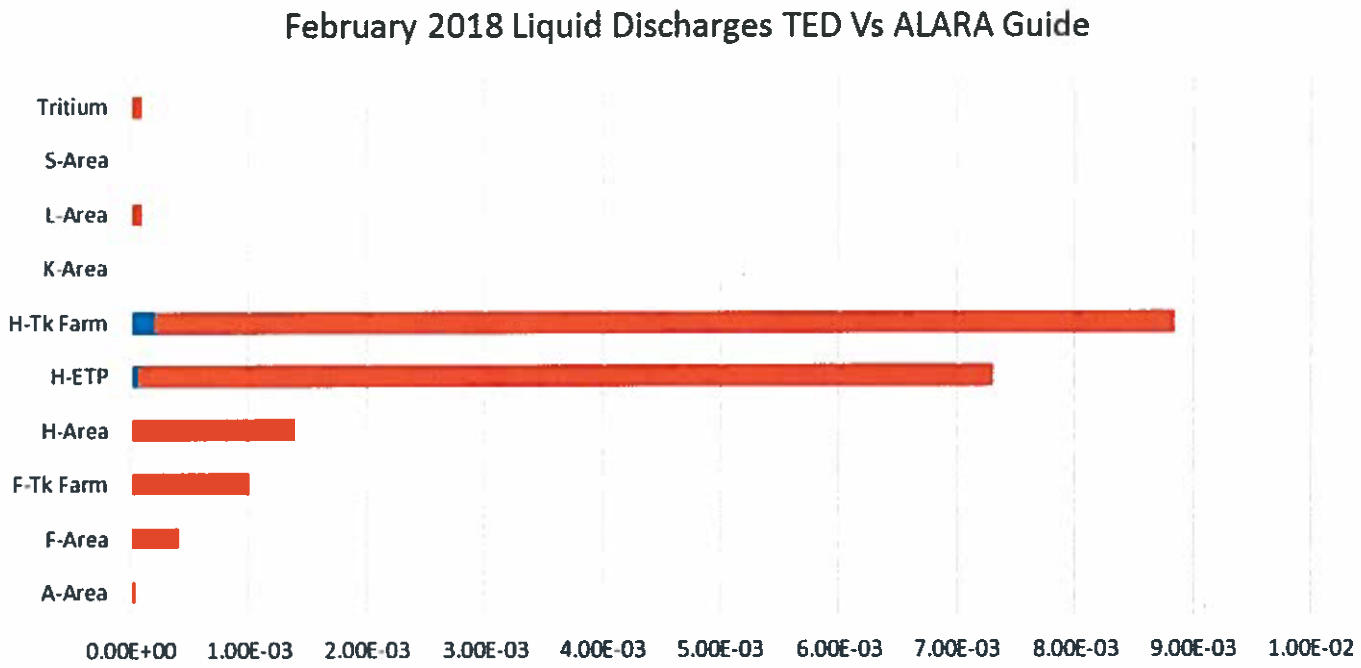
Environmental ALARA Release Guide Exceedance

- If at any time during the calendar year, actual atmospheric or liquid releases exceed the respective area ALARA Release Guides:
  - ECA communicates with the appropriate Facility Operations/Line Management personnel to determine the cause of the exceedance
  - Exceedance investigation memorandum is documented in the next month's Monthly Radiological Release Report
- If subsequent to the issuance of an investigation memorandum, additional releases occur that individually or cumulatively exceed the area ALARA Release Guide
  - Addendum to the pertinent memorandum shall be issued and reported as above

DCS Exceedance Process

- DCS compliance is demonstrated when the sum of the fractional DCS values (based on consecutive twelve-month average concentrations) for all radionuclides measured (with the exception of tritium) in the effluent is less than 1.00.
- BAT investigations are required for
  - Exceedance of the DCS at any liquid discharge point except for tritium and sanitary sewers.
  - Liquid Effluent discharges which contribute greater than 10 mrem annual TED
- For airborne exceedances of the DCS, a similar type of investigation will be performed by the appropriate Facility Operations/Line Management per 3Q 18.5.

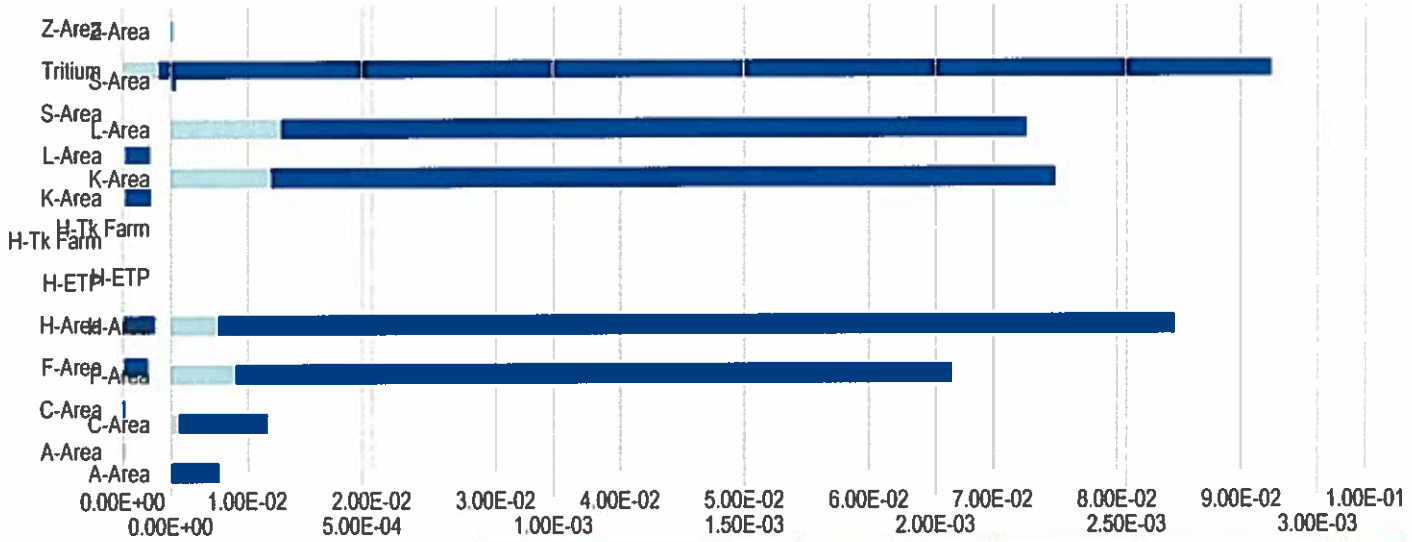
Environmental ALARA Liquid TED Status



Area	YTD TED (mrem)	ALARA Guide (mrem/yr)	YTD % of Guide
A-Area	6.54E-07	4.00E-05	1.60%
F-Area	1.52E-05	4.00E-04	3.80%
F-Tk Farm	2.58E-07	1.00E-03	0.00%
H-Area	8.57E-06	1.38E-03	0.60%
H-ETP	5.53E-05	7.25E-03	0.80%
H-Tk Farm	1.94E-04	8.65E-03	2.20%
K-Area	0.00E+00	1.14E-05	0.00%
L-Area	0.00E+00	9.45E-05	0.00%
S-Area	4.32E-07	1.50E-05	2.90%
Tritium	1.07E-06	9.30E-05	1.10%
Site Totals	2.76E-04	1.89E-02	1.50%

Environmental ALARA Airborne TED Status

February 2018 Air Emissions TED Vs ALARA Guide

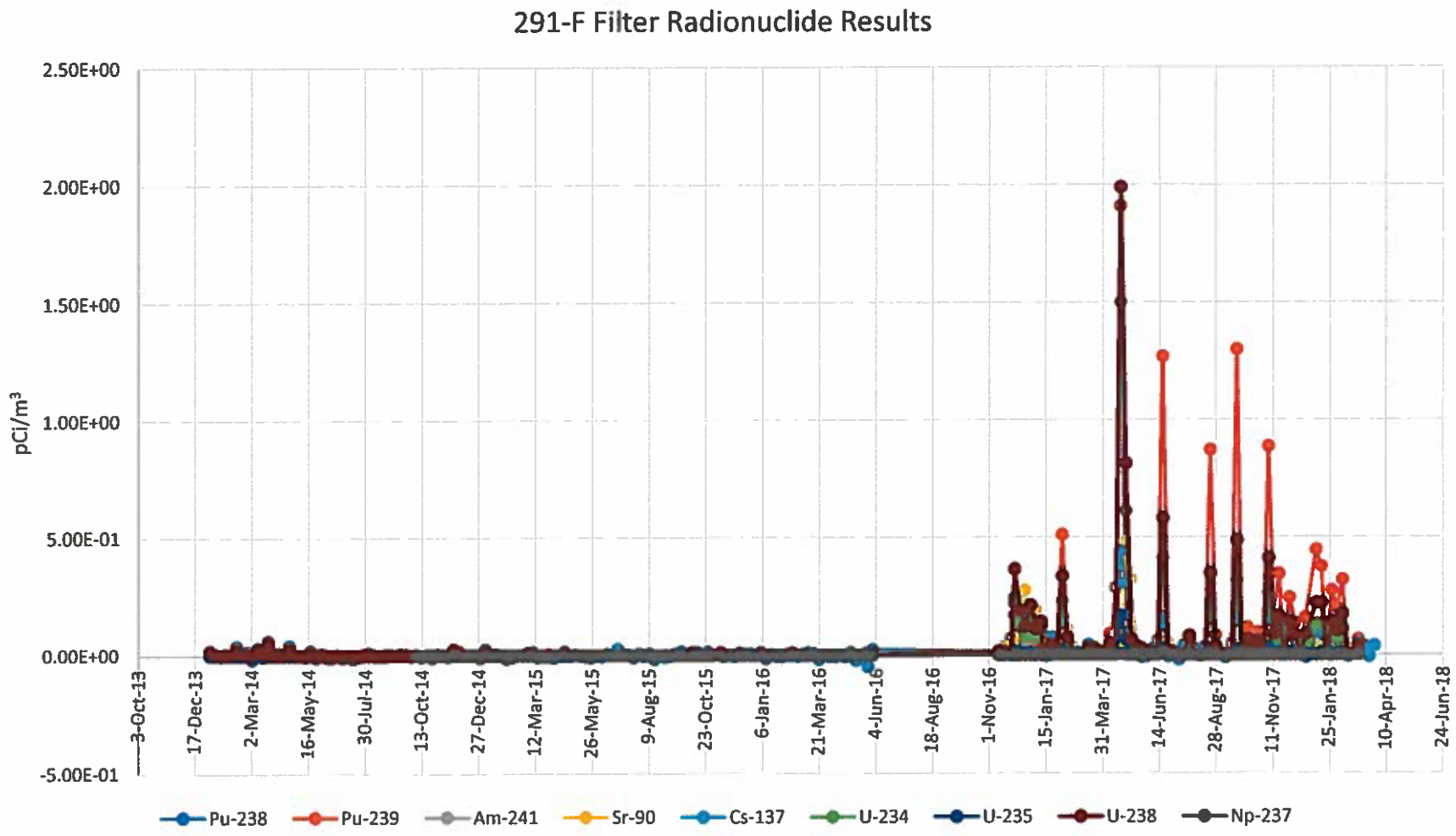


Area	YTD TED (mrem)	ALARA Guide (mrem/yr)	YTD % of Guide
A-Area	4.89E-06	1.25E-04	3.90%
C-Area	2.41E-05	2.31E-04	10.40%
F-Area	1.73E-04	1.87E-03	9.30%
H-Area	1.27E-04	2.50E-03	5.10%
H-ETP	0.00E+00	1.00E-07	0.00%
H-Tk Farm	0.00E+00	1.00E-06	0.00%
K-Area	2.64E-04	2.05E-03	12.90%
L-Area	2.90E-04	1.95E-03	14.90%
S-Area	4.64E-06	1.00E-05	46.40%
Tritium	2.96E-03	8.95E-02	3.30%
Z-Area	2.23E-09	5.00E-06	0.00%
Site Totals	3.85E-03	9.82E-02	3.90%

February 2018 DCS Status

- No radiological effluent locations, other than the **291-F stack**, exceeded the DOE Order 458.1 Derived Concentration Standards(DCS) requirement. The **291-F stack** rolling 12-month DCS sum of fractions is **6.46**, which is above the requirement of 1.00.
  - The actinides Pu-239, Am-241, U-238, and U-234 currently make up about 98% of the DCS sum of fractions; Pu-239 represents 85% of the sum of fractions.
  - SOF has had ~150 times increase since May 2016.
  - An exceedance investigation is ongoing.

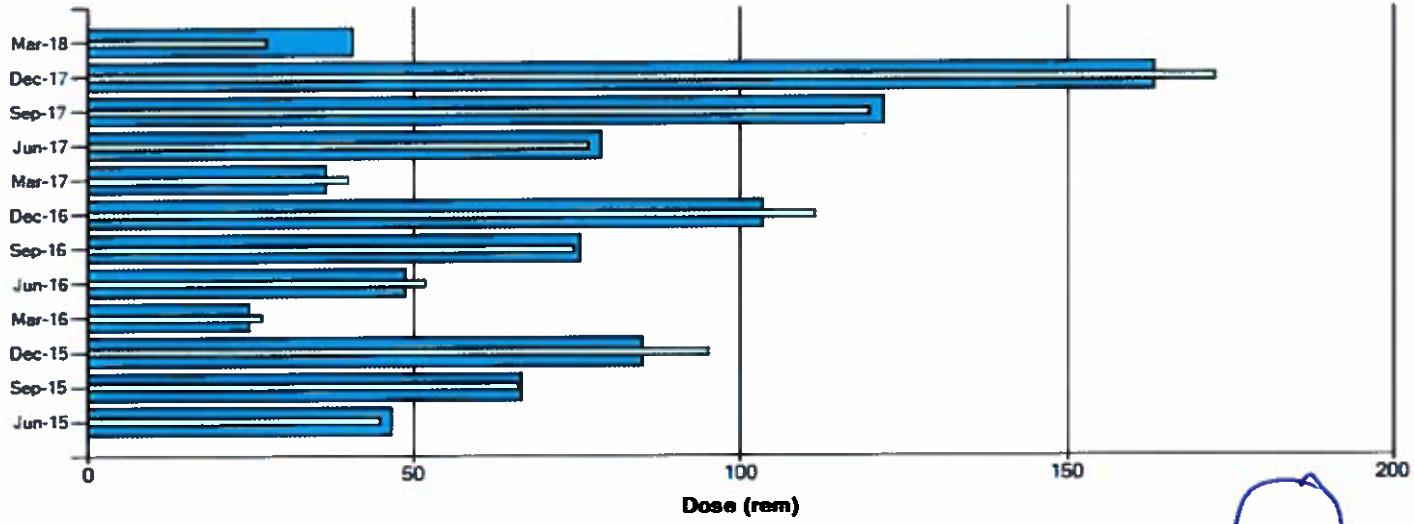
Backup Slide



Savannah River NUCLEAR SOLUTIONS

M&O Dose vs Goal

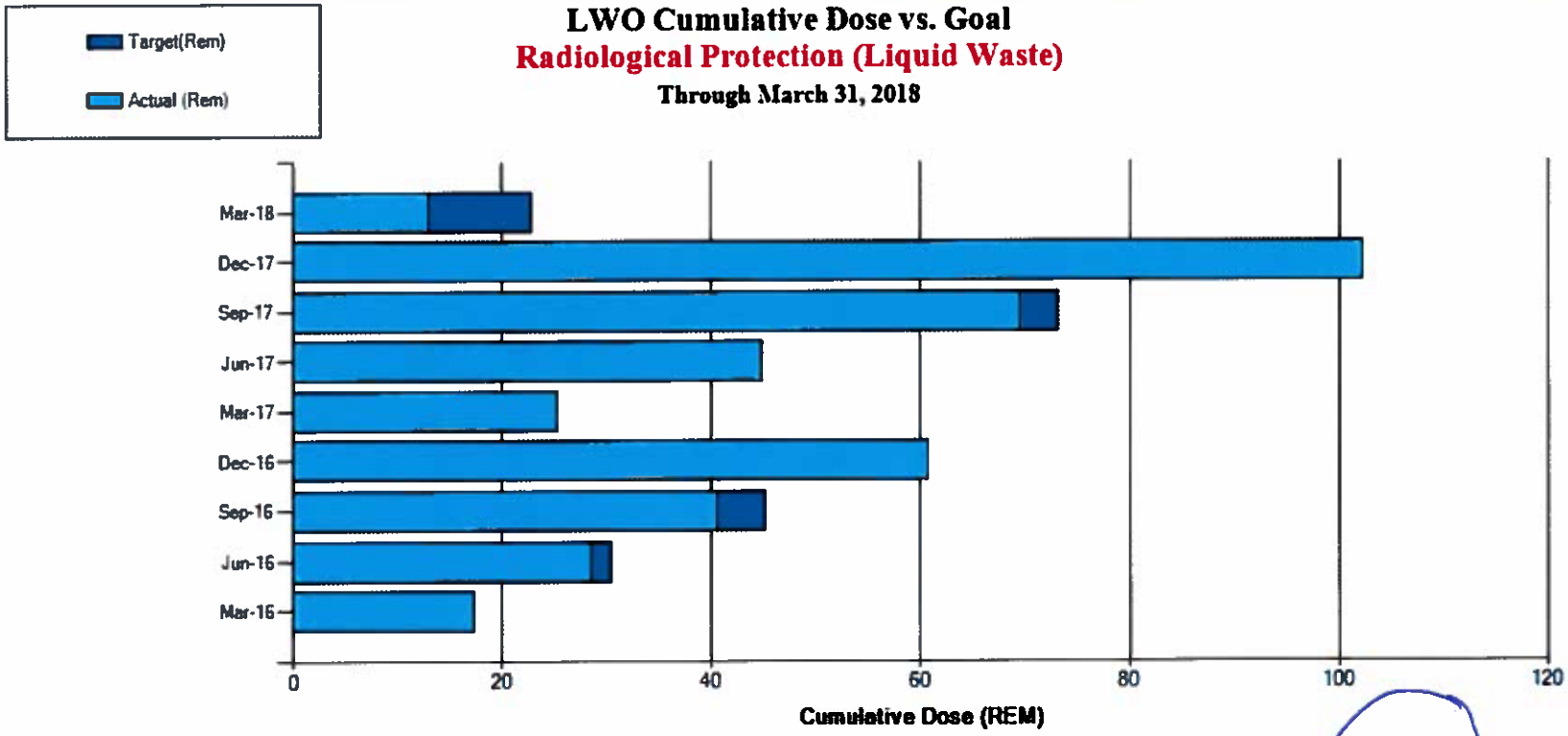
Site Cumulative Dose vs. Goal (YTD)
Radiological Protection Facility Specific
Through March 31, 2018



		Title	Jun-15	Sep-15	Dec-15	Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18
Edit	Annotate	Centerra YTD Target	0.8	1.2	1.6	0.4	0.8	3.2	4	1	2	3	4	1
	Annotate	Centerra YTD Dose	0.646	1.075	2.173	0.506	2.566	2.873	4.206	0.852	2.078	3.527	4.59	1.144
		Centerra Percent	19.25%	10.42%	35.81%	26.5%	220.75%	10.22%	5.15%	14.8%	3.9%	17.57%	14.75%	14.4%
		Score: Centerra Percent	>=15%	>=10%	>=25%	>=25%	>=25%	>=10%	<10%	>=10%	<10%	>=15%	>=10%	>=10%
Edit	Annotate	SRNL YTD Target	2.6	3.8	5	1.4	2.8	4.2	6.4	1.6	7.2	11.6	16.5	5
	Annotate	SRNL YTD Dose	2.941	4.342	6.208	1.513	3.001	5.015	7.776	3.67	7.869	12.924	16.96	3.697
		SRNL Percent	13.12%	14.26%	24.16%	8.07%	7.18%	19.4%	21.5%	129.37%	9.29%	11.41%	2.79%	26.06%
		Score: SRNL Percent	>=10%	>=10%	>=20%	<10%	<10%	>=15%	>=20%	>=25%	<10%	>=10%	<10%	>=25%
Edit	Annotate	EM YTD Target	13.955	21.12	27.96	7.33	14.62	22.88	35.885	13.705	25.39	34.1	48.705	11.9
	Annotate	EM YTD Dose	14.912	21.154	28.051	7.353	17.557	25.92	38.678	10.076	21.857	33.93	48.711	9.658
		EM Percent	6.86%	0.16%	0.33%	0.31%	20.09%	13.29%	7.78%	26.48%	13.91%	0.5%	0.01%	18.84%
		Score: EM Percent	<10%	<10%	<10%	<10%	>=20%	>=10%	<10%	>=25%	>=10%	<10%	<10%	>=15%

Savannah River NUCLEAR SOLUTIONS

LWO Dose vs Goal

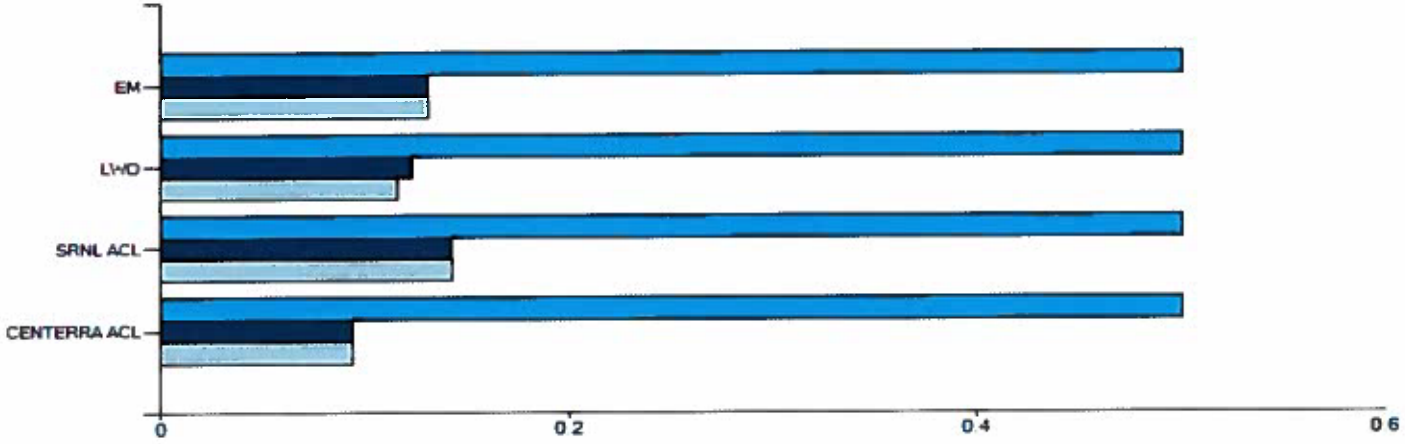


		Title	Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18
Edit	Annotate	Target(Rem)	15.62	30.39	45.09	57.14	20.19	43.975	73.1	94.05	22.73
	Annotate	Actual (Rem)	17.361	28.574	40.603	60.658	25.234	44.859	69.426	102.281	12.98
		Internal Non-Tritium Dose	0	0	0	0	0	0	0	0	0
		Internal Tritium Dose	0	0	0	0	0	0	0	0	0
		Total Dose	17.361	28.574	40.603	60.658	25.234	44.859	69.426	102.281	12.98
		% of Target	11.15%	5.98%	9.95%	6.16%	24.98%	2.01%	5.03%	8.75%	42.89%
		Score	%	%	%	%	%	%	%	%	%

Savannah River NUCLEAR SOLUTIONS

Maximum Individual Dose

Site Maximum Individual Cumulative Dose (YTD)
Radiological Protection Facility Specific
Through March 31, 2018

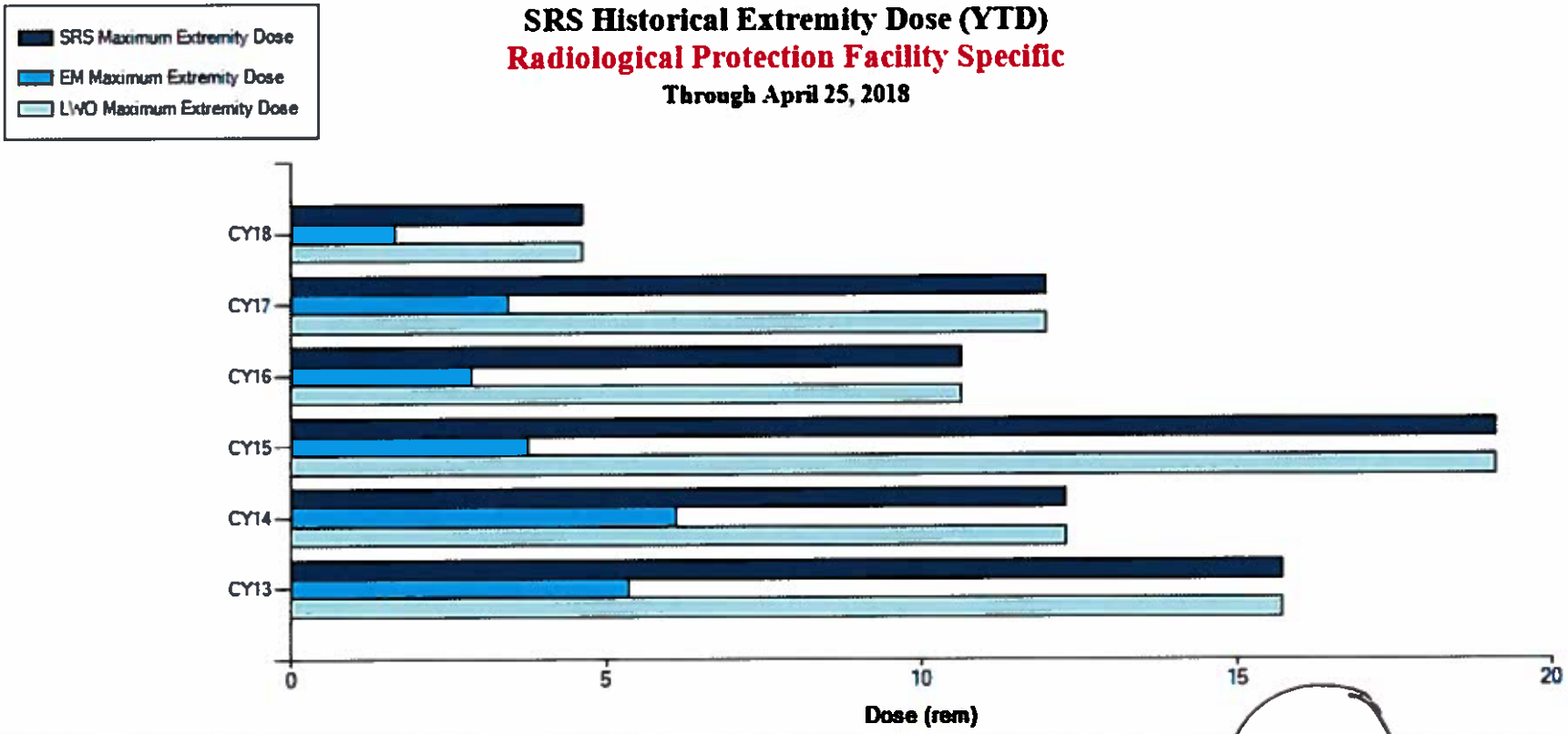


	Title	Mar-18	2017
Annotate	EM ACL	0.5	
Annotate	EM Maximum Dose YTD	0.131	.376
Annotate	EM Maximum Dose QTR	0.131	
Annotate	LWO ACL	0.5	
Annotate	LWO Maximum Dose YTD	0.123	.679
Annotate	LWO Maximum Dose QTR	0.116	
Annotate	SRNL ACL	0.5	
Annotate	SRNL Maximum Dose YTD	0.143	.386
Annotate	SRNL Maximum Dose QTR	0.143	
Annotate	CENTERRA ACL	0.5	
Annotate	CENTERRA Maximum Dose YTD	0.094	.111
Annotate	CENTERRA Maximum Dose QTR	0.094	

LAC
SSS

Savannah River NUCLEAR SOLUTIONS

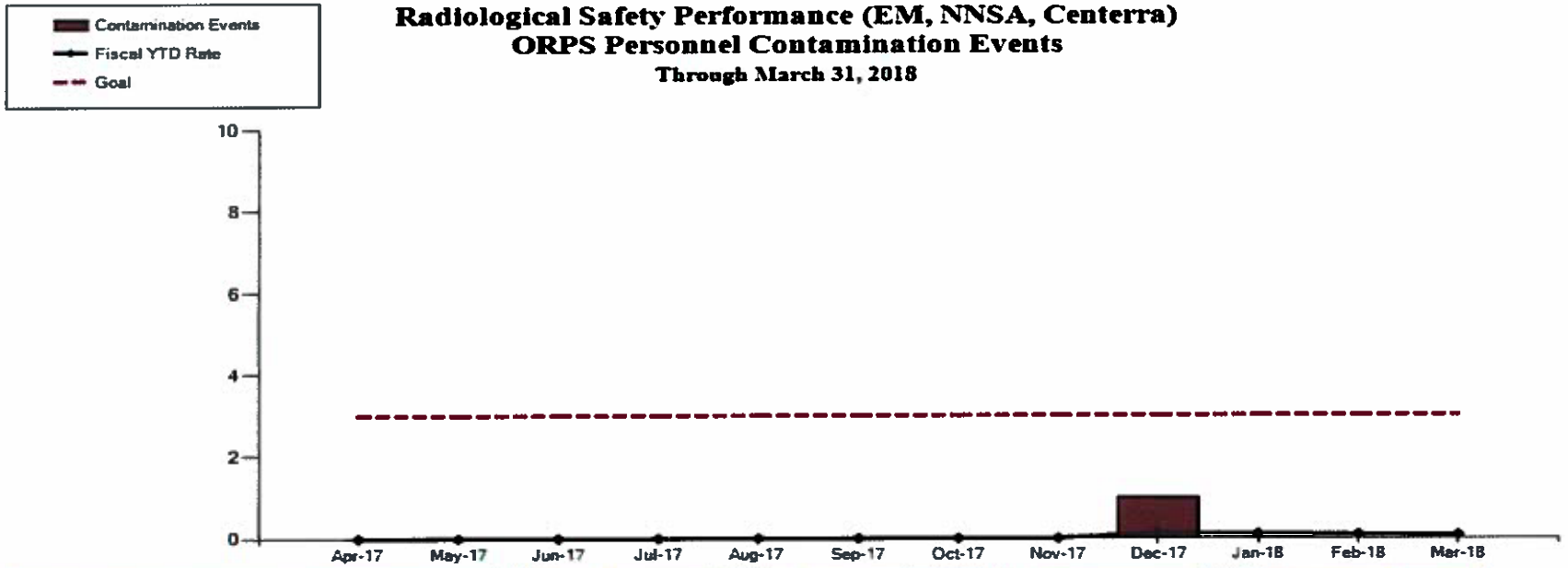
Maximum Extremity



		Title	CY13	CY14	CY15	CY16	CY17	CY18
	Annotate	SRS Maximum Extremity Dose	15.708	12.283	19.095	10.634	11.975	4.619
	Annotate	EM Maximum Extremity Dose	5.348	6.094	3.778	2.866	3.445	1.649
	Annotate	LWO Maximum Extremity Dose	15.708	12.283	19.095	10.634	11.975	4.619

Savannah River NUCLEAR SOLUTIONS

M&O ORPS PerCon



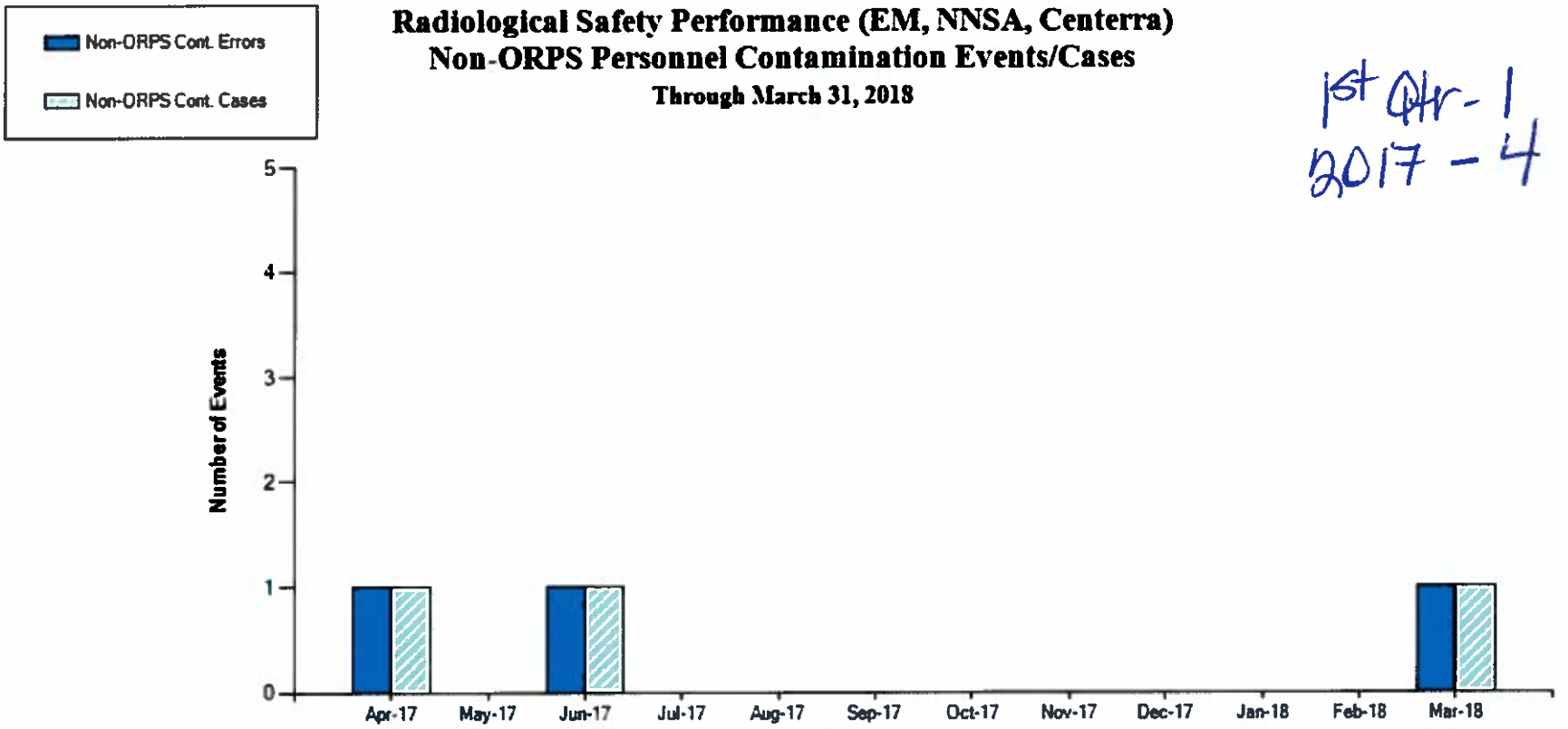
	Title	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
Annotate	Contamination Events	0	0	0	0	0	0	0	0	1	0	0	0
	Contamination Events (FY)	0	0	0	0	0	0	0	0	1	1	1	1
	Site Work Hours	794,368	861,013	1,020,408	814,077	1,079,798	757,627	838,510	864,146	958,870	601,571	1,035,390	878,921
	Rad Worker Hrs. (Month)	482,762	511,865	585,840	488,043	652,487	457,128	478,912	513,728	567,382	356,486	614,521	526,937
	Rad Worker Hrs. (FY)	3,268,072	3,779,937	4,365,777	4,853,820	5,506,307	5,963,435	478,912	992,640	1,560,022	1,916,508	2,531,030	3,057,966
Annotate	Fiscal YTD Rate	0	0	0	0	0	0	0	0	0.13	0.1	0.08	0.07
	Monthly Rate	0	0	0	0	0	0	0	0	0.35	0	0	0
Annotate	Goal	3	3	3	3	3	3	3	3	3	3	3	3
	Score: Fiscal YTD Rate	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5

Savannah River NUCLEAR SOLUTIONS

12/21 - Skin Contamination in 772-1F Lab 123

1st Qtr - 0
2017 - 1

M&O Non ORPS PerCon



1st Qtr - 1
2017 - 4

		Title	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	Annotate	Non-ORPS Cont. Errors	1	0	1	0	0	0	0	0	0	0	0	1
Edit	Annotate	Non-ORPS Cont. Cases	1	0	1	0	0	0	0	0	0	0	0	1

Savannah River NUCLEAR SOLUTIONS

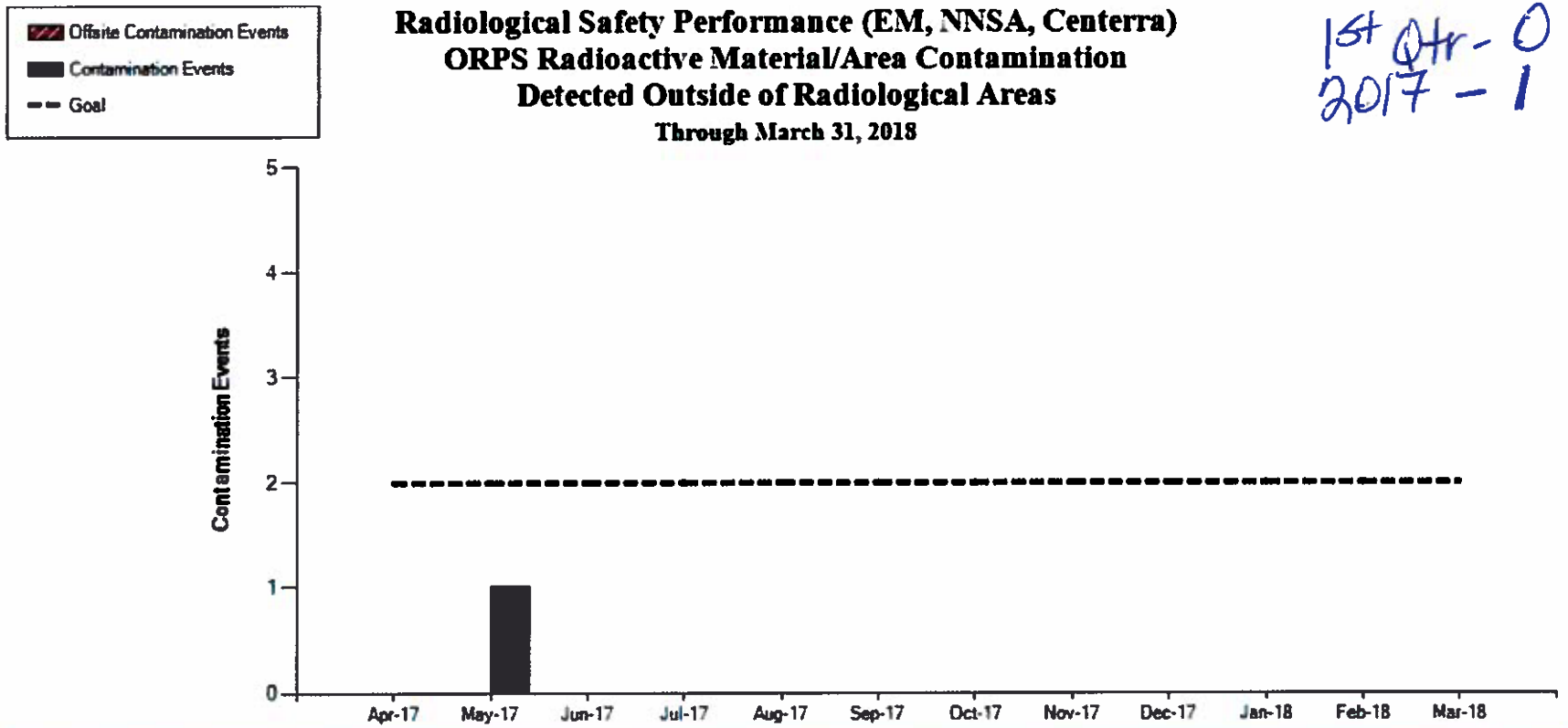
1/31 - Personal effect contamination 772F Lab 158
3/1 - Shoe contamination in 292-F
4/15 - Personal contamination due to Liquid Return Bottle spill 772-1F
10/10 - Personnel contamination during Manipulator Repair Shop Oil Drum Sampling

M&O Non ORPS PerCon

A Lab Tech working in the B-162 Radiological Buffer Area (RBA) alarmed the Argos Personnel Contamination Monitor (PCM). Contamination on the inside of the left wrist at 4000 dpm alpha was confirmed. The skin was decontaminated to non-detectable levels. The Lab Tech was then able to clear the Argos PCM twice. Internal Dosimetry was contacted. The Lab Tech received a Whole Body Count, Lung Count, and submitted two 24-hour timed bioassay samples.

Lesson Learned
Dish Pan In
a Drawer
Legacy Contamination
Min amt time Samples in Room

M&O ORPS Rad Mat/Area



1st Qtr - 0
2017 - 1

		Title	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
Edit	Annotate	Offsite Contamination Events	0	0	0	0	0	0	0	0	0	0	0	0
		Score: Offsite Contamination Events	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0
	Annotate	Contamination Events	0	1	0	0	0	0	0	0	0	0	0	0
		Score: Contamination Events	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1

5/3 - Contamination found on top of TRU waste Drum on Rad 4

Savannah River NUCLEAR SOLUTIONS

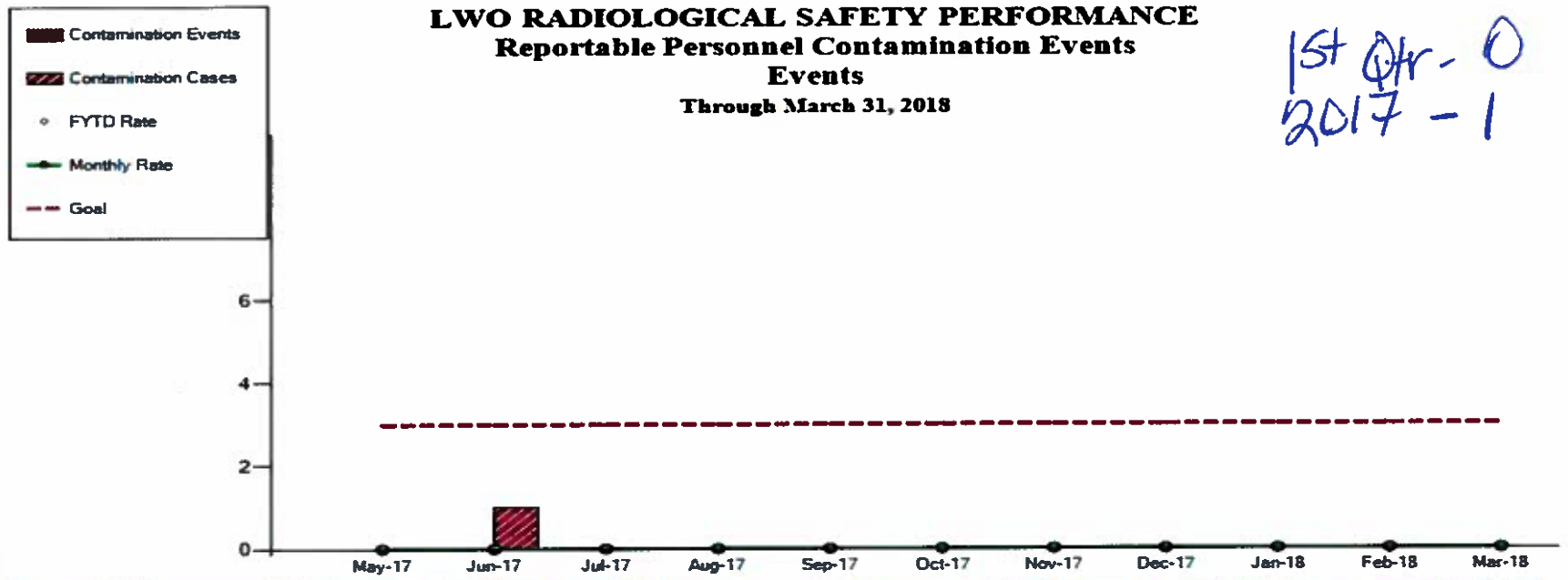
M&O Non ORPS Rad Mat/Area

1st Qtr - 0
2017 - 0

Non-ORPS (EM, NNSA, Centerra)
Radioactive Material/Area Contamination
Radiological Protection
Through March 31, 2018

		Title	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	Annotate	Non-ORPS Material Issues	0	0	0	0	0	0	0	0	0	0	0	0
Edit		Offsite Discovery	0	0	0	0	0	0	0	0	0	0	0	0

LWO ORPS Percon



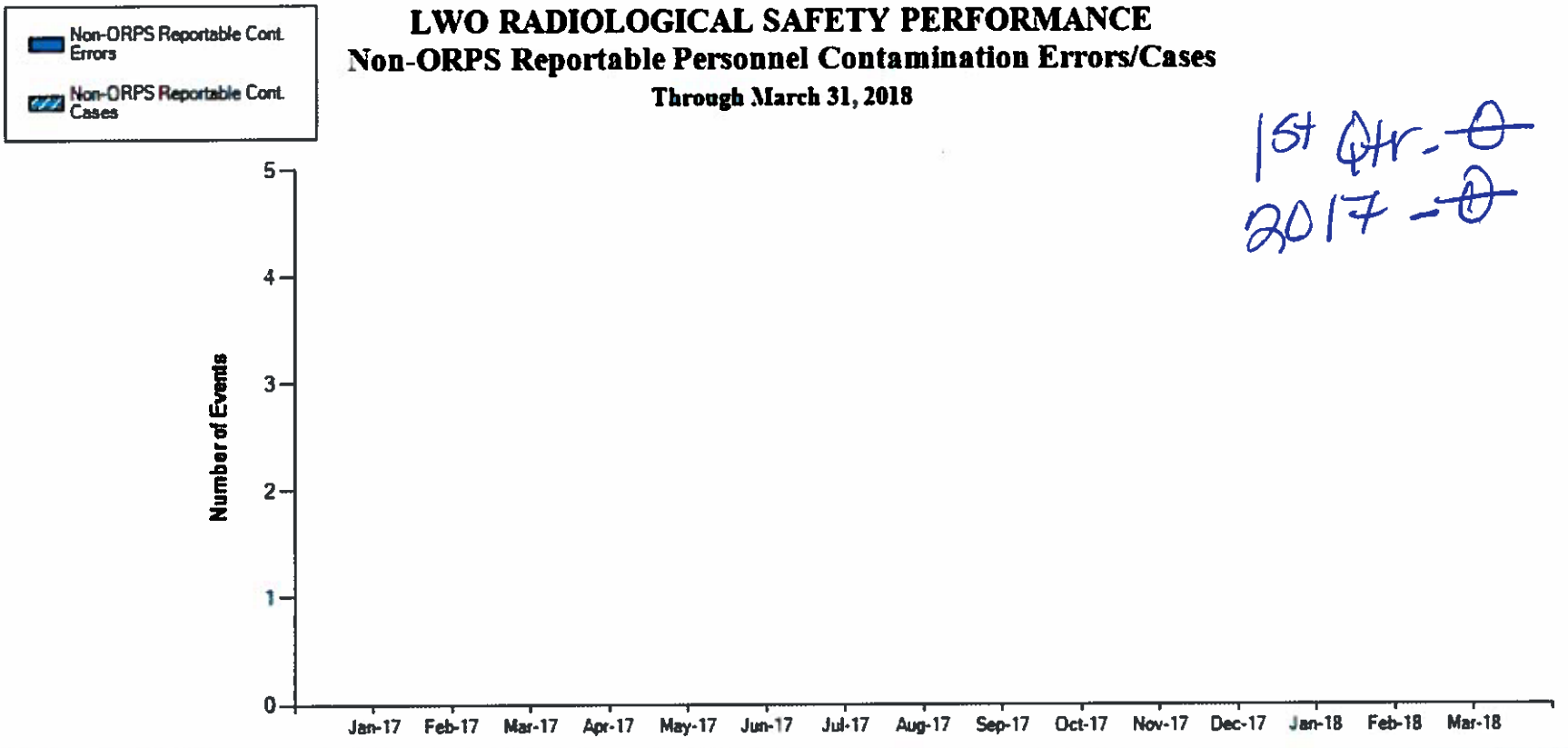
1st Qtr - 0
2017 - 1

		Title	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	Annotate	Contamination Events	0	0	0	0	0	0	0	0	0	0	0
		Contamination Events (FY)	0	0	0	0	0	0	0	0	0	0	0
Edit	Annotate	Contamination Cases	0	1	0	0	0	0	0	0	0	0	0
Edit		LWO Hours (Month)	399,639	384,511	370,376	426,123	401,659	440,684	428,263	402,711	394,692	384,288	400,583
		LWO Rad Worker Hours (Month)	286,392	277,879	259,350	297,838	295,721	314,885	306,706	287,550	279,252	270,208	287,217
		LWO Rad Worker Hours (FY)	2,148,992	2,426,871	2,686,221	2,984,059	3,279,780	314,885	621,591	909,141	1,188,393	1,458,601	1,745,818
		LWO Rad Workers (Month)	1487	1501	1502	1530	1633	1622	1635	1633	1628	1613	1624
Edit		LWO Workers	2075	2131	2145	2189	2218	2270	2283	2287	2301	2294	2265
	Annotate	FYTD Rate	0	0	0	0	0	0	0	0	0	0	0
	Annotate	Monthly Rate	0	0	0	0	0	0	0	0	0	0	0
	Annotate	Goal	3	3	3	3	3	3	3	3	3	3	3
		Score: FYTD Rate	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5	<=1.5

6/6 Personnel contamination during manipulator repair shop on Drum sampling

Savannah River NUCLEAR SOLUTIONS

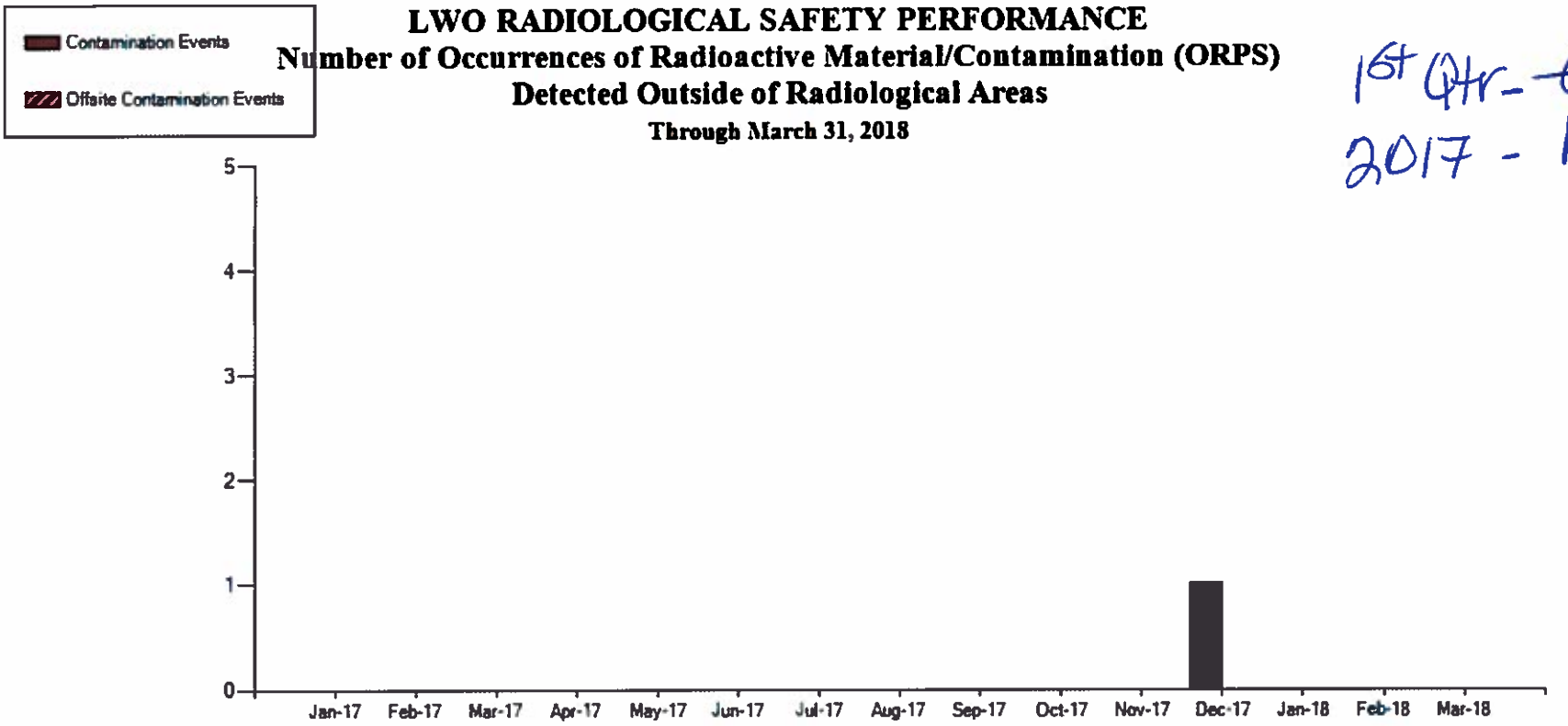
LWO Non ORPS PerCon



		Title	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	Annotate	Non-ORPS Reportable Cont. Errors	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Edit	Annotate	Non-ORPS Reportable Cont. Cases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Savannah River NUCLEAR SOLUTIONS

LWO ORPS Rad Mat/Area



1st Qtr - 0
2017 - 1

		Title	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	Annotate	Contamination Events	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		Score: Contamination Events	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1
Edit	Annotate	Offsite Contamination Events	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Score: Offsite Contamination Events	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0	=0

12/4 - Legacy contamination found on Bldg 241-100H Roof top

Savannah River NUCLEAR SOLUTIONS

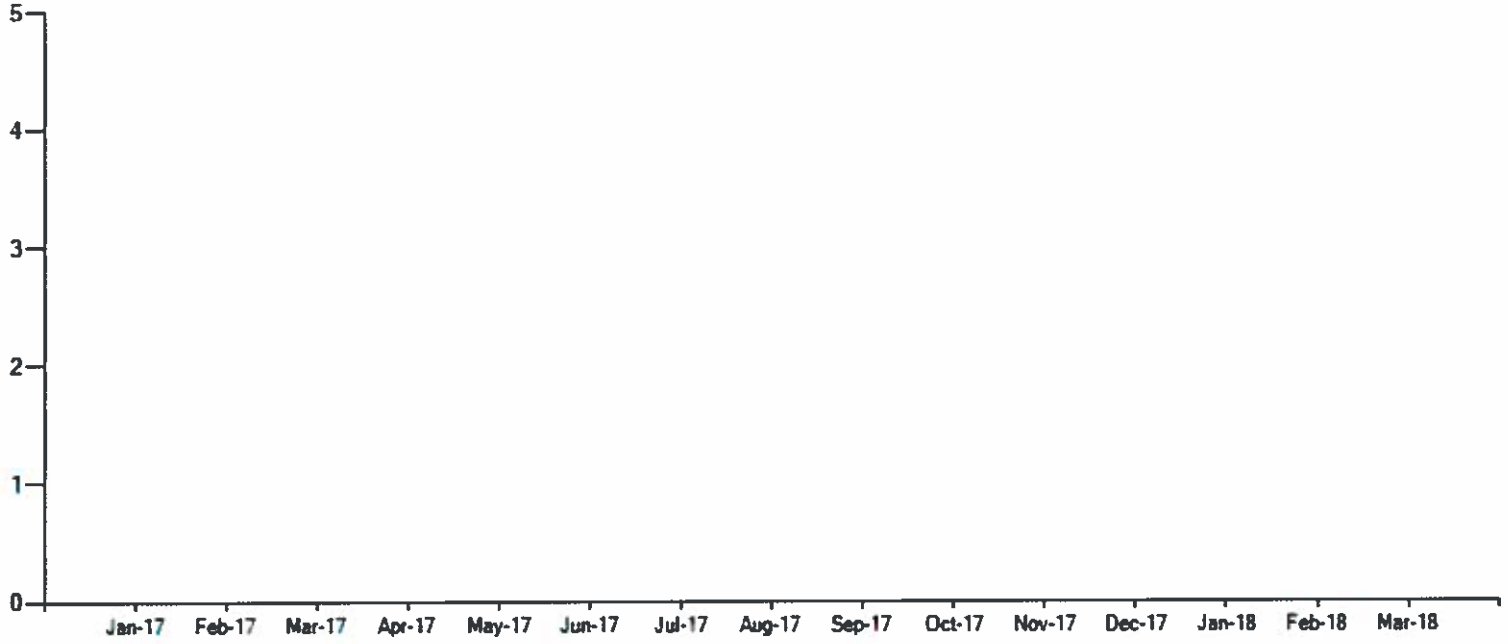
LWO Non ORPS Rad Mat

1st Qtr - 0
2017 - 0

LWO Non-ORPS Radioactive Material/Contamination

LWO

Through March 31, 2018



		Title	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
	Annotate	Non-ORPS Material Issues	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Edit		Offsite Discovery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Savannah River NUCLEAR SOLUTIONS

Intakes – M&O

Internal Uptakes

Through March 31, 2018

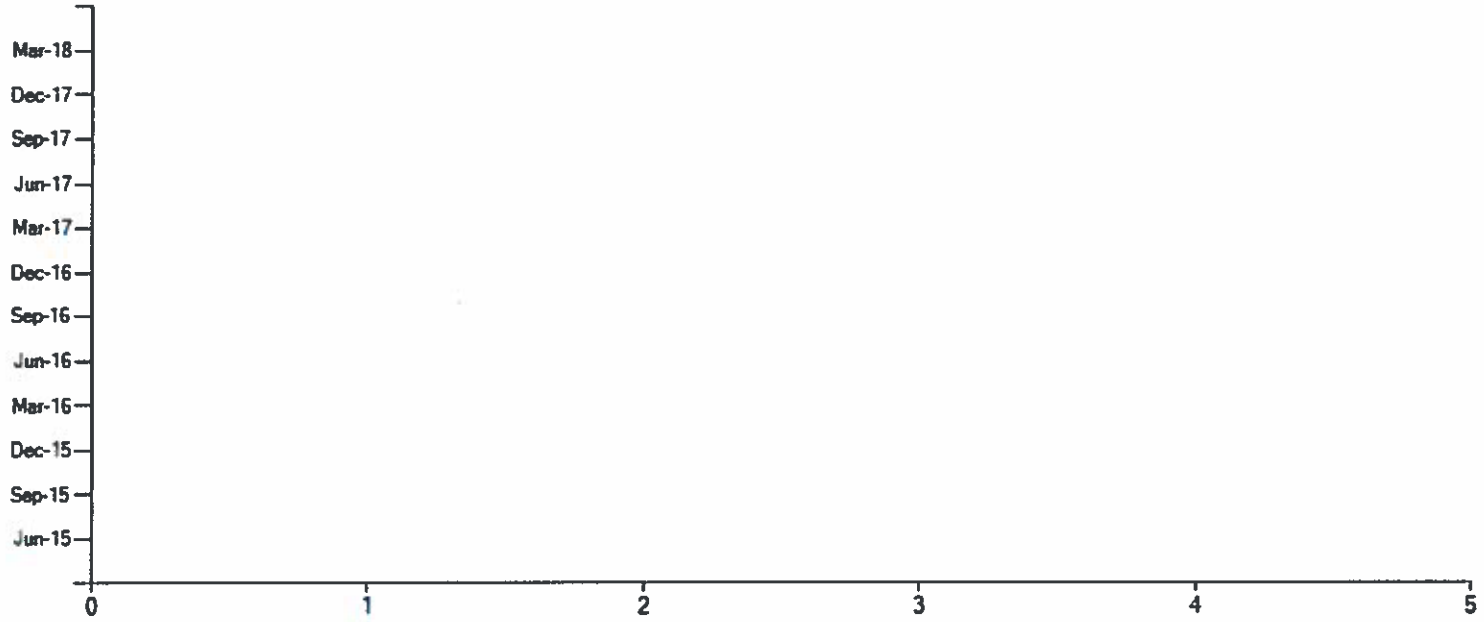
1st Qtr - 0
2017 - 0

		Title	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18
Edit	Annotate	Cases > 10 mrem	0	0	0	0	0	0	0	0	0	0	0	0
Edit	Annotate	Cases > 100 mrem	0	0	0	0	0	0	0	0	0	0	0	0
Edit	Annotate	Cases > 500 mrem	0	0	0	0	0	0	0	0	0	0	0	0
Edit	Annotate	Cases > 5 Rem	0	0	0	0	0	0	0	0	0	0	0	0

Intakes - LWO

1st Qtr - 0
2017 - 0

LWO Internal Exposure
Through March 31, 2018



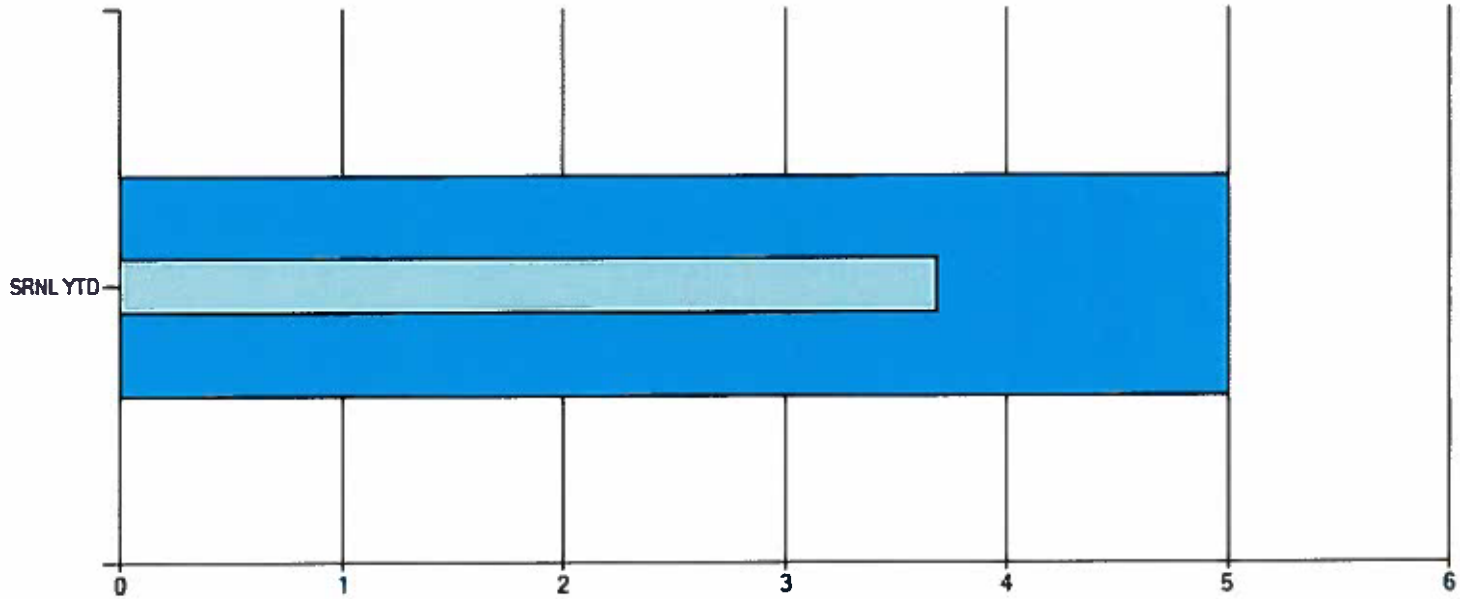
		Title	Jun-15	Sep-15	Dec-15	Mar-16	Jun-16	Sep-16	Dec-16	Mar-17	Jun-17	Sep-17	Dec-17	Mar-18
Edit	Annotate	Cases > 100 mrem	0	0	0	0	0	0	0	0	0	0	0	0
Edit	Annotate	Cases > 500 mrem	0	0	0	0	0	0	0	0	0	0	0	0

+/- 25% Discrepancy - SRNL

YTD SRNL Cumulative Dose vs. Goal by Facility

Radiological Protection

Through March 31, 2018



		Title	Mar-18
Edit	Annotate	SRNL YTD Target	5
	Annotate	SRNL YTD Dose	3.684
		SRNL Percent	26.32%
		Score: SRNL Percent	>=25%

Savannah River NUCLEAR SOLUTIONS

YTD 4.738
< 5%

Randy Sullivans
HP Warehouse
Late Badges

+/- 25% Discrepancy - HBL

HBL Quarterly Target	0.4
HBL Quarterly Dose	0.182
HBL Percent	54.5%
Score: HBL Percent	>=25%

Rick Burns
Mission Transition

+/- 25% Discrepancy – CLAB

Central Lab YTD Target	2.4
Central Lab YTD Dose	1.735
Central Lab Percent	27.71%
Score: Central Lab Percent	>=25%

Terry Rifer
Dissolver Work ↓ HRA Samples
Will ↑ in 2nd

+/- 25% Discrepancy – KAC

K-Area Quarterly Target	3.7
K-Area Quarterly Dose	2.152
K-Area Percent	41.84%
Score: K-Area Percent	>=25%

Janice Page
Stack Battery Did Not
RFTIDS
NO Campaign

+/- 25% Discrepancy – Tritium

Tritium YTD Target	0.575
Tritium YTD Dose	0.753
Tritium Percent	30.96%
Score: Tritium Percent	>=25%

Adam Reese
extractions pulled up

+/- 25% Discrepancy – SWM

Solid Waste YTD Target	0.9
Solid Waste YTD Dose	0.533
SWM Percent	40.78%
Score: SWM Percent	>=25%

Todd
1st Qtr Work
Overpack HRA cont
CST WRK Pd 4+6

+/- 25% Discrepancy – LWO

WT (Target)	9.22
WT (Actual)	4.201
WT Percent	54.44%
Score: WT Percent	>=25%
TF (Target)	13.51
TF (Actual)	8.789
TF Percent	34.94%
Score: TF Percent	>=25%
Internal Non- Tritium Dose	0
Internal Tritium Dose	0
Total Target	22.73
Total Dose	12.99
LWO Percent	42.85%
Score: LWO Percent	>=25%

Savannah River NUCLEAR SOLUTIONS

DWPF
Ventilation outage
No CDMC repairs

Jim Wilson
Process System down since Jan.
No adjustments
Will adjust as necessary