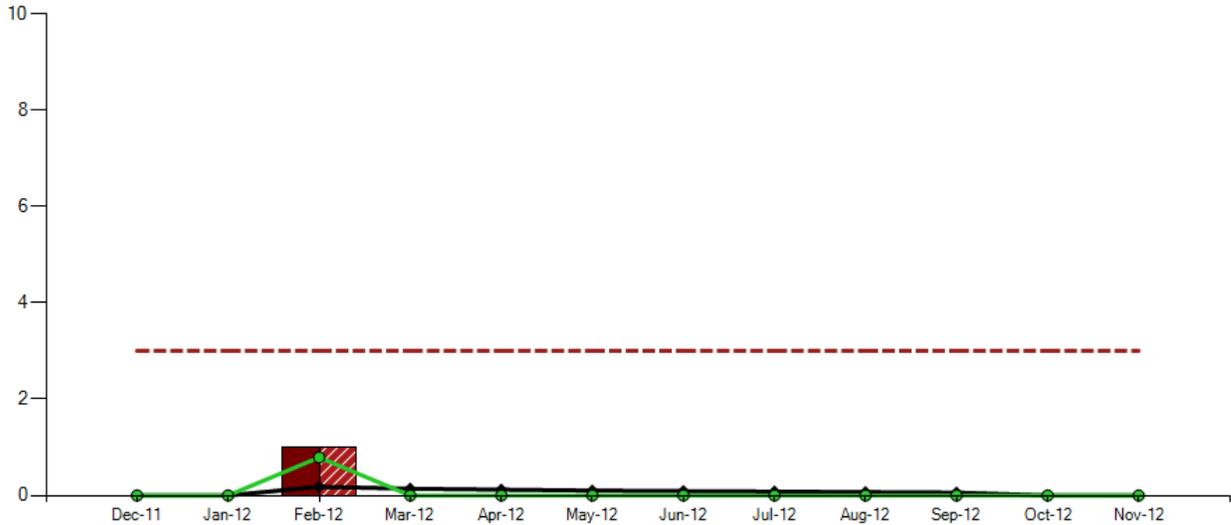


LWO RADIOLOGICAL SAFETY PERFORMANCE Reportable Personnel Contamination Events

Through November 30, 2012



Title	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12
Contamination Events	0	0	1	0	0	0	0	0	0	0	0	0
Contamination Events (FY)	0	0	1	1	1	1	1	1	1	1	0	0
Contamination Cases	0	0	1	0	0	0	0	0	0	0	0	0
LWO Hours (Month)	380,299	402,301	409,764	454,853	418,990	456,920	424,447	401,223	444,142	396,022	420,947	380,356
LWO Rad Worker Hours (Month)	216,632	239,424	253,680	294,645	280,626	313,509	299,269	279,771	307,468	273,125	291,411	285,393
LWO Rad Worker Hours (FY)	648,892	888,316	1,141,996	1,436,641	1,717,267	2,030,776	2,330,044	2,609,815	2,917,283	3,190,408	291,411	576,804
LWO Rad Workers (Month)	1362	1395	1453	1532	1584	1633	1652	1624	1586	1589	1595	1698
LWO Workers	2391	2344	2347	2365	2365	2380	2343	2329	2291	2304	2304	2263
Fiscal YTD Rate	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Rate	0	0	0.79	0	0	0	0	0	0	0	0	0
Goal	3	3	3	3	3	3	3	3	3	3	3	3
Score: FYTD Rate												

Action: SRR continues to closely monitor contamination events, even those minor errors that are below the ORPS reporting thresholds. The minor errors are used as a leading indicator that may signal adverse trends that could lead to an increase in the number of reportable events. For each event, corrective actions are taken and documented in STAR and a review is performed for any commonalities that may exist.

Metric Details	
Metric Title	ORPS PerCon Events
Metric Owner/Alternate Owner	Jim Wilson 8-3354
Metric SME/POC	Carol Hunter 8-0231/Ellen Parrish 2-5825
Metric DOE PI Owner	Chuck Radford 2-8595
Metric Functional Group	RPD, DOE, ESH

Metric Description	Measures ORPS reportable PerCon events 6D(3) & binned as FA 11.10.95
Metric Definition	The Government FYTD rate is obtained by multiplying the number of events by 200,000 hrs & dividing by the number of applicable RWP hrs.
Metric Value	Goal is measured in FYTD Rate
Metric Reporting Frequency	Monthly
Metric Requirements Drivers	5Q, SCD-6, 5Q1.1-505, 1-01 4.4, DOE G 441.1-1C
Data Source(s):	STAR (events) & Hummingbird Database (RWP hrs)
Grade Criteria	Based on ORPS contamination events & RWP hours.
BLUE	≤ 1.5
VIOLET	$> 1.5 - < 2.5$
GREEN	$\geq 2.5 - \leq 5.0$
YELLOW	$> 5.0 - \leq 7.5$
RED	> 7.5
Data Entry/Verification/Validation	Automatic pulls from STAR & Hummingbird Database
Data Inquiry	Please report any Scorecard technical issue to Raine Weimortz or Steve Rich or radiological related questions to Ellen Parrish

Analysis

Analysis: Excellent **Color:** Blue

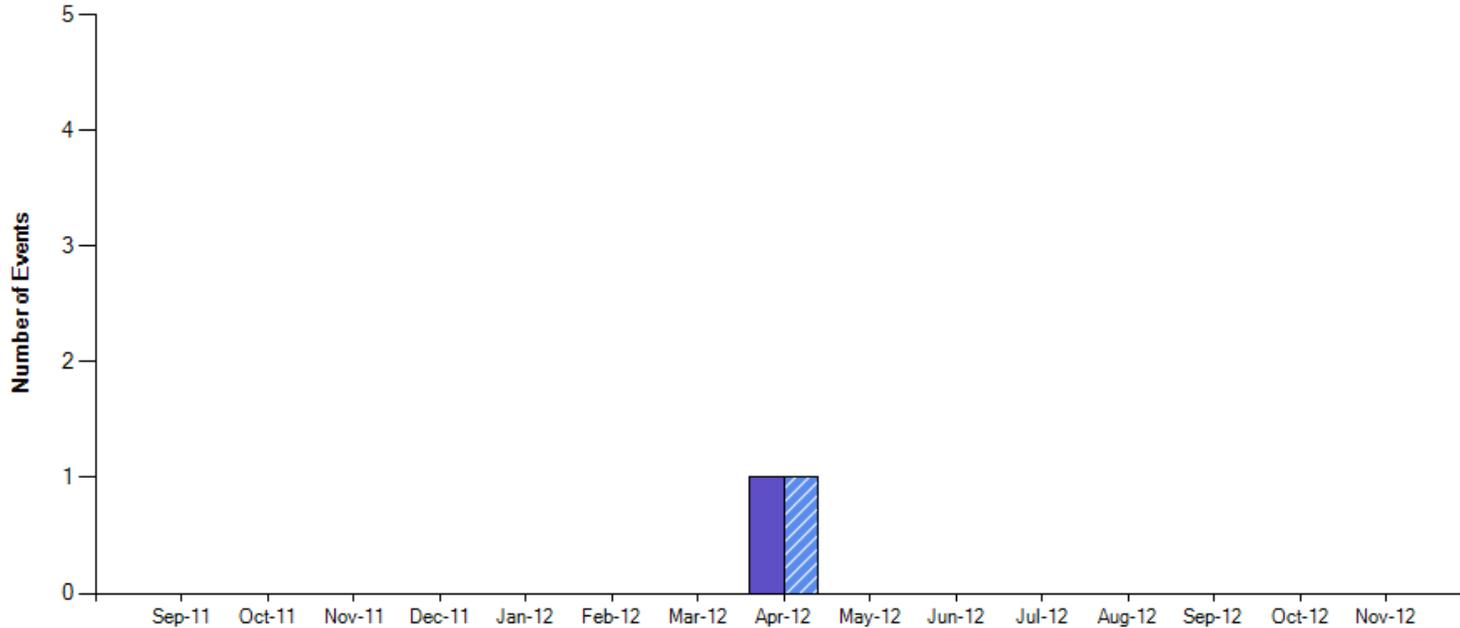
ORPS Event: None

Action

SRR continues to use engineering controls to contain contamination at the source and perform fact finding meetings of spread of contamination or radioactive material.

Metric Details	
Metric Title	Number of Rad Material ORPS Events
Metric Owner/Alternate Owner:	Jim Wilson 8-3354
Metric SME/POC	Carol Hunter 8-0231/Ellen Parrish 2-5825
Metric DOE PI Owner	Chuck Radford 2-8595
Metric Functional Group	RPD, DOE, ESH
Metric Description	Measures ORPS reportable Rad Material events 6B(1-4) & binned as FA 11.10.91 or 11.10.93
Metric Definition	This metric is a lagging indicator for occurrences of radioactive material or spread of contamination found outside of radiological areas.
Metric Value	Measure is in number of events
Metric Reporting Frequency	Monthly
Metric Requirements Drivers	5Q, SCD-6, 5Q1.1-505, 1-01 4.4, DOE G 441.1-1C
Data Source(s)	STAR
Grade Criteria	Based on Offsite Contamination Events
BLUE	< 1 per month Onsite, = 0 per month Offsite
VIOLET	= 1 per month
GREEN	= 2 per month
YELLOW	= 3 per month
RED	> 3 per month or 1 offsite event
Data Entry/Verification/Validation	Automatic pull from STAR & offsite event data entry by Site ALARA Coordinator
Data Inquiry	Please report any Scorecard technical issue to Raine Weimortz or Steve Rich or radiological related questions to Ellen Parrish

LWO RADIOLOGICAL SAFETY PERFORMANCE
Non-ORPS Reportable Personnel Contamination Errors/Cases
 Through November 30, 2012



Title	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12
Non-ORPS Reportable Cont. Errors	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Non-ORPS Reportable Cont. Cases	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

Definition

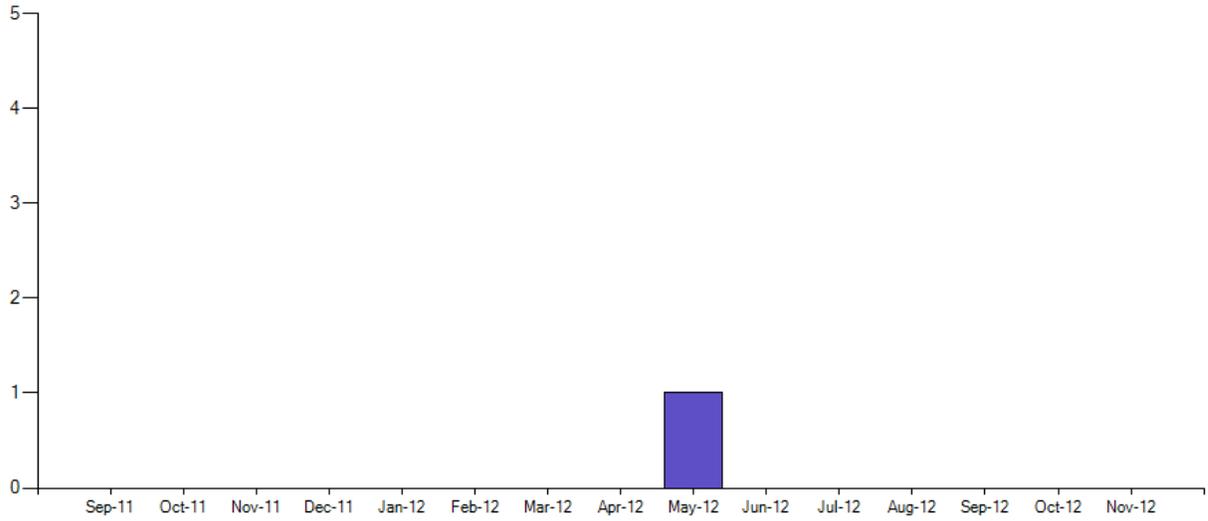
This chart reflects non-ORPS reportable personnel contamination errors/cases per month >500 dpm alpha or >5000 dpm beta-gamma. The non-ORPS errors represent the number of events per month and the non-ORPS cases represent the number of personnel involved in the event. Oct 2010 begins the new Fiscal Year

Action: SRR continues to closely monitor contamination events, even those minor errors that are below the ORPS reporting thresholds. The minor errors are used as a leading indicator that may signal adverse trends that could lead to an increase in the number of reportable events. For each event, corrective actions are taken and documented in STAR and a review is performed for any commonalities that may exist.

Metric Details

Metric Title	Non-ORPS PerCon Events/Cases
Metric Owner/Alternate Owner	Jim Wilson 8-3354
Metric SME/POC	Carol Hunter 8-0231/Ellen Parrish 2-5825
Metric DOE PI Owner	Chuck Radford 2-8595
Metric Functional Group	RPD, DOE, ESH
Metric Description	Non-ORPS PerCon errors 6D(4) & binned as FA 11.10.94 and the number of workers who were contaminated
Metric Definition	Non-ORPS PerCon errors are leading indicators for ORPS events.
Metric Reporting Frequency	Monthly
Metric Requirements Drivers	5Q, SCD-6, 5Q1.1-505, 1-01 4.4
Data Source(s):	STAR (events)
Data Entry/Verification/Validation	Automatic pull from STAR, PerCon cases entered by Site ALARA Coordinator
Data Inquiry	Please report any Scorecard technical issue to Raine Weimortz or Steve Rich or radiological related questions to Ellen Parrish

**LWO Non-ORPS Radioactive
Material/Contamination
LWO
Through November 30, 2012**



Title	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12
Non-ORPS Material Issues	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Offsite Discovery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

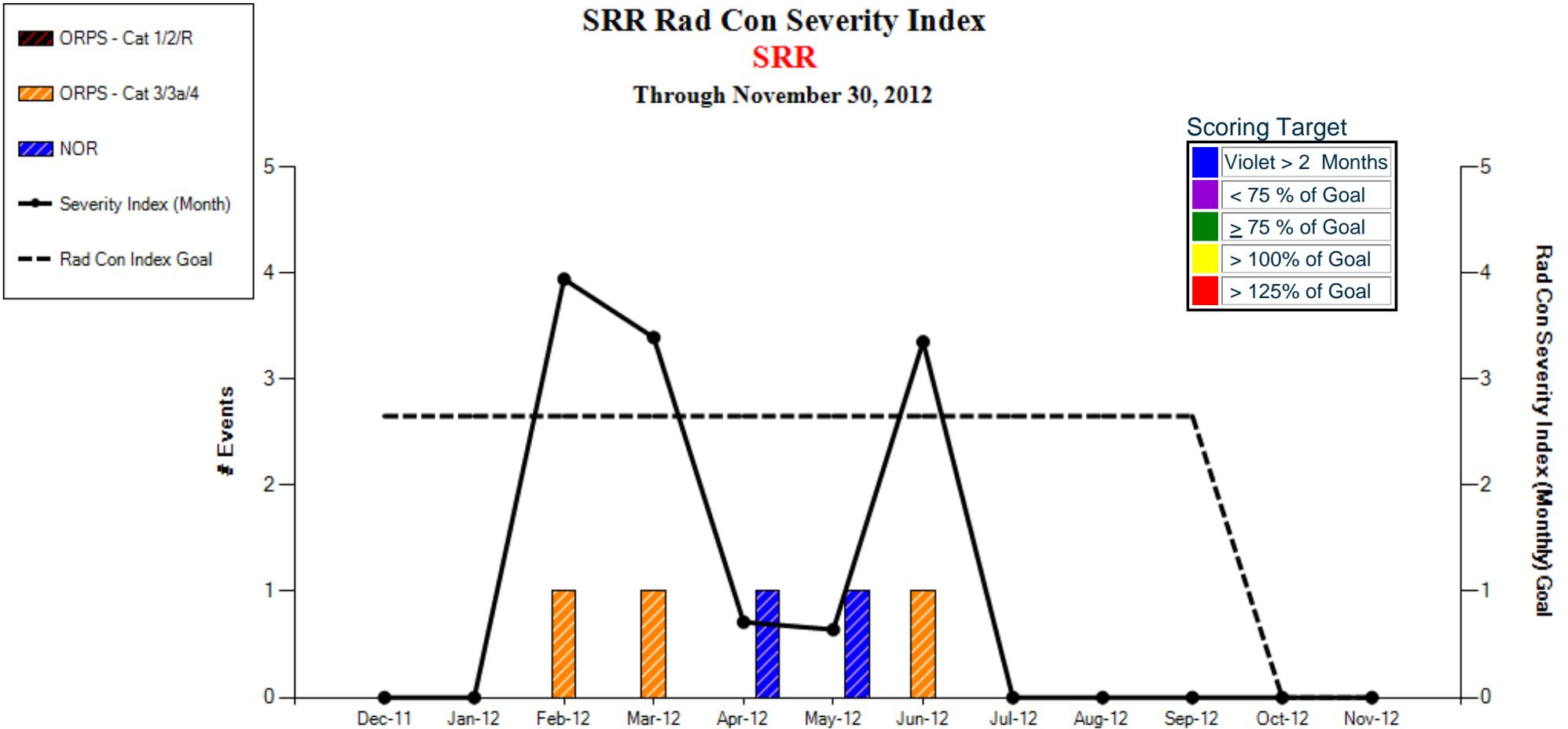
Action: SRR continues to use engineering controls to contain contamination at the source and perform fact finding meetings of spread of contamination or radioactive material.

Metric Details	
Metric Title	Non-ORPS Rad Material
Metric Owner/Alternate Owner	Jim Wilson 8-3354
Metric SME/POC	Carol Hunter 8-0231/Ellen Parrish 2-5825
Metric DOE PI Owner	Chuck Radford 2-8595
Metric Functional Group	RPD, DOE, ESH
Metric Description	Tracks Non-ORPS reportable Rad Material errors 6B(5) & binned as FA 11.10.92. Off-Site events will be covered under 6B1 criteria.
Metric Definition	Radioactive material or spread of contamination found outside of radiological areas (includes RBAs not contiguous with a Contamination Area, Clean Areas, and Controlled Areas). Area Non-ORPS errors are leading indicators for Area ORPS events.
Metric Reporting Frequency	Monthly
Metric Requirements Drivers	5Q, SCD-6, 5Q1.1-505, 1-01 4.4
Data Source(s)	STAR
Data Entry/Verification/Validation	Automatic pull from STAR & offsite event data entry by Site ALARA Coordinator
Data Inquiry	Please report any Scorecard technical issue to Raine Weimortz or Steve Rich or radiological related questions to Ellen Parrish

SRR Rad Con Severity Index

SRR

Through November 30, 2012



Title	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12
LWO Hours (Month)	380,299	402,171	409,764	454,853	418,990	456,920	424,447	401,233	444,142	396,022	420,947	380,356
LWO Rad Worker Hours (Month)	216,632	239,347	253,680	294,645	280,626	313,509	298,544	279,778	307,468	273,125	291,228	285,393

Rad Work Hours (FY)	648,892	888,239	1,141,919	1,436,564	1,717,190	2,030,698	2,329,242	2,609,020	2,916,488	3,189,612	291,228	576,621
LWO Rad Workers (Month)	1362	1395	1453	1532	1584	1633	1648	1624	1586	1589	1594	1698
LWO Workers (Month)	2391	2344	2347	2365	2365	2380	2343	2329	2291	2304	2304	2263
ORPS - Cat 1/2/R	0	0	0	0	0	0	0	0	0	0	0	0
ORPS - Cat 3/3a/4	0	0	1	1	0	0	1	0	0	0	0	0
NOR	0	0	0	0	1	1	0	0	0	0	0	0
Rad Con Points	0	0	5	5	1	1	5	0	0	0	0	0
FY Rad Con Points CUM	0	0	5	10	11	12	17	17	17	17	0	0
Rad Con Severity Index (FY)	0	0	0.88	1.39	1.28	1.18	1.46	1.3	1.17	1.07	0	0
Severity Index (Month)	0	0	3.94	3.39	0.71	0.64	3.35	0	0	0	0	0
Rad Con Index Goal	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	2.65	0	0
% of Goal (Month)	0%	0%	149%	128%	27%	24%	126%	0%	0%	0%	0%	0%
Score (Month)												

Definition

Radiological Contamination events are those that impact personnel or equipment. Each of these required reporting, tracking, evaluation and resolution due to the serious nature of such contamination. Rad Con events are scored based on assigned severity weighting:

STAR CAT 1,2,R = 10 pts

STAR CAT 3 /4 = 5 pts

Non ORPS = 1 pt

ORPS and Non-ORPS data for this metric is pulled from the STAR database. The database manager is Chip Patterson, in case of data integrity concerns.

This metric measures the monthly Rad Con Severity Index. The monthly Index is calculated by multiplying the monthly Rad Con Points by 200,000 hours and then dividing by the total monthly hours. The FY Index is determined by multiplying the number of Rad Con points by 200,000 hours and then dividing it by the total FY hours.

SRR calculated the baseline on the 2008 SITE ORPS & Non-ORPS events for PerCons, Area Contamination events, and dose related events. The monthly hours for FY10 and FY11 were set based on the number of hours workers signed in on RWPs that tracked time. The FY12 monthly hours will be calculated each month from established queries using various databases or edited info inputted to determine the number of radiological worker hours.

The Rad Con severity index goal established for FY12 is 2.648.