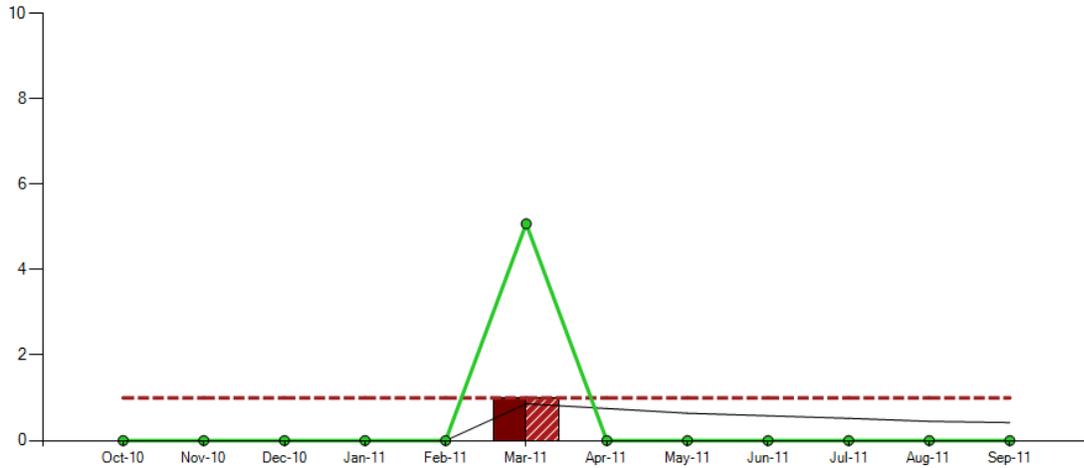
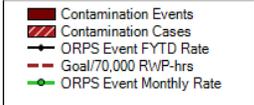


**LWO RADIOLOGICAL SAFETY PERFORMANCE**  
**Reportable Personnel Contamination**  
**Events/70,000 RWP-Hrs**  
**Through September 30, 2011**



Title	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
Contamination Events	0	0	0	0	0	1	0	0	0	0	0	0
ORPS Cont. Events (FY)	0	0	0	0	0	1	1	1	1	1	1	1
RWP Hrs. (Month)	16028	12765	12115	12073	14436	13815	11993	15306	11592	13763	20125	11998
Goal/70,000 RWP-hrs	1	1	1	1	1	1	1	1	1	1	1	1
Contamination Cases	0	0	0	0	0	1	0	0	0	0	0	0
RWP Hrs. (FY)	16028	28793	40908	52981	67417	81232	93225	108531	120123	133886	154011	166009
ORPS Event Monthly Rate	0	0	0	0	0	5.07	0	0	0	0	0	0
ORPS Event FYTD Rate	0	0	0	0	0	0.86	0.75	0.64	0.58	0.52	0.45	0.42
Score: FYTD Rate												

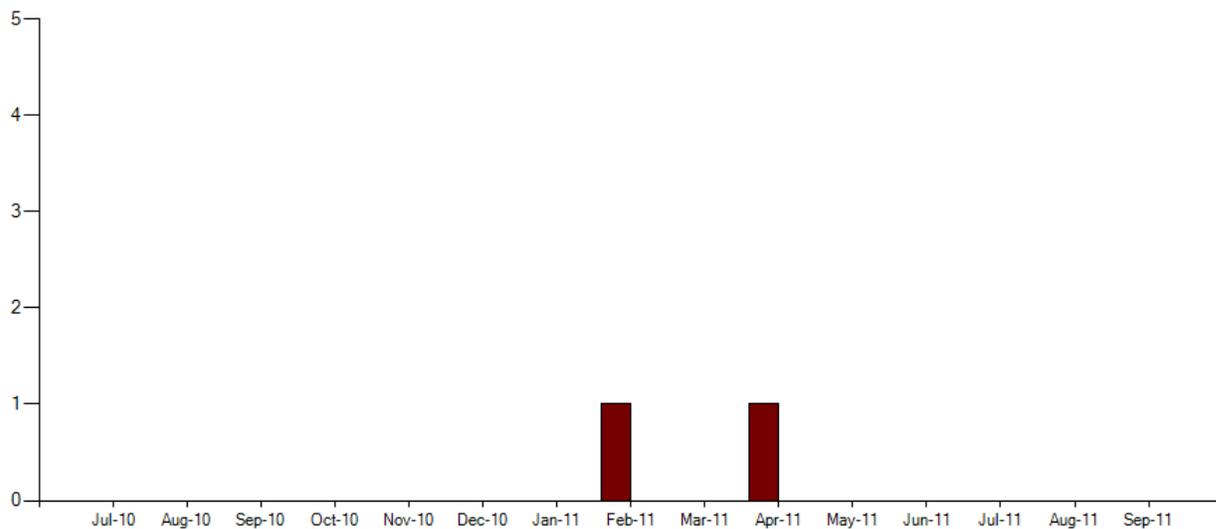
**Analysis**

**Analysis:** Excellent **COLOR:** Blue

**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	Ellen Parrish 8-1027
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.
<b>BLUE</b>	< 1.0
<b>VIOLET</b>	> 1.0 - < 3.0
<b>GREEN</b>	≥ 3.0 - ≤ 5.0
<b>YELLOW</b>	> 5.0 - ≤ 7.0
<b>RED</b>	> 7.0
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

**LWO RADIOLOGICAL SAFETY PERFORMANCE**  
**Number of Occurrences of Radioactive Material/Contamination**  
**Detected Outside of Radiological Areas**  
**Through September 30, 2011**



Title	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
Contamination Events	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
Score: Contamination Events	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1	<=1
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

**Analysis**

**Analysis:** Excellent **Color:** Blue

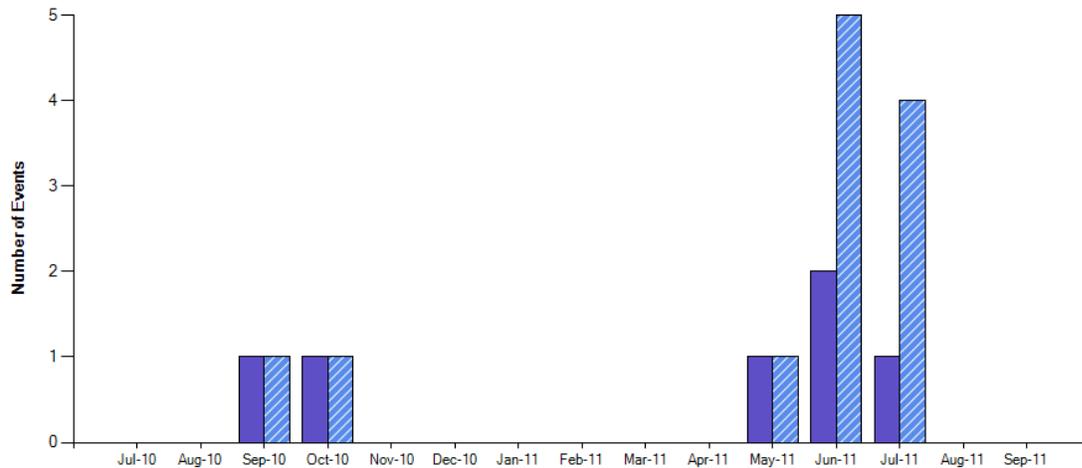
**ORPS Event:** None

**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.

<b>Metric Details</b>	
Metric Title	Number of Rad Material ORPS Events
Metric Owner/Alternate Owner:	Jim Wilson 8-3354
Metric SME/POC	Ellen Parrish 8-1027
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
<b>BLUE</b>	< 1 per month Onsite, = 0 per month Offsite
<b>VIOLET</b>	= 1 per month
<b>GREEN</b>	= 2 per month
<b>YELLOW</b>	= 3 per month
<b>RED</b>	> 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 September 30, 2011**



Title	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
Non-ORPS Reportable Cont. Errors	0	0	1	1	0	0	0	0	0	0	1	2	1	0	0
Non-ORPS Reportable Cont. Cases	0	0	1	1	0	0	0	0	0	0	1	6	4	0	0

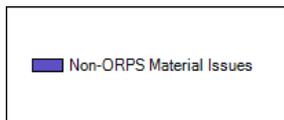
**Definition**

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	Ellen Parrish 8-1027
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 Value	N/A
Metric Reporting Frequency	Monthly
Metric Requirements Drivers	5Q, SCD-6, 5Q1.1-505, 1-01 4.4
Data Source(s):	STAR (events)
Grade Criteria	N/A
BLUE	N/A
VIOLET	N/A
GREEN	N/A
YELLOW	N/A
RED	N/A
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 September 30, 2011

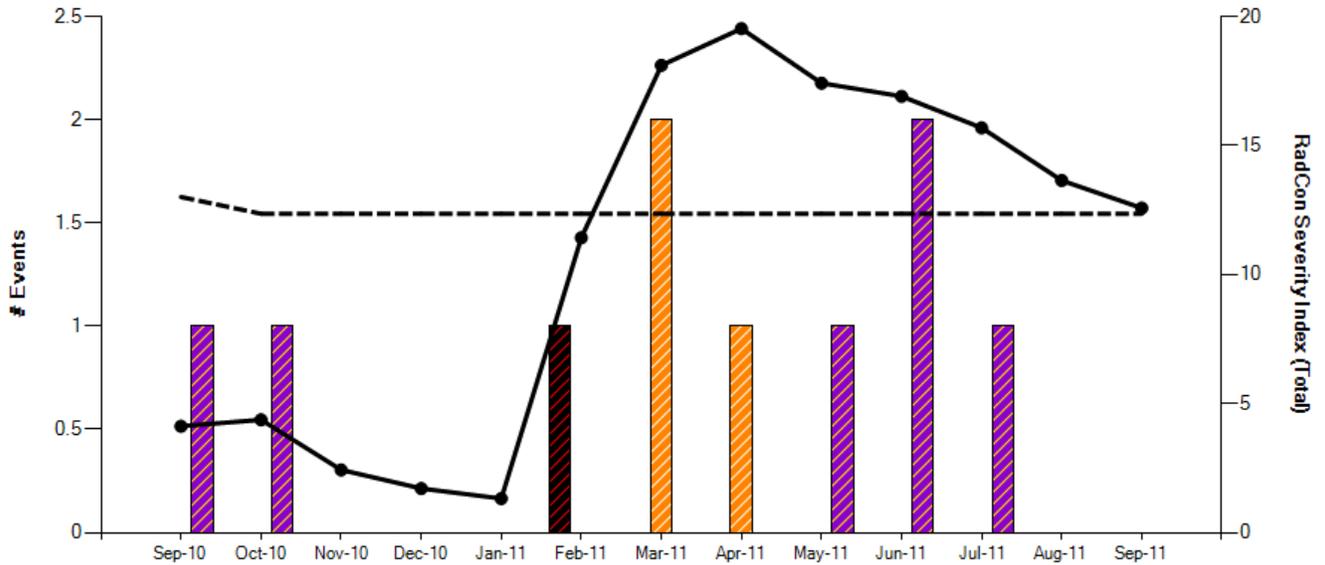
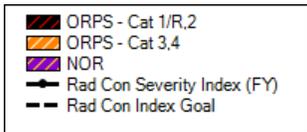


Title	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
Non-ORPS Material Issues	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite Discovery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**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	Ellen Parrish 8-1027
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 Value	N/A
Metric Reporting Frequency	Monthly
Metric Requirements Drivers	5Q, SCD-6, 5Q1.1-505, 1-01 4.4
Data Source(s)	STAR
Grade Criteria	None
BLUE	N/A
VIOLET	N/A
GREEN	N/A
YELLOW	N/A
RED	N/A
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 <a href="#">Raine Weimortz</a> or <a href="#">Steve Rich</a> or radiological related questions to <a href="#">Ellen Parrish</a>

## Rad Con Severity Index (LWO) Radiological Protection (Liquid Waste) Through September 30, 2011



Title	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11
LWO RWP Hours	13826	16028	12765	12115	12073	14436	13815	11993	15306	11592	13763	20125	13005
LWO Cumm. Hours (FY)	152765	16028	28793	40908	52981	67417	81232	93225	108531	120123	133886	154011	167016
ORPS - Cat 1/R,2	0	0	0	0	0	1	0	0	0	0	0	0	0
ORPS - Cat 3,4	0	0	0	0	0	0	2	1	0	0	0	0	0
NOR	1	1	0	0	0	0	0	0	1	2	1	0	0
Rad Con Points	1	1	0	0	0	10	10	5	1	2	1	0	0
Rad Con Severity Index FY	9	1	1	1	1	11	21	26	27	29	30	30	30
Rad Con Severity Index (FY)	4.12	4.37	2.43	1.71	1.32	11.42	18.1	19.52	17.41	16.9	15.68	13.64	12.57
% Of Goal (FY)	32%	35%	20%	14%	11%	92%	147%	158%	141%	137%	127%	110%	102%
Score (FY)													
Rad Con Severity Index (Month)	5.06	4.37	0	0	0	48.49	50.67	29.18	4.57	12.08	5.09	0	0

Metric Details	
Metric Title	Rad Con Severity Index
Metric Owner/Alternate Owner	Dave Olson
Metric SME/POC	Jim Wilson
Metric Functional Group	Rad Con - Lagging Indicator
Metric Goal	FY11 Rad Con Severity Index Goal = 12.35
Metric Description	This metric measures the monthly Rad Con Severity Index. The monthly Index is calculated by multiplying the monthly Rad Con Points by 70,000 hours and then dividing by the total monthly hours. The FY Index is determined by multiplying the number of Rad Con points by 70,000 hours and then dividing it by the total FY hours.
Metric 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 = 10 pts  STAT CAT 3, 4 = 5 pts  Non-ORPS = 1 pt
Metric Value	Index is a unit
Metric Reporting Frequency	Monthly
Metric Requirements Drivers	None

Data Source(s):	STAR Database (Chip Patterson SME)
Equivalent Statistical Process Chart	None
Grade Criteria	Percent of Target
<b>BLUE</b>	< 50 % of Goal > 5 Months
<b>VIOLET</b>	< 50 % of Goal
<b>GREEN</b>	≥ 50 % of Goal
<b>YELLOW</b>	≥ 90 % of Goal
<b>RED</b>	> 110 % of Goal
Data Entry/Verification/Validation	Automatic data pull from Medgate, TACS, SATS (any other hours sources that can be referenced)
Scorecard Inquiry	Please report any Scorecard technical issue to <a href="#">Raine Weimortz</a> or <a href="#">Steve Rich</a> or radiological related questions to <a href="#">Ellen Parrish</a>

Note: The FY10 goal is based on the FY2008. That year had a Rad Con severity index of 13.68

SRR calculates 95% of that 13.68 for continuous improvement. Therefore the Rad Con severity index goal for FY10 is 13.0. For FY11, SRR calculates 95% of the 2008 goal of 13.0 for continuous improvement and the FY11 goal is 12.35.