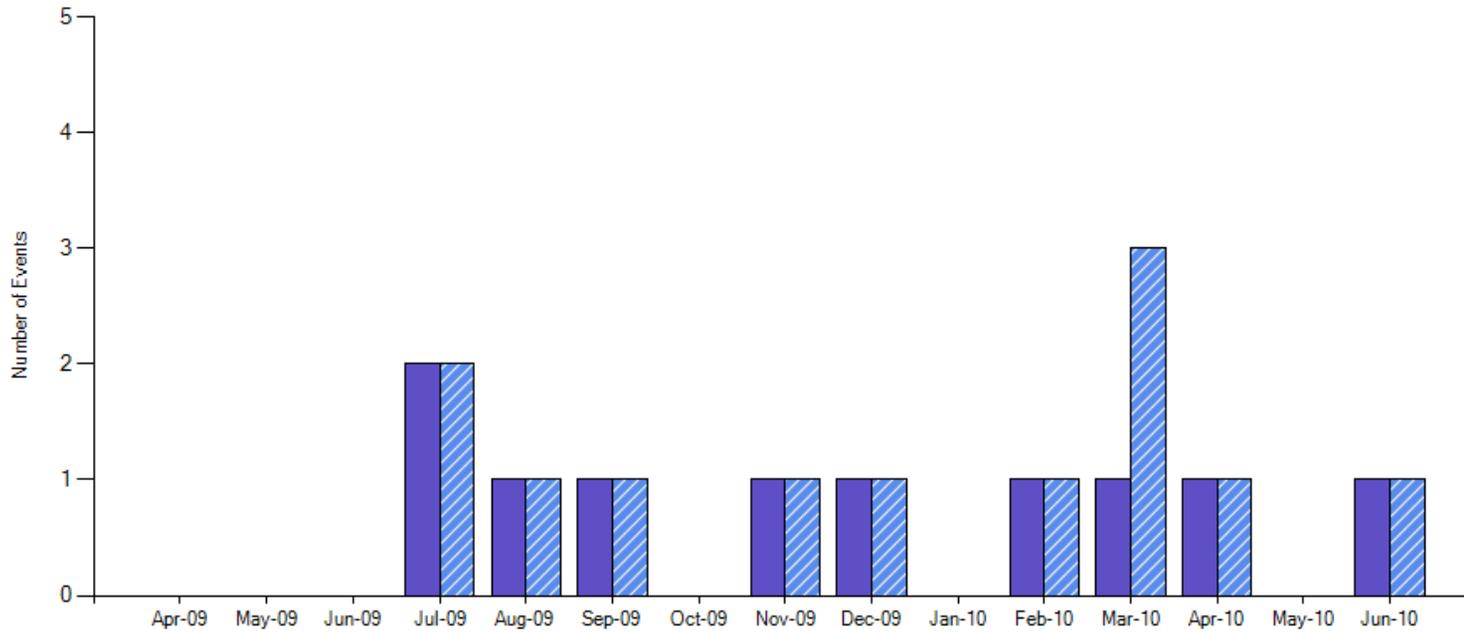


LWO RADIOLOGICAL SAFETY PERFORMANCE

Non-ORPS Reportable Personnel Contamination Errors/Cases

Through June 30, 2010



Title	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10
Non-ORPS Reportable Cont. Errors	0	0	0	2	1	1	0	1	1	0	1	1	1	0	1
Non-ORPS Reportable Cont. Cases	0	0	0	2	1	1	0	1	1	0	1	3	1	0	1

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. Non-ORPS errors are a leading indicator for ORPS events. Oct 2009 begins the new Fiscal Year

Analysis

Current Data: 6/3/10: FTF Const. worker contaminates pants leg in RBA during line break 20K d/m/100cm2 BG.

Historical Data: 11/11/08: DWPF shoe 18K d/m/100cm2 BG 7/7/09: DWPF M14 Lab tech contaminates face to 12K d/m/100cm2 BG, ND alpha. 7/15/09: Saltstone BSRI carpenter contaminates modesty clothing repairing hut to 25K d/m/100cm2 BG, ND alpha. 8/6/09: Saltstone BSRI carpenter contaminates modesty clothing at Vault 4, Cell E to 40K d/m/100cm2 BG, ND alpha. 9/8/09: DWPF:SRNS Crane inspector contaminates skin/clothes to 12K d/m/100cm2 BG, ND alpha from contaminated crane pendant (80K d/m BG) in RBA, 11/29/09: DWPF M14 Lab Tech

contaminates facial area to 24K d/m/100cm² BG, ND alpha, **12/4/09**: DWPF CDMC Mech. contaminates hand to 16K d/m/100cm² BG, ND alpha, **2/19/10**: Saltstone Operator contaminates personnel clothing to 40K d/m/100cm² BG at Vault 4. **3/3/10**: Saltstone Three workers personnel clothing became contaminated to a maximum of 40K d/m/100cm² BG when a bag of waste leaked 500K d/m/100cm² BG on the bumper of the truck while unloading it in an RBA to be placed in a B-25, **4/1/10**: Saltstone: One worker's personnel clothing became contaminated to a maximum of 17K d/m/100cm² BG and maximum of 2K d/m/100cm² BG on skin while performing work on Vault 4 roof.

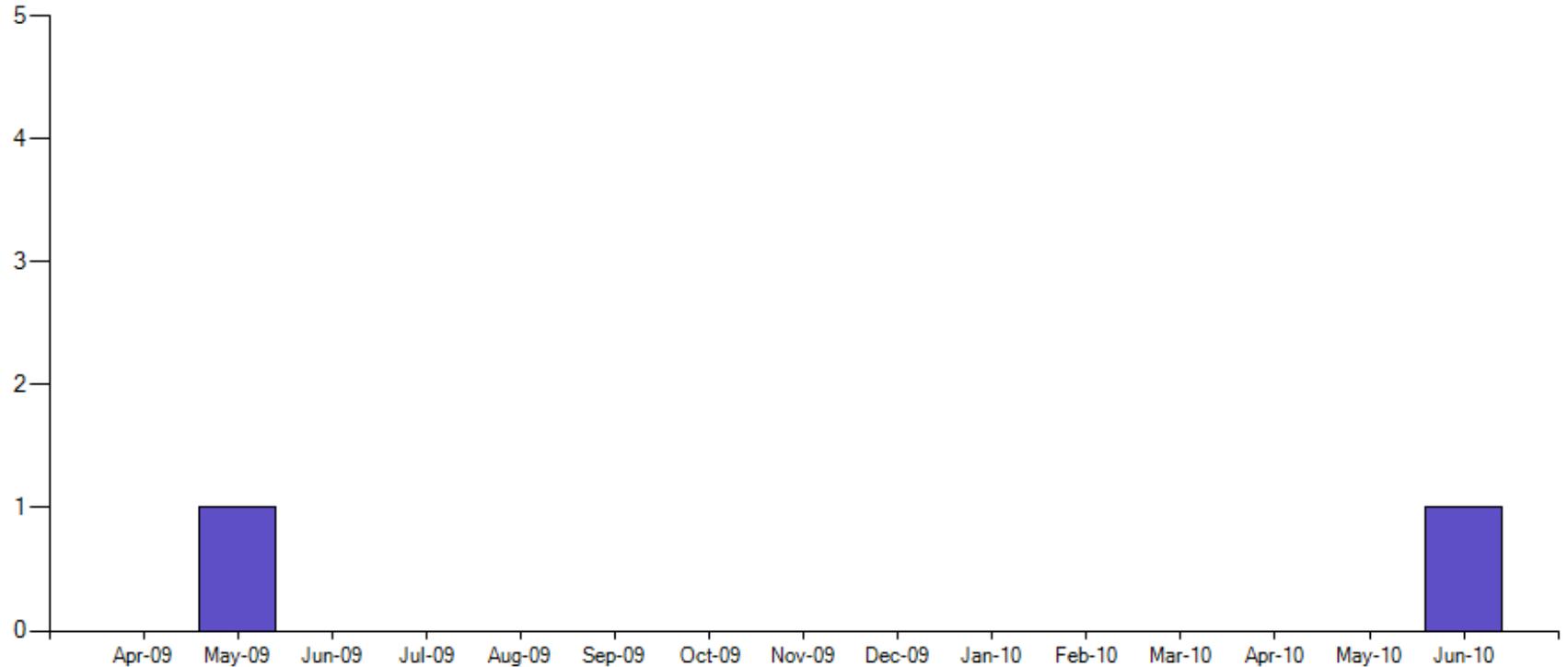
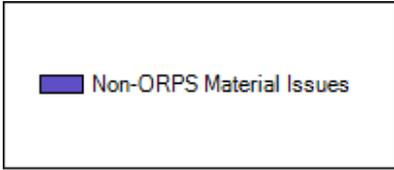
Action: SRR management continues to closely monitor contamination events, even those minor errors that are below the ORPS reporting thresholds. The minor errors are used as a leading indicator that may signal adverse trends that could lead to an increase in the number of reportable events. For each event,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

SRNS PI Owner: Jim Wilson (803) 208-3354, SRNS SME Ellen Parrish (803) 208-1027
DOE PI Owner: Charles Radford (803) 952-8595

LWO Non-ORPS Radioactive Material/Contamination

LWO

Through June 30, 2010



Title	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10
Non-ORPS Material Issues	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Offsite Discovery	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Definition

This chart reflects the number of non-ORPS (6B5) reportable occurrences of radioactive material or spread of contamination found outside of radiological areas (includes RBAs not contiguous with a Contamination Area, clean areas, and controlled areas) and any offsite events. Area Non-ORPS errors are a leading indicator for the Area ORPS events.

Analysis

Current Data: 6/18/10: FTF Fork lift tears plastic around Sleever while placing it into a Sealand. Maximum contamination 30,000 d/m/100cm² BG.

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.

Historical Data: 1/8/08 DWPF: Yoke #11 paint chips flaked off onto the asphalt when it was set down for relifiting, 100K d/m/100cm² BG. **1/15/08 HTF:** Green Is Clean bag of waste from Tk 50 contains contaminated items. **3/10/08 HTF:** Contaminated MSA instrument from Tk 51, 8K d/m/100cm² BG. **3/17/08 FTF:** HEPA vacuum spill in back of truck, 14K d/m/100cm² BG. **5/21/09 FTF:** Overhead evaporator leak in a Controlled Area, 30K d/m/100cm² BG probe, 8K d/m/100cm² BG transferable.

SRR PI Owner: Jim Wilson (803) 208-3354 SRNS SME: Ellen Parrish (803) 208-1027

DOE PI Owner: Charles Radford (803) 952-8595

Scoring Target

Blue	< 1/month
Purple	= 1/month
Green	= 2/month
Yellow	= 3/month
Red	> 3/month or 1 offsite

Definition This chart reflects the number of ORPS (6B1, 6B2, 6B3, 6B4) reportable occurrences of radioactive material or spread of contamination found outside of radiological areas (includes RBAs not contiguous with a Contamination Area, clean areas, and controlled areas).

Analysis

Color:Blue

Analysis: Excellent

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.

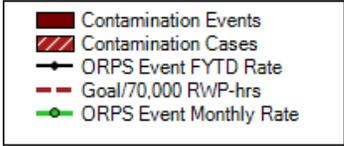
SRR PI Owner: Jim Wilson (803) 208-3354 SRNS SME: Ellen Parrish (803) 208-1027

DOE PI Owner: Charles Radford (803) 952-8595

LWO RADIOLOGICAL SAFETY PERFORMANCE

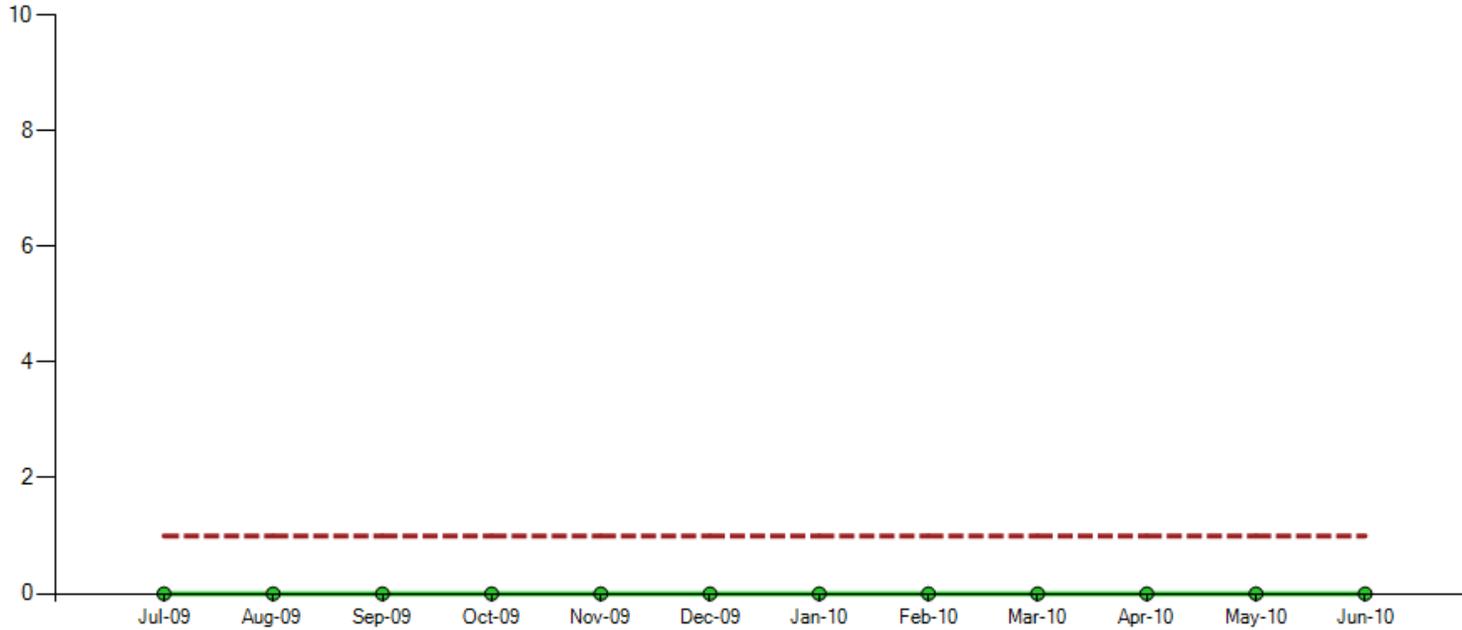
Reportable Personal Contamination Events/70,000 RWP-Hrs

Through June 30, 2010



Scoring Target

Blue	≤ 1.0
Purple	> 1.0 - ≤ 3.0
Green	> 3.0 - ≤ 5.0
Yellow	> 5.0 - ≤ 7.0
Red	> 7.0



Title	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10
Contamination Events	0	0	0	0	0	0	0	0	0	0	0	0
Contamination Cases	0	0	0	0	0	0	0	0	0	0	0	0
Goal/70,000 RWP-hrs	1	1	1	1	1	1	1	1	1	1	1	1
ORPS Event Monthly Rate	0	0	0	0	0	0	0	0	0	0	0	0
ORPS Event FYTD Rate	0	0	0	0	0	0	0	0	0	0	0	0
Score: Goal/70,000 RWP-hrs	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1	≤1

Definition

This chart reflects the number of ORPS reportable personnel contamination events/cases per month.

Beginning in Oct. 2008 we converted to an annual goal of < 3.0 events per 200,000 RWP-hrs. Beginning in October 2010 we converted to an annual goal of <1.0 events per 70,000 RWP-hrs because LWO has 1/3 of the total RWP hours as compared to M&O. The monthly and FYTD rate is obtained by multiplying the number of events by 70,000 hours and dividing by the number of applicable RWP hours. The score coincides with the FYTD Rate. October 2009 begins the new fiscal year.

Analysis

COLOR: Blue

Analysis: Excellent

ORPS (6D3) event: None

Action: SRR management 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.

SRR PI Owner: Jim Wilson (803) 208-3354 SRNS SME: Ellen Parrish (803) 208-1027

DOE PI Owner: Charles Radford (803) 952-8595