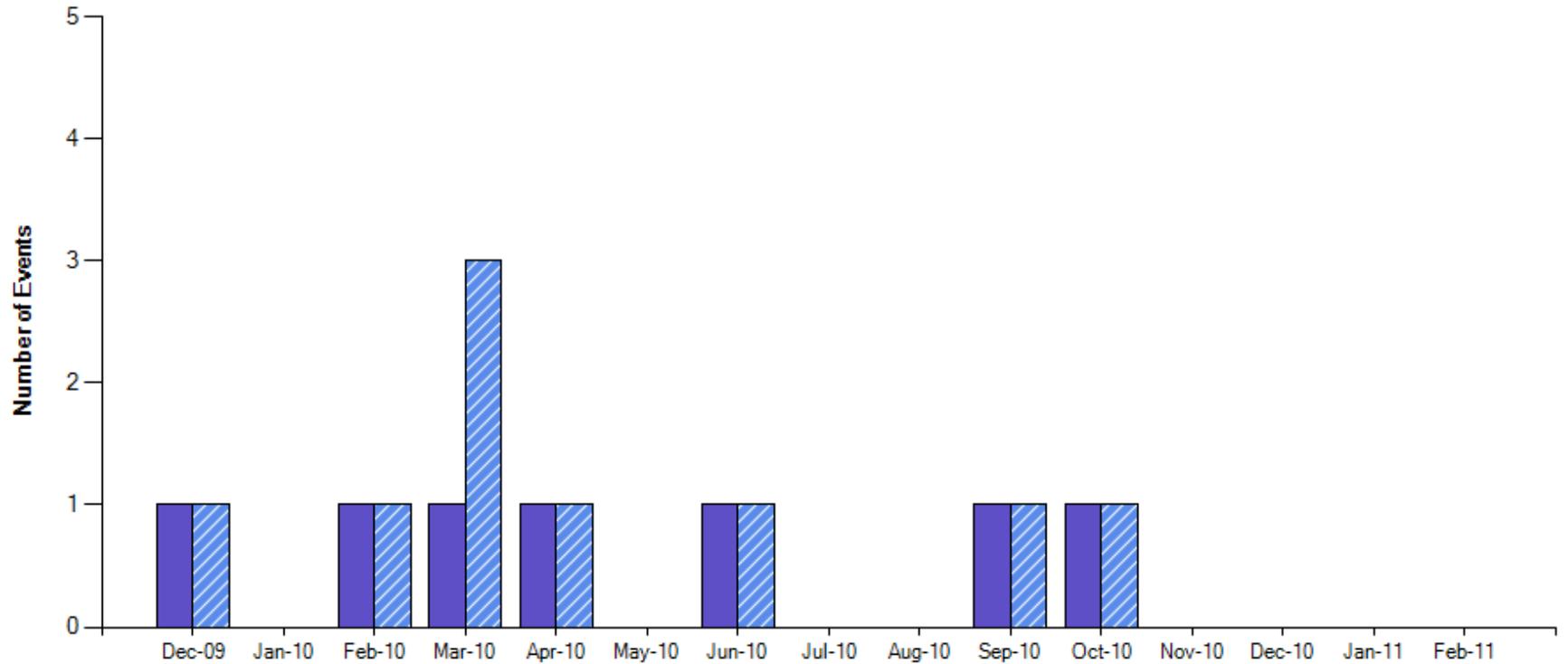


LWO RADIOLOGICAL SAFETY PERFORMANCE

Non-ORPS Reportable Personnel Contamination Errors/Cases

Through February 28, 2011



Title	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11
Non-ORPS Reportable Cont. Errors	1	0	1	1	1	0	1	0	0	1	1	0	0	0	0
Non-ORPS Reportable Cont. Cases	1	0	1	3	1	0	1	0	0	1	1	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. Non-ORPS errors are a leading indicator for ORPS events. Oct 2010 begins the new Fiscal Year

Analysis

Current Data: None

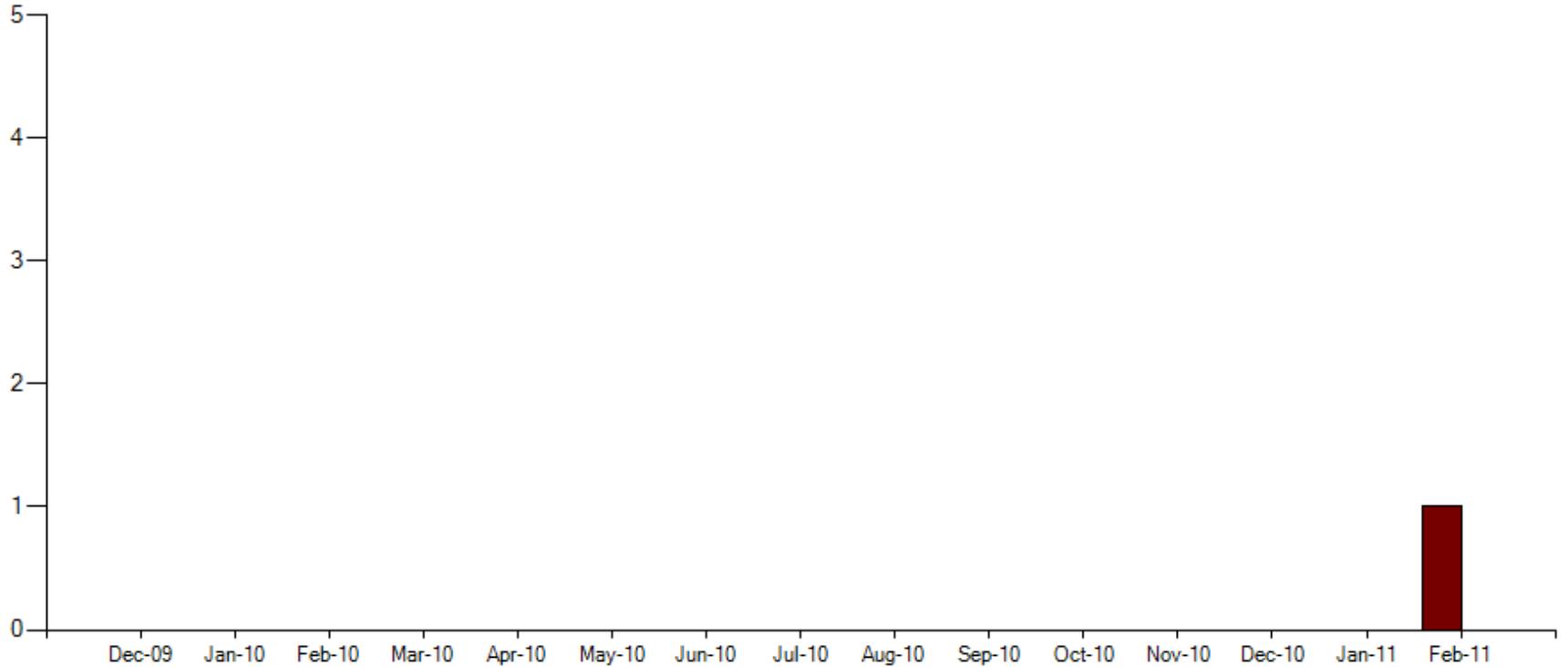
Historical Data: **11/11/08:** DWPF shoe 18K d/m/100cm² BG **7/7/09:** DWPF M14 Lab tech contaminates face to 12K d/m/100cm² BG, ND alpha. **7/15/09:** Saltstone BSRI carpenter contaminates modesty clothing repairing hut to 25K d/m/100cm² BG, ND alpha. **8/6/09:** Saltstone BSRI carpenter contaminates 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, **6/3/10:** FTF Const. worker contaminates pants leg in RBA during line break 20K d/m/100cm² BG, **9/12/10:** HTF RCI contaminates left forearm & left middle finger to maximum of 10Kd/m/100cm² BG after surveying MCU pump guide plates, **10/4/10:** DWPF Mechanic contaminates mustache to 46K d/m/100cm² BG

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.

SRNS 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
Number of Occurrences of Radioactive Material/Contamination
Detected Outside of Radiological Areas
Through February 28, 2011



Title	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11
Contamination Events	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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

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). This chart is scoring the Offsite Contamination Events.

Analysis

Analysis: Excellent **Color:** Blue

ORPS Event: 2/6/11 HTF (MCU) Contamination found in Controlled area to a maximum of 1E6 d/m/100cm² BG transferable and 2500 mrad BG fixed. One Operator contaminated shoes to 100K 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.

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

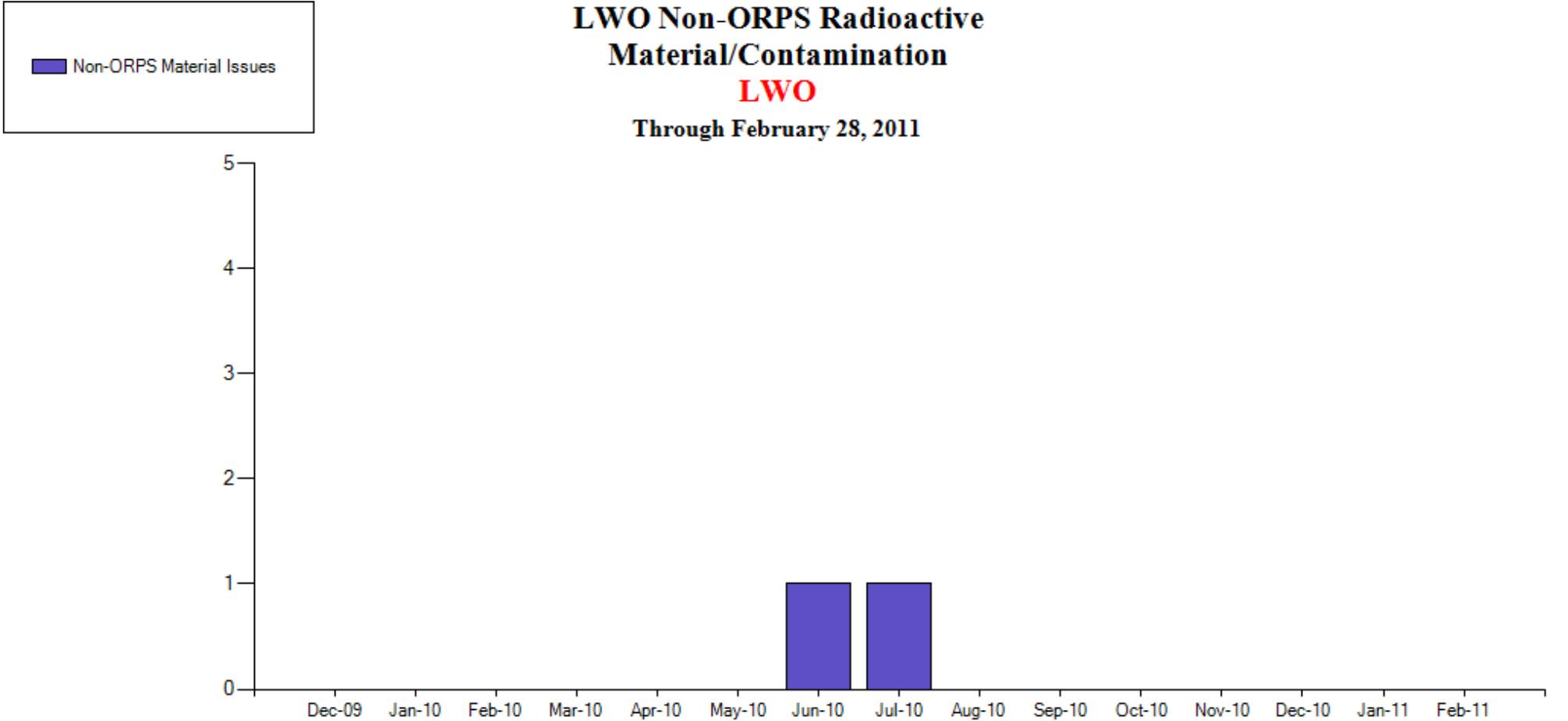
SRR PI Owner: Jim Wilson (803) 208-3354 SRNS SME: Ellen Parrish (803) 208-1027

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

LWO Non-ORPS Radioactive Material/Contamination

LWO

Through February 28, 2011



Title	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11
Non-ORPS Material Issues	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
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: 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.

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, **6/18/10: FTF** Fork lift tears plastic around Sleever while placing it into a Sealand. Maximum contamination 30,000 d/m/100cm² BG, **7/6/10 DWPF:** A particle that probed 50,000 d/m/100cm² BG was found on floor of Canister Inspection Area during EP drill habitability surveys.

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

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

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 2010 begins the new fiscal year.

Analysis

Analysis: Excellent **COLOR:** Blue

ORPS (6D3) event: None

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.

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