

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

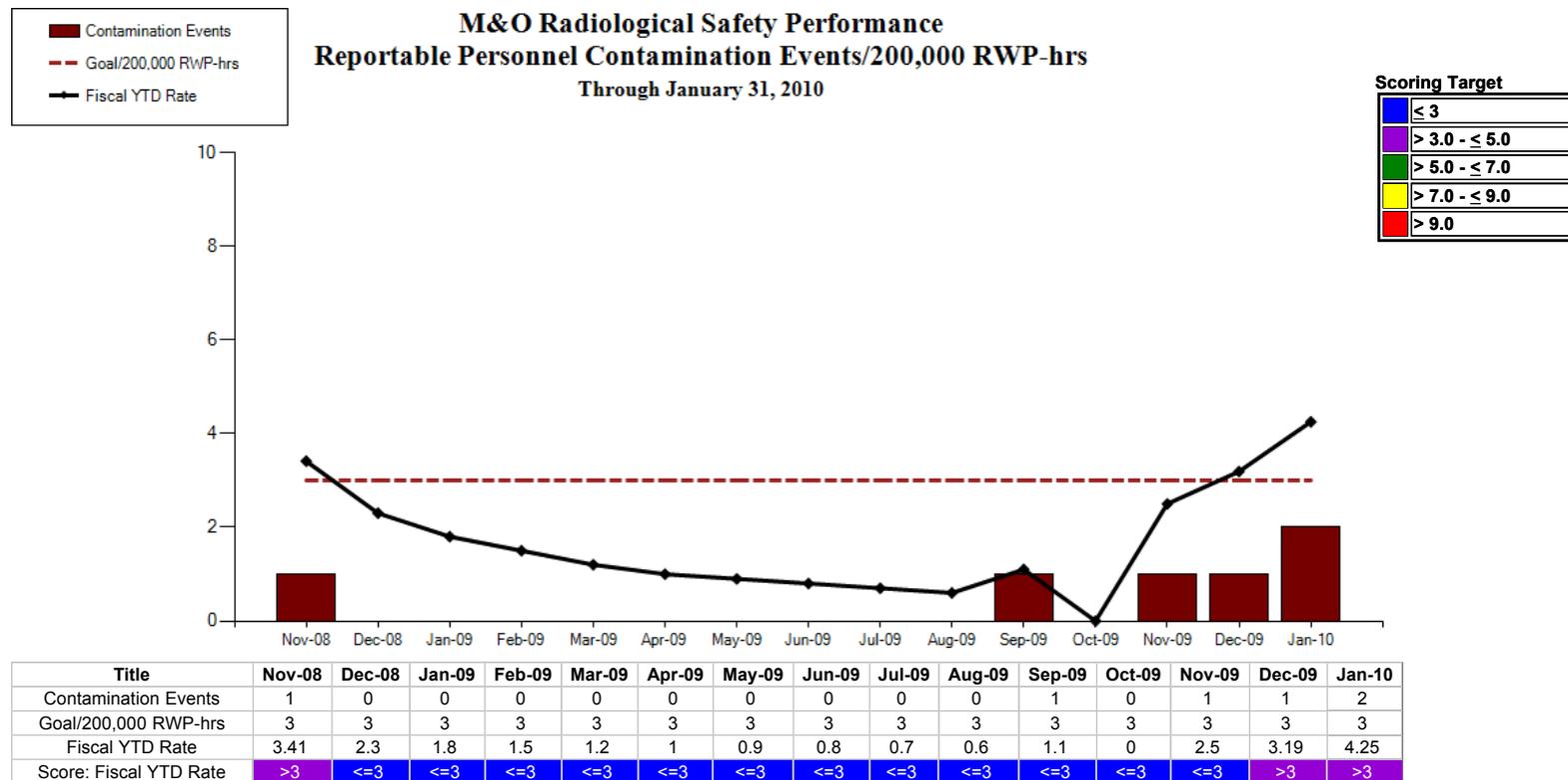
Color: Purple
Analysis: Very Good

Current ORPS Events: 1/29/10 SWBG Pad 17 Contamination found on footprint area of culvert mining. Max. fixed was 60K d/m/100cm2 alpha, max. transferable was 40,100 d/m/100cm2 alpha.

Historical ORPS Events: 2/26/09 ACP 100-P Settler Tank paint chips 130K d/m/100cm2 BG, 6/29/09 105-C Deionizer Pad 180K d/m/100cm2 BG, 6/25/09 Tritium HAOM 1.1E6 d/m/100cm2 3H, 8/30/09 L-Area RMA Canisters 70K d/m/100cm2 BG fixed

Action:
 In response to the recent and adverse trend of contamination events; the RPD Director has created a Causal Analysis Team to focus on both personnel and area/equipment contamination events for a common cause or failure. This evaluation will use the SRNS standard Causal Analysis Process Techniques and will integrate principles and elements of both ISMS and HPI. The scope of this analysis focuses on radiological contamination events to include ORPS, Non-ORPS, and Third Tier Bin items from STAR.

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



Definition

This chart reflects the number of ORPS reportable personnel contamination events per month. Beginning in Oct. 2008 the annual goal converted to an annual goal of ≤ 3.0 events per 200,000 RWP-hours. The FYTD rate is obtained by multiplying the number of events by 200,000 hours and dividing by the number of applicable RWP hours. The score coincides with the FYTD Rate. October 2009 begins FY2010.

Analysis

Analysis: Very Good **Color:** Purple

ORPS(6D3) Event: 1/18/10 CLAB 1 Construction worker contaminated personal clothing to 15K d/m/100cm² alpha while renovating Control room in 772-1F. **1/25/10 SRNL** Lab tech. contaminates white labcoat (4-10K alpha), PE (800 alpha), and skin (400 alpha) while working with samples in B-134.

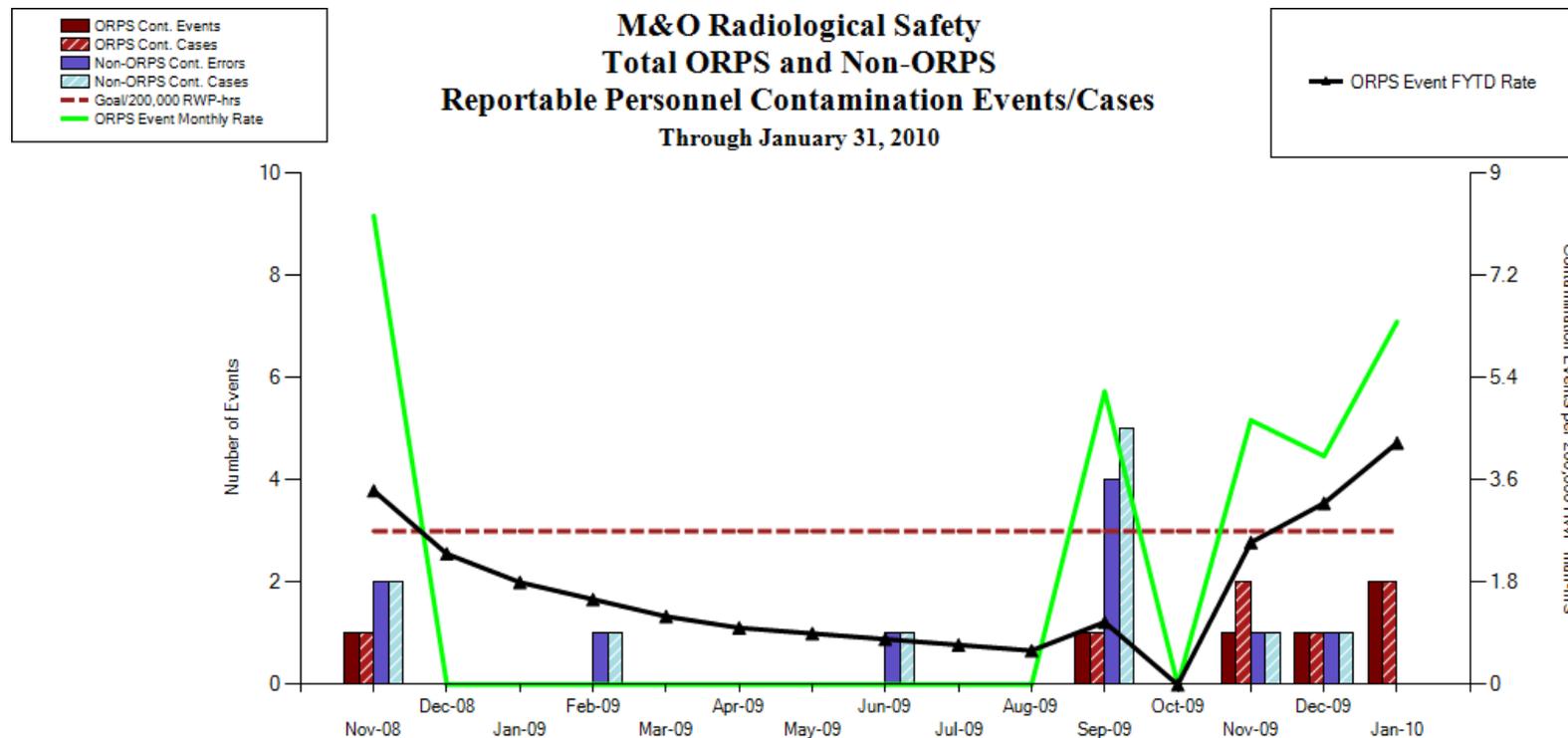
Historical ORPS(6D3) Event: 9/5/08 SRNL 2 Researchers contaminate skin 80K-100K d/m BG, 9/25/08 SWM MRS 2 Op contaminated PE 20K alpha & 3K alpha (non-ORPS) **11/24/08 HBL** shoe 80K d/m alpha, **9/10/09 HCA** Construction worker contaminates PE 40K d/m alpha, **11/9/09 SWM** 2 Ops contaminated PE working w/Pu238 drums to 10,000 d/m alpha (worker 1) & 100,000 d/m alpha (worker 2), **12/23/09 SRNL:** Lab Tech contaminates white labcoat in B-103 to 400K d/m/100cm² BG.

Action:

In response to the recent and adverse trend of contamination events; the RPD Director has created a Causal Analysis Team to focus on both personnel and area/equipment contamination events for a common cause or failure. This evaluation will use the SRNS standard Causal Analysis Process Techniques and will integrate principles and elements of both ISMS and HPI. The scope of this analysis focuses on radiological contamination events to include ORPS, Non-ORPS, and Third Tier Bin items from STAR.

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Title	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10
ORPS Cont. Events	1	0	0	0	0	0	0	0	0	0	1	0	1	1	2
ORPS Cont. Cases	1	0	0	0	0	0	0	0	0	0	1	0	2	1	2
Non-ORPS Cont. Errors	2	0	0	1	0	0	0	1	0	0	4	0	1	1	0
Non-ORPS Cont. Cases	2	0	0	1	0	0	0	1	0	0	5	0	1	1	0
Goal/200,000 RWP-hrs	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
ORPS Event Monthly Rate	8.24	0	0	0	0	0	0	0	0	0	5.15	0	4.65	4.02	6.38
ORPS Event FYTD Rate	3.41	2.3	1.8	1.5	1.2	1	0.9	0.8	0.7	0.6	1.1	0	2.5	3.19	4.25
Score: ORPS Event FYTD Rate	>3	<=3	<=3	<=3	<=3	<=3	<=3	<=3	<=3	<=3	<=3	<=3	<=3	<=3	>3

Definition

This chart reflects non-ORPS and ORPS reportable personnel contamination events/cases per month >500 dpm alpha or >5000 dpm beta-gamma. Beginning in Oct. 2008 we converted to an annual goal of ≤ 3.0 events per 200,000 RWP-hrs. The monthly and FYTD rate is obtained by multiplying the number of events by 200,000 hours and dividing by the number of applicable RWP hours. The score coincides with the FYTD Rate. The non-ORPS portion of this PI is a leading indicator for ORPS events. October 2009 begins FY2010.

Analysis**Analysis:** Very Good **Color:** Purple**Current ORPS(6D3) Events:** **1/18/10 F/H Lab:** Construction contaminates PE to 15K d/m alpha while renovating CR in 772-1F, **1/25/10 SRNL:** Lab tech contaminates white labcoat (4-10K alpha), PE (800 alpha), and skin (400 alpha) while working with samples in B-134.**Current Non-ORPS Errors:****Action:**

In response to the recent and adverse trend of contamination events; the RPD Director has created a Causal Analysis Team to focus on both personnel and area/equipment contamination events for a common cause or failure. This evaluation will use the SRNS standard Causal Analysis Process Techniques and will integrate principles and elements of both ISMS and HPI. The scope of this analysis focuses on radiological contamination events to include ORPS, Non-ORPS, and Third Tier Bin items from STAR.

Historical ORPS(6D3) Events: **9/5/08 SRNL** 2 Researchers contaminate skin 80K-100K d/m BG, **9/25/08 SWM MRS** 2 Op contaminated PE 20K alpha & 3K alpha (non-ORPS) **11/24/08 HBL** shoe 80K d/m alpha, **9/10/09 HCA** Const. worker PE 40K d/m alpha, **11/9/09 SWM:** 2 Ops contaminated PE working w/Pu238 drums to 10,000 d/m alpha (worker 1) & 100,000 d/m alpha (worker2), **12/23/09 SRNL:** Lab tech contaminates white labcoat in B-103 to 400K d/m/100cm² BG.

Historical Non-ORPS(6D4) Errors: **9/22/08 HCA 292-H** Mech. contaminates hand 800 d/m alpha, 10K d/m BG, **10/6/08 FCA TRU** shoe 1600 d/m alpha, **11/5/08 SRNL** shoe 12K d/m BG, **11/12/08 SRNL** White Labcoat 600 d/m alpha, **2/26/09 SRNL** White lab coat 8K d/m BG, **6/9/09 HCA** Shoe contaminated 4K d/m alpha, **9/1/09 SRNL** 2 shoes 3K d/m & 2400 d/m alpha, **9/9/09 SRNL** 1 White labcoat 3K d/m alpha, **9/23/09 SRNL** 1 shoe contaminated 800 d/m alpha, **9/24/09 SRNL** 1 White labcoat 50K d/m BG, **11/18/09 FH Lab** shoe contaminated 820 d/m alpha, **12/30/09 105-C SFP:** Construction worker contaminates personnel clothing to 30K d/m/100cm² BG in Transfer Bay.

Scoring Target**FYTD Goal is based on ORPS contamination events and RWP-hrs**

■	≤ 3
■	> 3.0 - ≤ 5.0
■	> 5.0 - ≤ 7.0
■	> 7.0 - ≤ 9.0
■	> 9.0

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