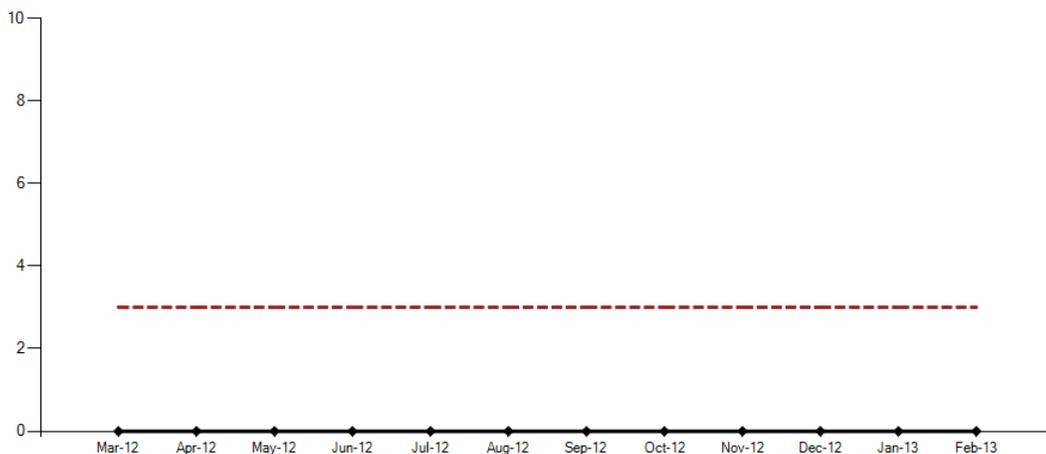


**EM Radiological Safety Performance  
ORPS Personnel Contamination Events  
Through February 28, 2013**



| Title                     | Mar-12    | Apr-12    | May-12    | Jun-12    | Jul-12    | Aug-12    | Sep-12    | Oct-12   | Nov-12    | Dec-12    | Jan-13    | Feb-13    |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|
| Contamination Events      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0         | 0         | 0         | 0         |
| Contamination Events (FY) | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0         | 0         | 0         | 0         |
| Site Work Hours           | 950,488   | 863,922   | 1,112,974 | 927,656   | 843,830   | 1,112,394 | 892,931   | 865,435  | 833,415   | 625,066   | 818,050   | 704,405   |
| Rad Worker Hrs. (Month)   | 409,129   | 396,865   | 539,389   | 479,057   | 463,684   | 639,787   | 548,484   | 528,581  | 536,340   | 403,184   | 522,163   | 447,520   |
| Rad Worker Hrs. (FY)      | 2,053,597 | 2,450,462 | 2,989,851 | 3,468,908 | 3,932,592 | 4,572,379 | 5,120,863 | 5,28,581 | 1,064,921 | 1,468,105 | 1,990,268 | 2,437,788 |
| Fiscal YTD Rate           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0         | 0         | 0         | 0         |
| Monthly Rate              | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0        | 0         | 0         | 0         | 0         |
| Goal                      | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3        | 3         | 3         | 3         | 3         |
| Score: Fiscal YTD Rate    | <=1.5     | <=1.5     | <=1.5     | <=1.5     | <=1.5     | <=1.5     | <=1.5     | <=1.5    | <=1.5     | <=1.5     | <=1.5     | <=1.5     |

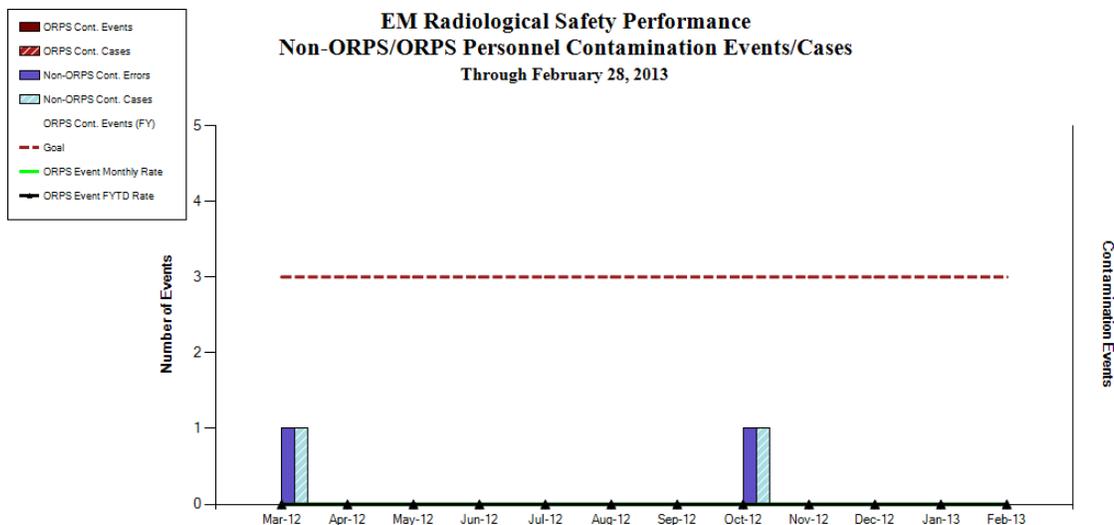
Note: Data prior to Oct 2011 is located on the Facility Metric page in the Historical ORPS Percon Event Chart under the HISTORICAL header.

| Metric Details                     |  |
|------------------------------------|--|
| Metric Title                       | ORPS PerCon Events   |
| Metric Owner/Alternate Owner       | Gordon Quillin 2-8389/Greg Tunno 2-8477  |
| Metric SME/POC                     | 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 Rad Worker 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                              | ≥ 2.5 - ≤ 5.0  |
| YELLOW                             | > 5.0 - ≤ 7.5  |
| RED                                | > 7.5  |
| Data Entry/Verification/Validation | Automatic pulls from STAR & Hummingbird Database   |
| 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> |

**Analysis**

Analysis: Excellent Color: Blue  
ORPS(6D3) Event: None

Beginning in Oct. 2008 the annual goal converted to a goal of ≤ 3.0 events per 200,000 RWP-hours. In Oct 2011 the method of obtaining Rad worker hours was revised. A percentage is taken of the Site hours to obtain the Rad Work hours. Please address any questions to Ellen Parrish.



| Title                       | Mar-12    | Apr-12    | May-12    | Jun-12    | Jul-12    | Aug-12    | Sep-12    | Oct-12  | Nov-12    | Dec-12    | Jan-13    | Feb-13    |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|
| ORPS Cont. Events           | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0       | 0         | 0         | 0         | 0         |
| ORPS Cont. Events (FY)      | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0       | 0         | 0         | 0         | 0         |
| ORPS Cont. Cases            | 0         | 0         | 0         | 0         | 0         | 0         | 0         | 0       | 0         | 0         | 0         | 0         |
| Non-ORPS Cont. Errors       | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 1       | 0         | 0         | 0         | 0         |
| Non-ORPS Cont. Cases        | 1         | 0         | 0         | 0         | 0         | 0         | 0         | 1       | 0         | 0         | 0         | 0         |
| Goal                        | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3       | 3         | 3         | 3         | 3         |
| Site Work Hours             | 950,488   | 863,922   | 1,112,974 | 927,656   | 843,830   | 1,112,394 | 892,931   | 865,435 | 833,415   | 625,066   | 818,050   | 704,405   |
| Rad Work Hours (Monthly)    | 409,129   | 396,865   | 539,389   | 479,057   | 463,684   | 639,787   | 548,484   | 528,581 | 536,340   | 403,184   | 522,478   | 447,520   |
| Rad Work Hours (FY)         | 2,053,597 | 2,450,462 | 2,989,851 | 3,468,908 | 3,932,592 | 4,572,379 | 5,120,863 | 528,581 | 1,064,921 | 1,468,105 | 1,990,583 | 2,438,103 |
| 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: ORPS Event FYTD Rate | <=1.5     | <=1.5     | <=1.5     | <=1.5     | <=1.5     | <=1.5     | <=1.5     | <=1.5   | <=1.5     | <=1.5     | <=1.5     | <=1.5     |

**Analysis**

**Analysis:** Excellent Color: Blue  
**Current ORPS(6D3) Events:** None  
**Current Non-ORPS Errors:** None

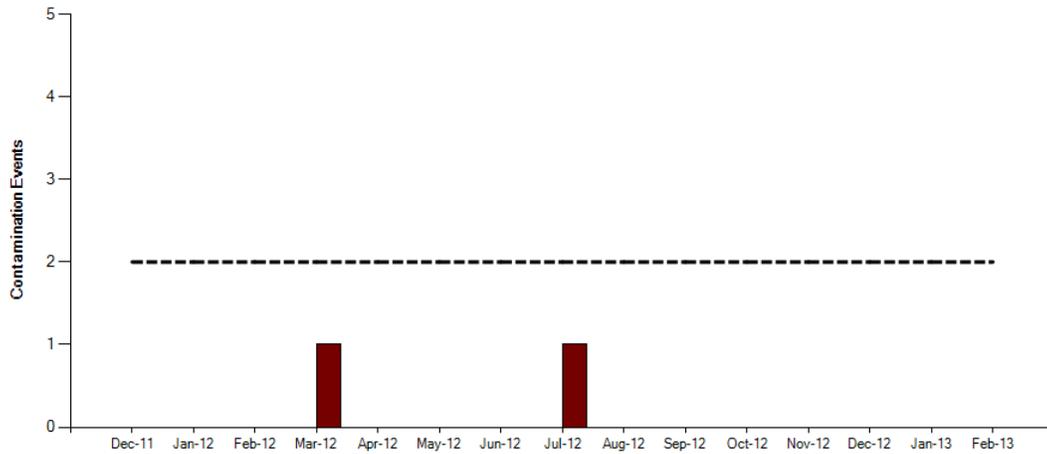
**Action:** Star Third Tier Bin Items are being categorized with regard to ISMS Core Function. This process will support identification of areas of concern for review and address in response to these leading indicators. Performance continues to be acceptable and stable.

**Note:** Data prior to Oct 2011 is located on the Facility Metric page in the Historical Non-ORPS Percon Event Chart under the HISTORICAL header.

| Metric Details                     |   |
|------------------------------------|---|
| Metric Title                       | Total ORPS & Non-ORPS PerCon Events/Cases   |
| Metric Owner/Alternate Owner       | Gordon Quillin 2-8389/Greg Tunno 2-8477   |
| Metric SME/POC                     | Ellen Parrish 2-5825  |
| Metric DOE PI Owner                | Chuck Radford 2-8595  |
| Metric Functional Group            | RPD, DOE, ESH   |
| Metric Description                 | Measures ORPS events & Non-ORPS PerCon errors 6D(3-4) & binned as FA 11.10.94 & 11.10.95 and the number of workers who were contaminated  |
| Metric Definition                  | The monthly & Government FYTD rates are obtained by multiplying the number of ORPS events by 200,000 hrs & dividing by the number of applicable Rad Worker hrs. 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 Rad Worker hrs. |
| Metric Value                       | Goal is measured in FYTD rate 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) and Hummingbird Database (RWP hrs)  |
| Grade Criteria                     | Based on ORPS contamination events & RWP hours  |
| BLUE                               | <1.5  |
| VIOLET                             | > 1.5 - < 2.5   |
| GREEN                              | ≥ 2.5 - ≤ 5.0   |
| YELLOW                             | >5.0 - ≤ 7.5  |
| RED                                | > 7.5   |
| Data Entry/Verification/Validation | Automatic pull from STAR & Hummingbird Database, 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  |



**EM Radiological Safety Performance**  
**Number of Occurrences of Radioactive Material/Contamination**  
**Detected Outside of Radiological Areas**  
 Through February 28, 2013



| 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 | Dec-12 | Jan-13 | Feb-13 |
|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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     |
| Contamination Events                | 0      | 0      | 0      | 1      | 0      | 0      | 0      | 1      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Score: Contamination Events         | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    | <=1    |

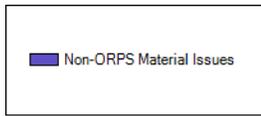
| Metric Details                     |  |
|------------------------------------|--|
| Metric Title                       | Number of Rad Material ORPS Events   |
| Metric Owner/Alternate Owner:      | Gordon Quillin 2-8389/Greg Tunno 2-8477  |
| Metric SME/POC                     | Ellen Parrish 2-5825   |
| 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 Rad Material Contamination Events   |
| BLUE                               | ≤ 1 per month Onsite, = 0 per month Offsite  |
| VIOLET                             | > 1 per month  |
| GREEN                              | > 3 per month  |
| YELLOW                             | > 6 per month  |
| RED                                | > 9 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             |

**Analysis**

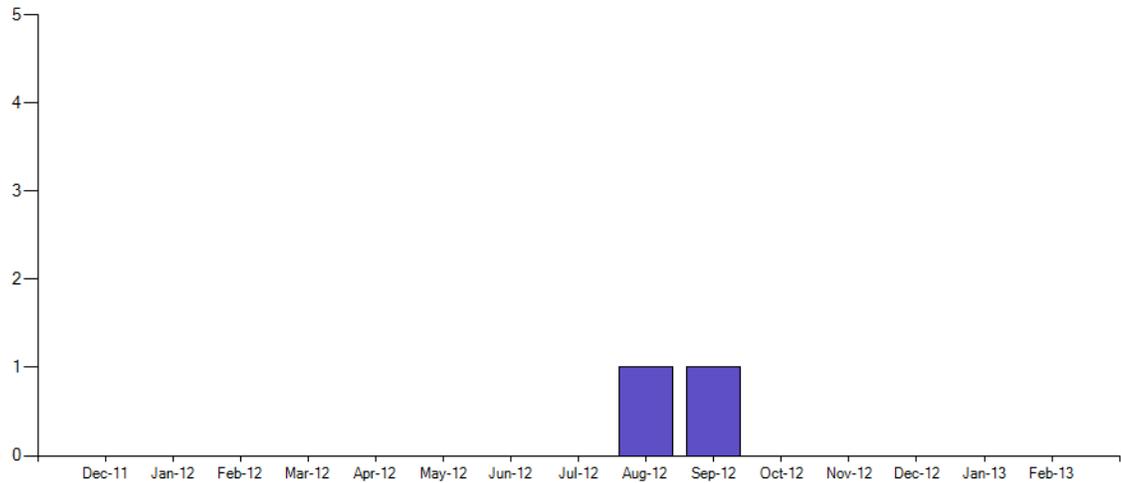
Analysis: Excellent Color: Blue

Current ORPS Events: None

SRS continues to use engineering controls to contain contamination at the source, performs MFO's in the field to assess the work area, and performs fact finding meetings of spread of contamination or radioactive material.



**EM Non-ORPS  
Radioactive Material/Contamination  
Radiological Protection  
Through February 28, 2013**



| 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 | Dec-12 | Jan-13 | Feb-13 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Non-ORPS Material Issues | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 1      | 1      | 0      | 0      | 0      | 0      | 0      |
| Offsite Discovery        | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |

**Analysis:**

**Current Non-ORPS Events:** 9/26/12 EC&ACP Curation Facility contaminated piece of equipment

**Action:** SRS continues to use engineering controls to contain contamination at the source, performs MFO's in the field to assess the work area, and performs fact finding meetings of spread of contamination or radioactive material.

| Metric Details                     |  |
|------------------------------------|--|
| Metric Title                       | Non-ORPS Rad Material  |
| Metric Owner/Alternate Owner       | Gordon Quillin 2-8389/Greg Tunno 2-8477  |
| Metric SME/POC                     | 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 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 Raine Weimortz or Steve Rich or radiological related questions to Ellen Parrish   |