

2008

***Radiological
Performance Indicators***



**Savannah River Site
Aiken, SC 29808**

Summary

<u>Exposure</u>	QTR Actual	CY Actual	CY Goal
Collective Total Effective Dose Equivalent (Person-rem)	27	126	131
Maximum Individual (rem)	0.375	0.619	<1.000¹
Personnel Contamination Events			8*
Skin	0	2	
Personal Effects	1	3	
Internal Exposure			
≥ 100 mrem CEDE	0	0²	N/A
≥ 500 mrem CEDE	0	0	0

**FY Combined Skin + Personnel Effects*

Note¹: SWMF miners granted higher ACL of 800 mrem & FCA TRU operators granted higher ACL of 1000 mrem. Site ACL is 500 mrem

Note²: Internal dose identified in 1st Qtr. 2008 and assigned to 3rd Qtr. 2007

2008 ALARA Goals

CY08 ALARA Goal Summary	D&D	Defense Projects	H-Area Material Disposition	F-Area Closure Project	Waste Solidification Projects	Liquid Waste Disposition Projects	Laboratories	Nuclear Materials Management	Solid Waste & Infrastructure ¹	SRNL	Miscellaneous ¹	WSI ²	SRS Total
	Cumulative Exposure (rem)												
Base Routine Operations	1.00	0.28	6.92	0.80	8.615	18.54	5.30	12.00	31.00	7.48	2.00	2.00	93.935
Total Special Work Operations		0.35	4.30		3.650	25.345	0.50	2.00		1.20			37.345
1 st Quarter		0.025	1.50			10.055	0.25			0.40			12.230
2 nd Quarter		0.025	1.50		2.35	7.73	0.25			0.40			12.255
3 rd Quarter		0.075	1.10		1.2	1.98				0.40			4.755
4 th Quarter		0.225	0.20		0.10	5.58		2.00					8.105
Max. Individual Exposure Goal (mrem)	500*												
Personnel Contamination Events Personal Effects and Skin	8												

Notes:

- 1) Miscellaneous – defined as those facilities with exposure goals < 1 rem to include SGCP - 0.050 rem base + 0.100 rem special; SFP- 0.500 rem base + 0.300 rem special; and other minor contributors to site total.
- 2) WSI-Base Routine Operations is the total dose estimate from all facilities. The WSI goal is added into the facilities goals and is not added back into the total Site goal.

Additional Note: DOE-SR ACL – 150 mrem

*ACL increases were approved by the Site ALARA Committee on 3/25/08 for FCA TRU operators and SWM drum miners. FCA TRU ACL is 1000 mrem and SWM ACL is 800 mrem.

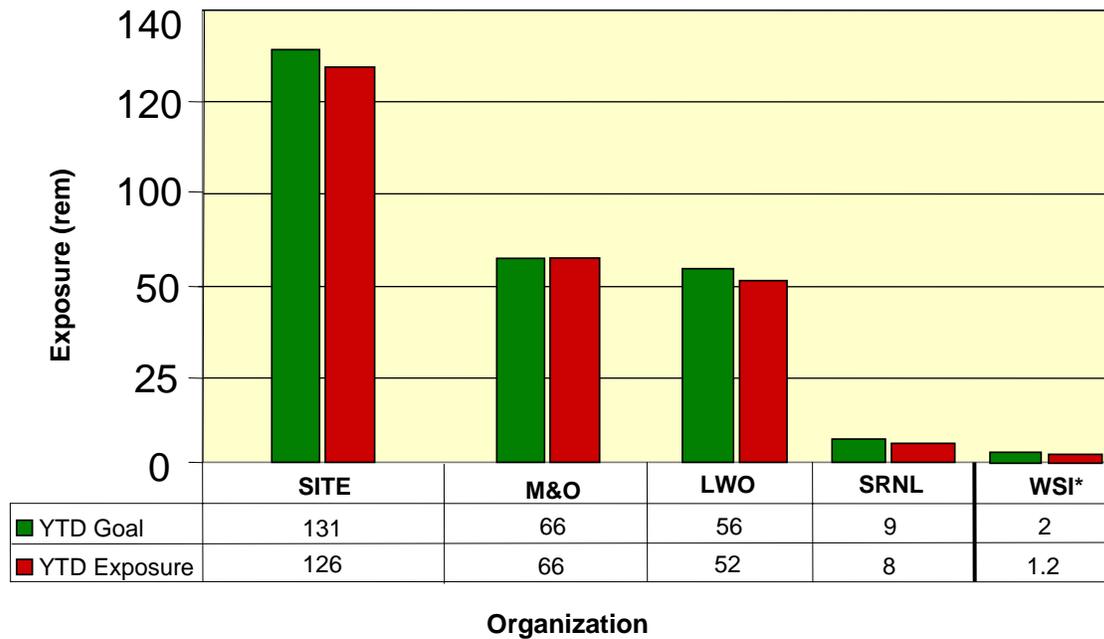
**M&O Maximum Whole Body
YTD Exposure CY08**

Project	Facility	Exposure TEDE (mrem)	ACL
ACP	SDD	619	1000
SWBG	SWM	615	800
ACP	SDD	590	1000
ACP	SDD	584	1000
ACP	SDD	544	1000
SWBG	SWM	533	800
SWBG	SWM	524	800
SWBG	SWM	513	800
F/H Lab	CLB	499	800
ACP	SDD	493	1000

**LWO Maximum Whole Body
YTD Exposure CY08**

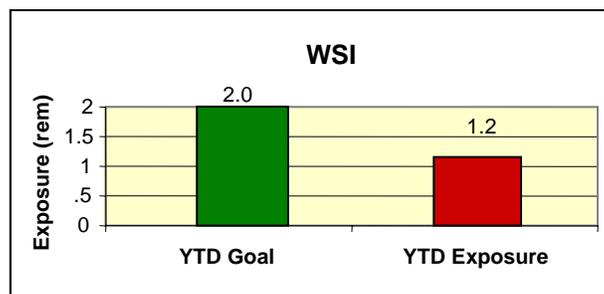
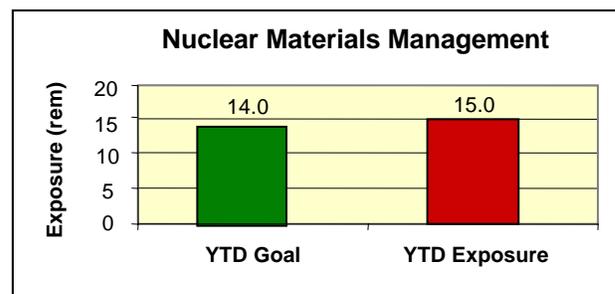
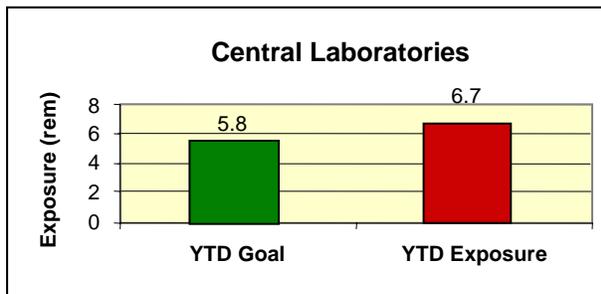
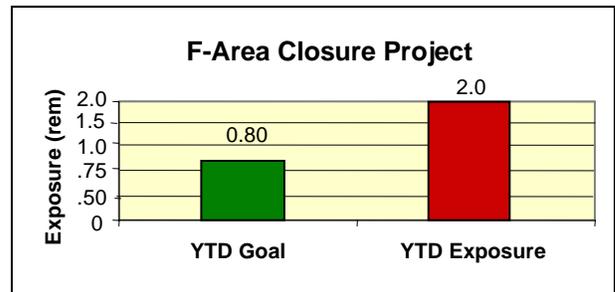
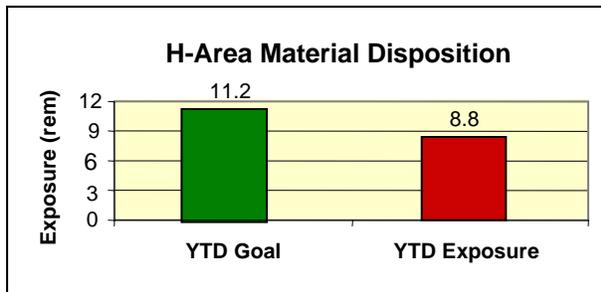
Project	Facility	Exposure TEDE (mrem)	ACL
Liquid Waste	HTF	419	750
Liquid Waste	HTF	411	750
Waste Solidification	Z-Area	403	500
Liquid Waste	HTF	395	750
Liquid Waste	FTF	393	500
Waste Solidification	Z-Area	377	500
Liquid Waste	HTF	370	750
Liquid Waste	HTF	366	750
Liquid Waste	HTF	355	750
Liquid Waste	HTF	353	750

Site Cumulative Exposure vs. Goal (YTD)

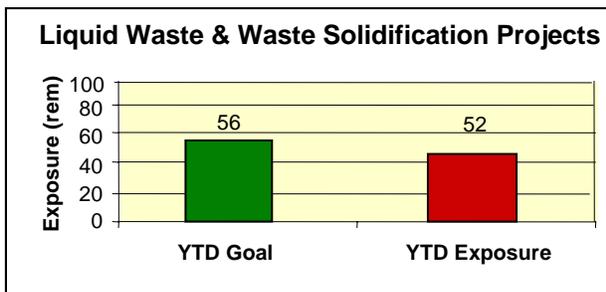
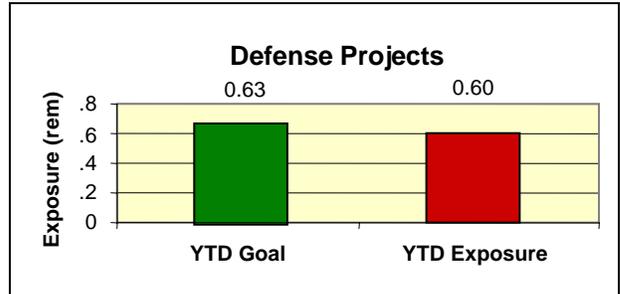
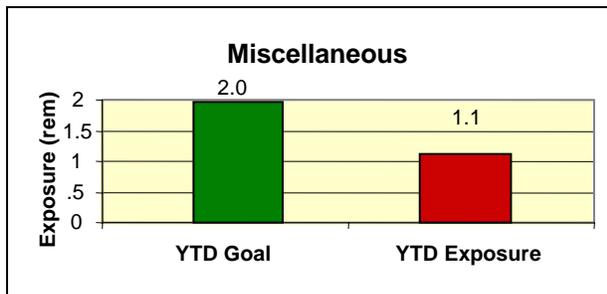
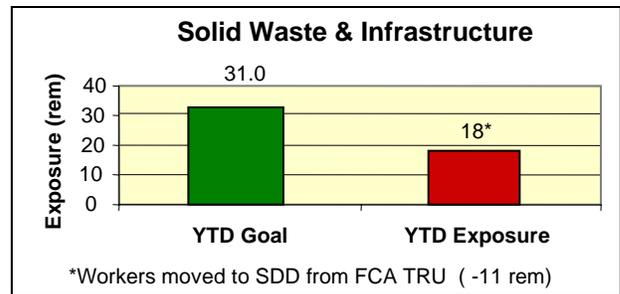
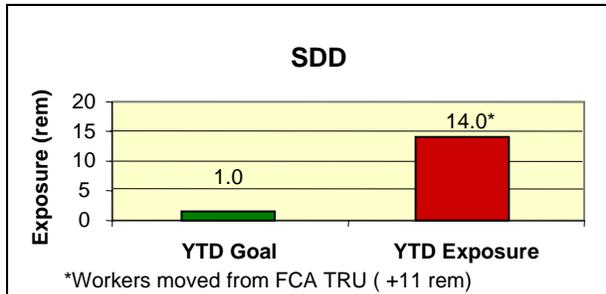


Note: WSI dose is included within the facilities goals and exposure.

YTD Cumulative Exposure vs. Goal by Facility



YTD Cumulative Exposure vs. Goal by Facility



Note: Sum of the goals of SW&I and SDD equal 32.0 rem; sum of actual exposure equals 32.0 rem.

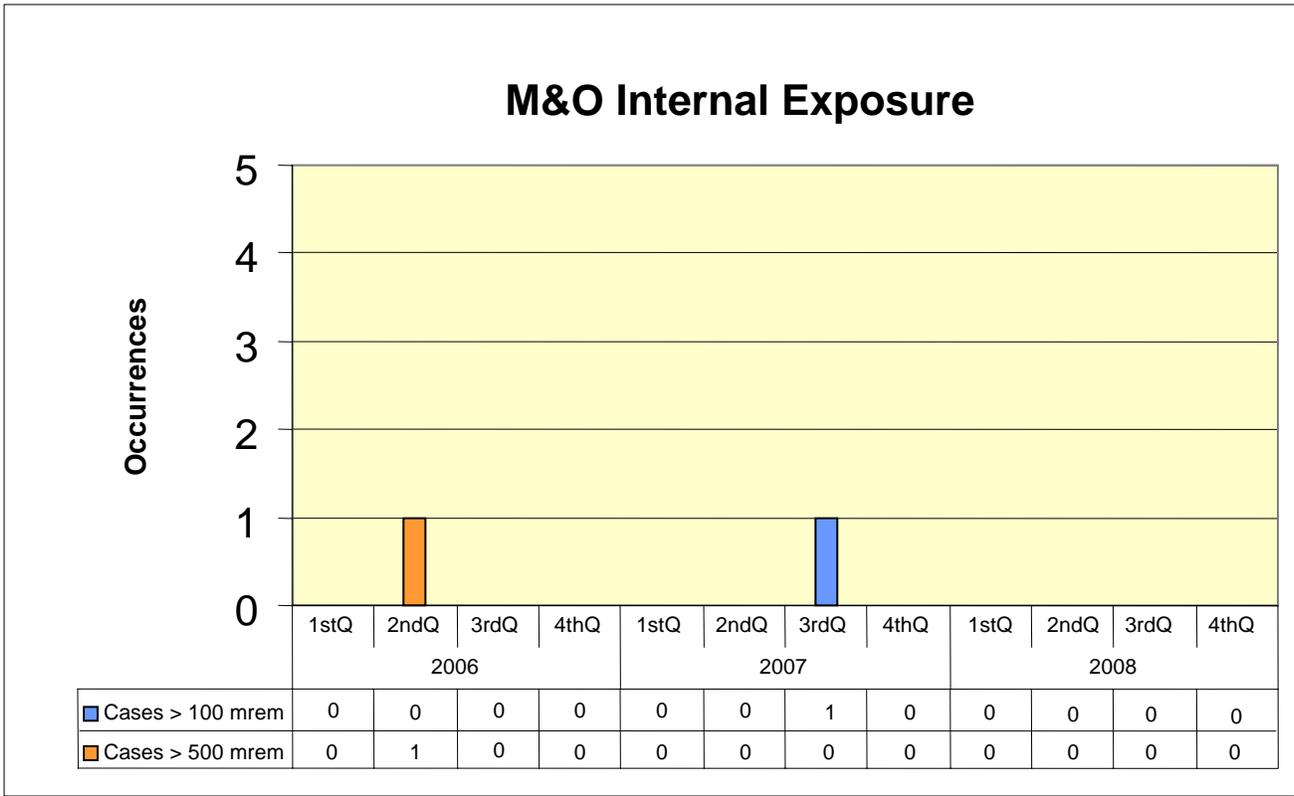


Table of Corresponding ORPS Reports

ORPS Number	Criteria	Date
1) EM-SR-WSRC-CLAB-2006-0004	6C	4/24/06
2) EM-SR-WSRC-SW&I-2008-NR01*	6C	3/6/08

* Dose identified in 1st Qtr. 2008 and assigned to 3rd Qtr. 2007

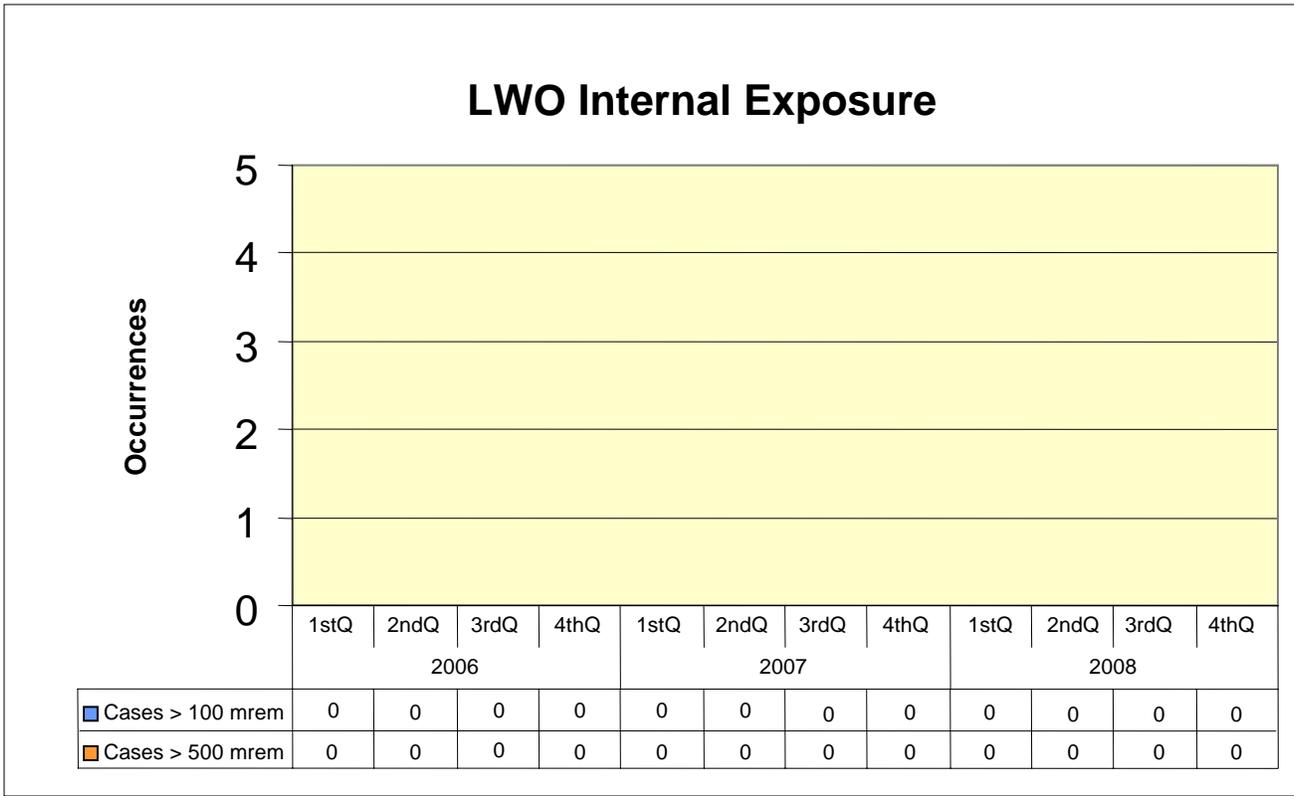


Table of Corresponding ORPS Reports

ORPS Number	Criteria	Date

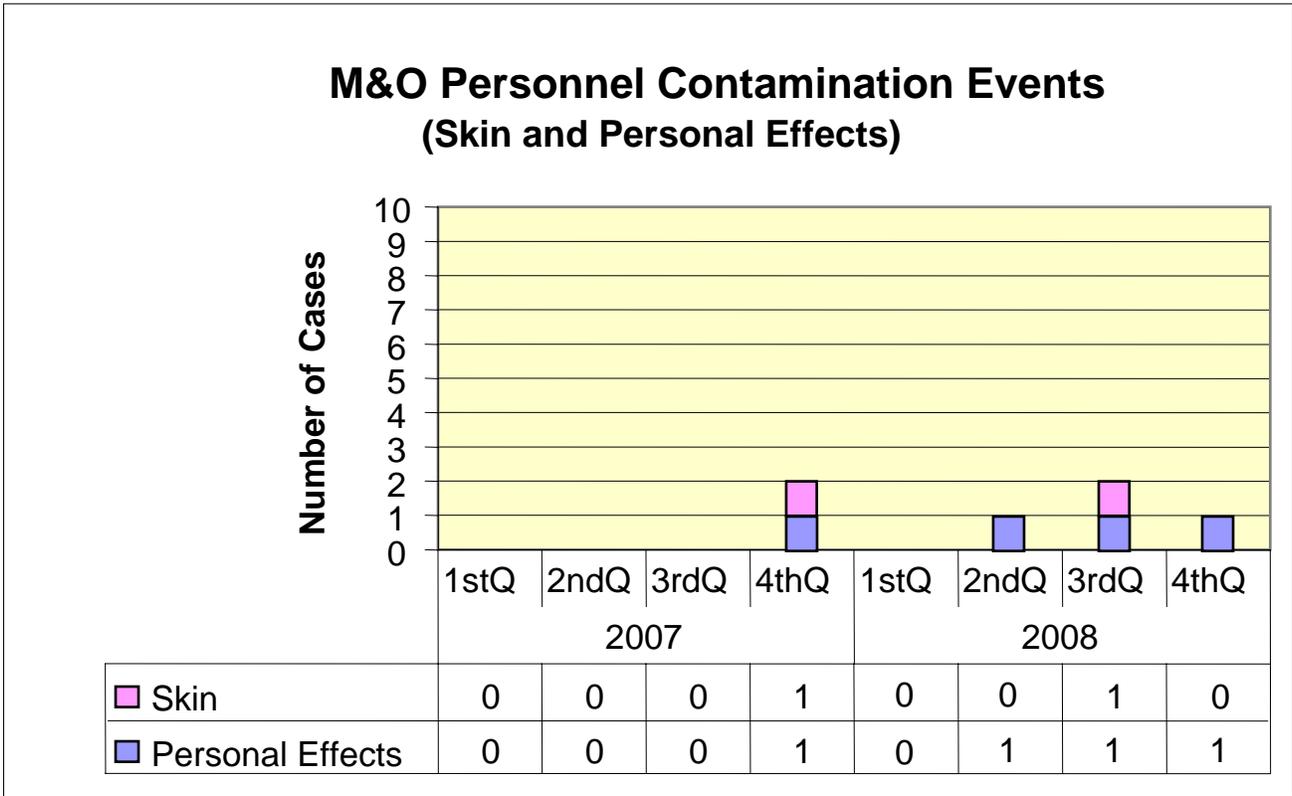


Table of Corresponding ORPS Event Reports*

	ORPS Number	Criteria	Date
1)	EM-SR-WSRC-LTA-2007-0004	6D3	11/30/07
2)	EM-SR-WSRC-SW&I-2007-0014 (2 cases)	6D3	12/1/07
3)	EM-SR-WSRC-LTA-2008-0001	6D3	4/21/08
4)	EM-SR-SRNS-SRNL-2008-0002 (2 cases)	6D3	9/5/08
5)	EM-SR-SRNL-CPWM-2008-0003	6D3	9/25/08
6)	EM-SR-SRNS-HBLINE-2008-0005	6D3	11/24/08

There were 10 non-ORPS reportable contamination events in FY2008 (Oct 07-Sept 08). There are 3 non-ORPS events in FY2009 (Oct-Dec)

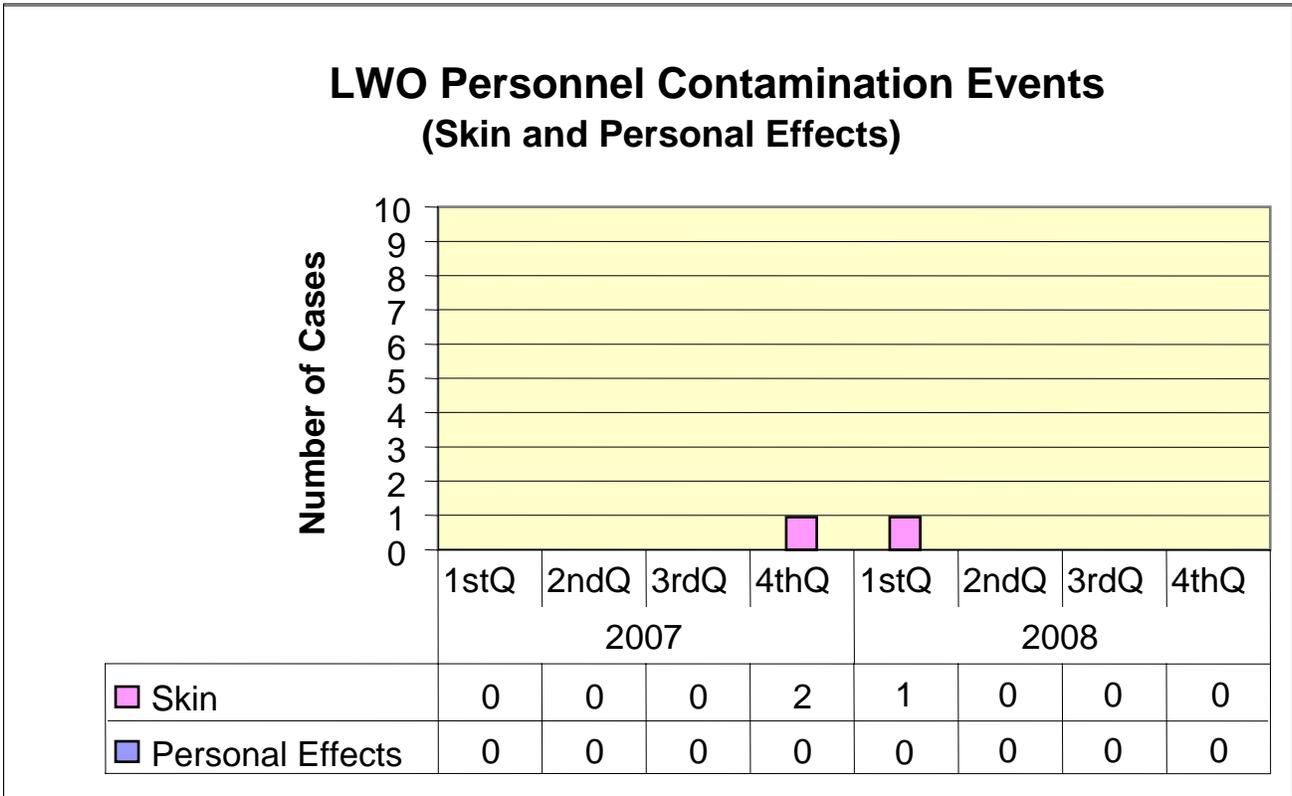


Table of Corresponding ORPS Event Reports*

	ORPS Number	Criteria	Date
1)	EM-SR-WSRC-HTANK-2007-0009 (2 cases)	6D3	12/22/07
2)	EM-SR-WSRC-WVIT-2008-0006	6D3	2/29/08

There were 4 non-ORPS reportable contamination events in FY2008 (Oct 07-Sep 08). There is 1 non ORPS event in FY2009 (Oct-Dec)