

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)	33	99	128
Maximum Individual (rem)	0.200	0.563	<1.000¹
Personnel Contamination Cases			8*
Skin	1	2	
Personal Effects	1	2	
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	7.22	0.50	8.615	18.54	5.30	12.00	31.00	4.44	2.00	2.00	90.895
Total Special Work Operations		0.35	5.50		3.650	25.345	0.50			1.60			36.945
1 st Quarter		0.025	1.5			10.055	0.25			0.40			12.230
2 nd Quarter		0.025	1.5		2.35	7.73	0.25			0.40			12.255
3 rd Quarter		0.075	1.1		1.2	1.98				0.40			4.755
4 th Quarter		0.225	1.4		0.10	5.58				0.40			7.705
Max. Individual Exposure Goal (mrem)	500*												
Personnel Contamination Events	8												
Personal Effects and Skin													

Notes:

- 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.
- WSI-Base Routine Operations is the total dose estimate from all facilities.

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.

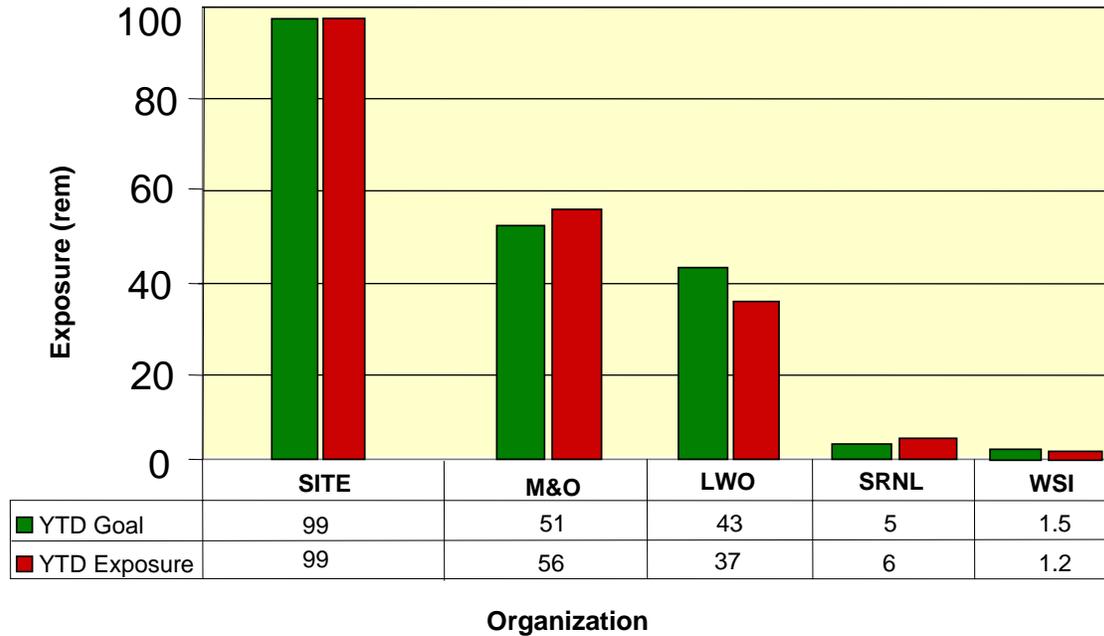
**M&O Maximum Whole Body
YTD Exposure CY08**

Project	Facility	Exposure TEDE (mrem)	ACL
Solid Waste	SWM	563	1000
SDD	SDD	494	1000
CLB	CLB	493	800
SDD	SDD	493	1000
Solid Waste	SWM	488	800
Solid Waste	SWM	469	1000
NMSP	K	466	1000
SDD	SDD	458	1000
Solid Waste	SWM	446	800
Solid Waste	SWM	442	800

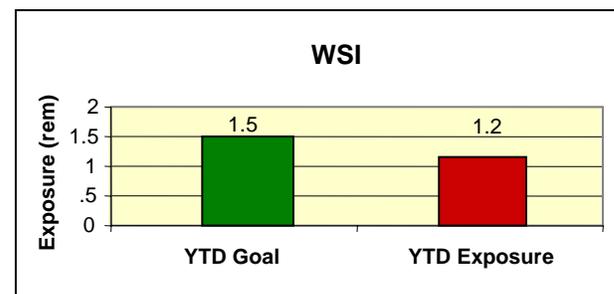
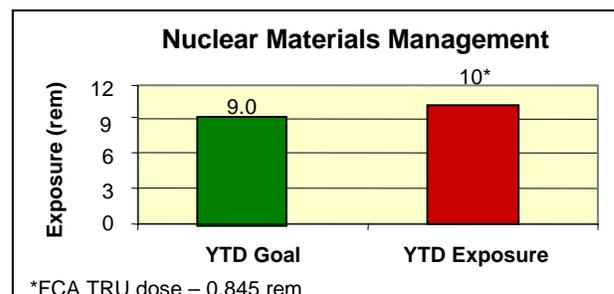
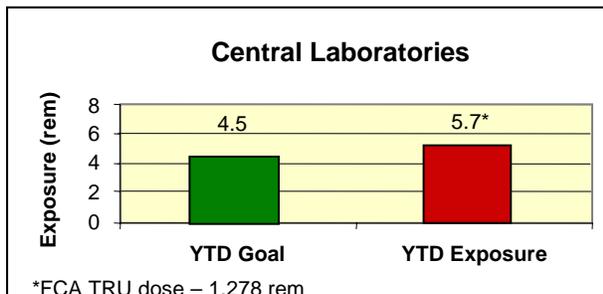
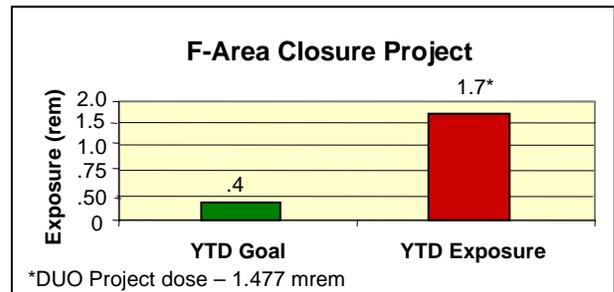
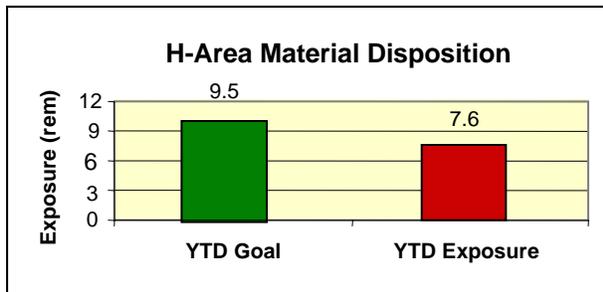
**LWO Maximum Whole Body
YTD Exposure CY08**

Project	Facility	Exposure TEDE (mrem)	ACL
Waste Solidification	Z-Area	388	500
Waste Solidification	Z-Area	363	500
Waste Solidification	Z-Area	330	500
Waste Solidification	Z-Area	299	500
Liquid Waste	HTF	289	500
Waste Solidification	Z-Area	265	500
Liquid Waste	HTF	261	500
Waste Solidification	Z-Area	258	500
Liquid Waste	HTF	257	500
Waste Solidification	DWPF	254	500

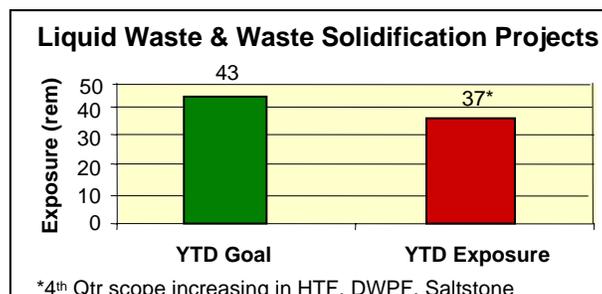
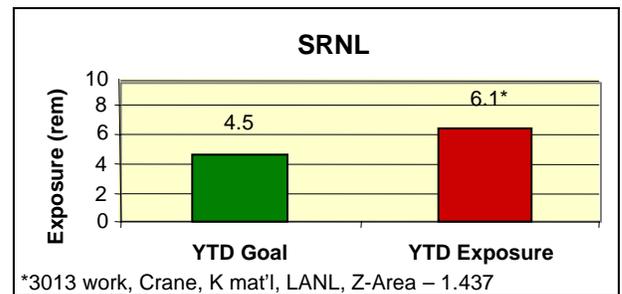
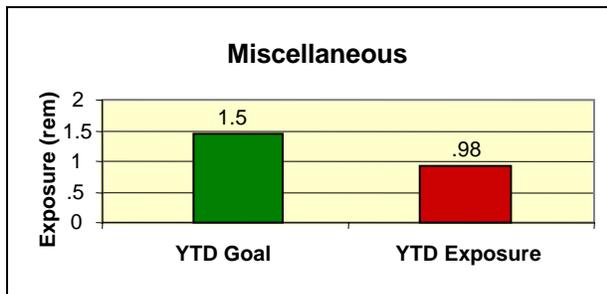
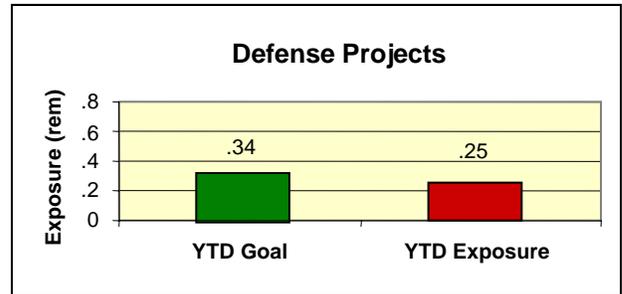
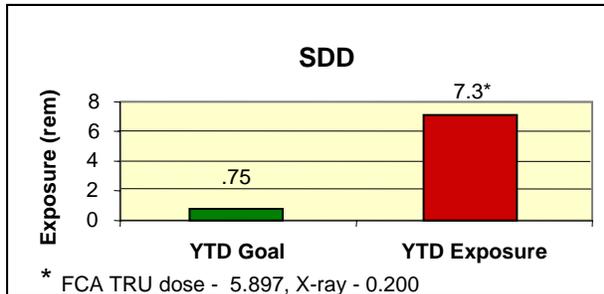
Site Cumulative Exposure vs. Goal (YTD)



YTD Cumulative Exposure vs. Goal by Facility



YTD Cumulative Exposure vs. Goal by Facility



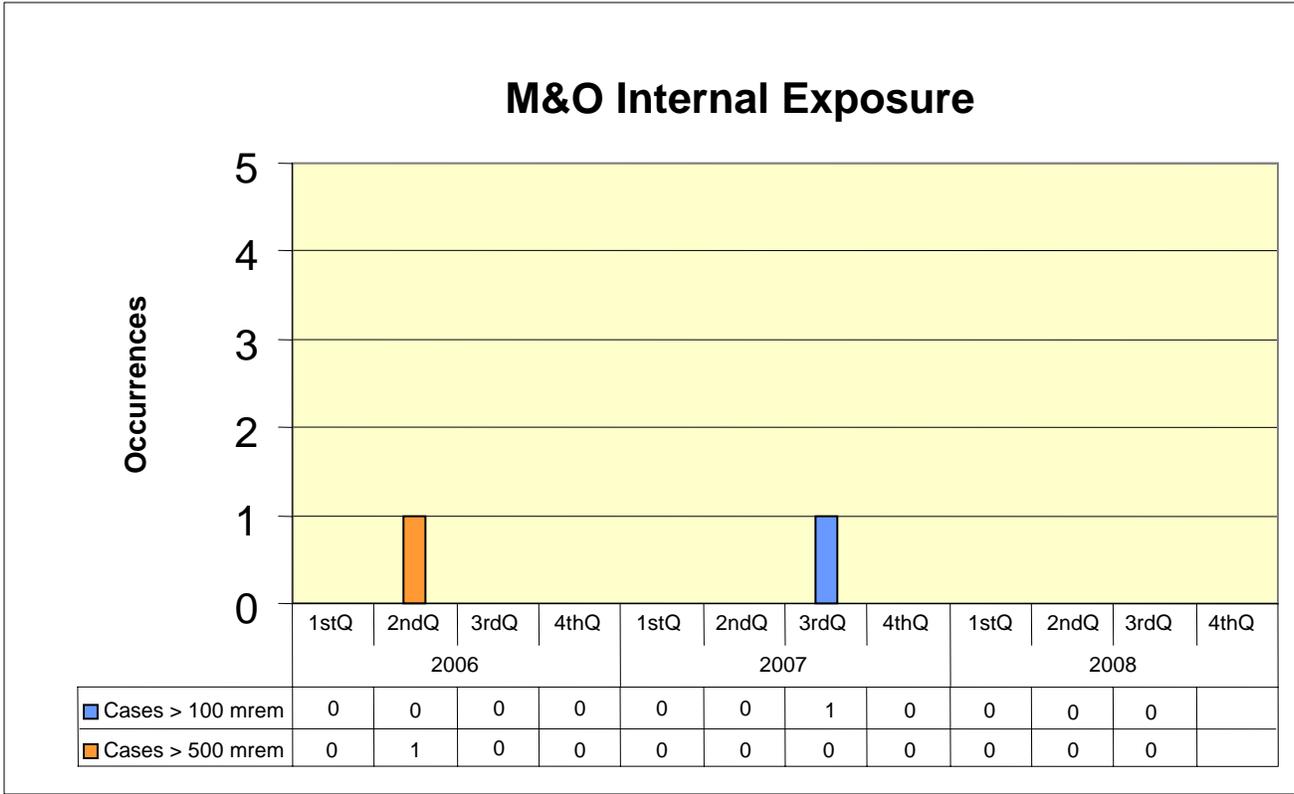


Table of Corresponding ORPS Reports

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

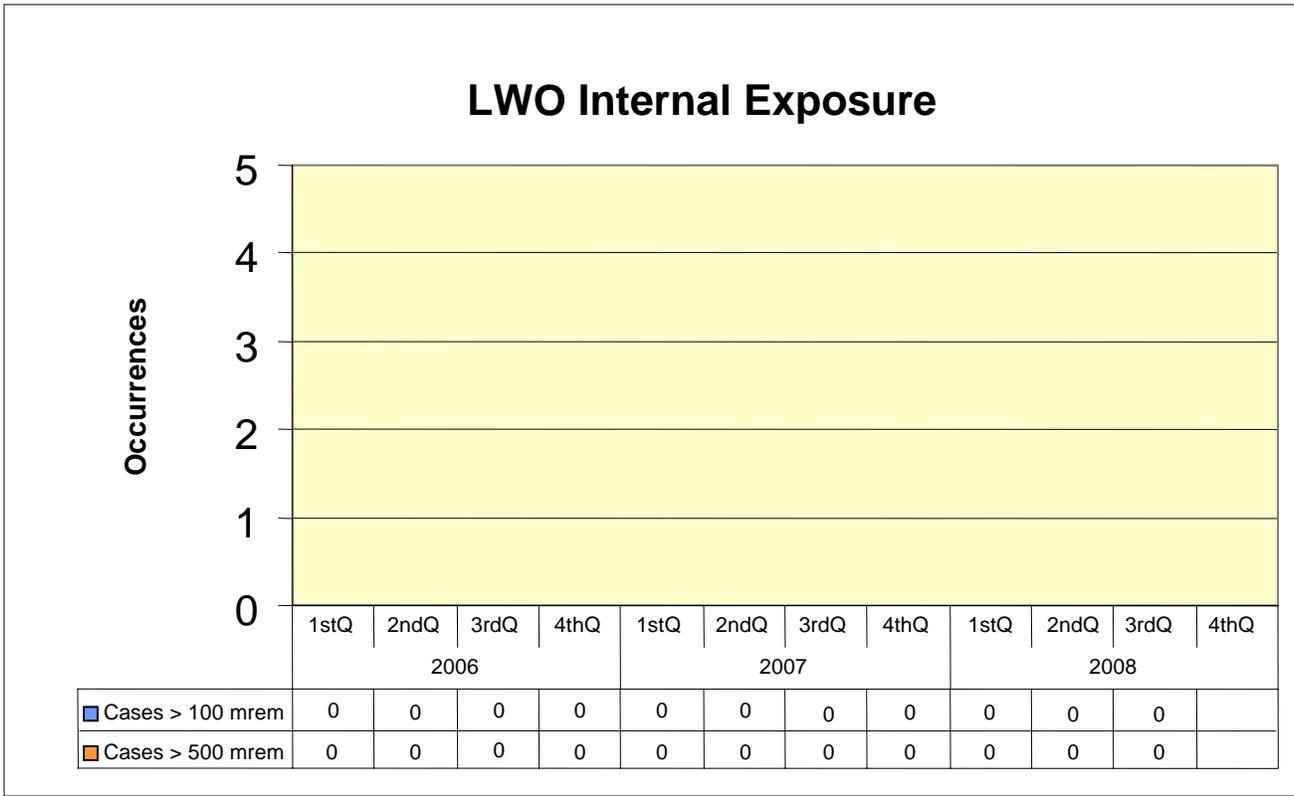


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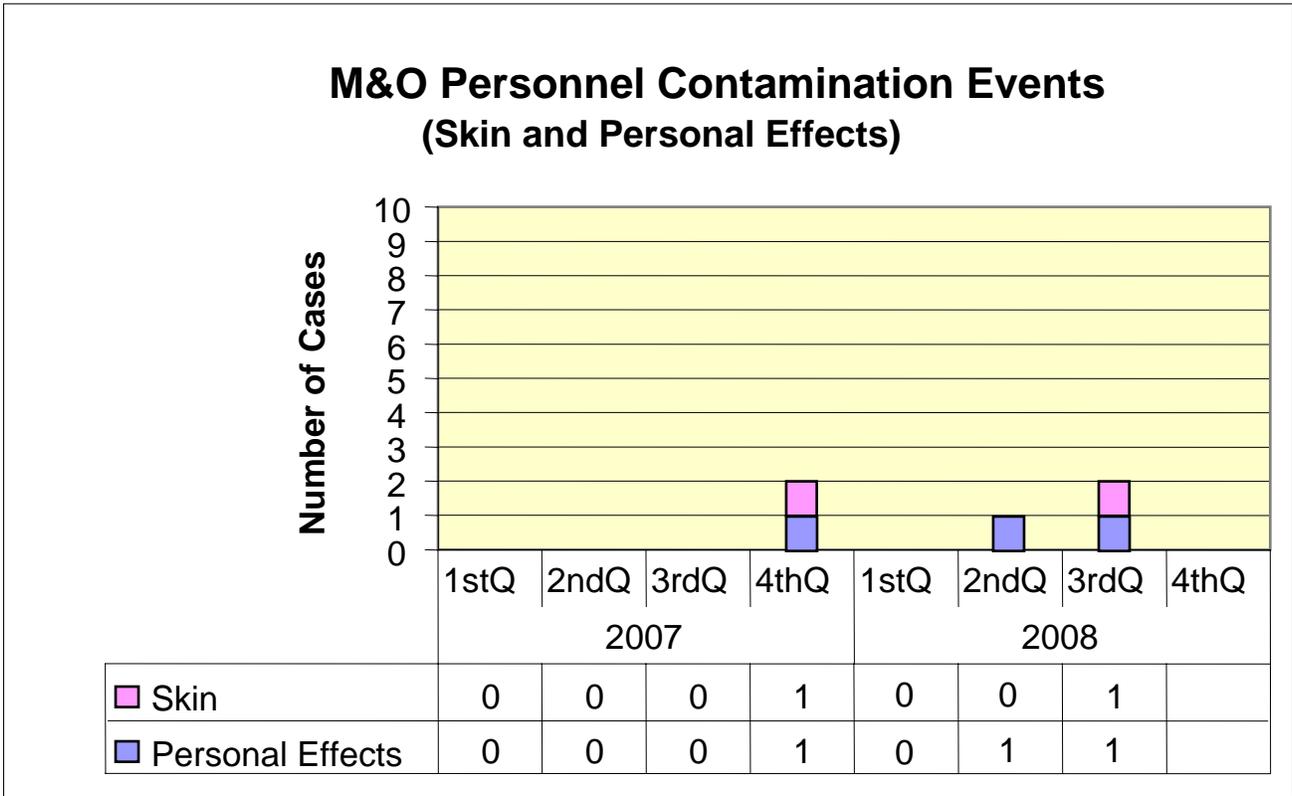


Table of Corresponding ORPS Reports*

	ORPS Number	Criteria	Date
1)	EM-SR-WSRC-LTA-2007-0004	6D3	11/30/07
2)	EM-SR-WSRC-SW&I-2007-0014	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

**There were 3 non-ORPS reportable contamination events in 2007. There are 9 non-ORPS reportable contamination events in 2008.*

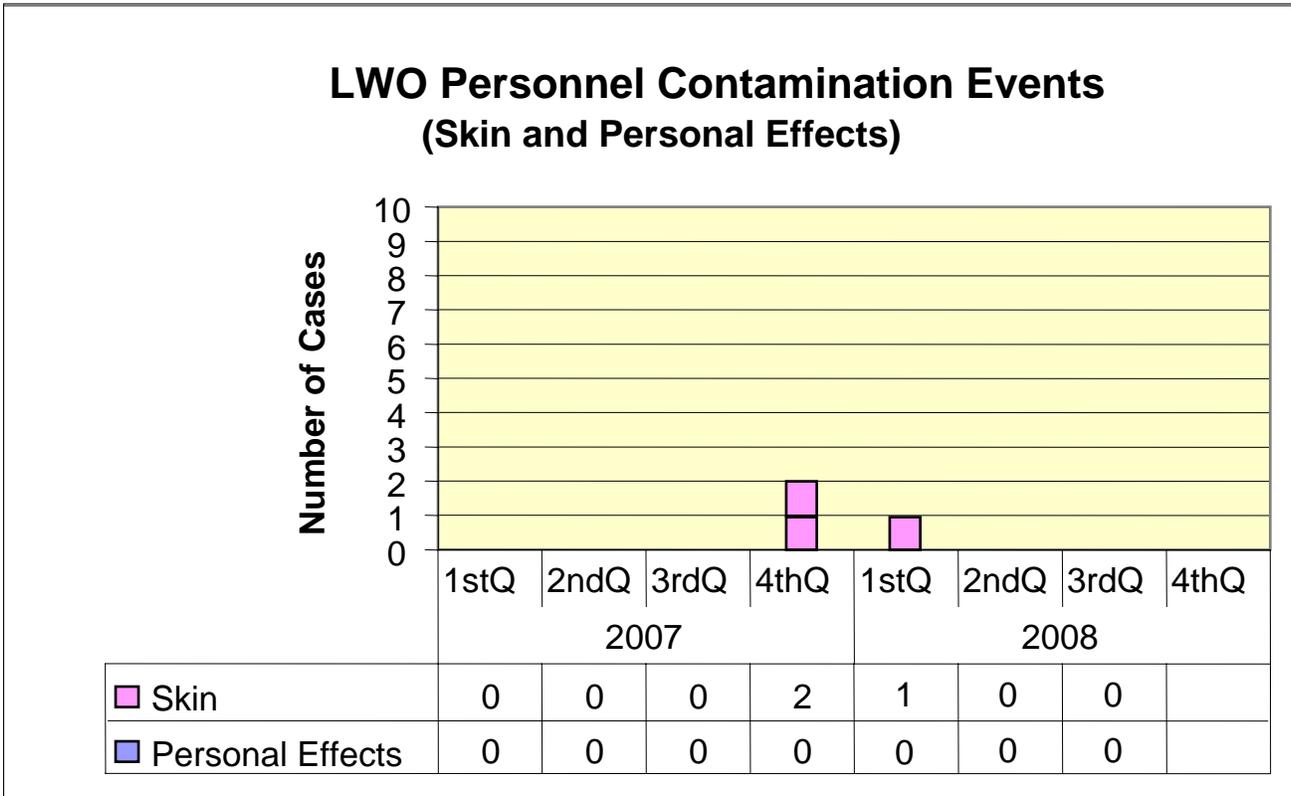


Table of Corresponding ORPS Reports*

	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 10 non-ORPS reportable contamination events in 2007. There are 3 non-ORPS reportable contamination events in 2008.*