

2010

**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)	34	69	142
Maximum Individual (rem)	0.301¹	0.336	<500
Personnel Contamination Events (per 200,000 RWP Man-hrs)			<3*
Skin	0	1	
Personal Effects	0	1	
Internal Exposure			
≥ 100 mrem CED	0	0	N/A
≥ 500 mrem CED	0	0	0

*FY Combined Skin + Personnel Effects. LWO is <1 per 70,000 RWP-hrs with no ORPS PE events.

¹LWO 1st Qtr Maximum Individual (rem) - 0.205; CY Actual - 0.339; CY Goal <500

2010 ALARA Goals

CY10 ALARA Goal Summary	Tritium Programs	H-Area Material Disposition (HBL/HCA)	F-Area Closure Project	Laboratories	Solid Waste	ACP & Miscellaneous (SGW/SDD/INF)	Nuclear Materials Storage Project (K & L)	SRNL	WSI	Waste Treatment	Facility Base Operations	SRS Total
Cumulative Exposure (rem)												
Base Routine Operations	0.320	4.550	0.650	5.500	28.000	2.400	14.400	8.680	1.000	17.700	19.814	103.014
Total Special Work Operations	0.180	5.825		0.400		0.600	0.500	0.600		0.300	30.820	39.225
1 st Quarter	0.050	1.330		0.400		0.150	0.050	0.500		0.200	10.580	13.260
2 nd Quarter	0.110	1.200				0.150	0.050	0.100			5.080	6.690
3 rd Quarter	0.010	1.695				0.150	0.050			0.100	6.880	8.885
4 th Quarter	0.010	1.600				0.150	0.350				8.280	10.390
Max. Individual Exposure Goal (mrem)	500											
Personnel Contamination Events Personal Effects and Skin	M&O: 3 Events per 200,000 RWP Man-hrs LWO: 1 Event per 70,000 RWP Man-hrs											

Notes:

- 1) DOE-SR ACL –150 mrem

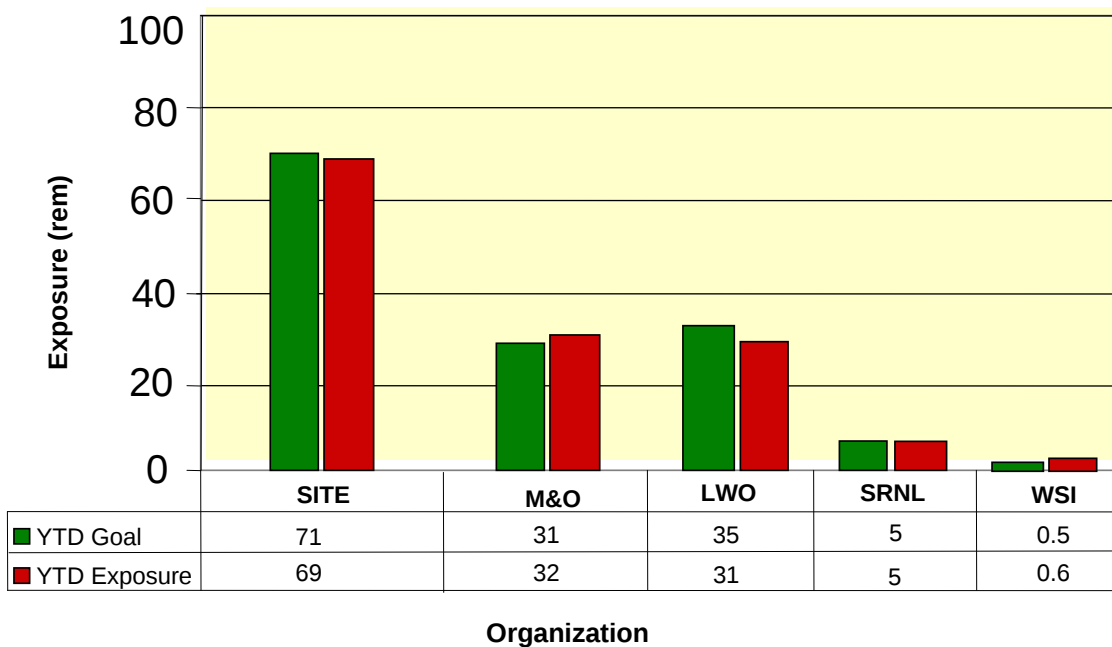
M&O Maximum Whole Body YTD Exposure CY10

Project	Facility	Exposure TED (mrem)	ACL
SRT	SRNL	336	500
SWM	SWBG	324	500
SWM	SWBG	239	500
SRT	SRNL	238	500
SWM	SWBG	238	500
SWM	SWBG	228	500
SWM	SWBG	225	500
SWM	SWBG	220	500
SRT	SRNL	218	500
SWM	SWBG	215	500

LWO Maximum Whole Body YTD Exposure CY10

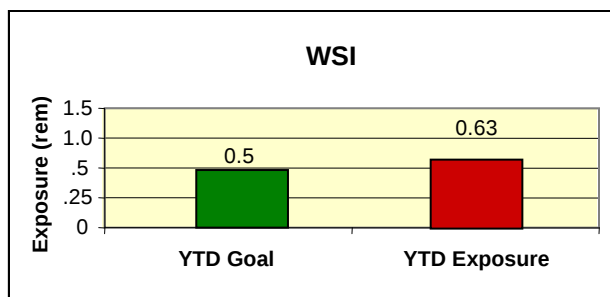
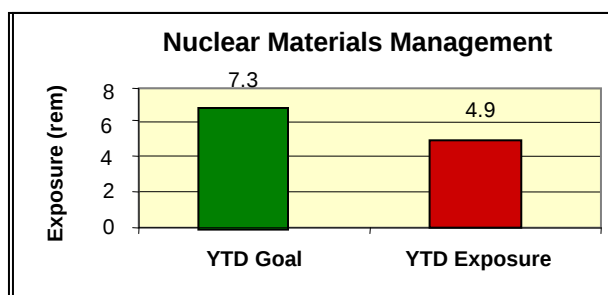
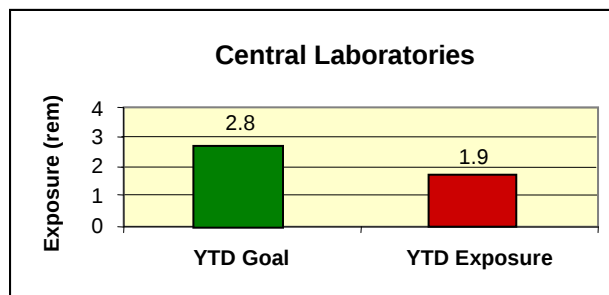
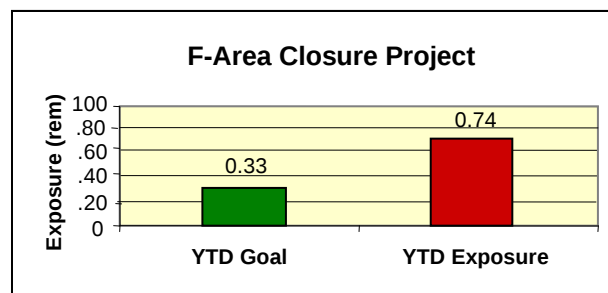
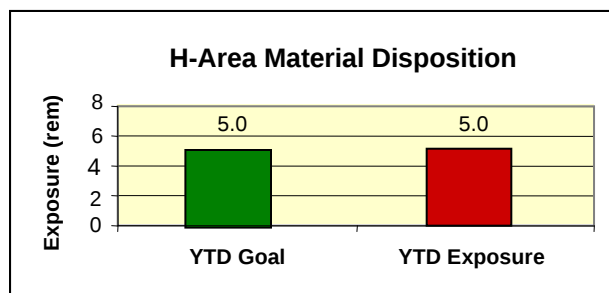
Project	Facility	Exposure TED (mrem)	ACL
Waste Treatment	Z-Area	339	500
Waste Treatment	Z-Area	291	500
Facility Base Ops.	FTF	272	500
Waste Treatment	Z-Area	246	500
Waste Treatment	Z-Area	234	500
Facility Base Ops.	HTF	228	500
Waste Treatment	Z-Area	225	500
Waste Treatment	Z-Area	218	500
Facility Base Ops.	HTF	212	500
Waste Treatment	Z-Area	210	500

Site Cumulative Exposure vs. Goal (YTD)

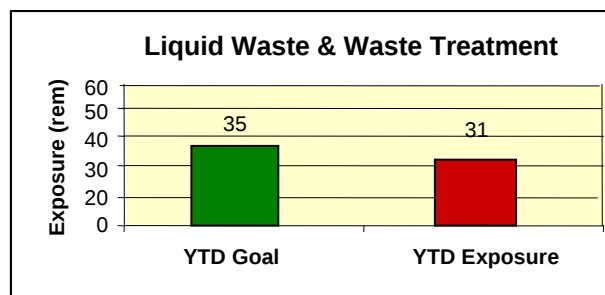
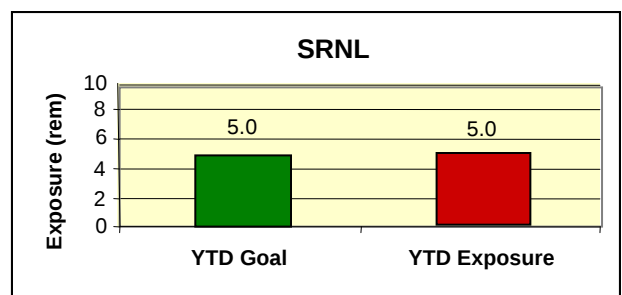
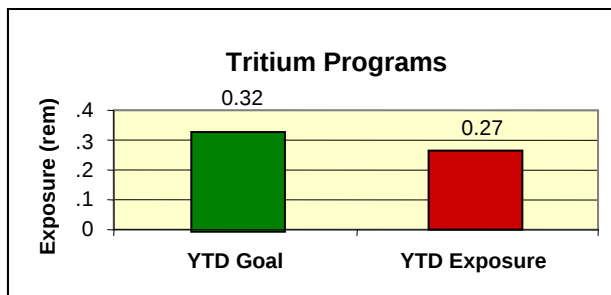
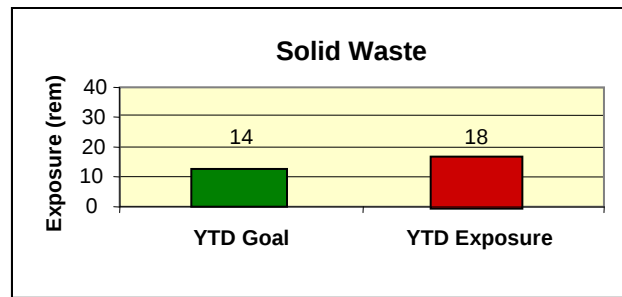
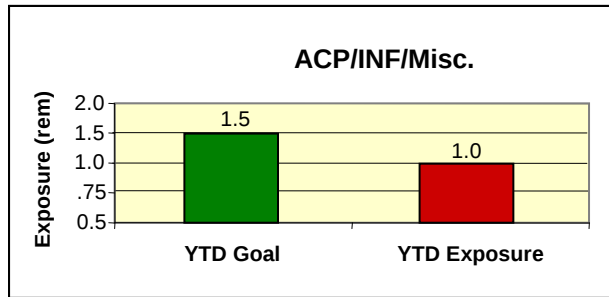


The YTD Goal or YTD Exposure is calculated by adding each quarter's estimated goal/dose for that qtr. and the previous qtr(s).

YTD Cumulative Exposure vs. Goal by Facility



YTD Cumulative Exposure vs. Goal by Facility



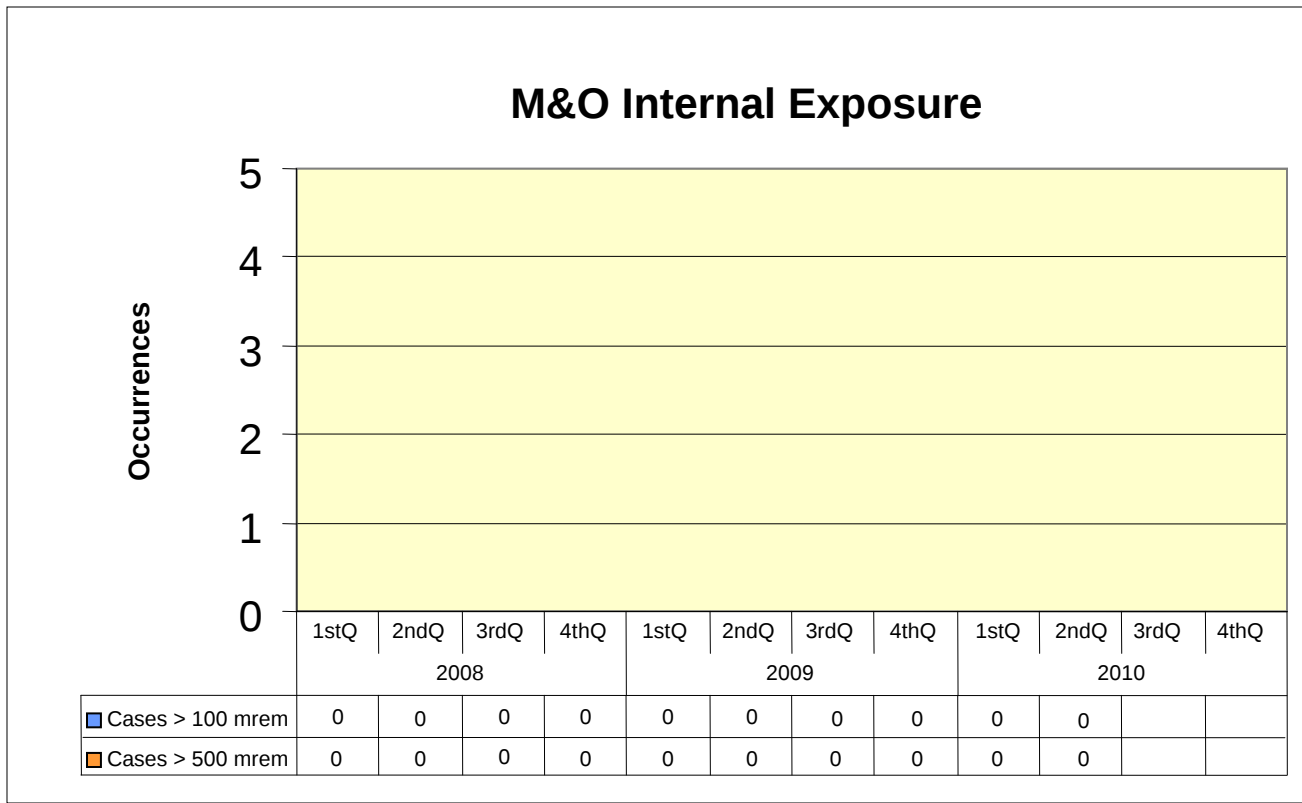


Table of Corresponding ORPS Reports		
ORPS Number	Criteria	Date
Historical Data: <100 mrem CED: 1/10 SRNL 33 mrem CED, >100 mrem CED: 7/07 FCA 241 mrem CED, >500 mrem CED: 11/05 SWM 1090 mrem CED.		

A puncture wound to the hand occurred on June 14, 2010 in FCA TRU Drum Remediation. An initial dose estimate is pending.

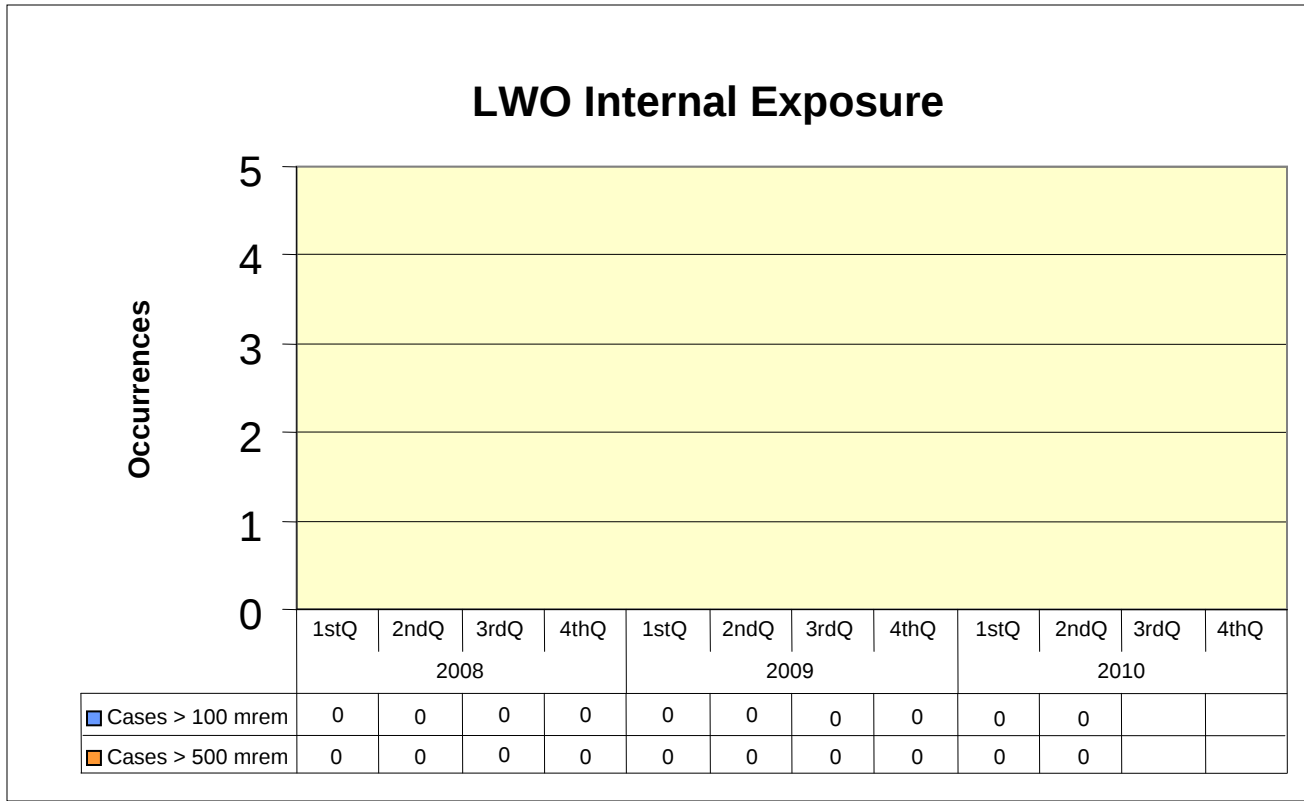
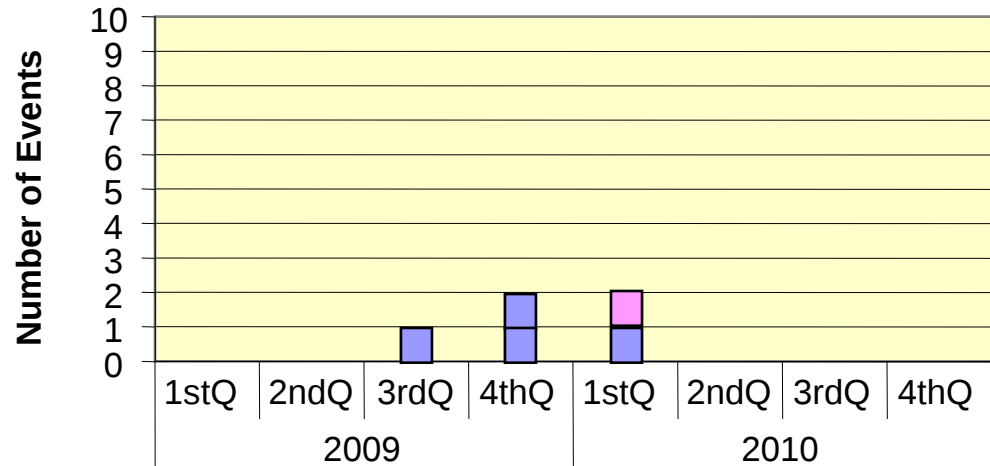


Table of Corresponding ORPS Reports		
ORPS Number	Criteria	Date
Historical Data: <100 mrem CED: 1/03 FTF 34 mrem CED, >100 mrem CED: 6/01 HTF 141 mrem CED, >500 mrem CED: None since 2000.		

M&O Personnel Contamination Events (Skin and Personal Effects)



■ Skin	0	0	0	0	1	0		
■ Personal Effects	0	0	1	2	1	0		

Table of Corresponding ORPS Event Reports*

ORPS Number	Criteria	Date
1) EM-SR-SRNS-HCAN-2009-0008	6D3	9/10/09
2) EM-SR-SRNS-CPWM-2009-0010	6D3	11/9/09
3) EM-SR-SRNS-SRNL-2009-0004	6D3	12/23/09
4) EM-SR-SRNS-ALABS-2010-0001	6D3	1/18/10
5) EM-SR-SRNS-SRNL-2010-0001	6D3	1/25/10

There were 9 non-ORPS events in FY2009 (Oct 08-Sept 09). There are 5 non-ORPS events in FY2010 (Oct 09- Jun 10).

LWO Personnel Contamination Events (Skin and Personal Effects)

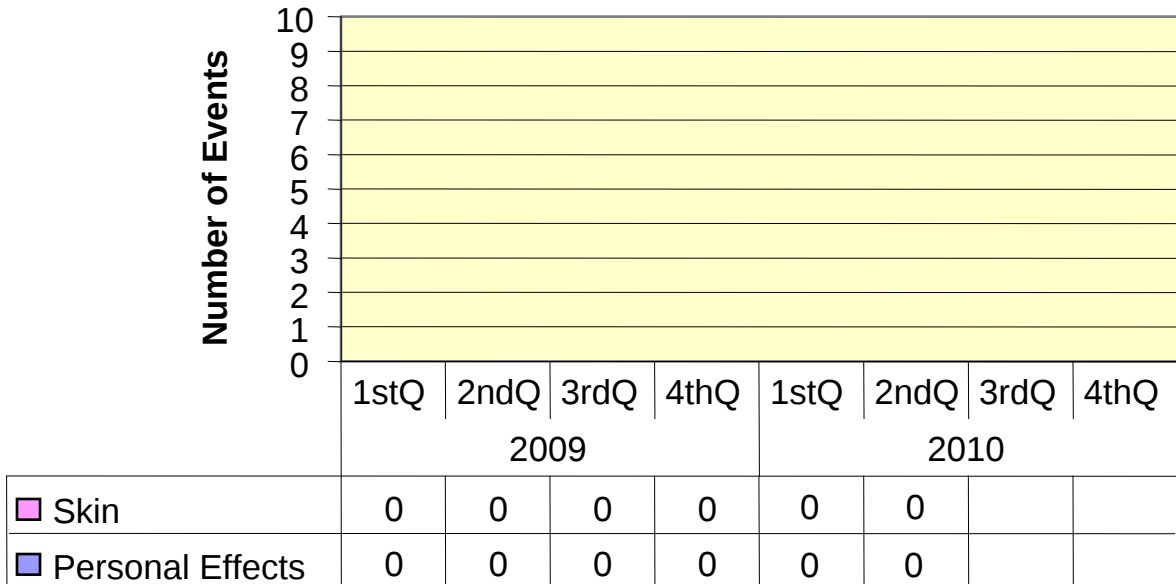


Table of Corresponding ORPS Event Reports*

ORPS Number	Criteria	Date
<i>There were 5 non ORPS events in FY2009 (Oct 08-Sept 09). There are 6 non ORPS events in FY2010 (Oct. 09- Jun 10).</i>		