

Summary Report of Occurrences Reviewed From June 28 – July 2, 2010

Summary: 29 occurrences at 15 sites reviewed during this period.

Occurrences of Significant Interest (1)

Internal Radiological Contamination / Uptake – 1 occurrence at 1 site

- EM – Idaho Cleanup Project (Significance Category 3).** On June 15, the radiological control manager for the Advanced Mixed Waste Treatment Project was notified that preliminary bioassay results for 15 employees were positive for internal contamination exposure; however, all sample results were below the required reporting levels under 10 CFR 835 Appendix D. On February 25, 2010, a work crew in Building WMF-636 Pad 1 was retrieving a severely degraded, non-reinforced, plywood waste box, which had been covered with dirt for more than 30 years. When the work crew exited for lunch, a radiological control technician pulled an air sample from a constant air monitor that indicated an elevated air sample of 4.6 Derived Air Concentration (DAC) for Alpha. Operations in WMF-636 were suspended and the building was evacuated. The highest air sample of 6.8 DAC was from the Pad R area. The source of the contamination was identified on Pad 1 at the box retrieval location. Alpha contamination in the area around the waste box ranged to 196, 000 dpm direct scan with 7,000 dpm removable. There were 56 employees in the building at the time of the event and all submitted bioassays. Only 15 had positive results, with the highest indicating an estimated dose of 84 mrem Committed Effective Dose (CED). The estimated dose for the majority of the employees was less than 30 mrem CED. Follow up bioassay samples will be used with the initial sample results to finalize the assigned CED.

Other Occurrences (28). See Table (Note: The Table includes the occurrences listed above).

Occurrence Category	Number of Occurrences				Number of Sites
	E&E	NNSA	SC	DOE Total	
Injury - Industrial Hygiene/Occupational Safety	0	4	2	6	5
Near Miss	0	0	2	2	1
Authorization Basis	2	3	0	5	4
Radiological Concerns	2	0	2	4	4
Environmental	0	2	1	3	2
Fire Safety	0	2	0	2	2
Shipping Quality Assurance	0	1	1	2	2
Criticality Concerns	0	0	0	0	0
Industrial Operations	0	0	0	0	0
Conduct of Operations / LOTO	1	0	0	1	1
Electrical Safety	0	1	2	3	3
Vehicle Accident	0	0	0	0	0
Equipment Failures	0	1	0	1	1
Safeguards and Security	0	0	0	0	0
Suspect & Counterfeit Parts	0	0	0	0	0
Other	0	0	0	0	0
Total	5	14	10	29	

ORPS Significance Categories	OE	SC1	SC2	SC3	SC4	R
Totals for the Week:	0	0	6	10	13	0

Secretarial Office Summary

National Nuclear Security Administration	14 occurrences	(6 sites)
Office of Environmental Management	5 occurrences	(4 sites)
Office of Science	10 occurrences	(5 sites)