

Summary Report of Occurrences Reviewed From January 10 – 14, 2011

Summary: 28 occurrences at 13 sites reviewed during this period.

Occurrences of Significant Interest (1)

Fire Safety – 1 occurrence at 1 site

- EM – Oak Ridge Operations (Significance Category 1).** On January 7, the TRU Waste Processing Center (TWPC) experienced a fire in a Hot Cell during 2nd shift process operations. The fire was limited to the filter medium of two metal framed 24” x 24” x 12” HEPA filters, which were on a work table in the Hot Cell. Both filters were covered with fire blankets as required by procedure at the time the fire started. The apparent cause of the fire was from sparks generated by size reduction activities on a ~3’ x 2’ x 2’ metal box that was also on the work table. A heavy-duty cut-off saw with a 14-inch general purpose cut-off wheel, held by a PaR Systems robotic arm, was being used. The preliminary cause identified during a critique was that during the size reduction activities sparks/hot slag found a path under or around the fire blankets and ignited the filter medium in one or both of the HEPA filters. Personnel activated the fire alarm pull box adjacent to the Hot Cell operating window and notified the TWPC Shift Duty Officer. All personnel exited the Process Building using normal exit procedures. Management notifications were made. A fire extinguishing agent “Metal-X” was applied to the filters. The Hot Cell was monitored by shift operations over January 8 and 9 to ensure that no further issues developed. A stack sample was taken on January 7. The stack sample results indicated no radiological releases to the environment. There were no injuries or damage to the Hot Cell equipment.

Other Occurrences (27). 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	2	2	1	5	5
Near Miss	0	0	1	1	1
Authorization Basis	2	1	0	3	2
Radiological Concerns	3	0	0	3	2
Environmental	0	1	1	2	2
Fire Safety	1	0	0	1	1
Shipping Quality Assurance	0	1	0	1	1
Criticality Concerns	0	0	0	0	0
Industrial Operations	0	0	0	0	0
Conduct of Operations / LOTO	3	0	0	3	3
Electrical Safety	1	2	0	3	3
Vehicle Accident	0	0	0	0	0
Equipment Failures	2	0	0	2	1
Safeguards and Security	0	0	0	0	0
Suspect & Counterfeit Parts	4	0	0	4	1
Other	0	0	0	0	0

Total	18	7	3	28	
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ORPS Significance Categories	OE	SC1	SC2	SC3	SC4	R
Totals for the Week:	0	1	3	14	10	0

Secretarial Office Summary

National Nuclear Security Administration	7 occurrences	(4 sites)
Office of Environmental Management	15 occurrences	(6 sites)
Office of Nuclear Energy	3 occurrences	(1 site)
Office of Science	3 occurrences	(2 sites)