

Summary Report of Occurrences Reviewed

From January 8 – 12, 2007

Summary: 32 occurrences at 18 sites reviewed during this period.

Significant Occurrences (5)

Radiological Uptake/Injury – 1 occurrence at 1 site

- **Los Alamos National Laboratory (Significance Category 3).** On January 9, 2007, a metallographic glovebox worker sustained a puncture wound to the left index finger caused by a screwdriver while working inside a glove box. The worker was found to have a positive wound count. Excising and chelation were performed as a precautionary treatment. Isotopic analysis of the worker's surgical glove identified the isotope as plutonium-239. Air sample filter results are pending.

Industrial Hygiene Exposure – 2 occurrences at 2 sites

- **SC – Argonne National Laboratory-East (Significance Category 2).** On January 3, 2007, two subcontractor employees and five firefighters were evaluated for chemical exposure when the structural integrity of an indoor thermometer was compromised. Spectrometer readings indicated the irritant was 4-Methyl anisole. Two firefighters exhibited minor symptoms but did not require treatment. Both subcontractors were treated at an offsite hospital and given oxygen. Blood and urine samples were taken from all potentially exposed employees.
- **EM – River Protection Project Waste Treatment Plant (Significance Category 4).** On December 20, 2006, a welder was stick-welding a stainless steel support to a carbon steel plate was potentially exposed to hexavalent chromium exceeding the Permissible Exposure Limit (PEL). Air samples from that day measured 53 micrograms/cubic meter ($\mu\text{g}/\text{m}^3$). The protection factor of the half-face respirator the employee was wearing yielded a calculated potential exposure of $5.3 \mu\text{g}/\text{m}^3$, exceeding the OSHA PEL of $5 \mu\text{g}/\text{m}^3$.

Near Misses – 1 occurrence at 1 site

- **Portsmouth Gaseous Diffusion Plant (Significance Category 3).** On January 10, 2007, an employee's right leg entered a hidden manhole to above his knee while walking along a grassy area when the ground unexpectedly collapsed. The employee was not injured. The wood covering the 2 foot diameter by 15 feet deep manhole had deteriorated over time. The manhole was covered with a one-inch steel plate and steel fencing was installed around the steel plate.

Environmental Compliance – 1 occurrence at 1 site

- **Y-12 Site (Significance Category 4).** On January 2, 2007, the State of Tennessee Department of Environment and Conservation issued a Notice of Violation to the Y-12 National Security Complex following a November 2006 inspection that found a universal waste container within Building 9616-6 had exceeded its one year storage limit. The container was relocated.

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	1	3	6	6
Near Miss	2	1	0	3	3
Authorization Basis	1	2	1	4	4
Radiological Concerns	5	1	0	6	6
Environmental	0	1	0	1	1
Fire Safety	1	2	0	3	3
Shipping/Quality Assurance	0	0	0	0	0
Criticality Safety	0	0	0	0	0
Industrial Operations	0	0	0	0	0
Conduct of Operations	0	1	0	1	1
Electrical Safety	0	1	0	1	1
Lockout/Tagout – Electrical	0	2	0	2	1
Equipment Failures	0	1	1	2	2
Suspect & Counterfeit Parts	1	2	0	3	3
Total	12	15	5	32	

Secretarial Office Summary

National Nuclear Security Administration	15 occurrences	(7 sites)
Office of Environmental Management	9 occurrences	(8 sites)
Office of Science	5 occurrences	(3 sites)
Office of Nuclear Energy	2 occurrences	(1 site)
Office of Civilian Radioactive Waste Management	1 occurrence	(1 site)