

## **Summary Report of Occurrences Reviewed From December 17 – 21, 2007**

**Summary:** 32 occurrences at 16 sites reviewed during this period.

### **Significant Occurrences (6)**

#### **Near Misses – 1 occurrence at 1 site**

- **NA – Kansas City Plant (Significance Category 3).** On December 19, a Honeywell Federal Manufacturing & Technologies Kansas City Physical Security Lieutenant experienced a near miss when an armor-piercing bullet bounced back and struck the scope of the rifle he had fired. The Security Lieutenant was firing a Springfield Armories M1A rifle at a steel target at an offsite firing range to test different types of targets with .308 armor-piercing ammunition. The shooting activity was stopped. No injuries were reported as a result of this incident.

#### **Industrial Hygiene Exposure – 3 occurrences at 3 sites**

- **SC – Brookhaven National Laboratory (Significance Category 3).** On December 11, it was learned that, since September 14, 2007, four entries had been made into a Medical Resonance Imaging (MRI) facility and each entry exceeded a 24-minute DOE exemption exposure limit of 200 mTesla (T) for an 8-hour Time Weighted Average in a 4T static magnetic field. Three of the entries were by the same individual. The MRI staff has been directed not to perform any maintenance or calibration activities that could cause them to exceed the American Conference of Governmental Industrial Hygienists whole body TLVs of 60 mT (8 hour TWA) or 2T (ceiling limit). In order to comply with these limits, no whole body entry by the MRI staff will be allowed into the bore of the 4T magnet.
- **NA – Los Alamos Site (Significance Category 3).** On December 7, while removing roofing materials, a roofing subcontractor did not have asbestos mitigation controls in place such that workers could have been exposed to asbestos above 29 CFR Part 1910 limits. Removal of the tear off work was suspended to determine if asbestos was present in the removed roofing material. An industrial hygienist determined that asbestos exposure above limits was not likely. The subcontractor was also cited for not following OSHA regulations. Roofers were not wearing appropriate fall protection and working in close proximity to the edge of the roof. The crane operator did not have a current operator's license and the crane did not have an annual inspection tag, and an electrical source was not properly locked and tagged out.
- **NA – Lawrence Livermore National Laboratory (Significance Category 3).** On December 14, Facility Management determined beryllium contamination may have been present in the ducting that was handled in Building 511 and Building 391. The potential for contamination was not discovered until the ducting was returned to Building 695. Room 1025 of Building 695 was immediately posted as a Beryllium Work Area and personnel associated with the work conducted in Buildings 391 and 511 were notified. In addition, staff that performed maintenance activities in Room 1025 were also notified. Swipes of the work areas and floor in Buildings 391 and 511 were taken and a critique was performed.

#### **Radiological Control / Internal Exposure – 1 occurrence at 1 site**

- **NA – Los Alamos National Laboratory (Significance Category 3).** On December 14, three workers were cutting sections of copper piping for waste segregation and waste packaging in

Room 4121 of the Chemical and Metallurgical Research Facility without wearing respiratory protection. After the workers left the room to retrieve tools, a continuous air monitor (CAM) alarmed. Nasal swabs taken from the three workers were positive for uranium-234 and they were issued bioassay kits to provide further analysis for a final dose assessment. Analysis of the CAM filter showed 5.3 DAC-h for U-234. Work was stopped on the job pending Radiological Operations review.

**Safeguards & Security – 1 occurrence at 1 site**

- ***SC – Fermi National Accelerator Laboratory (Significance Category 4).*** On December 12, the Nuclear Regulatory Commission (NRC) notified Fermilab that several large hollow cylindrical copper pieces had been received at a scrap metal recycling facility that were slightly radioactive. The maximum dose rate was measured to be 0.7 mR/h at contact. The radionuclides found in this material were Co-60, Co-58 and Co-57. Photographs showed that the copper was similar in form to material recently removed from the Fermilab Main Injector during the summer 2007 shutdown. Fermilab is working with the NRC and the Illinois Emergency Management Agency to take possession of the material. An investigation team has been chartered to verify that the stolen copper originated from Fermilab.

**Other Occurrences (26).** 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	5	2	7	6
Near Miss	0	1	0	1	1
Authorization Basis	5	1	0	6	3
Radiological Concerns	0	2	1	3	3
Environmental	0	0	0	0	0
Fire Safety	0	0	0	0	0
Shipping/Quality Assurance	0	0	0	0	0
Criticality Concerns	0	0	0	0	0
Industrial Operations	0	0	0	0	0
Conduct of Operations	4	2	0	6	5
Electrical Safety	1	0	1	2	2
Vehicle Accident	0	0	0	0	0
Equipment Failures	0	4	0	4	3
Safeguards and Security	0	0	1	1	0
Suspect & Counterfeit Parts	1	1	0	2	2
Other	0	0	0	0	0
<b>Total</b>	<b>11</b>	<b>16</b>	<b>5</b>	<b>32</b>	

**Secretarial Office Summary**

National Nuclear Security Administration	16 occurrences	(6 sites)
Office of Environmental Management	9 occurrences	(5 sites)
Office of Nuclear Energy, Science and Technology	2 occurrences	(1 site)
Office of Science	5 occurrence	(4 sites)