

## Summary Report of Occurrences Reviewed From October 13 – 17, 2008

**Summary:** 23 occurrences at 16 sites reviewed during this period.

### Significant Occurrences (3)

#### **Injury – 1 occurrence at 1 site**

- **NA – Sandia National Laboratories (Significance Category 3).** On October 9, while preparing a test in which two small thermal batteries were to be placed on a monorail sled along with a HiCapPen hardened data recorder, the Super Zuni rocket motor ignited prematurely, injuring one contractor and three employees. The contractor was taken to the hospital with a broken leg and burns to the hands and arms. The three employees reported ringing in the ears from the sound of the rocket; two went to the hospital but the other declined; all were checked by Medical the following day. The Sled Track area was secured.

#### **Radiological Exposure – 1 occurrence at 1 site**

- **SC – Fermi National Accelerator Laboratory (Significance Category 3).** On October 6, 2008, while constructing a cinder block wall underground in the Neutrino at the Main Injector (NuMI) Absorber area, two masonry contractors mistakenly used water from a return line for the Decay Pipe RAW system instead of from the domestic water source as discussed in the pre-job planning meeting. The masons used about 8 gallons of water from the Decay Pipe RAW system which is contaminated with tritium. A 24-hour tritium urinalysis sample collection for both masonry contractors was initiated on October 7, 2008. The preliminary bioassay results on the mason and laborer are considered insignificant and indicate a committed effective dose on the order of 0.01 mrem. A split sample is now being analyzed to confirm the initial results.

#### **Fire Protection & Explosive Safety – 1 occurrence at 1 site**

- **AC – Brookhaven National Laboratory (Significance Category OE).** On October 13, an explosion occurred at drinking water pump station number 12 (building 347) on the Brookhaven National Laboratory property. No one was injured in the event; however, the building (34-by-20 foot, 680-square foot concrete block) sustained substantial damage estimated to be below \$300K. No evacuation of Lab facilities or employees was necessary. The cause of the explosion is being investigated by BNL and a DOE Brookhaven Site Office representative. It is believed that a propane gas leak caused gas to build up and a spark from other pumping equipment may have caused that gas to explode.

**Other Occurrences (20).** 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 | 1                     | 3    | 0  | 4         | 3               |
| Near Miss                                       | 0                     | 0    | 0  | 0         | 0               |
| Authorization Basis                             | 4                     | 1    | 0  | 5         | 5               |
| Radiological Concerns                           | 0                     | 0    | 1  | 1         | 0               |

| Occurrence Category         | Number of Occurrences |          |          |           | Number of Sites |
|-----------------------------|-----------------------|----------|----------|-----------|-----------------|
|                             | E&E                   | NNSA     | SC       | DOE Total |                 |
| Environmental               | 0                     | 1        | 0        | 1         | 1               |
| Fire Safety                 | 1                     | 0        | 2        | 3         | 3               |
| Shipping/Quality Assurance  | 0                     | 0        | 0        | 0         | 0               |
| Criticality Concerns        | 0                     | 1        | 0        | 1         | 1               |
| Industrial Operations       | 0                     | 0        | 0        | 0         | 0               |
| Conduct of Operations       | 5                     | 1        | 1        | 7         | 5               |
| Electrical Safety           | 0                     | 1        | 0        | 1         | 1               |
| Vehicle Accident            | 0                     | 0        | 0        | 0         | 0               |
| Equipment Failures          | 0                     | 0        | 0        | 0         | 0               |
| Safeguards and Security     | 0                     | 0        | 0        | 0         | 0               |
| Suspect & Counterfeit Parts | 0                     | 0        | 0        | 0         | 0               |
| Other                       | 0                     | 0        | 0        | 0         | 0               |
| <b>Total</b>                | <b>11</b>             | <b>8</b> | <b>4</b> | <b>23</b> |                 |

### Secretarial Office Summary

|  |                |           |
|--|----------------|-----------|
| National Nuclear Security Administration | 8 occurrences  | (4 sites) |
| Office of Environmental Management       | 10 occurrences | (7 sites) |
| Office of Nuclear Energy                 | 1 occurrence   | (1 site)  |
| Office of Science                        | 4 occurrences  | (4 sites) |