

Summary Report of Occurrences Reviewed From August 27 – 31, 2007

Summary: 30 occurrences at 16 sites reviewed during this period.

Significant Occurrences (7)

Vehicle Accident/Injuries – 1 occurrence at 1 site

- **NE – Idaho National Laboratory (Significance Category 3).** On August 29, 2007, an INL employee driving a government owned vehicle on Highway 20 collided with a privately owned vehicle, causing injury to both drivers. Both drivers were transported to Eastern Idaho Regional Medical Center for medical evaluation and treatment. The INL employee sustained bone fractures. Investigation into this accident will continue by local law enforcement officials and INL management.

Near Misses – 1 occurrence at 1 site

- **EM– Hanford Site (Significance Category 3).** On August 23, 2007, a piece of shattered glass struck a truck driver in the right eye after the mobile truck crane load block came into contact with the window frame of the driver's cab, breaking the driver's side window and windshield. The driver was sent to the Hanford Medical Facility for evaluation and released without restrictions. Work was stopped and the crane was tagged out of service.

Radiological External Exposure – 1 occurrence at 1 site

- **NA – Y-12 Site (Significance Category 3).** On July 20, 2007, during routine thermoluminescent dosimeter (TLD) processing, 563 millirem (mrem) deep dose equivalent was detected from the TLD assigned to an electrician working in Building 9212. The electrician was interviewed and could not recall any non-occupational sources of exposure. Field investigation activities to date have no anomalies. The third quarter TLD for the electrician has now been read and the result was zero mrem indicating no on-going source of exposure. An investigation is continuing.

Radiological Control – 1 occurrence at 1 site

- **NA – Los Alamos National Laboratory (Significance Category 2).** On August 28, 2007, subcontractors conducting a radiological survey in Bayo Canyon discovered an area containing 1 million dpm beta-gamma and 12,000 dpm alpha contamination. The area was cordoned off and posted as a Radiological Control Area. The hands and feet of the field workers were surveyed and no contamination was found. LANL is currently performing a detailed surface radiological and shrapnel survey in accordance with a 2005 New Mexico Environment Department Consent Order. The contaminated soils will be excavated and stored in a controlled area.

Authorization Basis – 1 occurrence at 1 site

- **EM – Hanford Site (Significance Category 3).** On August 23, 2007, during a review of past 241-S-102 waste retrieval operations, it was discovered that on several occasions, waste disturbances from the dilution water flow and air sparging provided evidence of a potential waste leak accident scenario that is currently not considered in the safety basis. This postulated waste leak accident scenario is judged to have the potential for significant impact

to workers, the public, or the environment. Operational restrictions have been issued, and a Potentially Inadequate Safety Analysis was declared.

Fire Safety – 1 occurrence at 1 site

- ***NA – Lawrence Livermore National Laboratory (Significance Category 4).*** On August 26, 2007, local and onsite firefighters responded to a wild land fire that erupted at LLNL, Site 300, south of the Building 832 complex. The fire burned approximately 25 to 40 acres of grass before it was contained. There were no injuries, no power loss, and no threat to facilities. Minor damage to above ground aeration misting heads attached to PVC pipes was noted. Preliminary investigation reveals the probable cause to be lightning striking a power pole. Further investigation is underway.

Equipment Failures – 1 occurrence at 1 site

- ***NA – Lawrence Livermore National Laboratory (Significance Category OE).*** On August 29, 2007, an operational emergency was declared due to a partial power outage. The outage occurred when a control power transformer at a utility station west of Building 153 (LGS-15) overheated and failed. Approximately 107 buildings and trailers were affected by the outage. The Fire Department responded and extinguished the smoke, and employees in affected buildings were released from work. There were no injuries.

Other Occurrences (23). 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 | 3 | 2 | 0 | 5 | 4 |
| Near Miss | 1 | 0 | 0 | 1 | 1 |
| Authorization Basis | 2 | 2 | 0 | 4 | 4 |
| Radiological Concerns | 1 | 2 | 1 | 4 | 4 |
| Environmental | 2 | 1 | 0 | 3 | 3 |
| Fire Safety | 0 | 1 | 0 | 1 | 1 |
| Shipping/Quality Assurance | 0 | 2 | 0 | 2 | 2 |
| Criticality Concerns | 0 | 0 | 0 | 0 | 0 |
| Industrial Operations | 0 | 0 | 0 | 0 | 0 |
| Conduct of Operations | 0 | 3 | 0 | 3 | 2 |
| Electrical Safety | 0 | 0 | 1 | 1 | 1 |
| Vehicle Accident | 1 | 0 | 0 | 1 | 1 |
| Equipment Failures | 0 | 3 | 1 | 4 | 4 |
| Safeguards and Security | 0 | 0 | 0 | 0 | 0 |
| Suspect & Counterfeit Parts | 1 | 0 | 0 | 1 | 1 |
| Other | 0 | 0 | 0 | 0 | 0 |
| Total | 11 | 16 | 3 | 30 | |

Secretarial Office Summary

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| National Nuclear Security Administration | 16 occurrences | (6 sites) |
| Office of Environmental Management | 10 occurrences | (6 sites) |
| Office of Nuclear Energy, Science and Technology | 1 occurrence | (1 site) |
| Office of Science | 3 occurrences | (3 sites) |