

Strategic Safety Goals

These high-level metrics provide a broad view of how well the overall DOE safety program is working. Table 1 shows reasonable progress, although the vehicle fatalities are a concern.

Table 1: DOE Strategic Outcomes by Calendar Year

| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--|------|------|------|------|------|------|
|--|------|------|------|------|------|------|

Worker Safety & Health Goal 1: No fatalities

| | | | | | | |
|---------|---|---|---|---|---|---|
| Total | 6 | 1 | 2 | 2 | 3 | 1 |
| Vehicle | 0 | 0 | 1 | 1 | 3 | 1 |

Worker Safety & Health Goal 2: No radiological exposure > 2 rem

| | | | | | | |
|-------|---|---|---|---|---|---|
| Total | 2 | 1 | 0 | 1 | 1 | 0 |
|-------|---|---|---|---|---|---|

Environmental Goal 1: No radiological releases above regulatory limits

| | | | | | | |
|-------|---|---|---|---|---|---|
| Total | 0 | 0 | 0 | 1 | 1 | 0 |
|-------|---|---|---|---|---|---|

Environmental Goal 2: No chemical/hazardous material releases > regulatory limits

| | | | | | | |
|-------|---|---|---|---|---|---|
| Total | 1 | 2 | 3 | 1 | 3 | 2 |
|-------|---|---|---|---|---|---|

Infrastructure Goal 1: No losses > \$5 million

| | | | | | | |
|-------|---|---|---|---|---|---|
| Total | 0 | 0 | 0 | 0 | 0 | 0 |
|-------|---|---|---|---|---|---|

*4th Quarter data as of 01/21/2010

These results should give the public (and management) a sense of how well DOE is managing its safety program. They are very much lagging indicators and as such are not measures used to actively manage programs. Although DOE has not achieved zero in all categories so far, the Department comes reasonably close – DOE has relatively few significant events.

Definitions

- **No fatalities:** Number of work-related deaths for DOE employees, contractors, sub-contractors, and visitors on DOE-controlled premises.
- **No radiological exposures > 2 rem (DOE administrative limit):** Number of personnel with annual measured exposures above 2 rem.
- **No radiological releases above regulatory limits:** Number of actual releases of radionuclides from a DOE facility that is above permitted levels and exceeds the reportable quantities specified in 40 CFR 302 or 40 CFR 355.
- **No chemical/hazardous material releases above regulatory limits:** Number of releases (onsite or offsite) of a hazardous substance, material, or wastes from a DOE facility, that is above permitted levels and exceeds the reportable quantities specified in 40 CFR 302 or 40 CFR 355.
- **No losses > \$5M:** Number of fire, explosion, gross contamination, or natural disaster events with property losses greater than \$5 million. Loss includes equipment and real property replacement and remediation, but does not include emergency response costs.

Worker Safety & Health Goal 1: One fatality

- 1 fatality (in calendar year 2009):
 - LLNL Lab worker fatally injured by a site leased vehicle. A type A Accident Investigation was completed. June 26, 2009; NA—LSO-LLNL-2009-0028

Worker Safety & Health Goal 2: No radiological exposures > 2 rem

- Zero exposures >2 rem in 2009

Environmental Goal 1: No radiological releases above regulatory limits

- Zero releases above regulatory limits in 2009

Environmental Goal 2: No chemical/hazardous material releases > regulatory limits

- 2009 Events
 - Polychlorinated Biphenyls (PCBs) spill when an oil filled capacitor that had been transported to the Los Alamos County Landfill leaked oil. Less than 5 gallons of oil leaked, but more than one pound of PCBs is estimated to have been released onto a concrete floor. May 19, 2009; NA—LASO-LANL-FIRNGHELAB-2009-0008
 - A second PCB spill occurred at the same facility when lab management was notified that a punctured capacitor had leaked PCBs containing oil in excess of the permitted levels in a Material Disposal Area. June 29, 2009; NA—LASO-LANL-FIRNGHELAB-2009-0011.

Infrastructure Goal 1: No losses > 5 million

- According to the DOE HS-20/30 *Fire Protection Program Summaries* for CY 2004 – 2008, there were no single events that resulted in loss of property due to fire in excess of \$5M, either actual or replacement costs.

The total number of events and total value are:

| Year | # of Events | Infrastructure Losses |
|-------|-------------|-----------------------|
| 2004 | 86 | \$622,309 |
| 2005 | 78 | \$2,537,565 |
| 2006 | 84 | \$997,805 |
| 2007 | 91 | \$1,674,515 |
| 2008 | 104 | \$802,861 |
| 2009* | | |

* The 2009 report will be published later this year.