



## Office of Independent Environment, Safety and Health Oversight (EH-2)





## **Office of Independent Environment, Safety and Health Oversight (EH-2)**



- **Mission and Objectives**
- **Organization**
- **Activities/Mechanisms**
- **Contributions and Products**



## **Office of Independent Environment, Safety and Health Oversight Mission**



- **Provide independent oversight of the Department's programs and initiatives related to environment, safety, and health.**
  - **As a function that is separate from the line organization, this Office provides critical information to the Secretary of Energy, line management, and stakeholders on the effectiveness of Departmental operations in protecting the safety and health of workers and the public and in preserving the environment.**



## **Office of Oversight Goals and Objectives**



**The Office of Oversight recognizes that safety and health are a line management responsibility and is committed to:**

- 1. Contributing to continuous improvement in the implementation of ISM and ES&H performance.**
- 2. Keeping the Secretary and Senior DOE Management informed of ES&H performance and emerging safety issues.**
- 3. Contributing to the effective sharing of lessons learned from Oversight activities.**
- 4. Maintaining a reactive response capability to accidents, events or emerging safety concerns.**
- 5. Establishing and maintaining open, effective, and honest interface and communications with stakeholders.**



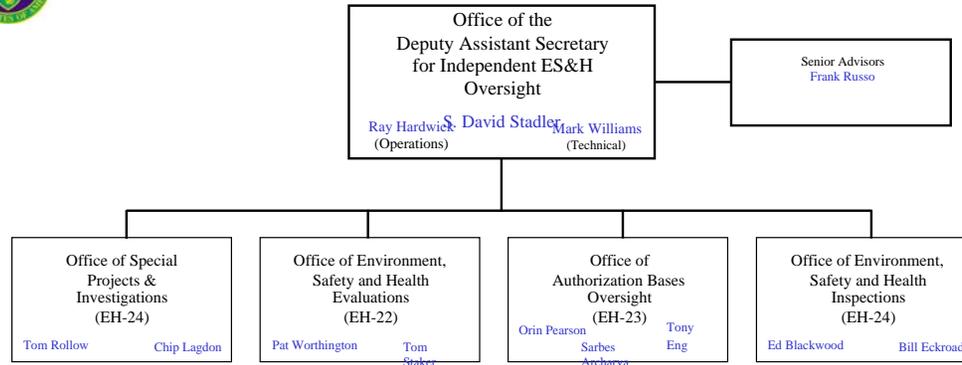
## **Office of Oversight Goals and Objectives (Continued)**



- 6. Achieving a reasonable balance between frequency of Oversight presence and allowing line management to manage.**
- 7. Soliciting input from line management on Oversight scheduling and focus as well as improving the Oversight process.**
- 8. Effectively validating the results of Oversight and producing high quality, technically accurate and readable reports.**
- 9. Identifying constructive but non-prescriptive opportunities for improvement.**
- 10. Promoting self-assessment by DOE and its contractors as the most effective mechanism for improving ES&H performance.**



# Office of Independent ES&H Oversight



- Operational Readiness Reviews (evaluation of facility restart)
- Operational Event Investigations
- Accident Investigation & Training
- Emergency Operations Center Support
- Special Reviews
- Safety Concerns Processing and Investigation

- Integrated Safety Management Evaluations
- Focused Safety Management Evaluations
- Focused Reviews
- Follow-up Reviews

- Authorization Bases Agreements and Analyses Oversight
- Analysis of Safety Issues
- Unreviewed Safety Questions
- Evaluation/Inspection Support

- Project Environmental Safety and Health Oversight
- Environ. Protection/ Compliance
- Inspection
  - Decontamination and Decommissioning
  - Construction Safety/Seismic
  - Industrial Hygiene/Occupational Safety and Health Act/Federal
  - Employee Occupational Safety and Health
  - Fire Protection
  - Radiation Protection
  - Quality Assurance



## **Additional Independent Oversight Mechanisms and Activities that Contribute to Continuous Improvement in ISM**



- **Inspections**
- **Oversight of Authorization Bases**
- **Independent Oversight of DOE Projects**
- **Environmental Audits**
- **Special Reviews and Investigations**
- **Safety Allegation Follow-up**
- **Accident Investigation Program**
  - **Type “A” Investigations**
  - **Oversight of Type “B” Investigations**
  - **Investigation Training Classes**



## Office of Independent ES&H Oversight -

### Activity Schedules\*

#### Safety Management Evaluation - 23 weeks

(15-20 Personnel)



#### Special Investigation - 20 weeks

(10-15 Personnel)



#### Inspection - 9 weeks

(2-3 Personnel)



#### Operational Readiness Reviews - 8 weeks

(1-2 Personnel)



#### Authorization Basis Evaluation- 15 weeks

(5-8 Personnel)



#### Type A Accident Investigation - 5 weeks

(10-15 Personnel)



#### Special Review - 10 weeks

(15-20 Personnel)



\* All Oversight Activities for which Issues are identified require development of Corrective Action Plans, which is a scheduled 12 week activity.





## Areas of Interest



- **Subcontractor Safety Management and Performance**
- **Unique Hazards of Decommissioning and Decontamination and Continuing Events as Near Misses**
- **Aging Systems and Infrastructure (2002)**
- **Potential Impact of Unique Contracting Approaches on ES&H and Oversight**
- **Procedure Quality, Use, and Adherence**
- **Degrading Shutdown Facilities**
- **Inconsistent Application of Work Smart Standards**
- **Application of ISM to Non-Nuclear Facilities**
- **Failure to Apply Lessons Learned**
- **Criticality Safety in Shutdown Facilities and Decommissioning and Decontamination**



# Oversight Reports



	1996	1997	1998	1999	2000	2001
<b>Safety Management Evaluations</b>	Hanford Site Fernald Environmental Management Project Strategic Petroleum Reserve Los Alamos National Laboratory Pantex Plant	Brookhaven National Laboratory Technical Review of the West Valley Demonstration Project Sandia National Laboratory- New Mexico Lawrence Livermore National Laboratory	Miamisburg Environmental Management Project Y-12 Site, Oak Ridge	Rocky Flats Environmental Technology Site Nevada Test Site Yucca Mountain Brookhaven National Laboratory Paducah Gaseous Diffusion Plant, Phase I	Paducah Gaseous Diffusion Plant, Phase II Independent Investigation of the Portsmouth Gaseous Diffusion Plant Authorization Basis Management Systems & Processes at Pantex Plant ETTP Gaseous Diffusion Plant	Focused Safety Management Evaluation of the Idaho National Engineering and Environmental Laboratory
<b>Special Studies &amp; Reviews and Follow-Up Reviews</b>	DOE Quality Assurance Program for Suspect/Counterfeit Parts Status of Radiological Protection Programs in DOE Aviation in Safety in the DOE Hoisting and Rigging Incidents within DOE Effectiveness of Safety Management in the DOE Implementation Guide for the Accident Investigation Program DOE Workbook: Conducting Accident Investigations	Yucca Mountain Evaluation of its Industrial Hygiene Program Interim Report: Groundwater Tritium Plume at Brookhaven National Laboratory Review of DOE Aviation Safety Programs Review of DOE CAIRS Program Review of Radiation Protection Program at TSD Evaluation of Facility Disposition Programs at ETTP Effectiveness of ES&H Management in DOE Brookhaven National Laboratory (Tritium Leak)	Assessment of Oak Ridge Investigation of Worker Respiratory Illnesses at ETTP Y2K Compliance in DOE DOE Safety Performance LANL Follow-up SME Follow-up at INEEL ETTP Welding Fatality Follow-up Tritium Plume at BNL Follow-up Fernald SME Follow-up SME Follow-up at BNL PNNL Follow-up Review Aviation Safety Follow-up Review Occupational Medicine Review at FEMP, NTS, and ORNL Emergency Management Review-- Complex-wide	Occupational Medicine Review at BNL, Y-12, SRS, Pantex, SNL-NM, and DOE HQ Radiation Protection Programs within the DOE Summaries of Independent Oversight Appraisals and Investigations for the Calendar Years 1995-1998 Follow-up Review of Integrated Safety Management at the Los Alamos Neutron Science Center Oversight Review of the SNL Benefits and Health Services Center Program	Report to Secretary-Nuclear Criticality Safety at Key DOE Facilities Inspection Report on the Gamma Irradiation Facility Pool Leak Independent Oversight Review of DOE Contractor Occupational Medicine Programs Independent Evaluation-Authorization Basis at Hanford K Basins Inspection Report-Modification of Hanford Tank Farm Ventilation System Controls	Independent Review of the HFIR Tritium Leak Follow-up Review of Phase I Investigation of the Paducah Gaseous Diffusion Plant Follow-up Review of Phase I Investigation of the Portsmouth Gaseous Diffusion Plant Report to the Secretary of Energy on Nuclear Criticality Safety Across the DOE Inspection of SRS Environmental Monitoring Programs Open Burning Event of the Environmental Management Waste Management Construction Site Focused Review of the Rocky Flats Closure Project Site Independent Review of the Rocky Flats Bldg 771 Internal Exposures Detected in November 2000
<b>Accident Investigation Program</b>	Idaho National Engineering Laboratory Fall Fatality; RWMC Los Alamos National Laboratory Electrical Shock; Area 21 Los Alamos National Laboratory Electrical Shock; Area 53 Idaho National Engineering Laboratory Electrical Shock-TRA-609	Welding/Cutting Fatality, K-33 Building, Oak Ridge Construction Fatality at the Brookhaven National Laboratory	Type A Investigation; Carbon Dioxide Fatality at INEEL	Special Agent Fatality at the Southeast Corner Section, Oak Ridge, Tennessee Multiple Injury Accident Resulting from the Sodium-Potassium Explosion in Building 9201-5 at Y-12	Plutonium-238 Multiple Intake Event at Plutonium Facility, LANL	

Green denotes reports in preparation

<http://tis.eh.doe.gov/oversight/>