

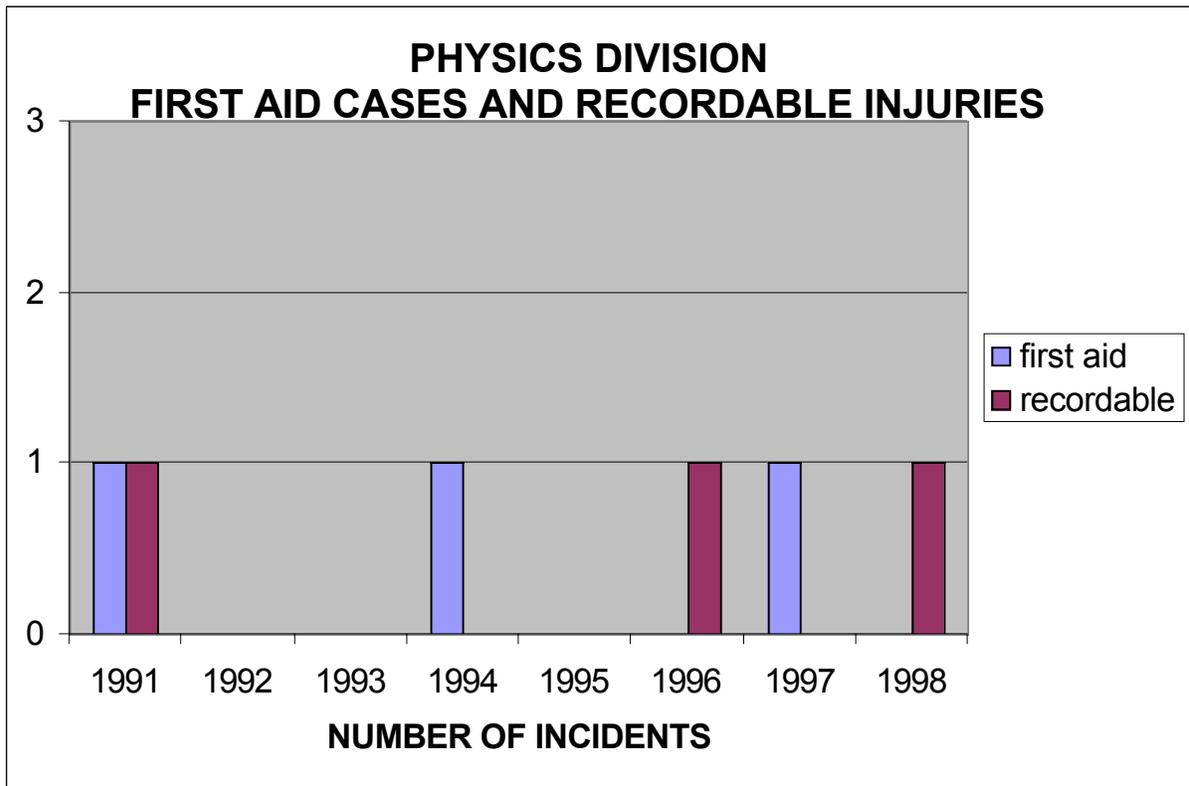
INTEGRATED SAFETY MANAGEMENT SYSTEMS (ISMS)

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The DOE has adopted a complex-wide policy, DOE P 450.4, Safety Management System Policy, which requires integration of safety* into management and work practices at all levels so that missions are accomplished while protecting the public, the worker, and the environment. ORNL has adopted the ISMS by Contract (DEAR Clause 970.5204-2) as the overarching philosophy and approach to systematically integrate safety into management tools and work practices. The Physics Division is committed to implementing and supporting the ISMS concept. ISMS awareness training was presented to the Division during the last quarter safety meeting in 1998. A dedicated ISMS bulletin board is used to communicate safety information and encourage employee interest and involvement. ESH Bulletins, Lessons Learned, and reportable occurrences are distributed to all personnel routinely for review. Performance indicators are tracked to identify focus areas for improvement. Safety presentations are conducted each quarter at Division staff meetings. The employee suggestion / complaint program is encouraged and has proven to be a very effective means of feedback within the Division. Operating procedures, guidelines, training programs, and training needs assessments are reviewed regularly to ensure that requirements are still up-to-date and appropriate. Safety is not just a priority in the Physics Division; it is one of our core values. First and foremost, no work will be conducted if it cannot be conducted safely.

* Safety in this context includes environment, safety, and health.

Recordable Injuries



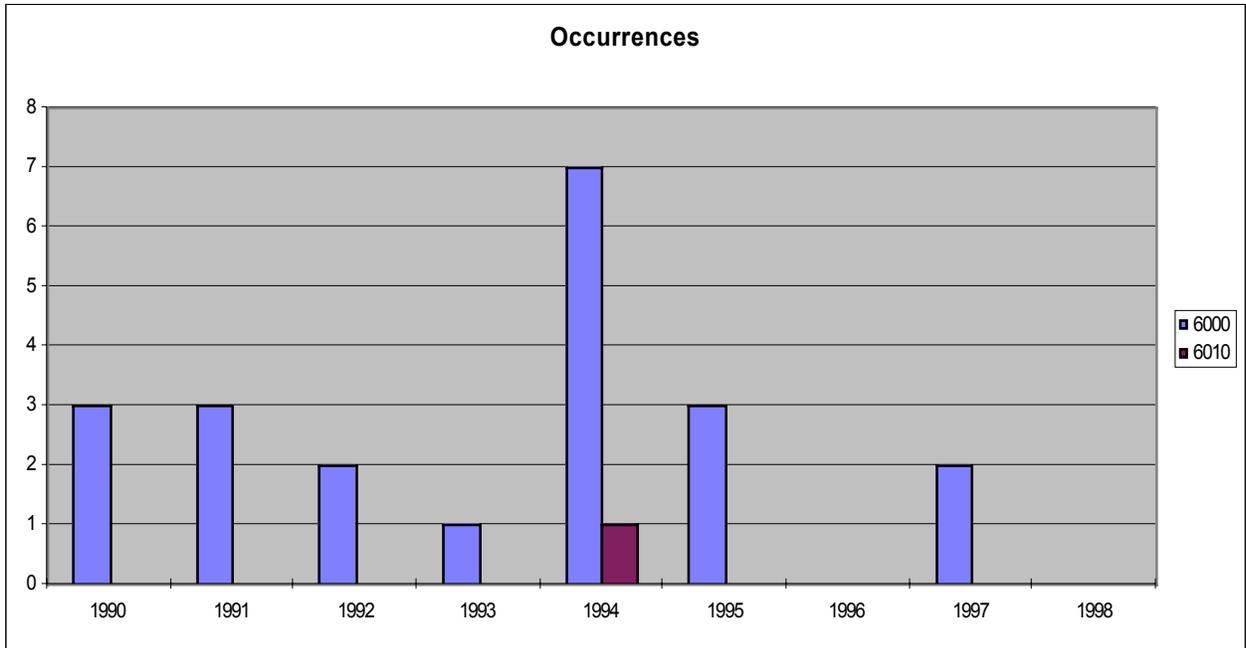
As of September 1998, Physics Division employees had worked 86,652 hours without a lost time accident. There was one first aid case in 1997 and one recordable injury in 1998.

Occurrences

The Physics Division had no reportable occurrences in 1996, two occurrences in 1997, and no occurrences in 1998. The occurrences in 1997 were related to 1) the fish kill from the malfunctioning dechlorinator station and 2) a fall from a ladder.

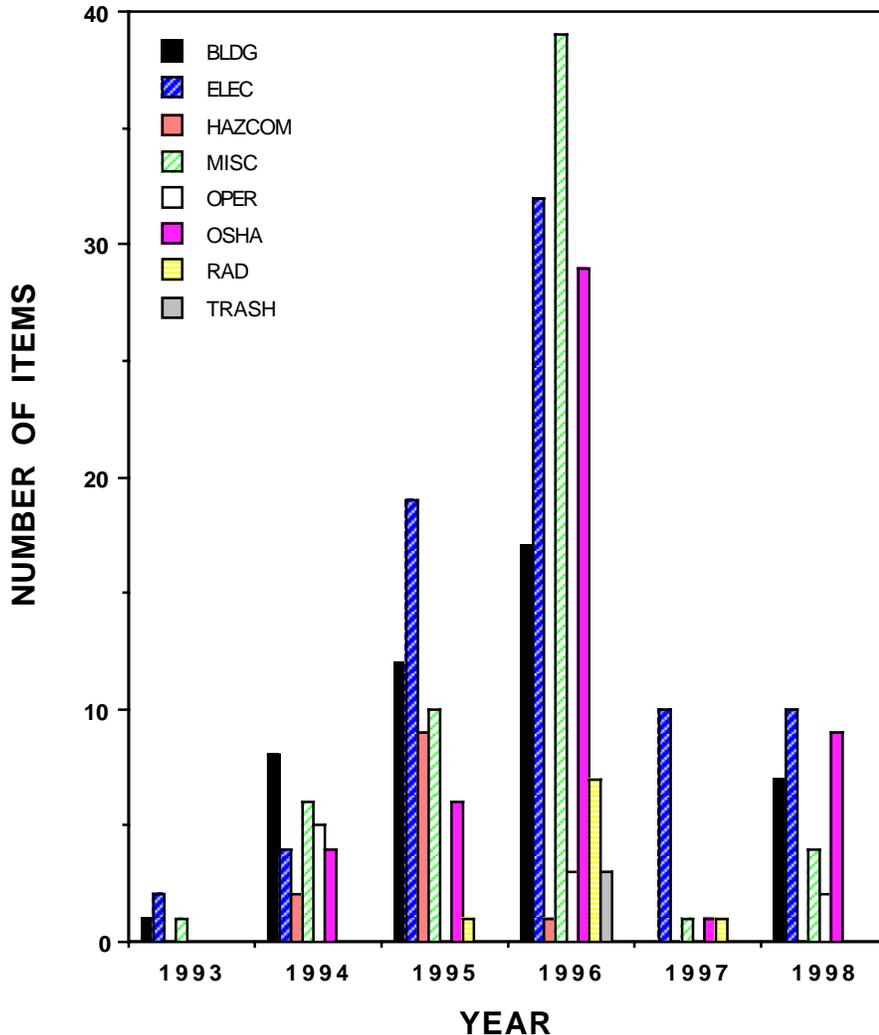
Self-Assessment

The components of the Physics Division Self-Assessment Program include walk-through inspections by Facility Managers conducted on a quarterly basis and assessment surveillances conducted by the Division ESH Committee as needed. Also



included is the requirement to conduct end-station reviews for the HRIBF at least every two years and upon completion of a major modification to an end-station. The Self-Assessment Program applies to all Division personnel, facilities, and operational activities. Self-Assessment ensures progress towards our overall objective of continuous improvement in operations and helps ensure compliance with applicable laws and regulations. The information obtained during Self-Assessment is used to strengthen and refine the ESH program, to maintain safe and healthy working conditions, to ensure protection of the environment, and to maintain efficient operation of Division facilities. Open ESH Action Items are tracked in a Division database and Facility Managers are responsible for issue resolutions.

**1993-1998 OPEN
Physics Division ES&H Action Items
From Self-Assessment**



Job Hazard Evaluation / Experiment Reviews

Physics Division Procedure, *Safety and Health Requirements for Experimental Work in the Physics Division*, requires an ESH review for all experimental activities, except those which would be considered “standard industrial activities.” Experiment Review Committees were organized and experiment reviews were done for all PAC-approved HRIBF experiments, all ORELA experiments, and other “experiment-like” work done in the Division. ORNL Procedure, OSHP-SH-P29, *ORNL Job Hazard*

Evaluation (JHE), requires Line Management and workers to review all work activities, including those which would be considered “standard industrial activities.” The Physics Division has created a Division-specific JHE form especially suited for work in Physics Division facilities. We continue to emphasize the importance of involving the worker in ESH reviews and providing feedback after work is completed to help foster a climate of continuous improvement.

Triennial Appraisal

The ORNL ESH&Q Integrated Management Triennial Assessment of the Physics Division was held the week of October 21-25, 1996, and the results of that Assessment are described in Report ORNL/CF-96/51, November 27, 1996, so only a brief summary will be presented here. The assessment reviewed the Division’s programs and processes for management and administration, self-assessment, conduct of operations, procedures, training, quality assurance, corrective actions, radiological protection, personnel protection, facility safety, occupational safety and health compliance, emergency preparedness, environmental protection, waste management documentation, and occurrence reporting. In addition, a review of the Division’s accelerators was performed by the ORNL Accelerator Safety Review Committee. The Team Leader of the Assessment was E. H. Krieg, ORNL Engineering. Whereas the appraisal team in 1993 identified three findings, no findings were identified during the performance of the 1996 assessment - we understand we may have been the first research division not to have any findings from a Triennial Assessment. Eleven concerns and sixteen proficiencies were identified. The Physics Division ESH Officer was recognized for “providing continuing Laboratory-wide leadership.” The appraisal team stated that “preparations for the appraisal were comprehensive, proactive, and effective. They reflected a thoughtful, structured, and focused attention to ESH&Q.” Preparation for this Assessment included meetings with line management to review their responsibilities, and meetings with the staff to review Division policies and activities.