



International Atomic Energy Agency

RIC 2005

Session F2: Operating Experience

SHARING OPERATING EXPERIENCE

A Key to Attaining a Global Safety Regime

Ken Brockman, Director

Division of Nuclear Installation Safety

IAEA

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IAEA Role and Activities

Enhance Use of Operating Experience (OE) to Improve:

- Safety of Equipment
- Human Performance
- Organizational Management Systems
- Regulatory Oversight

How?

- Make OE Information Available to All Member States
- Assess and Implement Lessons Learned
- Encourage Emulation of Best Industry Practices



Make OE Information Available to All Member States

Incident and Event Reporting

Information from Around the World

Events Important to Safety

Collected, Assessed and Disseminated



Make OE Information Available to All Member States

Collection of Information

- **NEWS** (Events of Public Interest)
- **IRS** (Nuclear Power Plant Event Sharing)
- **IRSRR** (Research Reactor Event Sharing)
- **FINAS** (Fuel Cycle Event Sharing)

Assessment of Information

- **International Conventions** (Nuclear Safety; Joint Convention)
- **Technical and Consultant Meetings**

Dissemination of Knowledge

- **Data Bases** (Operational [OSMIR]; Regulatory [IRRT]; Research Reactors [INSARR]; Fuel Cycle Facilities; ...)
- **Networks** (Asian & Ibero-American Safety Networks)



Assess and Implement Lessons Learned

Safety Review Missions

- **Operational (OSART; INSARR; FINAS)**
- **Engineering (All Nuclear Installations)**
- **Regulatory (IRRT)**

Management Process Assessments

- **Experience Feedback (PROSPER)**
- **Safety Assessments (Probabilistic and Deterministic)**
- **Safety Culture (SCART)**

Event Response Missions

Encourage Emulation of Best Industry Practices

OE Exchange

- **Technical Meetings**
- **International Conferences**

IAEA Documents

- **OE Guidelines (PROSPER; IRRT; NEWS;...)**
- **Low Level Events and Near Misses - New TECDOC**
- **Effective Corrective Actions - New TECDOC**
- **Identification, Reporting and Screening – New TECDOC**

Workshops

- **National**
- **Regional**
- **Inter-regional**



Topical Issues Conference - October, 2004 **(Findings)**

Recurrent Events are Taking Place

- **Ensure Lessons Learned are Re-assessed**
- **Ensure Lessons Learned are Not Forgotten**

OE Feedback Programs are not Universally Well Implemented

Lack of a Transparent Environment is a Hindrance to Safety

The Process of Reporting is not Adequately Addressing

- **Low Level Events**
- **Near Misses**

There are Significant Barriers to Information Sharing

- **Proprietary Sensitivity**
- **Technical adequacy**
- **Political Considerations**



Topical Issues Conference – October 2004 **(Recommendations)**

- **Pursue Self-Sustaining Networks**
 - Information Sharing
 - Knowledge Management
- **Knowledge Must be Shared**
 - During the Entire Life Cycle
 - Operators and Regulators
- **Use All Sources of Lessons Learned**
 - Amongst All Nuclear installations
 - From Other Industries
- **Need for Harmonization**
 - International Regulations and Guidelines
 - Data Bases



Lessons Learned from Recent Events

Insufficient Reviews to Ensure All Pertinent Information was Considered

Insufficient Challenge of Assumptions

- **Desire to Justify Continued Operation**
- **Economic Pressures**
- **Executive Management Lacking Technical Perspective**
- **“Believing Your Own Press”**

- Insufficient Oversight of Outsourcing Interfaces



Summary

- **Improve Communication Links at All Levels**
- **Improve Involvement & Participation in International Safety Services**
- **Improve Quality and Openness of Incident Reporting and Experience Sharing**
- **Promote and Participate in Knowledge Networks**





Thank You for Your Attention

