

Institute of Nuclear Power Operations

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National Academy for Nuclear Training



World Association of Nuclear Operators



Birth of INPO®

- March 28, 1979
- Three Mile
 Island –
 a catalyst for industry
 improvement
- INPO's unique role
 - Self-regulation through peer review





President's Commission on the Accident at Three Mile Island

- Set and police its own standards of excellence
- Integration of management responsibility
- Systematic gathering & analysis of operating experience



- Agency-accredited training institutions
- Operator continuing training & plant simulators
- Dramatic change in attitude toward safety (safety culture)



Mission

To promote the highest levels of safety and reliability – to promote excellence – in the operation of commercial nuclear power plants.

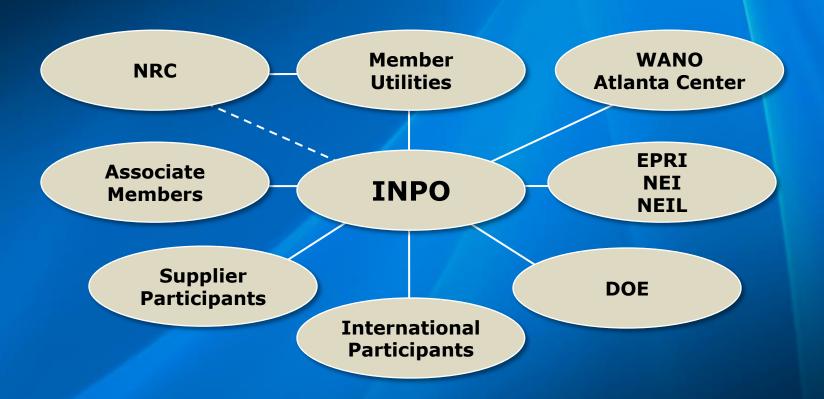


Vision

Setting the global standard in nuclear safety. We demand *EXCELLENCE* of ourselves and expect it of others.



INPO® Relationships





INPO Organization



President and Chief Executive Officer **Bob Willard**



Director Industry & External Relations Corporate Secretary George Hutcherson



Industry Evaluations Senior Vice President Bill Webster



Industry Performance Improvement Senior Vice President Rick Purcell



Industry Training and Accreditation Vice President Dave Igyarto



International Division Vice President World Association of Nuclear Operators Atlanta Center Director Dave Farr



INPO Support Services Senior Vice President Dianne Davenport



Plant & Corporate **Evaluations** Vice President Clair Goddard



Plant Operations Vice President Rob Gambone



Plant

Vice

Technical Support President **Dave Garchow**



Emergency Response Vice President Jeff Gasser

Director

Emergency

Response

Development

Jim Maddox



Assistance Vice President Jim Lynch



Analysis Vice President Kim Maza



Accreditation Director Steve Johnson



Industry Learning Director Lisa Brattin



Kris Straw



Corporate

Services

Director & CFO

Communications Director Ronn Smith



Assistance Director Ron Crawford



Director **New Plant** Deployment/ Special Projects Dave Berko



Accreditation **Deputy Director** Jeff Place



International Division Director Roger Spinnato



Information **Technology** & Data Services Director Ruth Todd



Corporate

Evaluations

Director

Steve Nichols

Evaluation **Team Leaders** Director **David Hembree**



Corporate

Evaluations

Deputy Director

George Manaskie

Organizational Effectiveness **Team Leaders Deputy Director** Al Hochevar



Assistance **Deputy Director** Alan Smith



Human Resources Director Jeff Wheelock

INPO Today

- 26 U.S. member companies with 104 commercial operating reactors
- 25 international participants
- 26 supplier participants



Core Identity Attributes

- Independent in judgment and decision
- Authority to establish standards of excellence, evaluate progress, communicate confidently
- Professionalism in all aspects of work
- Thought Leaders developing innovative ways to advance nuclear safety
- Catalyst for Action, collaborating for continuous improvement



INPO Going Forward

Top Priority Outcomes (TPOs)

TPO 1 - Fundamentals: Fundamentals are engrained and rigorously applied in key areas such as operations, maintenance, engineering, and other applicable areas.

TPO 2 - Operational Risk: Industry workers effectively measure, mitigate, and manage operational risk.

TPO 3 - PO&C Revision: INPO evaluations of plant and corporate performance reflect worldwide standards of excellence.

TPO 4 - International Safety & Reliability: Global nuclear safety and reliability are improved.

TPO 5 - Improving Industry Knowledge and Skills: Industry worker performance is improved through quality training.



INPO Going Forward

Top Priority Outcomes (TPOs)

TPO 6 – Reducing Plant Vulnerabilities: Plant vulnerabilities to external events are reduced and industry emergency response capability is improved.

TPO 7 - Early Detection/Sustained Recovery: Station performance declines are detected early and corrected quickly.

TPO 8 - INPO Employee Knowledge and Skills: INPO's competent, engaged workforce adapts effectively to changing demands.

TPO 9 - INPO Governance: INPO effectiveness is improved through defined governance and oversight and integration of INPO processes.

TPO 10 - Knowledge Management: INPO uses information and knowledge effectively to identify early industry trends and emerging issues and to improve performance.



Our Core Work

Evaluations

Analysis and Information Exchange

Assistance

Training and Accreditation





Evaluations



- Performance-oriented
- Team of experienced evaluators
- Functional and crossfunctional review
- Standards of excellence



Analysis



- Operating events (world-wide)
- Communication of industrywide trends and emerging issues
- Internet-based communication system
- Just-in-time operating experience



Assistance



- Performance monitoring
- Response to declining performance
- Targeted visits
- Workshops and working meetings



Training and Accreditation



- Utility training programs
- Leadership development
- eLearning
- Future of Learning



WANO Organization



London Office





WANO-Atlanta Center

Category 1 Members:

- Atomic Energy of Canada, Ltd. Canada
- Bruce Power Canada
- Centrala Nuclearelectrica Romania
- China Huaneng China
- China Power Investment Corporation (CPI) China
- Comision Federal de Electricidad Mexico
- Emirates Nuclear Energy Corporation UAE
- Eskom South Africa
- Hydro-Quebec Canada
- Institute of Nuclear Power Operations (INPO) U.S. (represents the 26 U.S. utilities in WANO)
- New Brunswick Power Canada
- Ontario Power Generation (OPG) Canada
- State Nuclear Power Technology Corporation (SNPTC) China

Other Affiliations:



Eletrobras Termonuclear SA – (Eletronuclear) – Brazil

Safety Culture Milestones

- Davis Besse head degradation event
- Significant Operating Experience Report
- Principles for a Strong Nuclear Safety Culture
- U.S. Nuclear Regulatory Commission Safety Culture Policy Statement
- Principles for a Strong Nuclear Safety Culture, revision 1





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