



Institute of Nuclear Power Operations

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INPO[®]

Institute of Nuclear
Power Operations



National Academy for
Nuclear Training

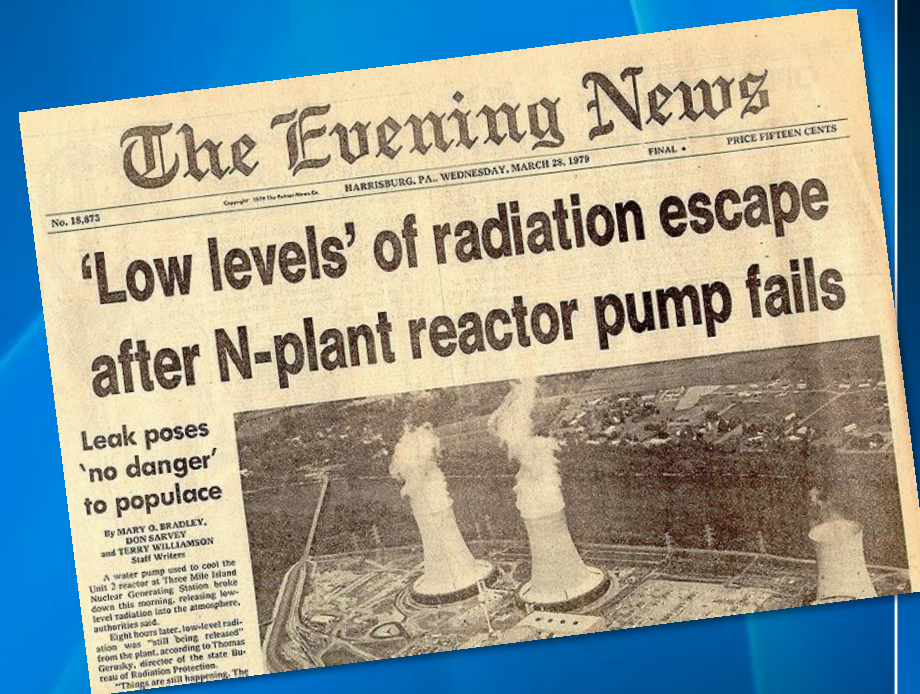


World Association of
Nuclear Operators



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.

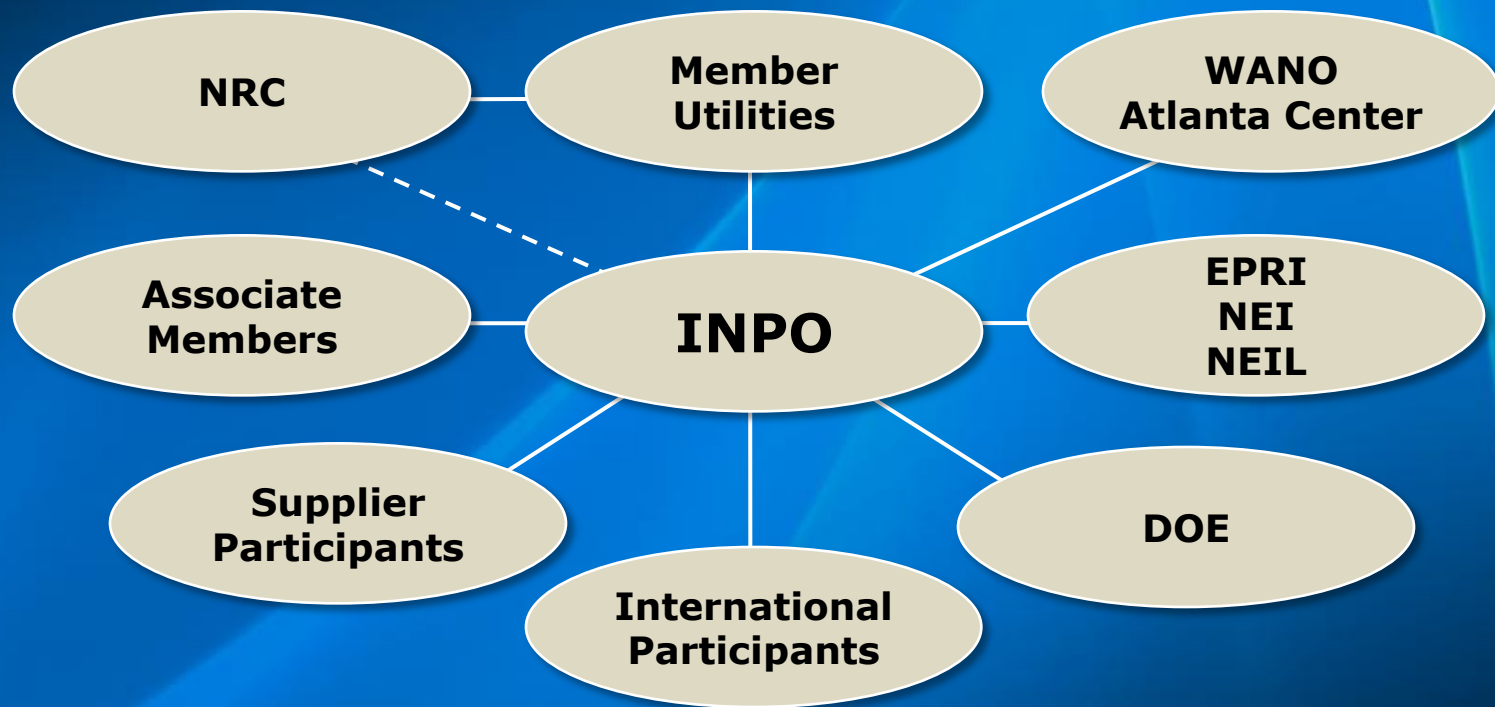


Vision

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



INPO[®] Relationships



INPO Organization



Revised May 9, 2012

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 cross-functional review
- Standards of excellence



Analysis



- Operating events (world-wide)
- Communication of industry-wide 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

★ Regional Centers



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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