Institute of Nuclear Power Operations
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

- NRC
- Member Utilities
- WANO Atlanta Center
- Associate Members
- EPRI NEI NEIL
- Supplier Participants
- INPO
- International Participants
- DOE
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

Atlanta            Moscow
London            Tokyo
Paris
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
Institute of Nuclear Power Operations