WANO Overview

- In 1979, the accident at Three Mile Island occurred; in Dec 1979 INPO (US) was formed.
- In 1986, the accident at Chernobyl occurred; in May 1989 WANO was formed.
- In March 2011, the accident of Fukushima occurred; in Oct 2011 WANO was renewed.
- The world’s nuclear operators realized that an event at one plant would impact every plant.
- Four Regional Centres, and London office:
  - Atlanta, Moscow, Paris and Tokyo
  - London Office & Hong Kong Office (Sept 2012)
- Today every operator of a commercial nuclear plant is a member of WANO: ~130 members, 220 nuclear plants or reprocessing facilities affiliated to 1, 2 or more regional centres.
WANO’s activities are concentrated in four main programs:

1. Peer Reviews
2. Operating Experience
3. Professional and Technical Development
4. Technical Support and Exchange

The programs work together to drive continuous performance improvement.

Peer Reviews help members compare their operational performance against standards of excellence through an in-depth, objective review of their operations by an independent team:

- Station peer reviews
- Follow-up Peer Reviews
- Corporate Peer Reviews
- Pre-Start up Peer Reviews
Using of Operational Experience is a proven method to improve plant performance by applying the applicable lessons learned from past events.

SOERs are written to address significant events or trends, including required corrective actions for WANO members.

WANO expects all its members to implement all SOER recommendations.

Compliance with all the recommendations is checked during Peer Reviews.

- SOER 2013-2 Post-Fukushima Daiichi Nuclear Accident Lessons Learned
- SOER 2011-4 Near-Term Actions to Address an Extended Loss of All AC Power
- SOER 2011-3 Fukushima Daiichi Spent Fuel Pool
- SOER 2011-2 Fukushima Daiichi Fuel Damage caused by Earthquake and Tsunami
5 STRATEGIC ORIENTATIONS TO STRENGTHEN WANO AND ITS FOCUS ON NUCLEAR SAFETY:

1. To expand the scope of WANO’s activities,
2. To develop a worldwide integrated event response strategy,
3. To improve WANO’s credibility including important changes to WANO’s peer review process,
4. To improve visibility outside and transparency inside operators’ community,
5. To improve internal consistency (quality of assessments).

The five recommendations have been transformed to WANO projects which shall be completed and implemented by 2015.
WANO after Fukushima

► Scope Expansion to address:

- Emergency preparedness fundamentals,
- Severe Accident Management, including procedures, training and readiness,
- Fuel pool and fuel storage cooling and contingencies,
- Multiple unit impacts and considerations for mitigation,
- Design safety fundamentals and continuous design improvement processes

► Implementation of a “Nuclear Safety Performance Assessment” process

► Special attention towards and stronger support to “plants of focus”
WANO after Fukushima

► Assessment program reinforced

From: 1 site Peer Review every 6 years
To: 1 site Peer Review every 4 years,
1 Corporate Peer Review every 6 years,
Systematic Pre-Start-up Peer Reviews,
Shutdown & restart reviews on-going in Japan.

A stronger follow-up Peer Review with a mandatory action plan update

Stronger focus of peer reviews on areas related to nuclear safety.

► Insist on stronger commitment by member CEOs and CNOs

► Conduct periodic internal peer reviews of WANO