“New Reactor Design activities focusing on new reactors and vendor / licensee’s responses”
First lessons from the Fukushima accident

100% WANO Members answered to the SOER (excluding Fukushima Daiichi and Daiini NPPs)
First lessons from the Fukushima accident

All WANO members responded to SOER

Example of analysis: Station Black-out

% of units

- Procedure revision needed
- Other equipment needed
- Modes needed to address SBO
- PMs need improved
- Inventory incorrect
- Equipment not available
- Testing not completed
- Communications need improved
- Lighting needs improved
- Equipment will not have power
- Other
WANO’s Commission to propose improvements

As a result of Fukushima:

• Close the SOER gaps in emergency preparedness of each utility:
  ▪ Procedures
  ▪ Equipment availability
  ▪ Drills & training

• Better define WANO’s roles & responsibilities of WANO & WANO members in an emergency:
  ▪ Reinforce the Emergency Team
  ▪ Inventory of available equipment from other members
  ▪ Coordination with IAEA and other organisations
Nuclear Safety Responsibility

INTERNATIONAL LEVEL:

Collective Responsibility

NATIONAL LEVEL:

Individual Responsibility
WANO's Commission to propose improvements

- Coordination with IAEA and other organisations:

  - INRA, MDEP, WENRA
  - Cooperation
  - Lessons learned
  - Harmonisation
  - Benchmarking
  - Nal Reg
  - IAEA
  - Credible Safety Authority
  - INPO
  - JANTI
  - ENSREG
  - NEA
  - INTERNATIONAL LEVEL
  - REGIONAL & NATIONAL LEVEL
  - Oversight
  - Operators
  - O.E.
  - ...
• **WANO improvements**

WANO will, with its members fully committed, continue to prevent TMI & Chernobyl types Accidents by focusing PRs on Nuclear Safety Fundamentals, including:

- Compulsory high quality “AFIs”
- Check SOER recommendations’ implementation

• Improve Operating Experience, sharing between operators:

  - Better define when a station must report
  - Timely report event
  - Implement SOER recommendations

• Define what is expected of WANO members & the follow-up on members that are not fully participating
World Association of Nuclear Operators

Thank you

http://www.wano.info