

A photograph of a nuclear power plant, featuring a large white dome and several tall, blue buildings. The sky is bright blue with some clouds. The image is partially obscured by a dark orange horizontal bar at the top and a dark purple horizontal bar at the bottom.

British-French Nuclear Forum

Learning from Experience

The logo for British Energy, consisting of a stylized sunburst or fan shape with several rays extending upwards from a horizontal base.

British Energy

Learning from experience

Why?

- Nuclear Industry is committed to continuous improvement
 - Makes business sense
 - Underlies Convention on Nuclear Safety, WENRA RLs etc
- Improvements can be made in:
 - Operation
 - Maintenance
 - Design
- Improvement Processes
 - Routine OEF
 - Periodic Safety Review

Learning from experience

How?

- Key elements
 - Data collection
 - Sharing common data/experience provides better basis
 - Data interpretation
 - Learn lessons
 - Draw conclusions
 - Framework for prioritisation
 - Continuous improvement is aim but must consider:
 - ALARP
 - Commercial implications
- ALARP test provides useful tool to judge appropriateness of improvements
 - What is appropriate for a new plant may not be ALARP for an old one
 - Improvements in reliability key element

Learning from experience

Are there any gaps?

- WANO, IAEA and NEA provides a means of sharing experience
 - Focus on events and human performance
 - Well covered
- Owners Groups (PWROG & FROG) cover technical/licensing issues
 - BE & EdF members of both groups
- What are means to share reliability data?
 - Well developed US generic databases (NPRDS/EPX)
 - European data collection?
 - Some national efforts but no European synthesis
- Prioritisation/ALARP
 - Will be considered by WENRA/ENISS when looking at implementation of Reference Levels