

Convention on Nuclear Safety

Compilation of Rapporteurs Reports

Fourth Review Meeting

14 – 25 April 2008

Excerpt of Finnish results only

A. Highlights

LO - 1 & 2 relicensed year 2027 for LO 1 and 2030 for LO2 with two PSRs in between.

PSR is being prepared for OL 1&2 for continued operation for 10 years. IAEA NS-G-2.10 (2003) has been considered in the regulatory guide.

Legislation is being modified taking into account the new constitution

Three Step Licensing of NPPs- Decision in Principle (political basis), Construction License (technical basis) and Operating License (technical basis)

OSART Team visited Loviisa in March 2007. Licensee action plan to respond to recommendations/ suggestions has been made. Follow-up OSART planned for July 2008

OL3 is delayed by about 2 years - operation now expected in mid 2011. Lessons learnt are important for new builds globally.

B. Previous Review Meeting Followup

Ageing of regulatory staff - addressed, no concerns

Maintaining competence during extended retirement- addressed

Developing risk informed regulation - several applications in use, including Risk Informed ISI, regulatory oversight of construction of the new reactor

Replacement of I&C at Loviisa NPP – Delayed. Supplier's work has not fully met expectations and scope enhancement has led to some delays.

C. Good Practices

Modern nuclear legislation and regulations - reflects citizens' constitutional rights (safety, participation in environmental matters, hearing), proven licensing procedure, clear distinction of authority functions.

Maintaining national research programmes on nuclear safety and participation in international programmes, stable financing

Advanced regulatory infrastructure - STUK has clear mission, values, vision and strategy, QM system, professional, safety oriented and motivated staff with knowledge on all fields of nuclear technology, service oriented attitude towards society, effective communication to public.

Voluntary sharing of information with other countries.

D. Challenges

Aging Management of reactors in operation (renewal of I&C systems, RPV material embrittlement and use of risk-informed methods to further develop the plant safety)

Responding to the growing needs for staff and professionals.

Restructuring, streamlining and updating the safety regulations

Further enhancing the operating experience feedback processes

Responding to increased demand for timely and effective communication to public

Increased attention to information security issues.

E. Planned Measures to Improve Safety

Qualification of non-destructive testing

Ensuring reliability of digital automation, verification & validation

Provision for plant ageing

Maintaining competence

Risk informed regulation

Completing the PSA, eg fire for shut down and low power for LO & OL NPPs.