SAFETY AND REGULATION OF NUCLEAR POWER PLANTS - A NEW SET OF YVL GUIDES FOR DESIGN AND CONSTRUCTION OF A NEW BUILD IN FINLAND

Helsinki and Olkiluoto site, 1 - 4 September 2015

Place: Paasitorni in Helsinki city center and Olkiluoto visitor center

Tuesday 1 September

9:00   Welcome and introductory remarks (Ilari Aro)
9:15   Updated regulations and the new set of YVL guides for licensing a nuclear facility (Marja-Leena Järvinen)
10:00  Regulatory oversight of safety including licensing and site for a nuclear facility (A1, A.2) (Janne Nevalainen)
10:45  Coffee break
11:15  Management system requirements (A.3) (Hanna Kuivalainen)
12:00  Human resources and organization requirements (A.4) (Mari Nykänen)
12:30  Lunch
13:30  Construction of a NPP (A5) (Juha Väisäsvaara)
14:15  Support from expert organizations (independent analysis, testing) (Risto Sairanen)
15:00  Coffee break
15:30  Requirements for the nuclear fuel (B.4, E.2) (Risto Sairanen, Lena Hansson-Lyyra)
16:15  Radiation protection in nuclear power plants (C.1-C.6) (Lauri Pöllänen)
17:00  Discussion session on management systems for construction of new NPP and regulatory control
17:30  End of the day
**Wednesday 2 September**

9:00  Design of a nuclear power plant and its systems and structures (B.1, B2, C.1, C.5, D3) (Risto Sairanen)

9:45  Deterministic safety assessment (B.3) (Risto Sairanen)

10:30 Coffee break

11:00 Risk management of a NPP (A.7) - the role and methods of Probabilistic Risk Assessment (Ari Julin)

11:45 Severe accident management (Ellen Hakala)

12:30 Lunch

13:30 Protection of a nuclear facility against internal and external hazards (B.7) (Jorma Sandberg)

14:15 Requirements for containment and civil works of a NPP (B.6, E.6) (Pekka Välikangas)

15:00 Coffee break

15:30 Fire protection of a nuclear facility (B.8) (Pekka Välikangas)

16:00 Verification of the strength of pressure equipment (E.4) (Rauli Keskinen)

16:45 Discussion on design and safety assessment methods

17:30 **Get Together buffet**

**Thursday 3 September**

9:00 Approval of inspection bodies and testing organizations (E.1 ja E.12) (Martti Vilpas, Mirka Schildt)

9:45 Requirements for the reactor coolant circuit of a NPP (B.5) (Eero Virtanen)

10:15 Requirements for pressure equipment and pipings (E.3) (Mirka Schildt)

10:45 Coffee break

11:15 Approval of valves and pumps (E.8 ja E.9) and Emergency power supply (E.10) (Petri Vuorio)

12:30 Lunch
13:30 Inspection of I&C equipment (E.7) (Kim Wahlström)
14:15 Inspection of electrical equipment (E.7) (Kim Wahlström)
15:00 Coffee break
15:30 Hoist and transfer equipment (E.11) (Urpo Sarajärvi)
15:50 Ageing management (A.8) (Petri Vuorio)
16:15 In-service-inspections (E.5) (Olavi Valkeajärvi)
16:45 Discussion session on the inspection of mechanical structures and components
17:00 End of the day

Transfer to Rauma by bus for visiting Olkiluoto site.
(Overnight in hotel Cumulus Rauma, STUK orders and participant pays the room.)

Olkiluoto site

Friday 4 September

Departure from Hotel Cumulus, Rauma at 8:30

TVO presentations and plant and facility visits

09:00 - 10:00 Company presentation / Preparations for operation and arrangements for operator training in Olkiluoto / Heikki Lukkari
10:00 - 10:45 Strategy for radioactive waste / Maria Palomäki
10:45 - 11:00 Coffee break
11:00 - 11:45 Strategy for spent fuel management / Anssu Ranta-Aho
11:45 - 12:30 TVO project management at site / Käthe Sarparanta
12:30 - 13:30 Lunch
13:30 - 16:00 Site tour (Posiva area, OL3 area), visit to the final disposal of plant waste (VLJ-repository) / Käthe Sarparanta
16:30 Transfer to Helsinki (via Turku and Helsinki airports)