

Decommissioning plans for TVO's new reactors

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In new NPP projects in Finland decommissioning has gained visible role already in licensing phase. E.g. for OL1 and OL2 the first comprehensive decommissioning plan was done in 1989, about ten years after the start of operation. The licensee has to show the feasibility of the decommissioning already in construction licence phase and prepare a decommissioning plan when applying operating license. The requirements for decommissioning plans are set in nuclear energy act, government decree on safety of the disposal of nuclear waste and regulatory guides of STUK.

The Finnish legislation requires the decommissioning plans to be updated in six years intervals. The latest decommissioning plan for Olkiluoto NPP was prepared in 2008. Unit OL3, estimated to start operation in 2012, was preliminary taken into account in this plan by estimating waste inventories, repository volume and long term safety analysis. OL4 which is under Decision in Principle process was also considered mainly by using data for OL3, but e.g. when considering the disposal of reactor pressure vessel (RPV) the biggest RPV of the principal reactor choices was applied.

The presentation summarizes main steps, in which the decommissioning has to be considered in NPP licensing in Finland as well as the main items which have been and still need to be presented for the licensing of OL3 and OL4. Also, a review on main issues to be assessed in the decommissioning plan is presented, including decommissioning strategy and plans for final disposal.