

COMPLEMENTARY CONSIDERATIONS FOR THE SAEFTY CASE

by

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Complementary Considerations (CC) report was published as a part of the Posiva's TURVA-2020 safety case that was produced to support the construction license application for the spent nuclear fuel repository to be built at Olkiluoto, Finland. The next phase in the disposal programme is the operational license application, for which the safety case will be updated.

The requirement for such a document comes from the Finnish regulations (YVL Guide D.5) that state that the importance to safety of such scenarios that cannot reasonably be assessed by means of quantitative safety analyses, shall be examined by means of complementary considerations, and, that these may include e.g. analyses by simplified methods, comparisons with natural analogues or observations of the geological history of the disposal site.

TURVA-2012 safety case and CC were considered by the regulator to be at sufficient level for the construction license application, but requirements were set for the updating the safety case for operational license application.

Updates needed include better integration of the discussions in CC to the safety functions and performance targets, meaning in general better integration of the CC and reports that it mainly supports, those being the Features, Events and Processes report, Performance Assessment and Formulations of Scenarios.

Updates will also be done regarding e.g. design updates and new natural analogue information available. The final report should provide more in depth site specific discussion on natural analogues providing support especially for conceptual understanding within the safety case. The main results are presented also in the synthesis report providing another line of evidence and arguments for the safety assessment supporting the overall safety case.