

TWG PLAN - PHASE 3 ITQR PROCESS

Objective: For national laboratories and other technical organizations to perform an independent, technical, quality review (ITQR) of the draft Technical Study of Spent Fuel Pool Accidents for Decommissioning Plants, and if applicable, to perform sensitivity studies, confirmatory calculations, or independent calculations on the analyses contained in the draft study.

Focus Areas: PRA, thermal hydraulics, criticality, seismic, and aspects of fire protection.

Time Period: July 1999 - December 1999

- 1) PRA - INEEL to review the draft Technical Study, and to perform sensitivity studies. Contract is in the concurrence process.
- 2) Thermal hydraulics - Pursuing Sciencetech, INEEL, or NIST, who all have expertise in the thermal hydraulics area to perform the ITQR, and PNNL to perform additional generic calculations that are beyond our capabilities, to possibly look at the runaway oxidation temperature, and to possibly come up with something better than an adiabatic heatup calculation. There is an existing contract through Decommissioning Projects for PNNL that we may be able to use.
- 3) Criticality - Pursuing Sciencetech to perform the ITQR. There is an existing Sciencetech contract under DSSA that we should be able to use.
- 4) Seismic - Pursuing Dr. Robert Kennedy, who is available through RES, to perform the ITQR. He will be attending the workshop. After the workshop, we need to reassess whether we need to have him perform detailed fragility evaluations.
- 5) Fire Protection - Pursuing PNNL to perform an ITQR on the use of high-expansion foam as a mitigation action as described in the draft Technical Study. There is an existing contract through Decommissioning Projects for PNNL that we may be able to use.
- 6) Nathan Su, RES - to perform an ITQR on the draft Technical Study.