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SUBJECT: DISCUSSION OF SPENT FUEL POOL ISSUES (U)

Ex 1

Ex 1

Release

(U) RES recently performed consequence analyses for severe spent fuel pool accidents for a study of the risk at decommissioning plants due to catastrophic failure of the pool. Parameters examined were the sensitivity to source term releases, fractions of the pool involved, plume release characteristic (buoyant energy), evacuation, and decay times. These consequence analyses were based on conservative thermal hydraulic assumptions such as a rapid emptying of the pool with no mitigation. Ongoing work, as part of the vulnerabilities assessment, will not require the assumption of rapid and widespread fuel damage as was the case in the generic study. The basic approach in this new work is to perform integrated transient analysis with consistent modeling of spent fuel pool heat-up, degradation, and fission product release using current severe accident analysis methods.

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Portions Ex 1

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