

From D. Dixie, MKZ
3/7/01

- 1) Has there been any plant shutdown permanently? If yes, how many and how long have they been shutdown?
- 2) Was there any event associated with a loss of spent fuel pool (SFP) cooling occurred at the decommissioning plants? If Yes, please describe the events, mitigation efforts, and impact of loss of mitigation capability.
- 3) If the plant shut down permanently, Is the pool full or partially full with spent fuel?
- 4) What is a storage capacity of SFP at a decommissioning plant, pool heat up rate, pool water inventory, fuel burnup GWD/MTU, type of monitoring, alarms, and estimated decay heat load?
- 5) What are the current regulatory requirements put in place to ensure the capability of decommissioning plants to provide SFP cooling, leaks detection, pool level indication, pool water makeup, and reporting of event? How are these requirements differed from operating plants?
- 6) If loss of SFP cooling at decommissioning plants occurred, how many events were reported?
- 7) What are the current designs (high density or low density) of spent fuel racks? How would they impact the spent fuel during loss of pool coolings at decommissioning plants.
- 8) Do you reprocess spent fuel? If Yes, how long would the spent fuel be remained in the pool before being transported to the reprocessing facility and what are the limiting accidents associated with this configuration?
- 9) How long will the spent fuel be remained in the pool after at decommissioning plants?
- 10) Do you have an interim spent fuel storage program? (i.e., dry cask storage) What are the requirements associated with spent fuel dry cask storage?
- 11) What are the structural design criteria used to design the SFP? (seismic design classification, minimum temperature for evaluation of thermal stress from loss of cooling events).
- 12) If risk assessment has been performed for a decommissioning plant, what are the accident initiating events, the worst case accident scenarios, and the likelihood and consequence of spent fuel uncover? Is the risk assessment performed plant specific or generic?
- 13) Have plant-wide risk assessments ever included the spent fuel pool? If so, please explain.
- 14) Are beyond design basis accidents considered for any regulation? If so, what are the accidents.
- 15) Has the source term from spent fuel, particularly the percentage of ruthenium, ever been investigated? If so, what source term would be used?

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- 16) Have heavy load drops (100 tons) in the spent fuel pool or on the wall of the pool been analyzed? If so, please explain.
- 17) Has any work been performed on zirconium-air oxidation associated with a loss of SFP cooling at a decommissioning plant? If so, please explain.
- 18) What emergency preparedness, safeguards, and security are required for decommissioning plants? What are the bases for these requirements and how are they differed from operating plants?
- 19) Are exemptions (i.e., emergency preparedness, safeguards, insurance,...) granted for decommissioning plants? What are they and the bases for these exemptions?