

Draft Outline Comments (completed 9/13/04)

Operating Exam

1. The outline only shows one JPM as a repeat - Emergency/Abnormal Plant Evolutions (EAPE) Item 3, "032 Loss of a Startup Channel During Refueling" from the 2002 exam. **However EAPE Item 1 (loss of inventory in the refuel pool) could possibly be similar to JPM B4 from the 2002 exam which dealt with loss of spent fuel pool level. I need to check this JPM once the exam comes in for review.**
2. **Need K/A numbers for Systems and EAPE JPMs and importance ratings for all JPMs.** Completed on 9/9/04, when Phil sent in completed written and operating outline. Discussed this with him verbally.

Written Exam

1. Reviewed the licensee random and systematic process for selecting K/As and I followed this up with a phone conversation. I have no concerns with their selection process. Ensured that their selection process was random and systematic all the way to the actual K/A selection.
2. **Under the heading "K/A Topic(s)", include a short written description of the K/A.**
3. For Tier 2 - K/A 034AA1.02 similar to K/A 002A1.11 -> both deal with inventory loss. Need to review questions for these two K/As to ensure not oversampling.
4. Possible duplication between written and operating outlines as follows:
 - a. JPM EAPE #3 (K/A 032AA2.02), loss of startup channel during refueling and written outline Tier 1, K/A 032AK3.02, guidance contained in EOP for loss of source-range nuclear instrumentation.
 - b. JPM EAPE #1 (K/A 025AA1.02), loss of SDC - loss of inventory in refuel pool and written outline K/A 034AA1.02 similar to K/A 002A1.11 -> both deal with inventory loss. **Recommend changing one of the written K/As or the JPM. Oversampling on dealing with loss of inventory.**