

# Sample Plan

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# Sample Plan

- ES 401 D.1, Develop the Outline
- Appropriate form: 401-1 (BWR) or 401-2 (PWR) ES-401, D.1.a
- **Systematically AND Randomly** select specific K/A statements ES-401, D.1.b



# Sample Plan - K/A Selection

- Use K/As from NUREG-1122 (PWR), rev 2 or 1123 (BWR), rev 2 ES-401, D.1.b
- **DO NOT** include site specific K/As ES-401, D.1.b
- ES-40, Attachment 1 - Example Systematic Sampling Methodology
- May use own verifiable methodology



# Sample Plan - K/A De-selection

- Pre-approved K/A de-selection  
ES-401, Attachment 2, #4
- Robinson submitted a de-selection document
- De-selection of any K/A must be within guidelines of ES-401, Attachment 2



# Sample Plan - K/A De-selection Guidelines

- Is K/A relevant to the facility ?
- Is the importance factor  $>2.5$  or site specific justification for inclusion ?
- Is it possible to write a sound question for the K/A ?



# Sample Plan - K/A De-selection

- Note: just because there is not a corresponding learning objective, i.e.: was not covered in training, is **NOT** sufficient justification for eliminating the K/A

ES-401, D.1.c



# Sample Plan - K/A De-selection

- Selected K/As eliminated after they have been randomly selected must be documented on ES-401-4, “Record of Rejected K/As” or equivalent and submitted with sample plan for approval ES-401, Att. 2, #5
- ES-401-4 is updated throughout the exam development and review process



# Sample Plan

- May use a previously used outline (from that facility or another) ES-401, D.1.b
- Identify source of outline
- Provide explanation of what effect its reuse is expected to have on the examination integrity



# Sample Plan - SRO K/As

- SRO examination outline shall include 25 K/As related to the topics of 10 CFR 55.43 (b) ES-401, D.1.c
- Additional explanation and review required for K/As that do not have a 55.43 (b) reference, either justify a 55.43 (b) link or show a link to an SRO-level job per the licensee's learning objectives. ES-401, D.1.c



# Sample Plan - Review

- Review the sample plan for balance of coverage, prefer at least 2 in each category

ES-401, D.1.d

- This is to ensure a valid sample plan is maintained in the event questions are deleted as a result of post-exam comments
- Write the K/A number, and the complete description under “topic” on the 401-1 or 401-2



# Sample Plan - Review

- Ensure no “over sampling”
- If necessary - make K/A selection changes by systematic and random sampling
- Sample Plan must be reviewed by a facility supervisor or manager prior to submittal
- Submit sample plan - date agreed upon usually at least 75 days prior to exam date

ES- 401, D.1.e

ES-401, D.1.e



# Sample Plan - NRC Sample Plan

- NRC has developed Sampling program to fit NUREG-1021, Draft Rev. 9
- If requested, the NRC will supply the sample plan to any licensee writing their own exam
- Most effective if De-selected K/As already identified and approved



# Sample Plan

QUESTIONS ? ? ?

OR

Comments ? ? ?