

## Written Outline K/A Selection Methodology

Waterford III used the following methodology for selecting K/As for the January 2002 Initial Licensed Operator Written Examination outlines:

1. For each Tier Group determine the topic areas within the group which are applicable (EX. – For a CE plant, eliminate topics that are applicable only to a B&W or Westinghouse plant. Be careful not to eliminate any topics that may be called by a different name in the K/A catalog, such as Incore Temperature Monitor vs. Core Exit Thermocouples).
2. Determine the number of questions per topic area by dividing the required number of questions for the Tier Group by the number of applicable topic areas. If the number of required questions can not be divided evenly by the number of topics, determine which topics get extra coverage or will not be used based on safety significance and plant specific priority. Prepare outline forms for each Tier/Group that reflect the number of questions to be selected for each topic.
3. Determine the number of K/A/G classifications that are applicable within the Tier Group.
4. Divide the number of required questions within the Tier Group by the number of applicable K/A/G classifications within the Tier Group. This determines the number of questions that should be included from each K/A/G Classification. If the required number of questions in the tier group cannot be evenly divided by the number of applicable K/A/Gs the generic category should be selected as the category that rounds out the number of questions (Generic K/As are tested additionally in its own Tier Group).
5. Prepare tokens with the number of K/A/Gs determined previously and place in a container that will not allow inadvertent viewing of the tokens while selecting. Random number generators may be used in place of the tokens.
6. Pull one token at a time from the container and fill in form ES-401-4 for the applicable Tier Group. Start at the top and work to the bottom of the list. If the same K/A/G group is selected for a topic twice return the token to the container and select again until another K/A/G group is selected. A random number generator may be used in place of tokens by designating a number for each applicable K/A/G group in the tier.

7. Using tokens or a random number generator select a K/A from the selected K/A/G group with a rating of  $\geq 2.5$  that is appropriate to be tested on the written examination. Selected K/A/G groups should only be changed if:
  - No K/As exist in the selected K/A/G group with a rating of  $\geq 2.5$ ,
  - No K/As exist within the K/A/G group which are appropriate to be tested on the written examination,
  - Or to prevent low coverage of K/A/G groups.
8. The process is repeated for each Tier Group.
9. K/As may also be replaced to ensure proper sampling of 10CFR55 requirements.