

# **Follow-up to Pre-submittal Meeting for Updated New Fuel and Spent Fuel Pool Criticality Analysis**

September 1, 2015



## **Purpose**

Address additional topics brought up in the pre-submittal meeting on May 11, 2015



## Topics

- Spent fuel pool arrays
  - See attached proposed Tech Spec page
- New fuel storage
  - Treatment of concrete and elevated temperature specifically addressed in analysis

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## Topics (cont'd)

- Soluble boron
  - Current Tech Spec 3.7.15 remains unchanged at 2150 ppm boron
- Neutron absorber monitoring program
  - New Tech Spec program based on industry operating experience
  - Existing stainless steel L-inserts not included

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## Topics (cont'd)

- Fuel reconstitution
  - Definition
  - Enrichment and burnup limits
- Linked applications
  - Licensing discussion

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## Topics (cont'd)

- Transition plan
  - Both sets of pages in Tech Specs
  - Module-by-module transition
  - When work starts in a unit, it will continue in a controlled manner until complete

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## Additional Questions ?

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Figure 3.7.17-1  
Allowable Storage Arrays

<b>Array A</b>  Two Region 1 assemblies (1) checkerboarded with two blocked cells (X). The Region 1 assemblies are each in a cell with an L-insert. No NETCO-SNAP-IN <sup>®</sup> inserts are credited.	<b>1</b>	<b>X</b>
	<b>X</b>	<b>1</b>
<b>Array B</b>  Two Region 1 assemblies (1) checkerboarded with two cells containing trash cans (TC). The Region 1 assemblies are each in a cell with an L-insert. Every cell without an L-insert must contain a NETCO-SNAP-IN <sup>®</sup> insert.	<b>1</b>	<b>TC</b>
	<b>TC</b>	<b>1</b>
<b>Array C</b>  Two Region 2 assemblies (2) checkerboarded with one Region 3 assembly (3) and one blocked cell (X). The Region 2 assemblies are each in a cell with an L-insert. The Region 3 assembly is in a cell containing a NETCO-SNAP-IN <sup>®</sup> insert.	<b>2</b>	<b>X</b>
	<b>3</b>	<b>2</b>
<b>Array D</b>  One Region 2 assembly (2) checkerboarded with three Region 4 assemblies (4). The Region 2 assembly and the diagonally located Region 4 assembly are each in a storage cell with an L-insert. The two storage cells without an L-insert contain a NETCO-SNAP-IN <sup>®</sup> insert.	<b>2</b>	<b>4</b>
	<b>4</b>	<b>4</b>
<b>Array E</b>  Four Region 5 assemblies (5). Two storage cells contain an L-insert. One cell contains a NETCO-SNAP-IN <sup>®</sup> insert. One storage cell contains no insert.	<b>5</b>	<b>5</b>
	<b>5</b>	<b>5</b>
<b>Array F</b>  Four Region 6 assemblies (6). Two storage cells contain an L-insert. The other two cells contain no inserts.	<b>6</b>	<b>6</b>
	<b>6</b>	<b>6</b>

Notes:

1. The shaded locations indicate cells which contain an L-insert.
2. A blocked cell (X) contains a blocking device and only water in the active fuel region.
3. NETCO-SNAP-IN<sup>®</sup> inserts must be oriented in the same direction as L-inserts.
4. NETCO-SNAP-IN<sup>®</sup> inserts are only located in cells without L-inserts.
5. Any cell containing fuel or a TC may instead be an empty (water-filled) cell in all storage arrays.
6. Any storage array location designated for a fuel assembly may be replaced with non-fissile material.