

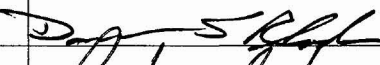
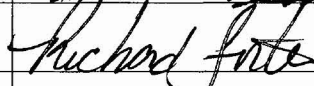
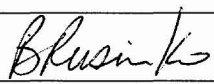
BSC

Criteria/Basis Change Notice

1. QA: N/A
 2. Page 1 of 2
 12-28-07

Complete only applicable items.

3. Document Identifier: 000-3DR-MGR0-00100-000		4. Rev.: 007	5. CBCN: 005
6a. Title: <i>Project Design Criteria Document</i>		6b. Safety Classification of SSC: Non-ITS & Non-ITWI	
7. Reason for Change: The addition of boric acid control to the Wet Handling Facility (WHF) Pool Water Treatment and Cooling System functions requires addressing heat tracing requirements for the boric acid addition piping. Boric acid must be kept at a certain temperature (above ambient) to ensure it stays in solution. Although the PDC currently identifies heat tracing design criteria in Section 4.3.1.7 for freeze protection purposes, no criterion specifies its application on the boric acid addition piping. This CBCN adds this criterion. In addition, it was identified that additional heat tracing should be provided for instrumentation, thus similar statements are necessary for Digital Controls and Management Information System equipment in Section 4.6.4. The issue is already discussed in the SAR, therefore, requiring no changes. The specific addition of heat tracing information to Engineering products included Drawing 050-M60-PW00-00301-000 issued 12/01/07 which shows electric heat tracing on the boric acid lines to prevent the boron from dropping out of solution. There are no other technical impacts.			
8. Supersedes Change Notice:		<input type="checkbox"/> Yes If, Yes, Change Notice: _____ <input checked="" type="checkbox"/> No	
9. Disciplines/Organizations Affected by this Change:			
Nuclear Facilities Project Engineer <i>AS</i> <i>02 JAN 08</i>		Mechanical Discipline Engineering Manager <i>WJ</i> <i>12/28/07</i>	Electrical and I & C Discipline Engineering Manager <i>RT</i> <i>12/28/07</i>
		ESH Review Coordinator (EM) <i>WJ</i> <i>12/28/07</i>	
		If 6b is ITS/ITWI: Quality Assurance: N/A	
10. Description of Change: Revise the following existing criterion for protecting instrumentation: 4.6.4.2.9 Winterization/Air Conditioning Instrumentation requiring winterization for protection against the cold shall be installed within thermally insulated enclosures provided with a heater and thermostat. Heat tracing, if necessary, will be provided in accordance with the codes and standards in Section 4.3.1.7. When temperature upper limits are expected to be exceeded due to heat, air-conditioning shall be provided. <i>[Winterization or trace heating and air-conditioning are the industry standard means of weather protection used for instruments that may become inoperable due to freezing or crystal precipitation and overhear, respectively. The criterion in Section 4.3.1.7 provide for how to install the heat tracing.]</i> Add the following NEW PDC criterion as follows: 4.9.7.5.6 Boric Acid Temperature Control The Pool Water Treatment and Cooling System shall provide heat tracing, as necessary, to control the solubility of the boron in solution. Heat tracing will be provided in accordance with the codes and standards in Section 4.3.1.7. <i>[This criterion is a result of industry experience with borated pool systems. Heating is required to maintain the boron in solution. This heat tracing is a sufficiently small heat input to the pool so as not to cause undue concern with pool heat removal. The criterion in Section 4.3.1.7 provide for how to install the heat tracing. The general ANS standard for pool SNF facilities does not explicitly mention particulars for boric acid or heat tracing.]</i>			

11. REVIEWS AND APPROVAL			
Printed Name	Title	Signature	Date
11a. Preparer: David S. Rhodes	Discipline Engineering Manager		1-2-08
11b. Concurrence: Richard Foster (Acting)	Manager of Discipline Engineering		1-2-08
11c. Concurrence: N/A	Project Engineering Manager	N/A	N/A
11d. Approved: Barbara Rusinko	Engineering Manager		1/3/08