

Advanced Power Reactor 1400  
ITAAC Evaluation Cross Reference Table

<p style="text-align: center;">Control Room HVAC System</p>	<p style="text-align: center;">2.7.3.1-3</p>	<p style="text-align: center;">9.4.1.4.7, 13.3.4.9, 14.3.10</p>	<p>The staff reviewed the ITAAC requirements in DCD Tier 1, Table 2.7.3.1-3, "Control Room HVAC System ITAAC," and DCD Tier 2, Section 14.3.2.7, "ITAAC for Plant Systems."</p> <p style="text-align: right;"><span style="border: 1px solid red; padding: 2px;">ITAAC</span> ↓</p> <p>The staff noticed that in DCD Tier 1, Table 2.7.3.1-3 "Control Room HVAC System <del>Components List</del>," Item 7, the acceptance criteria requires the CRHS to be "capable of providing the conditioned air to maintain the room temperature within design limits for the CRE during plant normal, abnormal and accidents conditions." However, the parameters were not specified in regards to "design limits." The staff also noted that, in Item 8.b, the acceptance criteria requires the CRHS to "maintain positive pressure in the CRE during the emergency mode," but fails to define "positive pressure." Finally, in Item 11, the staff noted that the unfiltered inleakage test method is not specified. In order to remedy these omissions, RAI 236-8293 (ML15296A007), Question 09.04.01-01, was generated to request the applicant to (1) specify the parameters to define "design limits;" (2) more clearly define positive pressure; and (3) recommend that the applicant specify ASTM E741 as the required test method in the ITAAC.</p> <p>In a November 12, 2015, response (ML15316A478) to RAI 236-8293, Question 09.04.01-01, the applicant states that:</p> <ol style="list-style-type: none"> <li>1. The specific design room temperature limits for the CRE are described in the DCD Tier 2, Section 9.4.1.1 and they vary with the areas in the CRE such as 21.1 °C to 25 °C (70 °F to 77 °F) for MCR, 18.3 °C to 26.7 °C (65 °F to 80 °F) for other support areas, 10°C to 40°C (50 °F to 104 °F) for HVAC equipment rooms. KHNP believes that specifying all the design room temperature limits in the acceptance criteria is excessive, and maintaining current term, "design limits" is adequate.</li> <li>2. The text, "positive pressure in the CRE" in the DCD Tier 1, Table 2.7.3.1-3, Acceptance Criteria 8.b will be revised to "minimum 3.175 mm (0.125 in) water gauge of positive pressure in the CRE with respect to adjacent areas."</li> <li>3. The DCD Tier 1, Table 2.7.3.1-3, Inspection, Tests, Analyses 11 will be revised to include ASTM E741-2000 as the unfiltered inleakage test method.</li> </ol> <p>The staff determined that, with the exception of providing design room temperature limits in the ITAAC, the applicant provided the information requested in RAI 236-8293. The staff concluded that, because design room temperature limits are addressed elsewhere in the DCD, it is acceptable that they not be specified in the ITAAC. The staff considers RAI 236-8293, Question 09.04.01-1, resolved.</p>
---	--	---	--

\* SER Section containing the overall 10 CFR 52.47(b)(1) conclusion for all of the ITAAC in a given table.