

Proposed Change RTS-174  
to the  
Duane Arnold Energy Center  
Technical Specifications

The holders of license DPR-49 for the Duane Arnold Energy Center propose to amend Appendix A (Technical Specifications) to said license by deleting the current pages and replacing them with the attached, new pages. A List of the Affected Pages is provided below.

List of Affected Pages

3.5-11  
3.5-24  
3.7-18

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LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
<p>H. <u>Maintenance of Filled Discharge Pipe</u></p> <p>1. Whenever core spray subsystems, LPCI subsystem, HPCI, or RCIC are required to be operable, the discharge piping from the pump discharge of these systems to the last block valve shall be filled.</p> <p>a. If the pump discharge piping of the core spray or LPCI subsystems depressurizes below the system low pressure alarm setpoint while these systems are required to be operable, the pressure shall be restored within one hour.</p> <p>I. <u>Engineered Safeguards Compartments Cooling and Ventilation</u></p> <p>If both unit coolers serving either the RCIC or HPCI room are out of service, the associated pump shall be considered inoperable for purposes of Specifications 3.5.D or 3.5.E as applicable.</p> <p>If the single unit cooler serving either compartment which houses two RHR pumps and a core spray pump is out of service for a period greater than seven days, the associated pumps shall be considered inoperable for purposes of Specification 3.5.A.</p>	<p>H. <u>Maintenance of Filled Discharge Pipe</u></p> <p>The following surveillance requirements shall be adhered to, to assure that the discharge piping of the core spray subsystems, LPCI subsystem, HPCI and RCIC are filled:</p> <p>1. Whenever the HPCI or RCIC system is lined up to take suction from the torus, the discharge piping of the HPCI and RCIC shall be vented from the high point of the system and water flow observed on a monthly basis.</p> <p>2. The pressure switches which monitor the LPCI and core spray lines to ensure they are full shall be functionally tested every operating cycle.</p> <p>I. <u>Engineered Safeguards Compartments Cooling and Ventilation</u></p> <p>The unit coolers for each of the RCIC, HPCI, Core Spray, and RHR pump rooms shall be checked for operability during surveillance testing of the associated pumps.</p>

in this piping when the pump and/or pumps are started. If a water hammer were to occur at the time at which the system were required, the system would still perform its design function. However, to minimize damage to the discharge piping, this Technical Specification requires that the core spray and LPCI subsystems' discharge piping pressure be restored within one hour after system depressurization when the system is required to be operable. When HPCI and RCIC are in their normal line-up to the Condensate Storage Tank, the system is in a configuration such that the piping is maintained in a filled condition.

#### I. Engineered Safeguards Compartments Cooling and Ventilation

One unit cooler in each pump compartment is capable of providing adequate ventilation flow and cooling. Engineering analyses indicate that the temperature rise in safeguards compartments without adequate ventilation flow or cooling is such that continued operation of the safeguards equipment or associated auxiliary equipment cannot be assured.

LIMITING CONDITION FOR OPERATION	SURVEILLANCE REQUIREMENT
<p>2. If Specification 3.7.C.1 cannot be met:</p> <ul style="list-style-type: none"> <li>a. Suspend reactor building fuel cask and irradiated fuel movement, and</li> <li>b. Restore secondary containment integrity within one hour; or,</li> <li>c. Establish the conditions specified in 3.7.C.1.a, b and c within the following 24 hours.</li> </ul>	<p>maintain the remainder of the secondary containment at 1/4 inch of water negative pressure under calm wind conditions.</p>
<p>D. <u>Primary Containment Power Operated Isolation Valves</u></p> <p>1. During reactor power operating conditions, all isolation valves listed in Table 3.7-3 and all instrument line flow check valves shall be operable except as specified in 3.7.D.2.</p>	<p>D. <u>Primary Containment Power Operated Isolation Valves</u></p> <p>1. The primary containment isolation valves surveillance shall be performed as follows:</p> <ul style="list-style-type: none"> <li>a. At least once per operating cycle the operable isolation valves that are power operated and automatically initiated shall be tested for simulated automatic initiation and closure times.</li> <li>b. At least once per quarter: <ul style="list-style-type: none"> <li>1) All normally open power operated isolation valves (except for those exempted as noted in Table 3.7-3) shall be fully closed and reopened.</li> <li>2) With the reactor power less than 75%, trip main steam isolation valves individually and verify closure time.</li> </ul> </li> <li>c. At least once per week the main steam line power-operated isolation valves shall be exercised</li> </ul>