3/4.5 · EMERGENCY CORE COOLING SYSTEMS (ECCS)

3/4.5.1 SAFETY INJECTION TANKS

EXISTING

LIMITING CONDITION FOR OPERATION

3.5.1 Each Reactor Coolant System safety injection tank shall be OPERABLE with:

a. The isolation valve open,

b. A contained borated water volume of between 1679 (78%) and 1807 (83.8%) cubic feet,

c. Between 1720 and 2300 ppm of boron, and

d. A nitrogen cover-pressure of between 600 and 625 psig.

APPLICABILITY: MODES 1, 2, 3*, and 4*.

ACTION:

a. With one safety injection tank inoperable, except as a result of a closed isolation valve, restore the inoperable tank to OPERABLE status within 1 hour or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.

b. With one safety injection tank inoperable due to the isolation valve being closed, either immediately open the isolation valve or be in at least HOT STANDBY within 1 hour and be in HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

4.5.1 Each safety injection tank shall be demonstrated OPERABLE:

a. At least once per 12 hours by:

1. Verifying the contained borated water volume and nitrogen cover-pressure in the tanks, and

2. Verifying that each safety injection tank isolation valve is open.

*With pressurizer pressure greater than or equal to 1750 psia. When pressurizer pressure is less than 1750 psia, at least three safety injection tanks must be OPERABLE, each with a minimum pressure of 235 psig and a maximum pressure of 625 psig, and a contained borated water volume of between 1332 (61%) and 1807 (83.8%) cubic feet. With all four safety injection tanks OPERABLE, each tank shall have a minimum pressure of 235 psig and a maximum pressure of 625 psig, a boron concentration of between 1720 and 2300 ppm boron, and a contained borated water volume of between 888 (39%) and 1807 (83.8%) cubic feet. In MODE 4 with pressurizer pressure less than 392 psia (700 psia for remote shutdown from LCP-43), the safety injection tanks may be isolated.

NPF-38-173
ATTACHMENT B

3/4.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)

3/4.5.1 SAFETY INJECTION TANKS

PROPOSED

LIMITING CONDITION FOR OPERATION

3.5.1 Each Reactor Coolant System safety injection tank shall be OPERABLE with:

a. The isolation valve open,

b. A contained borated water volume of between 926 ~~1679~~ (40% ~~78%~~) and 1807 (83.8%) cubic feet,

c. Between 1720 and 2300 ppm of boron, and

d. A nitrogen cover-pressure of between 600 and 670 ~~625~~ psig.

APPLICABILITY: MODES 1, 2, 3*, and 4*.

ACTION:

a. With one safety injection tank inoperable, except as a result of a closed isolation valve, restore the inoperable tank to OPERABLE status within 1 hour or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.

b. With one safety injection tank inoperable due to the isolation valve being closed, either immediately open the isolation valve or be in at least HOT STANDBY within 1 hour and be in HOT SHUTDOWN within the next 12 hours.

SURVEILLANCE REQUIREMENTS

4.5.1 Each safety injection tank shall be demonstrated OPERABLE:

a. At least once per 12 hours by:

1. Verifying the contained borated water volume and nitrogen cover pressure in the tanks, and

2. Verifying that each safety injection tank isolation valve is open.

*With pressurizer pressure greater than or equal to 1750 psia. When pressurizer pressure is less than 1750 psia, at least three safety injection tanks must be OPERABLE, each with a minimum pressure of 235 psig and a maximum pressure of 670 ~~625~~ psig, and a contained borated water volume of between 1332 (61%) and 1807 (83.8%) cubic feet. With all four safety injection tanks OPERABLE, each tank shall have a minimum pressure of 235 psig and a maximum pressure of 670 ~~625~~ psig, a boron concentration of between 1720 and 2300 ppm boron, and a contained borated water volume of between 888 (39%) and 1807 (83.8%) cubic feet. In MODE 4 with pressurizer pressure less than 392 psia (700 psia for remote shutdown from LCP-43), the safety injection tanks may be isolated.

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••Quality Assurance Manager			
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••Operations Training Supervisor			
••Simulator Training Supervisor			
••Maintenance Training Supervisor			
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•Director Design Engineering	AP	SEE ATTACHED	
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DOCNO: W3F1-95-0163

DOCDATE: 11-1-95

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From: R.P. Barkhurst (PLC)

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••Technical Services Manager	AP	SEE ATTACHED	
••Planning & Scheduling Manager			
••Systems Engineering Superintendent			
••Security Superintendent			
•Director Plant Modification & Construction			
••Modification Management Supervisor			
••Modification Scheduling & Estimating Supv.			
••Sr. Project Management Coordinator			
••Project Management Coordinator			
••Construction Manager			
•Director Site Support			
••Site Business Services Manager			
••Emergency Planning & Admin. Manager			
••Materials, Purchasing & Contracts Mgr.			
••Management Prog. & Excellence Coord.			
••Project Support Superintendent			
••Physician Medical Review Officer			
•Director Nuclear Safety	AP	RJH 10/30/95	
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••Licensing Manager	AP	DWW 10/27/95	
••Operational Experience Engrg. Manager			
••Quality Assurance Manager			
C.J. Thomas	DR	CJT 10/25/95	
•Training Manager			
••Operations Training Supervisor			
••Simulator Training Supervisor			
••Maintenance Training Supervisor			
••Technical Training Supervisor			
••Engineering Training & Accred. Supervisor			
•Director Design Engineering	AP	SEE ATTACHED	
••Proc./Programs Engrg. Manager			
••Electrical/I&C Engineering Manager			
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