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Facility: **MCGUIRE NUCLEAR STATION**
SUBJECT
MNS - TS 3.5.2 - REV. 282/261

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ADD
NRR

3.5 EMERGENCY CORE COOLING SYSTEMS (ECCS)

3.5.2 ECCS — Operating

LCO 3.5.2 Two ECCS trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

-----NOTE-----
In MODE 3, both safety injection (SI) pump or RHR pump flow paths may be isolated by closing the isolation valves for up to 2 hours to perform pressure isolation valve testing per SR 3.4.14.1.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. One or more trains inoperable.</p> <p><u>AND</u></p> <p>At least 100% of the ECCS flow equivalent to a single OPERABLE ECCS train available.</p>	<p>A.1 Restore train(s) to OPERABLE status.</p>	72 hours*†
<p>B. Required Action and associated Completion Time not met.</p>	<p>B.1 Be in MODE 3.</p> <p><u>AND</u></p> <p>B.2 Be in MODE 4.</p>	<p>6 hours</p> <p>12 hours</p>

-----NOTE-----
*‘A’ Train ECCS is allowed to be inoperable for a total of 14 days for the correction of a degraded condition on the ‘A’ Train NSWs supply piping from the Standby Nuclear Service Water Pond (SNSWP). The 14 days may be taken consecutively or in parts until completion of the activity, or by March 1, 2017, whichever occurs first. During the period in which the ‘A’ Train NSWs supply piping from the SNSWP is not available, the ‘A’ Train NSWs will remain aligned to Lake Norman until the system is ready for post maintenance testing. Any maintenance that is performed on the remaining portions of ‘A’ Train NSWs during the period in which the ‘A’ NSWs from the SNSWP supply piping is not available will be limited to a 72 hour completion time. The latter will not count against the 14 day completion time. Allowance of the extended Completion Time is contingent on meeting the Compensatory Measures and Commitments as described in MNS LAR submittal correspondence letter MNS-16-005.

† For Unit 1 only, the Completion Time for Required Action A.1 may be extended one-time to 10 days during the 1A RHR AHU repair evolution and is contingent on meeting the compensatory measures described in MNS correspondence letter MNS-15-093. Upon completion of the repair evolution, this footnote is no longer applicable and will expire on March 31, 2016.

SURVEILLANCE REQUIREMENTS

SURVEILLANCE			FREQUENCY
SR 3.5.2.1	Verify the following valves are in the listed position with power to the valve operator removed.	<u>Number</u>	In accordance with the Surveillance Frequency Control Program
		<u>Position</u>	
		<u>Function</u>	
		NI162A	
		Open	
		SI Cold Leg Injection	
		NI121A	
		Closed	
		SI Hot Leg Injection	
		NI152B	
		Closed	
		SI Hot Leg Injection	
		NI183B	
		Closed	
		RHR Hot Leg Injection	
		NI173A	
		Open	
		RHR Cold Leg Injection	
		NI178B	
		Open	
		RHR Cold Leg Injection	
		NI100B	
		Open	
		SI Pump RWST Suction	
		FW27A	
		Open	
		RHR/RWST Suction	
		NI147A	
		Open	
		SI Pump Mini-Flow	
SR 3.5.2.2	Verify each ECCS manual, power operated, and automatic valve in the flow path, that is not locked, sealed, or otherwise secured in position, is in the correct position.		In accordance with the Surveillance Frequency Control Program
SR 3.5.2.3	Verify ECCS piping is full of water.		In accordance with the Surveillance Frequency Control Program

(continued)

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE		FREQUENCY										
SR 3.5.2.4	Verify each ECCS pump's developed head at the test flow point is greater than or equal to the required developed head.	In accordance with the Inservice Testing Program										
SR 3.5.2.5	Verify each ECCS automatic valve in the flow path that is not locked, sealed, or otherwise secured in position, actuates to the correct position on an actual or simulated actuation signal.	In accordance with the Surveillance Frequency Control Program										
SR 3.5.2.6	Verify each ECCS pump starts automatically on an actual or simulated actuation signal.	In accordance with the Surveillance Frequency Control Program										
SR 3.5.2.7	<div>Verify, for each ECCS throttle valve listed below, each position stop is in the correct position.</div> <table><tr><td>Centrifugal Charging Pump Injection Throttle Valve Number</td><td>Safety Injection Pump Throttle Valve Number</td></tr><tr><td>NI480</td><td>NI488</td></tr><tr><td>NI481</td><td>NI489</td></tr><tr><td>NI482</td><td>NI490</td></tr><tr><td>NI483</td><td>NI491</td></tr></table>	Centrifugal Charging Pump Injection Throttle Valve Number	Safety Injection Pump Throttle Valve Number	NI480	NI488	NI481	NI489	NI482	NI490	NI483	NI491	In accordance with the Surveillance Frequency Control Program
Centrifugal Charging Pump Injection Throttle Valve Number	Safety Injection Pump Throttle Valve Number											
NI480	NI488											
NI481	NI489											
NI482	NI490											
NI483	NI491											
SR 3.5.2.8	Verify, by visual inspection, that the ECCS containment sump strainer assembly and the associated enclosure are not restricted by debris and show no evidence of structural distress or abnormal corrosion.	In accordance with the Surveillance Frequency Control Program										