

PLANT SYSTEMS

3/4.7.4 NUCLEAR SERVICE WATER SYSTEM

LIMITING CONDITION FOR OPERATION

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3.7.4 At least two independent Nuclear Service Water (RN) loops shall be OPERABLE.

- a. With both units in MODE 1, 2, 3 or 4, each loop shall contain two OPERABLE nuclear service water pumps and associated emergency diesel generators, two essential equipment supply and return headers, and a supply and discharge flow path capable of being aligned to the Standby Nuclear Service Water Pond (SNSWP).
- b. With only one unit in MODE 1, 2, 3 or 4, each loop shall contain at least one OPERABLE nuclear service water pump, associated emergency diesel generator, and the essential equipment supply and return header associated with the unit in MODE 1, 2, 3 or 4, and a supply and discharge flow path capable of being aligned to the SNSWP.

APPLICABILITY: Modes 1, 2, 3 and 4

ACTION: (Units 1 and 2)

- a. Both units in MODES 1, 2, 3 or 4

With only two or three RN pumps and their associated emergency diesel generators OPERABLE, restore four RN pumps and their associated emergency diesel generators to OPERABLE status within 72 hours or place at least one unit in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours, in order to restore two loops to OPERABLE status for any unit which remains in MODES 1, 2, 3 or 4.

- b. One unit in MODES 1, 2, 3 or 4

With only one RN pump and its emergency diesel generator OPERABLE, restore two loops to OPERABLE status within 72 hours or be in at least HOT STANDBY in the next 6 hours and COLD SHUTDOWN within the following 30 hours.

- c. One or Both units in MODES 1, 2, 3 or 4

1. With RN unavailable to any essential equipment declare the affected equipment inoperable and apply the applicable ACTION Statement.
2. With only one RN loop OPERABLE due to the inoperability of a shared valve, flow path or component (other than an RN pump or its uniquely associated equipment) return two loops to OPERABLE status within 72 hours or place both units in HOT STANDBY within the next 6 hours and COLD SHUTDOWN within the following 30 hours.

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CATAWBA - UNITS 1 & 2

3/4 7-12

Amendment No. 53 (Unit 1)  
Amendment No. 46 (Unit 2)

CATAMBA - UNITS 1 & 2

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Amendment No. 53 (Unit 1)  
Amendment No. 46 (Unit 2)

TABLE 4.3-2 (Continued)  
ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION  
SURVEILLANCE REQUIREMENTS

CHANNEL FUNCTIONAL UNIT	CHANNEL CHECK	CHANNEL CALIBRATION	ANALOG CHANNEL OPERATIONAL TEST	TRIP-ACTUATING DEVICE OPERATIONAL TEST	ACTUATION LOGIC TEST	MASTER RELAY TEST	SLAVE RELAY TEST	MODES FOR WHICH SURVEILLANCE IS REQUIRED
13. Annulus Ventilation Operation (Continued)								
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	Q	1, 2, 3, 4
c. Safety Injection	See Item 1. above for all Safety Injection Surveillance Requirements.							
14. Nuclear Service Water Operation								
a. Manual Initiation	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3, 4
b. Automatic Actuation Logic and Actuation Relays	N.A.	N.A.	N.A.	N.A.	M(1)	M(1)	Q	1, 2, 3, 4
c. Loss-of-Offsite Power	N.A.	R	N.A.	M(3)	N.A.	N.A.	N.A.	1, 2, 3
d. Containment Spray	See Item 2. above for all Containment Spray Surveillance Requirements.							
e. Phase "B" Isolation	See Item 3.b. above for all Phase "B" Isolation Surveillance Requirements.							
f. Safety Injection	See Item 1. above for all Safety Injection Surveillance Requirements.							
g. Suction Transfer-Low Pit Level	S(5)	R(5)	R(5)	N.A.	N.A.	N.A.	N.A.	1, 2, 3, 4
15. Emergency Diesel Generator Operation (Diesel Building Ventilation Operation, Nuclear Service Water Operation)								
a. Manual Initiation	N.A.	N.A.	N.A.	R	N.A.	N.A.	N.A.	1, 2, 3, 4