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REFERENCE

MCGUIRE NUCLEAR STATION
SELECTED LICENSEE
COMMITMENTS MANUAL

Page 2 of 2

Date: 09/20/00

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LOEP	NA	006 09/19/00	MADM-03A	V1	V1	V1	V1	V1	V1	V2	V8	V2	V1	45								
16.5.4	NA	007 09/20/00																				
ENTIRE SLC 16.9.1	NA	006 09/20/00																				

REMARKS: PLEASE UPDATE YOUR MANUAL ACCORDINGLY.

H B BARRON
VICE PRESIDENT
MCGUIRE NUCLEAR STATION

BY:
KAY CRANE MG01RC KC/CJB

10001

EB

September 19, 2000

MEMORANDUM

To: All McGuire Nuclear Station Selected Licensee Commitments (SLC) Manual Holders

Subject: McGuire SLC Manual Update

Please revise your copy of the manual as follows:

REMOVE

List of Affected Sections (Revision 5)

16.5.4-1 Rev 0
16.5.4-2 Rev 0
16.9.1-1 Rev 5
16.9.1-2 Rev 5
16.9.1-3 Rev 5
16.9.1-4 Rev 5
16.9.1-5 Rev 5
16.9.1-6 Rev 5

INSERT

List of Affected Sections (Revision 6)

16.5.4-1 Rev 7
16.5.4-2 Rev 7
16.9.1-1 Rev 6
16.9.1-2 Rev 6
16.9.1-3 Rev 6
16.9.1-4 Rev 6
16.9.1-5 Rev 6
16.9.1-6 Rev 6

Please call me if you have questions



Bonnie Beaver
Regulatory Compliance
875-4180

SLC LIST OF AFFECTED SECTIONS

SECTION	REVISION NUMBER	DATE
16.1	REVISION 0	12/14/99
16.2	REVISION 0	12/14/99
16.3	REVISION 0	12/14/99
16.4	REVISION 0	12/14/99
16.5.1	REVISION 0	12/14/99
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16.5.4	REVISION 7	09/14/00
16.5.5	REVISION 0	12/14/99
16.5.6	REVISION 0	12/14/99
16.5.7	REVISION 0	12/14/99
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16.9.16	REVISION 0	12/14/99
16.9.17	REVISION 0	12/14/99

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16.9.21	REVISION 0	12/14/99
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16.13.3	REVISION 0	12/14/99
16.14.1	REVISION 0	12/14/99

16.5 REACTOR COOLANT SYSTEM

16.5.4 RCS Instrumentation – Reduced Inventory Operation

COMMITMENT Two independent RCS level indications consisting of any valid combination of Wide Range, Narrow Range, Upper RVLIS (Train A/B), Lower RVLIS (Train A/B) or RCS ultrasonic (Loop A/C) level instrumentation shall be provided. The Wide Range and Narrow Range RCS level instrumentation shall have level alarm setpoints for low and high level with trend capability

AND

The following additional instrumentation shall be provided:

- a. Two core exit thermocouples operating while the reactor vessel head is in place, or
- b. Two additional independent RCS level indications consisting of any combination of Wide Range, Narrow Range, Lower RVLIS (Train A/B), or RCS ultrasonic (Loop A/C) level instrumentation, when the core exit thermocouples are unavailable.

-----NOTES-----

1. The OAC computer points for the required thermocouples should be used for trending and alarm.
2. Removal of the last two thermocouples shall occur no sooner than 2 hours prior to reactor vessel head removal. Replacement of at least two thermocouples shall occur within 2 hours after reinstalling the reactor vessel head.

APPLICABILITY: RCS level < 60 inches (wide range) with irradiated fuel in the core.

REMEDIAL ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Commitment not met.	A.1 Initiate action to restore the required instrumentation.	Immediately
	<u>AND</u> A.2 Suspend all activities that could perturb RCS level or change RCS pressure.	Immediately

TESTING REQUIREMENTS

None

BASES

Generic Letter 88-17 and NUREG-1410 involve concerns associated with a loss of Residual heat Removal during NC system reduced inventory. Numerous events have occurred in the industry that resulted in loss of residual heat removal during reduced inventory operation. This is of great concern due to the potential for substantial core damage occurring in a relatively short time period. This SLC depicts those commitments that are extremely important to nuclear safety, however, are not presently covered by Technical Specifications.

REFERENCES

1. Generic Letter 88-17, Loss of Decay Heat Removal
2. NUREG 1410, Loss of Vital AC Power and Residual Heat Removal During Mid-Loop Operation at Vogtle Nuclear Station.
3. Integrated Scheduling Management Procedure 3.1, Outage Planning and Execution Responsibilities
4. McGuire Nuclear Station responses to GL 88-17, dated January 3, 1989, February 2, 1989, March 10, 1989 and February 24, 1993.
5. McGuire Station Directive 3.1.3 (MSD403) - Shutdown Risk Management Guidelines.

16.9 AUXILIARY SYSTEMS

16.9.1 Fire Suppression Water System

- COMMITMENT** The Fire Suppression Water System shall be OPERABLE with:
- a. Fire suppression pump C and one other fire suppression pump, with their discharge aligned to the fire suppression header, and
 - b. An OPERABLE flow path capable of taking suction from Lake Norman and transferring water through distribution piping with OPERABLE sectionalizing control or isolation valves to the yard hydrants, the last valve ahead of the water flow alarm device on each sprinkler or hose standpipe, and the last valve ahead of the deluge valve on each Deluge or Spray System required to be OPERABLE per SLC 16.9.2 and 16.9.4.

APPLICABILITY At all times.

REMEDIAL ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. Fire suppression pumps A and B inoperable.</p> <p style="text-align: center;"><u>OR</u></p> <p>Water supply to pumps A and B inoperable.</p>	<p>A.1 Restore one pump (A or B) and its associated water supply to OPERABLE status.</p>	<p>7 days</p>
<p>B. Fire suppression pump C inoperable.</p>	<p>B.1 Restore pump to OPERABLE status.</p> <p style="text-align: center;"><u>OR</u></p> <p>B.2 Verify fire suppression pumps A and B and their water supplies are OPERABLE and at least one can be aligned to the blackout diesel generator.</p>	<p>7 days</p> <p>7 days</p>

(continued)

REMEDIAL ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. Fire suppression pumps primary automatic starting function inoperable.</p>	<p>C.1 Verify secondary automatic starting function for each pump is OPERABLE.</p> <p><u>OR</u></p> <p>C.2 Place at least one fire suppression pump in continuous operation.</p>	<p>Immediately</p> <p>Immediately</p>
<p>D. Any fire suppression pump secondary automatic starting function inoperable.</p>	<p>D.1 Verify primary automatic starting function for fire suppression pumps is OPERABLE.</p> <p><u>OR</u></p> <p>D.2 Place at least one fire suppression pump in continuous operation.</p>	<p>Immediately</p> <p>Immediately</p>
<p>E. Primary and secondary fire suppression pump automatic starting functions inoperable.</p> <p><u>OR</u></p> <p>Jockey pumps unable to maintain system header pressure.</p>	<p>E.1 Place at least one fire suppression pump in continuous operation.</p>	<p>Immediately</p>
<p>F. Fire Suppression Water System inoperable for reasons other than Condition A, B, C, D, or E.</p>	<p>F.1 Establish a backup fire suppression water system.</p>	<p>24 hours</p>

(continued)

REMEDIAL ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
G. Required Action and associated Completion Time not met.	G.1 Restore the system to OPERABLE status.	1 hour
	<u>OR</u>	
	G.2.1 Be in MODE 3.	7 hours
	<u>AND</u>	
	G.2.2 Be in MODE 4.	13 hours
	<u>AND</u>	
	G.2.3 Be in MODE 5.	37 hours

TESTING REQUIREMENTS

TEST	FREQUENCY
TR 16.9.1.1 Start each fire pump (A & B, or C) and operate for \geq 15 minutes on recirculation flow.	15 days on a STAGGERED TEST BASIS
TR 16.9.1.2 Verify each manual, power operated, or automatic valve in flow path is in its correct position.	31 days
TR 16.9.1.3 Perform a system flush of the outside distribution loop and verify no flow blockage.	6 months

(continued)

TESTING REQUIREMENTS (continued)

TEST	FREQUENCY
TR 16.9.1.4 Cycle each testable valve in flow path through one complete cycle of full travel.	12 months
TR 16.9.1.5 Verify each automatic valve in the flow path actuates to its correct position in response to a simulated automatic actuation signal.	18 months
TR 16.9.1.6 Verify each pump develops ≥ 2500 gpm at a system pressure of ≥ 125 psig in response to a simulated automatic actuation signal.	18 months
TR 16.9.1.7 Cycle each valve in flow path that is not testable during plant operation through one complete cycle of full travel.	18 months
TR 16.9.1.8 Verify each fire suppression pump starts automatically (using both primary and secondary auto-start functions) in response to a simulated automatic actuation signal and maintains Fire Suppression Water System pressure ≥ 125 psig.	18 months
TR 16.9.1.9 Perform a system flow test in accordance with NFPA Fire Protection Handbook, 14 th ed., Section 11, Chapter 5.	3 years

BASES

The OPERABILITY of the Fire Suppression Systems ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where safety-related equipment is located. The Fire Suppression System consists of the water system, spray, and/or sprinklers, Halon, and fire hose stations. The collective capability of the Fire Suppression Systems is adequate to minimize potential damage to safety-related equipment and is a major element in the facility fire protection program.

BASES (continued)

In the event that portions of the Fire Suppression Systems are inoperable, alternate backup fire-fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service. When the inoperable fire-fighting equipment is intended for use as a backup means of fire suppression, a longer period of time is allowed to provide an alternate means of fire fighting than if the inoperable equipment is the primary means of fire suppression. For McGuire Nuclear Station, fire pumps A and B serve as a backup for each other. Pump C is located separately with an independent dedicated power supply.

The Testing Requirements (TR) provide assurance that the minimum OPERABILITY requirements of the Fire Suppression Systems are met. Compliance with the testing requirements of SLC 16.9.1 ensures the main fire pumps meet all specified testing mandated by the 1978 National Fire Protection Association Code (Licensing Basis Code). Additional testing is conducted under the scope of TR 16.9.1.6 to gather pump operational data for the purpose of performance trending.

TR 16.9.1.7 requires cycling each valve in the flow path that is not testable during plant operation through one complete cycle of full travel. Although 1RF823 (Unit 1) and 1RF834 (Unit 2) are Containment Isolation check valves in the flow path, these valves are excluded from this testing requirement for the following reasons:

1. Check valves do not perform a sectionalizing control or isolation function.
2. 1RF823 and 1RF834 do not perform a dedicated fire protection system function.
3. NFPA 25 states that each control valve shall be operated through it's full range and returned to it's normal position. NFPA 25 recommends inspection of check valves internally to verify that all components operate properly, move freely, and are in good condition.
4. This exclusion is consistent with industry practices.
5. During Unit refueling outages, the Fire Suppression Water System including the check valves has been available for use.
6. Reactor Building fire hose stations are inspected every 36 months requiring opening hose valves, allowing flow through the check valves and verifying the fire protect system flow path.
7. The most common failure mode for these check valves will not affect the ability of the valve to open.

In the event the Fire Suppression Water System becomes inoperable, immediate corrective measures must be taken since this system provides the major fire suppression capability of the plant. These corrective measures include unit shutdown if a backup fire suppression water system is not established as required.

Regulatory codes and standards mandate that the fire suppression water system has automatic starting function to preclude the necessity of manual operator action. The fire suppression pumps have dual auto-start design functions to meet this requirement. The primary (0RFLP5000) auto-start control circuit will initiate all pumps operation at a set-point pressure greater than that provided by the secondary (0RYPS5010 for pump A, 0RYPS5020 for pump B and 0RYPS5030 for pump C) auto-start control circuits. Either primary or secondary auto-start control circuit is fully capable of providing the required automatic starting function.

Since the requirement for fire suppression pump automatic starting functions is intended to provide a high level of system standby readiness, it is equally acceptable to place at least one pump in continuous operation if all automatic starting functions are inoperable. Likewise, if the fire suppression water system jockey pumps are unable to maintain system header pressure, it is acceptable to maintain system OPERABILITY by placing at least one pump in continuous operation.

This selected licensee commitment is part of the McGuire Fire Protection Program and therefore subject to the provisions of McGuire Facility Operating License Conditions C.4 (Unit 1) and C.7 (Unit 2).

REFERENCES

1. McGuire Nuclear Station UFSAR, Chapter 9.5.1
2. McGuire Nuclear Station SER Supplement 2, Chapter 9.5.1 and Appendix D
3. McGuire Nuclear Station SER Supplement 5, Chapter 9.5.1 and Appendix B
4. McGuire Fire Protection Review, as revised
5. McGuire Nuclear Station SER Supplement 6, Chapter 9.5.1 and Appendix C
6. Fire Protection System OP/1/A/6400/02A
7. McGuire Nuclear Station Facility Operating Licenses, Unit 1 License Condition C.(4) and Unit 2 License Condition C.(7)
8. Fire Protection Handbook, 14th Edition, Published by the National Fire Protection Association, Chapter 5, Section 11

September 19, 2000

MEMORANDUM

To: All McGuire Nuclear Station Selected Licensee Commitments (SLC) Manual Holders

Subject: McGuire SLC Manual Update

Please revise your copy of the manual as follows:

REMOVE

List of Affected Sections (Revision 5)

16.5.4-1 Rev 0
16.5.4-2 Rev 0
16.9.1-1 Rev 5
16.9.1-2 Rev 5
16.9.1-3 Rev 5
16.9.1-4 Rev 5
16.9.1-5 Rev 5
16.9.1-6 Rev 5

INSERT

List of Affected Sections (Revision 6)

16.5.4-1 Rev 7
16.5.4-2 Rev 7
16.9.1-1 Rev 6
16.9.1-2 Rev 6
16.9.1-3 Rev 6
16.9.1-4 Rev 6
16.9.1-5 Rev 6
16.9.1-6 Rev 6

Please call me if you have questions



Bonnie Beaver
Regulatory Compliance
875-4180

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