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REFERENCE

MCGUIRE NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS
MANUAL

Page 2 of 3

Date: 03/06/02

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QA CONDITION

☐ Yes ☒ No

OTHER ACKNOWLEDGEMENT REQUIRED ☒ Yes

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DOCUMENT NO	QA COND	REV #/ DATE	DISTR CODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL
SELECTED LICENSEE COMMITMENT MANUAL	NA	019 02/25/02	MADM-03A	V1	V1	V1	V1	V1	V1	V1	V1	V1	V1	V2	V8	V1	V2	V1	51
LOEP	NA	019 02/25/02																	
SLC 16.9.11	NA	022 02/25/02																	
SLC 16.9.14	NA	022 02/25/02																	

REMARKS: PLEASE UPDATE YOUR MANUAL ACCORDINGLY

H B BARRON, JR.
VICE PRESIDENT
MCGUIRE NUCLEAR STATION

BY:

K L CRANE MG01RC KLC/CMK

X053

X053

February 25, 2002

To: 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 18
SLC 16.9.11, Revision 13
SLC 16.9.14 , Revision 13

INSERT

List of Affected Sections Revision 19
SLC 16.9.11, Revision 22
SLC 16.9.14, Revision 22

Questions should be directed to Bonnie Beaver at X4180.

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	Not Issued	
16.5.1	REVISION 0	12/14/99
16.5.2	REVISION 0	12/14/99
16.5.3	REVISION 0	12/14/99
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
16.5.8	REVISION 0	12/14/99
16.5.9	REVISION 0	12/14/99
16.5.10	REVISION 0	12/14/99
16.6.1	REVISION 0	12/14/99
16.6.2	REVISION 0	12/14/99
16.6.3	REVISION 0	12/14/99
16.7.1	REVISION 0	12/14/99
16.7.2	REVISION 16	9/26/01
16.7.3	REVISION 0	12/14/99
16.7.4	REVISION 1	4/11/00
16.7.5	REVISION 0	12/14/99
16.7.6	REVISION 0	12/14/99
16.7.7	REVISION 0	12/14/99
16.7.8	REVISION 0	12/14/99
16.7.9	REVISION 0	12/14/99
16.7.10	REVISION 0	12/14/99
16.8.1	REVISION 2	4/11/00
16.8.2	REVISION 0	12/14/99
16.8.3	REVISION 2	4/11/00
16.9.1	REVISION 18	12/4/01
16.9.2	REVISION 5	5/24/00
16.9.3	REVISION 0	12/14/99
16.9.4	REVISION 1	03/02/00
16.9.5	REVISION 0	12/14/99
16.9.6	REVISION 0	12/14/99
16.9.7	REVISION 14	7/26/01
16.9.8	REVISION 0	12/14/99
16.9.9	REVISION 13	2/26/01
16.9.10	REVISION 13	2/26/01
16.9.11	REVISION 22	2/25/02
16.9.12	REVISION 13	2/26/01
16.9.13	REVISION 13	2/26/01
16.9.14	REVISION 22	2/25/02
16.9.15	REVISION 4	6/20/00
16.9.16	REVISION 19	12/03/01
16.9.17	REVISION 0	12/14/99

SLC LIST OF AFFECTED SECTIONS

SECTION	REVISION NUMBER	DATE
16.9.18	REVISION 0	12/14/99
16.9.19	REVISION 0	12/14/99
16.9.20	REVISION 8	11/30/00
16.9.21	REVISION 0	12/14/99
16.9.22	REVISION 0	12/14/99
16.9.23	Not Issued	
16.9.24	REVISION 20	1/17/02
16.10.1	REVISION 0	12/14/99
16.11.1	REVISION 9	2/1/01
16.11.2	REVISION 21	1/17/02
16.11.3	REVISION 0	12/14/99
16.11.4	REVISION 0	12/14/99
16.11.5	REVISION 0	12/14/99
16.11.6	REVISION 0	12/14/99
16.11.7	REVISION 12	3/14/01
16.11.8	REVISION 0	12/14/99
16.11.9	REVISION 0	12/14/99
16.11.10	REVISION 0	12/14/99
16.11.11	REVISION 0	12/14/99
16.11.12	REVISION 0	12/14/99
16.11.13	REVISION 0	12/14/99
16.11.14	REVISION 21	1/17/02
16.11.15	REVISION 21	1/17/02
16.11.16	REVISION 1	4/11/00
16.11.17	REVISION 1	4/11/00
16.11.18	REVISION 0	12/14/99
16.11.19	REVISION 0	12/14/99
16.11.20	REVISION 0	12/14/99
16.12.1	REVISION 0	12/14/99
16.12.2	REVISION 0	12/14/99
16.13.1	REVISION 0	12/14/99
16.13.2	REVISION 0	12/14/99
16.13.3	REVISION 0	12/14/99
16.14.1	REVISION 0	12/14/99

16.9 AUXILIARY SYSTEMS

16.9.11 Borated Water Sources (Operating)

COMMITMENT As a minimum, the following borated water source(s) shall be OPERABLE as required by SLC 16.9.9:

- a. A boric acid tank (BAT) and,
- b. The refueling water storage tank.

APPLICABILITY MODES 1, 2, and 3,
MODE 4 with all RCS cold leg temperatures > 300°F.

REMEDIAL ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Required boric acid tank inoperable.	A.1 Restore the required boric acid tank to OPERABLE status.	72 hours
B. Required Action and associated Completion Time of Condition A not met.	B.1 Be in MODE 3.	6 hours
	<u>AND</u>	
	B.2 Borate to the SDM requirements of TS 3.1.1	6 hours
	<u>AND</u>	
	B.3 Restore the required boric acid tank to OPERABLE status.	7 days
C. Required Action and associated Completion Time of Condition B not met.	C.1 Be in MODE 4 with any RCS cold leg temperature $\leq 300^{\circ}\text{F}$.	30 hours

(continued)

REMEDIAL ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
D. Refueling water storage tank inoperable.	D.1 Enter the applicable Conditions and Required Actions of LCO 3.5.4, "Refueling Water Storage Tank."	Immediately

TESTING REQUIREMENTS

TEST	FREQUENCY
TR 16.9.11.1 Verify the refueling water storage tank solution temperature is $\geq 70^{\circ}\text{F}$ and $\leq 100^{\circ}\text{F}$ when the outside air temperature is $< 70^{\circ}\text{F}$ or $> 100^{\circ}\text{F}$.	24 hours
TR 16.9.11.2 Verify the boron concentration of the required borated water source is within the limits specified in the COLR.	7 days
TR 16.9.11.3 Verify the borated water volume of the required borated water source is within the limits specified in the COLR.	7 days
TR 16.9.11.4 Verify the boric acid tank solution temperature is $\geq 65^{\circ}\text{F}$ when the boric acid storage tank is a required source.	7 days

BASES

The borated water sources ensure that negative reactivity control is available during each mode of facility operation.

In Modes 1-3 and Mode 4 with all RCS cold leg temperatures above 300°F , a minimum of two borated water sources are required to ensure single functional capability in the event an assumed failure renders one of the sources inoperable. The boration capability of either borated water source, in association with a flow path and charging pump, is sufficient to provide a SDM from expected operating conditions of 1.3% delta k/k after xenon decay and cooldown.

The SLC commitment values are presented in the Core Operating Limits Report (COLR) as:
(1) the minimum boron concentrations and minimum volumes necessary to attain and

BASES (continued)

maintain SDM in the BAT or the refueling water storage tank, (2) the minimum contained volumes in the BAT or the refueling water storage tank, and (3) a curve specifying the minimum contained volume in the BAT near EOC. The minimum contained water volume is based on the required volume to maintain shutdown margin, an allowance for water not available because of discharge line location and additional margin. The additional margin term includes allowances for instrument uncertainty, vortexing and a margin term consisting of at least 5% of the volume necessary for SDM. The COLR specified volumes are volumes reserved for use during a cooldown, and in conjunction with the boron concentrations, satisfy SDM requirements during Modes 1-3 and Mode 4 with all RCS cold leg temperatures above 300 °F.

Boric Acid Tank Requirements for Maintaining SDM

Required volume for maintaining SDM	Presented in the COLR
Unusable volume (to maintain full suction pipe)	4,199 gallons
Additional margin	4,100 gallons

Refueling Water Storage Tank Requirements for Maintaining SDM

Required volume for maintaining SDM	Presented in the COLR
Unusable volume (to maintain full suction pipe)	16,000 gallons
Additional margin	23,500 gallons

The limits on contained water volume and boron concentration of the RWST also ensure a pH value of between 7.5 and 9.5 for the solution recirculated within containment after a LOCA. This pH band minimizes the evolution of iodine and minimizes the effect of chloride and caustic stress corrosion on mechanical systems and components.

REFERENCES

None

16.9 AUXILIARY SYSTEMS

16.9.14 Borated Water Sources (Shutdown)

COMMITMENT One of the following borated water sources shall be OPERABLE:

- a. A boric acid tank (BAT), or
- b. The refueling water storage tank.

APPLICABILITY MODE 4 with any RCS cold leg temperature $\leq 300^{\circ}\text{F}$,
MODES 5 and 6.

REMEDIAL ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Required borated water source inoperable.	A.1 Suspend CORE ALTERATIONS.	Immediately
	<u>AND</u> A.2 Suspend positive reactivity additions.	Immediately

TESTING REQUIREMENTS

TEST	FREQUENCY
TR 16.9.14.1 Verify the refueling water storage tank solution temperature is $\geq 70^{\circ}\text{F}$ when the outside air temperature is $< 70^{\circ}\text{F}$.	24 hours
TR 16.9.14.2 Verify the boron concentration of the required borated water source is within the limits specified in the COLR.	7 days

(continued)

TESTING REQUIREMENTS (continued)

TEST	FREQUENCY
TR 16.9.14.3 Verify the borated water volume of the required borated water source is within the limits specified in the COLR.	7 days
TR 16.9.14.4 Verify the boric acid tank solution temperature is $\geq 65^{\circ}\text{F}$ when the boric acid storage tank is a required source.	7 days

BASES

The borated water sources ensure that negative reactivity control is available during each mode of facility operation.

In Mode 4 with any RCS cold leg temperature below 300°F . and in Modes 5 and 6, one borated water source is acceptable without single failure consideration on the basis of the stable reactivity condition of the reactor and the additional restrictions prohibiting core alterations and positive reactivity changes in the event the single borated water source becomes inoperable. The boration capability of one borated water source, in association with a flow path and charging pump, is sufficient to provide SDM of 1.3% delta k/k in Mode 4 and 1.0% delta k/k in Modes 5 and 6 after xenon decay and cooldown to 68°F .

The SLC commitment values are presented in the Core Operating Limits Report (COLR) as: (1) the minimum boron concentrations and minimum volumes necessary to attain and maintain SDM in the boric acid tank or the refueling water storage tank, (2) the minimum contained volumes in the boric acid tank or the refueling water storage tank, and (3) a curve specifying the minimum contained volume in the boric acid tank near EOC. The minimum contained water volume is based on the required volume to maintain shutdown margin, an allowance for water not available because of discharge line location and additional margin. The additional margin term includes allowances for instrument uncertainty, vortexing and a margin term consisting of at least 5% of the volume necessary for SDM. The COLR specified volumes and boron concentrations satisfy SDM requirements during Mode 4 with any RCS cold leg temperature below 300°F and in Modes 5 and 6.

Boric Acid Tank Requirements for Maintaining SDM

Required volume for maintaining SDM	Presented in the COLR
Unusable volume (to maintain full suction pipe)	4,199 gallons
Additional margin	4,100 gallons

Refueling Water Storage Tank Requirements for Maintaining SDM

Required volume for maintaining SDM	Presented in the COLR
Unusable volume (to maintain full suction pipe)	16,000 gallons
Additional margin	23,500 gallons

BASES (continued)

The limits on contained water volume and boron concentration of the RWST also ensure a pH value of between 7.5 and 9.5 for the solution recirculated within containment after a LOCA. This pH band minimizes the evolution of iodine and minimizes the effect of chloride and caustic stress corrosion on mechanical systems and components.

REFERENCES

None