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BY KAY L CRANE MG01RC KLC/CJB

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August 31, 1995

To: All Holders of the Selected Licensee Commitments Manual

Please find attached a revision to the Selected Licensee Commitments Manual. On August 2, 1995, the NRC approved TS changes which relocate certain Turbine Overspeed Protection, Seismic Instrumentation, Meteorological Instrumentation, and Loose-Part Detection System TS requirements from the TS to the SLC.

Your copy of the manual should be revised as follows:

Remove these pages:	**Insert these pages:**
List of Effective Pages Revision 3	List of Effective Pages Revision 4
Page 16.7-1	Page 16.7-1 through Page 16.7-14 dated 8/95

Questions or problems should be directed to Kay Crane, McGuire Regulatory Compliance at extension 4306.

Kay L. Crane,
McGuire Regulatory Compliance

McGuire Nuclear Station
Selected Licensee Commitments
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MCGUIRE NUCLEAR STATION
FINAL SAFETY ANALYSIS REPORT
SELECTED LICENSEE COMMITMENTS
CHAPTER 16.7

INSTRUMENTATION

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16.7-1 ATWS/AMSAC
16.7-2 Seismic Instrumentation
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16.7-4 Loose-Part Detection System
16.7-5 Turbine Overspeed Protection

16.7 INSTRUMENTATION

16.7-1 ATWS/AMSAC

COMMITMENT

a. The ATWS/AMSAC system shall be OPERABLE.

APPLICABILITY: Mode 1, above 40%.

REMEDIAL ACTION:

a. With ATWS/AMSAC system inoperable, restore it to operable status within 7 days or provide a written report within the next 30 days. This report shall outline the cause of the malfunction and the plans for restoring the system to OPERABLE status.

TESTING REQUIREMENTS:

a. Perform an ANALOG CHANNEL OPERATIONAL TEST on the ATWS/AMSAC system at least once per 18 months.

REFERENCES:

1. Final Design Description, ATWS Mitigation System Activation Circuitry, "AMSAC", Original Issue January 23, 1987, as revised.

16.7-2 SEISMIC INSTRUMENTATION

COMMITMENT:

a. The seismic monitoring instrumentation shown in Table 16.7-2A shall be OPERABLE.

APPLICABILITY:

At all times.

REMEDIAL ACTION:

a. With one or more seismic monitoring instruments inoperable for more than 30 days, prepare and submit a Special Report to the Commission pursuant to Technical Specification 6.9.2 within the next 10 days outlining the cause of the malfunction and the plans for restoring the instrument(s) to OPERABLE status.

TESTING REQUIREMENTS:

a. Each of the above seismic monitoring instruments shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK, CHANNEL CALIBRATION and ANALOG CHANNEL OPERATIONAL TEST operations at the frequencies shown in Table 16.7-2B.

b. Each of the above accessible seismic monitoring instruments actuated during a seismic event greater than or equal to 0.01 g shall be restored to OPERABLE status within 24 hours following the seismic event. Data shall be retrieved from accessible actuated instruments and analyzed to determine the magnitude of the vibratory ground motion. Data retrieved from the triaxial time-history accelerograph shall include a post-event CHANNEL CALIBRATION obtained by actuation of the internal test and calibrate function immediately prior to removing data. CHANNEL CALIBRATION shall be performed immediately after insertion of the new recording media in the triaxial time-history accelerograph recorder. A Special Report shall be prepared and submitted to the Commission pursuant to Technical Specification 6.9.2, with a copy to Director, Office of Nuclear Reactor Regulation, Attention: Chief, Structural and Geotechnical Engineering Branch, U. S. Nuclear Regulatory Commission, Washington, D.C. 20555, within 10 days describing the magnitude,

frequency spectrum, and resultant effect upon facility features important to safety.

REFERENCES: N/A

BASES:

16.7-2 SEISMIC INSTRUMENTATION

The OPERABILITY of the seismic instrumentation ensures that sufficient capability is available to promptly determine the magnitude of a seismic event and evaluate the response of those features important to safety. This capability is required to permit comparison of the measured response to that used in the design basis for the facility to determine if plant shutdown is required pursuant to Appendix A of 10 CFR Part 100. The instrumentation is consistent with the recommendations of Regulatory Guide 1.12, "Instrumentation for Earthquakes," April 1974.

TABLE 16.7-2A

SEISMIC MONITORING INSTRUMENTATION

INSTRUMENTS AND SENSOR LOCATIONS	MEASUREMENT RANGE	MINIMUM INSTRUMENTS OPERABLE
1. Triaxial Time-History Accelerographs		
a. 1MIMT 5000 (Remote Sensor A) Containment Base Slab	0-1g	1
b. 1MIMT 5010 (Remote Sensor B) Containment Wall Elev 786'5"	0-1g	1
c. 1MIMT 5020 (Starter Unit) Containment Base Slab	0.005 - 0.05 g	1
2. Triaxial Peak Accelerographs		
a. 1MIMT 5030 - Containment Bldg. Elev 799' 9 9/16"	0-2g	1
b. 1MIMT 5040 - Containment Bldg. Elev 746' 2½"	0-2g	1
c. 1MIMT 5050 - Auxiliary Bldg. Elev 716' 6"	0-2g	1
3. Triaxial Seismic Switches		
1MIMT 5060 - Containment Base Slab	0.025 to 0.25 g	1*
4. Triaxial Response-Spectrum Recorders		
a. 1MIMT 5070 - Containment Base Slab	0-2g	1*
b. 1MIMT 5080 - Containment Bldg. Elev 751' 8 1/4"	0-2g	1
c. 1MIMT 5090 - Auxiliary Bldg. Elev 750'	0-2g	1

*With reactor control room indication.

TABLE 16.7-2B

SEISMIC MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

INSTRUMENTS AND SENSOR LOCATIONS	CHANNEL CHECK	CHANNEL CALIBRATION	ANALOG CHANNEL OPERATIONAL TEST
1. Triaxial Time-History Accelerographs			
a. 1MIMT 5000 (Remote Sensor A) Containment Base Slab	M*	R	SA
b. 1MIMT 5010 (Remote Sensor B) Containment Wall Elev 786'5"	M*	R	SA
c. 1MIMT 5020 (Starter Unit) Containment Base Slab	N.A.	R	SA
2. Triaxial Peak Accelerographs			
a. 1MIMT 5030 - Containment Bldg. Elev 799' 9 9/16"	N.A.	R	N.A.
b. 1MIMT 5040 - Containment Bldg. Elev 746' 2½"	N.A.	R	N.A.
c. 1MIMT 5050 - Auxiliary Bldg. Elev 716' 6"	N.A.	R	N.A.
3. Triaxial Seismic Switches			
1MIMT 5060 - Containment Base Slab**	M	R	SA
4. Triaxial Response-Spectrum Recorders			
a. 1MIMT 5070 - Containment Base Slab**	M	R	SA
b. 1MIMT 5080 - Containment Bldg. Elev 751' 8 1/4"	N.A.	R	N.A.
c. 1MIMT 5090 - Auxiliary Bldg. Elev 750'	N.A.	R	N.A.

*Except seismic trigger.

**With reactor control room indications.

16.7-3 METEOROLOGICAL INSTRUMENTATION

COMMITMENT:

a. The meteorological monitoring instrumentation channels shown in Table 16.7-3A shall be OPERABLE.

APPLICABILITY:

At all times.

REMEDIAL ACTION:

a. With one or more required meteorological monitoring channels inoperable for more than 7 days, prepare and submit a Special Report to the Commission pursuant to Technical Specification 6.9.2 within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status.

TESTING REQUIREMENTS:

a. Each of the above meteorological monitoring instrumentation channels shall be demonstrated OPERABLE by the performance of the CHANNEL CHECK and CHANNEL CALIBRATION operations at the frequencies shown in Table 16.7-3B.

REFERENCES: N/A

BASES:

16.7-3 METEOROLOGICAL INSTRUMENTATION

The OPERABILITY of the meteorological instrumentation ensures that sufficient meteorological data are available for estimating potential radiation doses to the public as a result of routine or accidental release of radioactive materials to the atmosphere. This capability is required to evaluate the need for initiating protective measures to protect the health and safety of the public and is consistent with the recommendations of Regulatory Guide 1.23, "Onsite Meteorological Programs," February 1972.

TABLE 16.7-3A

METEOROLOGICAL MONITORING INSTRUMENTATION

INSTRUMENT	LOCATION	MINIMUM OPERABLE
1. Wind Speed		
a. Meteorological Tower	Nominal Elev. 786'	1
b. Meteorological Tower	Nominal Elev. 886'	1
2. Wind Direction		
a. Meteorological Tower	Nominal Elev. 786'	1
b. Meteorological Tower	Nominal Elev. 886'	1
3. Air Temperature - ΔT		
Meteorological Tower	Nominal Elev. 886'-786'	1

TABLE 16.7-3B

METEOROLOGICAL MONITORING INSTRUMENTATION
SURVEILLANCE REQUIREMENTS

INSTRUMENT	CHANNEL CHECK	CHANNEL CALIBRATION
1. Wind Speed		
a. Nominal Elev. 786'	D	SA
b. Nominal Elev. 886'	D	SA
2. Wind Direction		
a. Nominal Elev. 786'	D	SA
b. Nominal Elev. 886'	D	SA
3. Air Temperature - ΔT		
Nominal Elev. 886'- 786'	D	SA

16.7-4 LOOSE-PART DETECTION SYSTEM

COMMITMENT:

a. The Loose-Part Detection System shall be OPERABLE.

APPLICABILITY:

MODES 1 and 2.

REMEDIAL ACTION:

a. With one or more Loose-Part Detection System channels inoperable for more than 30 days, prepare and submit a Special Report to the Commission pursuant to Technical Specification 6.9.2 within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status.

TESTING REQUIREMENTS:

a. Each channel of the Loose-Part Detection Systems shall be demonstrated OPERABLE by performance of:

   1. A CHANNEL CHECK at least once per 24 hours, and

   2. An ANALOG CHANNEL OPERATIONAL TEST except for verification of Setpoint at least once per 31 days, and

   3. A CHANNEL CALIBRATION at least once per 18 months.

REFERENCES: N/A

BASES:

16.7-4 LOOSE-PART DETECTION INSTRUMENTATION

The OPERABILITY of the loose-part detection instrumentation ensures that sufficient capability is available to detect loose metallic parts in the reactor system and avoid or mitigate damage to reactor system components. The allowable out-of-service times and Surveillance Requirements are consistent with the recommendations of Regulatory Guide 1.133, "Loose-Part Detection Program for the Primary System of Light-Water-Cooled Reactors," May 1981.

16.7 INSTRUMENTATION

16.7-5 TURBINE OVERSPEED PROTECTION

COMMITMENT:

a. At least one Turbine Overspeed Protection System shall be OPERABLE.

APPLICABILITY: MODE 1.

REMEDIAL ACTION:

a. With one stop valve or one governor valve per high pressure turbine steam lead inoperable and/or with one reheat stop valve or one reheat intercept valve per low pressure turbine steam lead inoperable, restore the inoperable valve(s) to OPERABLE status within 72 hours, or close at least one valve in the affected steam lead(s) or isolate the turbine from the steam supply within the next 6 hours.

b. With the above required Turbine Overspeed Protection System otherwise inoperable, within 6 hours isolate the turbine from the steam supply.

TESTING REQUIREMENTS:

a. To assure operability of the above required Turbine Overspeed Protection System, an inservice inspection of the various components of this system are carried out in accordance with the "Turbine Overspeed Reliability Assurance Program."

REFERENCES: N/A

BASES:

16.7-5 TURBINE OVERSPEED PROTECTION

This commitment is provided to ensure that the turbine overspeed protection instrumentation and the turbine speed control valves are OPERABLE and will protect the turbine from excessive overspeed. Protection from turbine excessive overspeed is required since excessive overspeed of the turbine could generate potentially damaging missiles. All Category I structures except the new fuel vault at McGuire, are designed to withstand effects of turbine missiles without

any adverse impact on the safety related equipment housed inside (FSAR Section 3.5.2.7 and 10.2.3). To assure protection against turbine overspeed a "Turbine Overspeed Reliability Program" is implemented. Tests and inspections associated with this program will be performed in accordance with station procedures, maintenance work requests and/or outage work schedules as appropriate. All deviations from the program or deficiencies identified through the specified maintenance, calibration or testing activities are evaluated by Duke Power Company to determine if operability of the system has been affected and appropriate action taken such as correcting the deviation or deficiency, performing compensatory action, or removing the turbine from service.