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DUKE POWER

April 8, 1991

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Subject: McGuire Nuclear Station, Units 1 and 2
Docket Nos. 50-369 and 50-370
Pump and Valve Inservice Testing Program
Program Revision 16 (Unit 1) and 12 (Unit 2)
[Relief Request No. 91-01]
(TACS 61271/61272)

Gentlemen:

Please find enclosed (pursuant to 10CFR 50.4 and 50.55a(g)) for NRC staff use and review ten copies of Unit 1 Revision 16 and Unit 2 Revision 12 of the McGuire Nuclear Station Pump and Valve (IWP/IWV) Inservice Testing Program.

These revisions are the result of program enhancements identified by McGuire Design Study 0106, recently issued Design Basis Documents, and the recently received Safety Evaluation Report (SER) of the IST program. The changes to the valve portion are summarized on Attachment 1, and the pump portion on Attachment 2. Only the affected pages are attached.

The McGuire SER was based on Unit 1 Revision 14 and Unit 2 Revision 10 of the IST program. Unit 1 Revision 15 and Unit 2 Revision 11 were issued prior to receiving this SER, and the changes included in them are not recognized by the NRC. The attached revisions resubmit those changes previously identified in the last revision, as well as additional changes.

Since this revision includes additions and deletions which are outside the scope of Generic Letter 89-04, Section D, it is requested that the NRC review this material and notify Duke Power Company by July 1, 1991 as to its acceptability.

If you have any questions regarding the enclosed material, please call L.J. Rudy at (704) 373-3413.

Very truly yours,

M.S. Tuckman

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LJR/s

Attachments/Enclosures

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ATTACHMENT 1
McGUIRE UNITS 1 AND 2 IWV PROGRAM REVISIONS

Note: Revisions are for both Units unless indicated otherwise.

1. Table of Contents

- a) Added Airlock (IA) system
- b) Added Diesel Generator Cooling Water (KD) system
- c) Added Control Area Ventilation (VC) system - Unit 1 only
- d) Changed page numbers appropriately.

2. Section II.2 Table of Abbreviations

- a) Added FS -Fail Safe to Legend

3. Section II.3 Definitions

- a) Added Failsafe (FS) and defined how failsafe testing will be conducted.

4. Section II.4 Data Sheets

- a) All data sheets were revised to exclude stroke time requirements. "Rapid Acting" 2 second valves were identified in the remarks column of revision 15 & 11, but removed in revision 16 & 12.
- b) Data sheet page numbers changed to reflect addition of IA, KD and VC systems in both units.
- c) CA-0020AB, CA-0027A, CA-0032B

Changed category to AC and added LT to test requirements. It was determined that leakage past these valves is critical because it would not be directed to the S/G's.
- d) CA-0161C, CA-0162C

Deleted from the program because the valves were determined not to have a safety function per Design Study MGDS-0106.
- e) CA-0165, CA-0166

Added MTC to valves. Design Study 0106 determined valves have a safety function to close.

- f) FD-0092, FD-0104

Added MTC to valves. Design Study 0106 determined the valves have a safety function to close.

- g) FD-0093, FD-0105

New valves added to the program identified by Design Study 0106.

- h) IA-5080, IA-5160, IA-5340, IA-5350,
IA-5360, IA-5370, IA-5380, IA-5390

New system and valves added to program as a result of review of program and modification to airlock valves.

- i) 1KC-0001A

Removed one of two listings for this valve - Unit 1 only.

- j) 1KC-0340

Corrected typographical error. Changed LY to LT.

- k) 2KC-0340

Corrected test requirements. Deleted ST-Q. Added LT-RF.

- l) KC-0800

New valve added to the program identified by Design Study MGDS-0106.

- m) 1KC-0897, 1KC-0903, 1KC-0958

New valves added to the program identified by Design Study MGDS-0106.

- n) KC-0972

Changes Test Requirement frequency from SP-RF to SP-3R. Addition of KC-0800 into this test group changes the frequency interval.

- o) KD-0009, KD-0029

New system and valves added to program identified by Design Study 0106.

- p) NF-0228a, NF-0233b, NF-0234A

Deleted relief request NF-2 as a result of SER.

q) NI-0136B

Changed to cold shutdown valve.

r) NS-0004, NS-0021

Added MTC to valves. Determined to have a safety function to close per Design Study 0106.

s) NS-0038B, NS-0043A

Changed to cold shutdown valves.

t) NV-0001A, NV-0002A, NV-0022, NV-0842AC
NV-0844, NV-1007, NV-1008, NV-1009
NV-1010, NV-1012C, NV-1013C

Valves deleted from IWV program. They were determined not to have a safety function per Design Study 0106.

u) NV-1002

Deleted test requirement MTO. Valve evaluated not to have a safety function per Design Study 0106.

v) NV-1046

Added valve to program. Identified by Design Study MGDS-0106.

w) 2NV-0035A

Added valve to program. New valve in system to serve same function as 2NV-0459A. Added per NSM MG-22123.

x) 2NV-0459A

Deleted valve from program. Valve replaced with 2NV-0035A per NSM MG-22123.

y) ORN-0004AC, ORN-0148AC

Last revision incorrectly deleted these valves from submittal. This revision adds them back to submittal. They were never removed from testing program.

z) RN-0021A, RN-0022A, RN-0025B, RN-0026B

Cold shutdown justification deleted. Timing method now permits quarterly testing.

- aa) 1RN-0042A, 1RN-0063B, 1RN-0064A, 1RN-0252B
1RN-0253A, 1RN-0276A, 1RN-0277B

Corrected cold shutdown justification numbers.

- bb) 1RN-0442, 1RN-0445, 1RN-0457, 1RN-0460

New valves added to the program. Identified by Design Study MGDS-0106.

- cc) 2RV-0126, 2RV-0130

Deleted valves from program. NSM MG2-2247 removed these valves.

- dd) 2RV-0445, 2RV-0446

Added valves to program. NSM MG2-2247 installed these valves.

- ee) SM-0009AB, SM-0010AB, SM-0011AB, SM-0012AB

Cold shutdown justification deleted. Timing method now permits quarterly testing.

- ff) 1VC-0001A, 1VC-0002A, 1VC-0003B, 1VC-0004B
1VC-0009A, 1VC-0010A, 1VC-0011B, 1VC-0012B

New system and valves added to the program identified by Design Basis document MCS-1578.VC-00-0001.

- gg) VG-0003, VG-0004, VG-0017, VG-0018
VG-0019, VG-0020

New valves added to the program identified by Design Basis document MCS-1609.VG-00-0001.

- hh) 1VI-0040, 1VI-0124, 1VI-0129B, 1VI-0148B
1VI-0149, 1VI-0150B, 1VI-0160B, 1VI-0161
1VI-0362A

Flow diagram numbers and coordinates changed to reflect redrawn flow diagrams.

- ii) VI-0135, VI-0136, VI-0137, VI-0138
VI-0139, VI-0140, VI-0141, VI-0142

Valves added to the program. Identified with PIR O-M89-0239.

jj) 2WE-0013, 2WE-0023

Deleted valves from program. NSM MG2-2244 capped penetration and removed these from the containment isolation valve list.

kk) 1YC-0054, 1YC-0076, 1YC-0113, 1YC-0135
1YC-0148, 1YC-0162, 1YC-0176, 1YC-0190
1YC-0204, 1YC-0218, 1YC-0232, 1YC-0246
1YC-0347, 1YC-0357

Valves added to the program. Identified with PIR 0-M89-72.

4. Section II.6 Specific Relief Requests

a) RR-CA1

Added description of why valves cannot be partial stroke tested.

b) RR-IA1

New relief request added as a result of adding valves to program.

c) RR-NB1

Clarified alternate testing will performed in accordance with Appendix J.

d) RR-NF1

Deleted basis #2. Tech Specs allow testing this penetration without draining glycol.

e) RR-NF2

Deleted relief request. Tech Specs allow testing this penetration without draining glycol.

f) RR-RV1

Deleted relief request. Valves removed by modification NSM MG2-2247. Unit 2 only.

g) RR-VI3

New relief request added as a result of adding valves to program.

5. Section II.7 Cold Shutdown Justifications

a) CS-FW1

Deleted 'but prior to Mode 3 (Hot Standby)' in alternate testing. FW-0027A can be cycled closed for testing pursuant to Tech Spec 4.4.6.2.2 in Mode 3. The valve may be tested at that time.

b) CS-FW2

Deleted 'and partial stroked quarterly.' Testing method available does not verify partial stroke.

c) CS-ND4

Corrected typographical error on Unit 1. Changed 'seal' to 'seat' in alternate testing. Added 'and depressurized' following 'at cold shutdown.' ND-70 can not be seat leak tested unless the NC system is depressurized.

d) CS-ND5

Replaced 'done at refueling' with 'performed at cold shutdown' to eliminate the conflict of terms. Added 'and depressurized' following 'at cold shutdown.' ND-71 can not be seat leak tested unless the NC system is depressurized.

e) CS-ND6

Corrected spelling error on Unit 1. Changed 'presure' to 'pressure' in Basis.

f) CS-NI17

Deleted 'by acoustic emission monitoring' in Alternate Testing. This method of testing is not used on these valves.

g) CS-NI21

New shutdown justification for NI-136B. Stroking NI-136B on line degrades the ND system.

h) CS-NS1

New shutdown justification for NS-38B and NS-43A.
Stroking these valves on line degrades the ND system.

i) CS-NV3

Shutdown justification deleted because NV-1A and NV-2A were deleted from the scope of IWV per Design Study MGDS-0106.

j) CS-NV5

Shutdown justification deleted because NV-22 was deleted from the scope of IWV per Design Study 0106.

k) CS-NV6

Shutdown justification deleted because NV-1007, NV-1008, NV-1009 and NV-1010 were deleted from the scope of IWV per Design Study 0106.

l) CS-NV10 (Unit 2 Only)

Shutdown justification deleted because 2NV-459A has had its function replaced by 2NV-35A per NSM MG-22123. With new valve characteristics, the vibration concerns are no longer valid.

m) CS-NV16

New shutdown justification added because of NV-1046 added to the program identified by Design Study 0106.

n) CS-RN1

Shutdown justification deleted. Valves RN-21A, RN-22A, RN-25B and RN-26B have enhanced timing methods that allow the valves to be timed quarterly.

o) CS-RN4

Replaced 'the charging pump' with 'heat exchangers' in Basis to eliminate confusion.

p) CS-SM2

Shutdown justification deleted. Valves SM-0009AB, SM-0010AB, SM-0011AB, SM-0012AB have timing methods that allow the valves to be timed quarterly.

q) CS-VG1

New shutdown justification added because of adding VG-17, VG-18, VG-19 and VG-20 to the program identified by Design Basis document MCS-1578.VC-00-0001.

r) CS-FW2, CS-ND4, CS-ND5, CS-ND6, CS-NI13, CS-NI14, CS-NI15, CS-NI16, CS-NI17, CS-NI18, CS-NI19, CS-NI20, CS-NV14, CS-NV15

In Alternate Testing, deleted 'but not more often than once per nine months' for the above Cold Shutdown Justifications.