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**DUKE POWER**

December 10, 1990

U.S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555 (CN's 1-10)

Subject: McGuire Nuclear Station, Units 1 and 2  
Docket Nos. 50-369 and 50-370  
Pump and Valve Inservice Testing Program  
Program Revision 15 (Unit 1) and 11 (Unit 2)  
[Relief Request No. 90-04]  
(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 15 and Unit 2 Revision 11 of the McGuire Nuclear Station Pump and Valve (IWP/IWV) Inservice Testing Program. The revisions are a result of program enhancements identified by McGuire Design Study 0106 and recently issued Design Basis Documents.

Only the IWV program has been revised. No changes were made to the IWP program. The changes are summarized on Attachment 1. These changes meet the requirements of Generic Letter 89-04 and since McGuire has not yet received a Safety Evaluation Report for the IST program, these changes are considered effective immediately.

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

Very truly yours,

A handwritten signature in cursive that reads 'M.S. Tuckman'.

M.S. Tuckman

LJR/s

Attachment

Enclosures

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xc: (w/attachment-enclosures)  
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(w/attachment only)  
Mr. T.A. Reed, Project Manager  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
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Mr. P.K. VanDoorn  
NRC Senior Resident Inspector  
McGuire Nuclear Station

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 are identified in the remarks column.
- b) Data sheet page numbers changed to reflect addition of IA, KD and VC systems.
- 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) 1CA-0040B, 1CA-0056A, 2CA-0040B, 2CA-0044B  
  
Valves are changed to "Rapid Acting" after evaluating.
- e) CA-0161C, CA-0162C  
  
Deleted from the program because the valves were determined not to have a safety function per Design Study 0106.
- f) CA-0165, CA-0166  
  
Added MTC to valves. Design Study 0106 determined valves have a safety function to close.

g) FD-0092, FD-0104

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

h) FD-0093, FD-0105

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

i) 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.

j) 1KC-0340

Corrected typographical error. Changed LY to LT.

k) 2KC-0340

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

l) KD-0009, KD-0029

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

m) NC-0032B, NC-0034A, NC-0036B

Indicated 2 second requirement to close only.

n) NI-0136B

Changed to cold shutdown valve.

o) NS-0004, NS-0021

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

p) NS-0038B, NS-0043A

Changed to cold shutdown valves.

q) 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.

r) 1NV-0025B

Deleted from being a rapid acting valve after maintenance.

s) 1NV-0457A

Evaluated as a rapid acting valve following maintenance.

t) NV-1002

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

u) NV-1046

Added valve to program. Identified by Design Study 0106.

v) 2NV-0035A

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

w) 2NV-0459A

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

x) ORN-0004AC, ORN-0148AC

Deleted valves from program. Valves were determined not to have a safety function per Design Study 0106.

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

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

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

Corrected cold shutdown justification numbers.

aa) 2RN-0215B, 2RN-0227B

Deleted from being a rapid acting valve following evaluation after maintenance.

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

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

cc) 1/2SM-0009AB, 2SM-0010AB, 1/2SM-0011AB, 1/2SM-0012AB

Changed to rapid acting valves following evaluation.

dd) 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.

ee) 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.

ff) VG-0061, VG-0062, VG-0063, VG-0064  
VG-0065, VG-0066, VG-0067, VG-0068

Identified as rapid acting valves.

gg) 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.

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

Valves added to the program. Identified with PIR 0-M89-0239.

ii) 2VQ-0001A

Identified as a rapid acting valve.

jj) 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-IA1

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

b) RR-NB1

Clarified alternate testing will performed in accordance with Appendix J.

c) 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-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.

c) CS-ND5

Added ' and depressurized' following 'at cold shutdown.' ND-71 can not be seat leak tested unless the NC system is depressurized.

d) CS-NI21

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

e) CS-NS1

New shutdown justification for NS-33B and NS-43A. Stroking these valves on line degrades the ND system.

f) CS-NV3

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

g) CS-NV5

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

h) 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.

i) 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.

j) CS-NV16

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

k) 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.

l) 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.