Duke Power Company
P.O. Box 33198
Charlotte, N.C. 28242

Hal B. Tucker
Vice President
Nuclear Production
(704)373-4531

DUKE POWER

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U. S. Nuclear Regulatory Commission
ATTN: 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
NRC Review/Program Revision 14 (Unit 1) and 10 (Unit 2)
[Relief Request No. 90-01]
(TACS 61271/61272)

Gentlemen:

The NRC staff (with technical assistance from a contracted reviewer, EG&G Idaho, Inc.) is currently in the process of reviewing the McGuire Nuclear Station 10 CFR 50.55a(g) Pump and Valve Inservice Testing (IST) Program for the initial 120 month (10 year) inspection interval. The proposed plan/schedule for this review/approval was discussed in my May 6, 1988 Unit 1 Revision 10/Unit 2 Revision 6 program submittal. While the NRC has not yet approved the McGuire IST Program, issuance of a Safety Evaluation Report (SER) is imminent (as indicated in NRC Generic Letter No. 89-04 and in recent discussions with the NRC McGuire Project Manager).

Please find enclosed (pursuant to 10 CFR 50.4 and 50.55a(g)) for NRC staff use and review 10 copies of Unit 1 Revision 14 and Unit 2 Revision 10 of the McGuire Nuclear Station Pump and Valve (IWP/IWV) Inservice Testing Program. These revisions are based on discussions with the NRC (and EG&G) on March 5, 27, and April 3, 1990, during which the NRC requested certain revisions in order that the SER could adequately be completed. Additional valve testing (IWV) revisions convert some of the relief requests to cold shutdown justifications, and are the result of enhanced test procedures. Note that valve 1WL-466 is being deleted during the current McGuire Unit 1 refueling outage rather than in a future outage as indicated to the NRC in the April 3rd telecon, and therefore this valve is being deleted from the IWV Program in this revision (this is contrary to what had been discussed with the NRC; i.e. that we would revise its relief request until the valve could be deleted).

A description (and justification/basis where not obvious or self-explanatory or an administrative type change, etc.) of the specific changes made is contained in Attachments 1 (IWP Changes) and 2 (IWV changes) for Units 1 and 2. These revisions comply with the guidance provided in

A047
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Generic Letter 89-04 for making modifications to IST Programs. These revisions should be incorporated into your Units 1 and 2 pump and valve Inservice Testing Program manual, removing any superseded pages of the program. Duke Power Company intends to implement the Units 1 and 2 program as revised on an interim basis pending program approval by the NRC. Note that some of these revisions will not be implemented until a future date, as specified in the revisions themselves (e.g. Relief Request I.4.C (Unit 1) and I.4.B (Unit 2)).

Please note that since this submittal provides material to be incorporated into our previously transmitted IWP/IWV Pump and Valve Inservice Testing Program (originally submitted for NRC review and approval on November 14, 1978 (Unit 1) and March 31, 1983 (Unit 2)) which is still currently under review and has not yet received formal NRC approval, no additional fees pursuant to 10 CFR 170 are applicable (the IST Program is part of the operating license application and fee for its review/approval should be covered by the fee for the operating license applications for McGuire Nuclear Station Units 1 and 2). Once the IST Program has received final NRC approval any subsequent revisions would then be subject to approval fees in accordance with the provisions of 10 CFR 170.

If additional information is needed regarding the basis for any of the enclosed revisions (especially with respect to any impacts on the McGuire IST Program SER which is currently being written), or if Duke can otherwise aid in the IST review/approval process, please contact Mr. P. B. Nardoci at (704) 373-7432.

Very truly yours,

Hal B. Tucker

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Attachments

Enclosures

xc: (W/Attachments-Enclosures)
Mr. S. D. Ebneter
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta St., NW, Suite 2900
Atlanta, Georgia 30323 (CN11)

Mr. C. R. Ransom
EC&G Idaho, Inc.
Idaho National Engineering Laboratory
1520 Sawtelle Street
Idaho Falls, Idaho 83402 (CN12)

(W/Attachments Only)
Mr. D. S. Hood, Proj. Mgr.
Office of Nuclear Reactor Regulation
U. S Nuclear Regulatory Comm.
Washington, D. C. 20555

Mr. P. K. VanDoorn
NRC Resident Inspector
McGuire Nuclear Station

ATTACHMENT 1
McGUIRE UNITS 1 and 2 IWP PROGRAM REVISIONS

Note: Revisions are for both Units unless indicated otherwise.

1. Section I.4.C

   Relief request for NI pumps changed to reflect testing program which is consistent with Generic Letter 89-04. Operability tests will be performed quarterly demonstrating compliance with Technical Specifications. A more comprehensive code test will be performed during refueling outages.

2. Section I.4.D

   Relief request for ND pumps changed to reflect testing program which is consistent with Generic Letter 89-04. Operability tests will be performed quarterly demonstrating compliance with Technical Specifications. A more comprehensive code test will be performed during refueling outages.

3. Section I.4.E

   Relief request for NV pumps changed to reflect testing program which is consistent with Generic Letter 89-04. Operability tests will be performed quarterly demonstrating compliance with Technical Specifications. A more comprehensive code test will be performed during refueling outages.

4. Section I.4.F

   Relief request for WN pumps changed to denote existing test methodology is an interim program until a recirculation loop is installed, which will include flow instrumentation.

ATTACHMENT 2
McGUIRE UNITS 1 and 2 IWV PROGRAM REVISIONS

Note: Revisions are for both Units unless indicated otherwise.

1. Section II.4:

a) CA-0008, CA-0010, CA-0012

Relief request CA2 has been added.

b) FW-0028

Relief request FW1 changed to cold shutdown justification CS-FW2.

c) ND-0008, ND-0023

Relief request ND3 changed to cold shutdown justification CS-ND6.

d) ND-0070

Relief request ND1 changed to cold shutdown justification CS-ND4.

e) ND-0071

Relief request ND2 changed to cold shutdown justification CS-ND5.

f) NI-0012

Relief request NI2 changed to cold shutdown justification CS-NI14.

g) NI-0015, NI-0017, NI-0019, NI-0021
NI-0347, NI-0348, NI-0349, NI-0354

Relief request NI1 changed to cold shutdown justification CS-NI13.

h) NI-0101

Relief request NI7 changed to cold shutdown justification CS-NI15.

i) NI-0116, NI-0148

Relief request NI8 changed to cold shutdown justification CS-NI16.

j) NI-0124, NI-0128, NI-0156, NI-0157, NI-0159, NI-0160

Relief request NI9 changed to cold shutdown justification CS-NI17.

k) NI-0125, NI-0126, NI-0129, NI-0134

Relief request NI12 changed to cold shutdown justification CS-NI20.

l) NI-0165, NI-0167, NI-0169, NI-0171

Relief request NI10 changed to cold shutdown justification CS-NI18.

m) NI-0175, NI-0176, NI-0180, NI-0181

Relief request NI11 changed to cold shutdown justification CS-NI19.

n) 1NV-0035A

New valve added per modification MG-12123. (Unit 1 only). Replaces function of 1NV-0459A.

o) NV-0223

Relief request NV3 changed to cold shutdown justification CS-NV15.

p) NV-0225, NV-0231

Relief request NV2 changed to cold shutdown justification CS-NV14.

q) 1NV-0459A

Deleted per modification MG-12123. (Unit 1 only.) 1NV-0035A replaced 1NV0459A function.

r) SA-0005, SA-0006

Deleted relief request SA1.

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

Deleted relief request VG1.

t) VP-0001B, VP-0002A, VP-0003B, VP-0004A
VP-0006B, VP-0007A, VP-0008B, VP-0009A
VP-0010A, VP-0011B, VP-0012A, VP-0013B
VP-0015A, VP-0016B, VP-0017A, VP-0018B
VP-0019A, VP-0020B

Deleted test requirement ST-Q, relief request VP1, stroke time requirement and remarks.

u) 1WL-0466

Deleted per modification MEVN-1865.

2. Section II.6

a) RR-CA2

New relief request. These valves check flow from the assured source of Auxiliary Feedwater which is a raw water system. To test these valves would contaminate the auxiliary feedwater system. This relief request is written to sample disassemble these valves.

b) RR-FW1

Deleted. FW-28 can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-FW2.

c) RR-ND1

Deleted. ND-70 can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-ND4.

d) RR-ND2

Deleted. ND-71 can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-ND5.

e) RR-ND3

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-ND6.

f) RR-NI1

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NI13.

g) RR-NI2

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NI14.

h) RR-NI4

Clarified function and test requirements of valves. Expanded on the basis for the relief request. Clarified alternate testing being performed.

i) RR-NI6

Clarified function and test requirements of valves. Expanded on the basis for the relief request. Clarified alternate testing being performed.

j) RR-NI7

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NI15.

k) RR-NI8

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NI16.

l) RR-NI9

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NI17.

m) RR-NI10

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NI18.

n) RR-NI11

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NI19.

o) RR-NI12

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NI20.

p) RR-NS1

Clarified basis and alternate testing.

q) RR-NV2

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NV14.

r) RR-NV3

Deleted. Valves can be tested during cold shutdown, Mode 5. Relief request converted to cold shutdown CS-NV15.

s) RR-NV4 (Unit 1 only)

Clarified function and alternate testing. Expanded on basis for relief request.

t) RR-SA1

Deleted. Relief was written to sample disassemble the valves to verify closure capability. These valves are stop-check valves which will be tested to close using the handwheel and measuring the stroke of the valve. This method will verify proper closure capability of the valves. The valves will be tested on a quarterly basis as required by IWV therefore no relief is required. Procedures will be in place to begin closure testing of these valves by November 1, 1990.

u) RR-VB1

Clarified alternate testing being performed.

v) RR-VG1

Deleted. The relief request was written because the valves are solenoid valves which have no direct indication of valve position. Acoustic monitoring will be used to verify valve movement and stroke time the valve. Procedures will be in place to begin testing these valves using acoustic emission monitoring by November 1, 1990.

w) RR-VP1

Deleted. There is no requirement for these function in any certain time. The valves only have to function to provide containment integrity in Modes 1-4. The valves are not opened during these modes therefore they are passive as far as stroke time is concerned. There is no reason to trend these valves, except for leakrates. The valves are leak tested quarterly per Technical Specification requirements.

x) RR-WL1

Deleted. The valve has been removed from the system per modification MEVN-1865.

Section II.7:

a) CS-FW2

New addition. Converted relief request RR-FW1.

b) CS-ND4

New Addition. Converted relief request RR-ND1.

c) CS-ND5

New addition. Converted relief request RR-ND2.

d) CS-ND6

New Addition. Converted relief request RR-ND3.

e) CS-NI13

New addition. Converted relief request RR-NI1.

f) CS-NI14

New Addition. Converted relief request RR-NI2.

g) CS-NI15

New addition. Converted relief request RR-NI7.

h) CS-NI16

New Addition. Converted relief request RR-NI8.

i) CS-NI17

New addition. Converted relief request RR-NI9.

j) CS-NI18

New Addition. Converted relief request RR-NI10.

k) CS-NI19

New addition. Converted relief request RR-NI11.

l) CS-NI20

New Addition. Converted relief request RR-NI12.

m) CS-NV10 (Unit 1 only)

Deleted. 1NV-459A has been taken out of the test program. 1NV-35A has been added to provide the same function as 1NV-459A. 1NV-35A was added per modification MG-12123.

n) CS-NV14

New addition. Converted relief request RR-NV2.

o) CS-NV15

New addition. Converted relief request RR-NV3.