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May 6, 1988

U.S. Nuclear Regulatory Commission 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
IWP/IWV Pump and Valve Inservice Testing Program Revision
(Relief Request No. 88-03)

Gentlemen:

Pursuant to 10CFR 50.4 and 50.55a(g), enclosed for NRC Staff use and review are Ten copies of Unit 1 Revision 10 and Unit 2 Revision 6 (both dated May 6, 1988) to the McGuire Nuclear Station Pump and Valve Inservice Testing Program.

There are two requested changes to the Pump (IWP) Inservice Testing Program. One change is a note to interpret that the use of a person's initials in the record of test results for the person responsible for the action meets the intent of the person's signature (IWP-6240). The second change is a relief request to exempt McGuire pumps from yearly bearing temperature measurements (IWP-3100, Table IWP-3100-1, and IWP-3300). See Attachment 1 for the specific changes and justifications.

The changes to the Valve (IWV) Inservice Testing Program consists of:

- · clarifying the testing done per certain relief requests
- · correcting miscellaneous/typographical errors
- adding valves determined to be within the scope of IWV (based on current interpretations)
- deleting valves removed/modified by plant modifications (NSMs)
- · changing Owner specified stroke times based on Design Engineering evaluations

Attachment 2 is a sequential page by page listing (2A for Unit 1, 2B for Unit 2) of all the changes and attendant justifications, along with a summary of the major changes (Attachment 2C) provided for your convenience. Mote that Attachment 2C also contains some further information regarding justifications from that supplied in the Attachment 2A&B page by page listings. Duke can provide copies of (or access to) the various Duke internal documents (PIRs, MEVNs, MBMEs, NSMs, etc.) referenced in Attachment 2 should they be required for NRC review of the requested changes. The submittal of these IWV program revisions will complete action items related to Licensee Event Reports 369/87-03 (ref. PIR 0-M87-0014A) and 369/87-33 (ref. PIR 0-M87-0301C), NRC/OIE Inspection Report 50-369/87-16 and 50-370/87-16 (ref. unresolved item 369/87-16-01 and 370/87-16-01), and various NRC AEOD concerns (ref. Mr. V. Stello, Jr's (NRC/EDO) April 8, 1988 letter to Mr. W.H. Owen (DPC)).

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These revisions should be incorporated into your Unit 1 and 2 Pump and Valve Inservice Testing Program Manual, removing any superseded pages of the program. Should there be any questions concerning the basis for any of the changes, please advise. It should be noted that many of the changes contained in these revisions reflect current NRC staff philosophy as discussed in a telecon between members of my staff and Mr. H. Rockhold of EG&G Idaho, Inc. (which has been performing a detailed review of the McGuire IST Program under costract to the NRC) on January 27, 1988. Duke Power Company intends to implement the Unit 1 and 2 program as revised on an interim basis pending program approval by the NRC.

NRC approval of the McGuire IWP/IWV Inservice Testing Program has been identified as a priority Licensing issue by the NRC. Toward this end, Attachment 3 is a proposed schedule for review of the McGuire program which has been developed between members of my staff and the NRC's McGuire project manager (Mr. D.S. Hood) and contracted reviewer (EG&G Idaho, Inc.) which would allow for program approval by the end of the year. By copy of this letter, EG&G Idaho, Inc. is being forwarded current revisions of the McGuire Unit 1 and 2 flow diagrams related to the IWP/IWV program (i.e. those listed on the system section's title pages of the program, as well as others that may be useful). These diagrams were requested by Mr. H. Rockhold (EG&G) in order to aid in this review, and also to replace outdated diagrams supplied during previous reviews of the program. If any additional drawings are needed, please advise.

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 10CFR 170 are necessary (the IWP/IWV 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 IWP/IWV program has received final NRC approval any subsequent revisions would then require amendment fees in accordance with the provisions of 10CFR 170.

Very truly yours,

Hall. Tucker me

Hal B. Tucker

PBN/90/bhp

Attachments

Enclosures

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xc: w/attachments/enclosures

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w/attachments/enclosures/diagrams

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w/attachments

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Mr. W.T. Orders NRC Resident Inspector McGuire Nuclear Station

ATTACHMENT 1 UNIT 1 AND 2 IWP REVISION

Inserted this note below the introduction to the IWP subsection (p. I.1-1):

NOTE: The initials and date of the person or persons responsible for conducting and analyzing the test may be used in place of a signature in the record of tests. Initials shall be construed as signatures to meet the intent of IWP-6240 (f).

Added Relief Request to Section I as part E) (Page I.1-1a):

E) IWP-3100, Table IWP-3100-1 and IWP-3300 requires the measurement of bearing temperature annually. It has been demonstrated by experience that a bearing temperature rise occurs only minutes prior to bearing failure. Therefore, the detection of possible bearing failure by a yearly temperature measurement is unlikely. Obtaining these measurements requires a minimum of one-half hour of pump operation to achieve stable bearing temperatures. The small probability of detecting bearing failure by temperature measurement does not justify the additional pump operating time required to obtain the measurement. Consequently, McGuire does not require annual bearing temperature measurements per the ASME Section XI code.

On the pump test cross reference Table on page I.1-4:

Deleted X, X(2) and X(4) from the respective Bearing Temp, $T_{\rm b}$ column and added RR

Deleted corresponding Notes 2 and 4 at bottom of page (I.1-4)

Added to LEGEND at bottom of page (1.1-4)

RR - Exempted by relief request

VALVE NUMBER	PAGE 8	DESCRIPTION OF CHANGE [REASON FOR COME]
	11.1-1	Added under the Introduction to IWV: NOTE: The initials and date of the person responsible for the action may be used in place of a signature in the record of tests. Initials shall be construed as signatures to meet the intent of IWV-6230.
	II.3-1	Under Cold Shutdown (CS) changed "one per three (3) months." to "once per three (3) months." and added "Any valve specified to be testing during/at (CS) may be tested during Refueling Outage (RF) conditions." [To correct a typo and to clarify testing conditions.]
	II.3-1	Added: "Cold Shutdown (CS*) Same as (CS) except testing may be performed prior to and/or after cold shutdown (Mode 5) as specified in Alternate Testing." [To allow flexibility in testing on the way to cold shutdown or after cold shutdown. This clarifies present testing.]
-	II.3-1	Under Refueling Outage (RF) added: "Testing may be done while in No Mode as well as Mode 6." [To clarify present testing.]
•	11.4-1	Deleted GENERAL RELIEF II. [Relief is no longer required.]
IVE-10A	II.5-2	Added CT To Test Requirements Added 15 sec. max. stroke time to Remarks [This change will specify the required stroke time for a category A valve when exercised]
IVE-5A	11.5-2	Changed MT to CT under Test Requirements Added 15 sec. max. stroke time to Remarks [This category B valve is stroked and timed rather than movement tested. This change will correctly identify required testing and the required valve stroke time.]
IVE-6B	II.5-2	Changed MT to CT under Test Requirements Added 15 sec. max. stroke time to Remarks [See above]
1VE-8A	II.5-2	Changed MT to CT under Test Requirements Added 20 sec. max. stroke time to Remarks [See above]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1CA-61	II.6-2	Changed CS to CS* under Testing Alternative [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
1CA-65	II.6-2	Changed CS to CS* under Testing Alternative [See above]
1CA-57	II.6-2	Changed CS to CS* under Testing Alternative [See above]
1CA-53	II.6-3	Changed CS to CS* under Testing Alternative [See above]
1CA-45	II.6-3	Changed CS to CS* under Testing Alternative [See above]
1CA-49	II.6-3	Changed CS to CS* under Testing Alternative. [See above]
1CA-41	II.6-3	Changed CS to CS* under Testing Alternative. [See above]
1CA-37	II.6-4	Changed CS to CS* under Testing Alternative. [See above]
1CA-66A	II.6-2	Changed 1CA-66A to 1CA-66A,C under Valve #, and Changed 10 sec. to 12 sec. under Remarks [Adding C to the Valve Number makes it more consistent with plant labeling and identification. Stroke time was changed based on DE evaluation and MEVN-0788.]
1CA-54A	II.6-2	Changed 1CA-54A to 1CA-54A,C under Valve *, and Changed 10 sec. to 12 sec. under Remarks. [Adding C to the Valve Number makes it more consistent with plant labeling. Stroke time was changed based on DE evaluation and MEVN-0788.]
1CA-50B	II.6-3	Changed 10 sec. to 12 sec. under Remarks. [Stroke time was changed based on DE evaluation and MEVN-0788.]
1CA-42B	II.6-4	Changed to I-14 under Coordinates. [To correct location on drawings]
1CA-38B	II.6-4	Changed 10 sec. to 12 sec. under Remarks. [Stroke time was changed based on DE evaluation and MEVN-0788.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1CA-18B	11.6-4	Changed to D-4 under Coordinates. [To correct location on drawings]
1CA-7A	11.6-5	Changed ICA-7A to ICA-7A,C under Valve #. [Adding C to the Valve Number makes it more consistent with plant labeling]
1CA-86A	11.6-5	Changed to C-14 under Coordinates. [To correct location on drawings]
1CA-116B	II.6-5	Changed to E-14 under Coordinates. [To correct location on drawings]
1CA-27A	II.6-5	Changed to J-5 under Coordinates. [To correct location on drawings]
1CA-32B	II.6-5	Changed to J-8 under Coordinates. [To correct location on drawings]
1CA-20AB	II.6-5	Changed to I-10 under Coordinates. [To correct location on drawings]
1CA-161	II.6-6	Changed 1CA-161 to 1CA-161C under Valve #. [Adding C to the Valve Number makes it more consistent with plant labeling]
1CA-162	II.6-6	Changed 1CA-162 to 1CA-162C under Valve #. [Adding C to the Valve Number makes it more consistent with plant labeling]
INB-260B	11.7-2	Changed 10 sec. to 15 sec. under Remarks. [Stroke time was changed to correspond with Tech. Spec. Table 3.6-2 time.]
ADDED THE FOL	LOWING:	
1NV-150B	II.9-3	Class B, Drawing # MC-1554-2.0, Coordinates F-2, Valve Category B, Test Requirements CT, Remarks 10 sec. max. stroke time. [See below]
1NV-151A	11.9-3	Class B, Drawing # MC-1554-2.0, Coordinates G-2, Valve Category B, Test Requirements CT, Remarks 10 sec. max. stroke time.
		[These valves isolate the NV pump miniflow line to the VCT. They get IE power and required Operator action to isolate this flow path to give more flow if emergency coolant is required.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE
1NV-7B	II.9-6	In ALTERNATE TESTING, changed "times" to "timed." [To correct typographical error.]
1KC-54	II.10-2	Changed 1KC-54 to 1KC-54B. [To be consistent with plant labeling]
1KC-81B	II.10-3	Changed to E-13, under Coordinates. [To correct location on drawings]
1VX-1A	II.12-2	Changed to I-3, under Coordinates. [To correct location on drawings]
1VP-1B	II.13-2	Changed to I-6, under Coordinates. [To correct location on drawings]
1VP-2A	II.13-2	Changed to I-7, under Coordinates. [To correct location on drawings]
1VP-3B	II.13-2	Changed to K-6, under Coordinates. [To correct location on drawings]
1VP-4A	II.13-2	Changed to K-7, under Coordinates. [To correct location on drawings]
1VP-6B	II.13-2	Changed to E-6, under Coordinates. [To correct location on drawings]
1VP-7A	II.13-2	Changed to E-7, under Coordinates. [To correct location on drawings]
1VP-8B	II.13-3	Changed to D-6, under Coordinates. [To correct location on drawings]
1VP-9A	II.13-3	Changed to D-7, under Coordinates. [To correct location on drawings]
1VP-10A	II.13-3	Changed to J-8, under Coordinates. [To correct location on drawings]
1VP-11B	II.13-3	Changed to J-9, under Coordinates. [To correct location on drawings]
1VP-12A	II.13-3	Changed to I-8, under Coordinates. [To correct location on drawings]
1VP-13B	II.13-3	Changed to I-9, under Coordinates. [To correct location on drawings]
1VP-15A	II.13-4	Changed to F-8, under Coordinates. [To correct location on drawings]

VALVE 1 MBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1VP-16B	II.13-4	Changed to F-9, under Coordinates. [To correct location on drawings]
1VP-17A	II.13-4	Changed to B-7, under Coordinates. [To correct location on drawings]
1V?=18B	II.13-4	Changed to B-6, under Coordinates. [To correct location on drawings]
1VP-19A	II.13-4	Changed to B-8, under Coordinates. [To correct location on drawings]
1VP-20B	II.13-4	Changed to B-9, under Coordinates. [To correct location on drawings]
1VG-63	II,19-2	Changed to H-2, under Coordinates. [To correct location on drawings]
ADDED THE FOLI	LOWING:	
1VG-115	II.19-2	Class C, Drawing #MC-1609-4.0, Coordinates K-9, Valve Category C, Test Requirements MT. [See Below]
1VG-116	II.19-2	Class C, Drawing #MC-1609-4.0, Coordinates H-9, Valve Category C, Test Requirements MT. [See Below]
1VG-117	II.19-2	Class C, Drawing #MC-1609-4.0, Coordinates F-9, Valve Category C, Test Requirements MT. [See Below]
1VG-118	II.19-2	Class C. Drawing #MC-1609-4.0, Coordinates C-9, Valve Category C, Test Requirements MT.
		[These valves are added as a result of an AEOD concern on check valves and an applied increased scope of IWV. They ensure the D/G starting air will be available if a seismic event causes a loss of the VG compressor and non-seismic piping.]
1WE-23	II.20-2	Changed to E-10, under Ccordinates, under Valve Category "C" should NOT be checked. [To correct location on drawing and Yalve Category.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1CF-26	II.21-2 II.21-6	Changed 1CF-26 to 1CF-26 A,B under Valve #. [To be consistent with plant labeling]
1CF-28	II.21-2 II.21-6	Changed 1CF-28 to 1CF-28 A,B under Valve #. [To be consistent with plant labeling]
1CF-30	II.21-2 II.21-6	Changed 1CF-30 to 1CF-30A,B under Valve #. [To be consistent with plant labeling]
1CF-35	II.21-2 II.21-6	Changed 1CF-35 to 1CF-35 A,B under Valve #. [To be consistent with plant labeling]
1CF-129	II.21-2 II.21-8	Changed 1CF-129 to 1CF-129 B under Valve #. [To be consistent with plant labeling]
1CF-137A	II.21-2	Changed to G-3, under Coordinates. [To correct location on drawings]
1CF-128	II.21-2 II.21-8	Changed 1CF-128 to 1CF-128B, under Valve #, Changed to M-7 under Coordinates (Page II.21-2 only). [To be consistent with plant labeling and To correct location on drawings]
1CF-136A	II.21-3	Changed to G-7, under Coordinates. [To correct location on drawings]
1CF-127	II.21-3 II.21-8	Changed 1CF-127 to 1CF-127B, under Valve #. [To be consistent with plant labeling]
1CF-135A	II.21-3	Changed to G-10, under Coordinates. [To correct location on drawings]
1CF-126	II.21-3 II.21-8	Changed 1CF-126 to 1CF-126B, under Valve #, Changed to H-14, under Coordinates (page II.21-3 only) [To be consistent with plant labeling and To
		correct location on drawings.]
1CF-134A	II.21-3	Changed to G-13, under Coordinates. [To correct location on drawings]
1CF-104	II.21-3 II.21-9	Changed 1CF-104 to 1CF-104 A,B under Valve #, Changed to K-12, under Coordinates (Page II.21-3 only) [To be consistent with plant labeling and correct location on drawings]
1CF-105	II.21-3 II.21-9	Changed 1CF-105 to 1CF-105A,B under Valve #. [To be consistent with plant labeling]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1CF-106	II.21-4 II.21-9	Changed 1CF-106 to 1CF-106A,B under Valve #. [To be consistent with plant labeling]
1CF-107	II.21-4 II.21-9	Changed 1CF-107 to 1CF-107 A,B under Valve #. [To be consistent with plant labeling]
1CF-155B	II.21-4	Changed to F-7, under Coordinates. [To correct location on drawings]
1CF-17	II.21-4 II.21-7	Changed 1CF-17 to 1CF-17A,B under Valve #. [To be consistent with plant labeling]
1CF-20	II.21-5 II.21-7	Changed 1CF-20 to 1CF-20A,B under Valve #. [To be consistent with plant labeling]
1CF-23	II.21-5 II.21-7	Changed 1CF-23 to 1CF-23A,B under Valve #. [To be consistent with plant labeling]
1CF-32	II.21-5 II.21-7	Changed 1CF-32 to 1CF-32A,B under Valve #. [To be consistent with plant labeling]

ADDED THE FOLLOWING:

1CF-152	II.21-5	Class B, Drawing #MC-1591-1.1, Coordinates F-12, Valve Category C, Test Requirement MT, Re X, Testing Alternative CS. [See Below]	lief	Request
1CF-154	II.21-5	Class B, Drawing #MC-1591-1.1, Coordinates E-8, Valve Category C, Test Requirement MT, Relief Request X, Testing Alternative CS. [See Below]		
1CF-156	II.21-5	Class B. Drawing #MC-1591-1.1, Coordinates E-7, Valve Category C, Test Requirement MT, Relief Request X, Testing Alternative CS. [See Below]		
1CF-158	II.21-5	Class B. Drawing &MC-1591-1.1, Coordinates F-12, Valve Category C, Test Requirement MT, Relief Request X, Testing Alternative CS. [See Below]		
		Drawing #MC-1591-1.1 VALVE: 1CF-152, 1CF-154, 1CF-156, 1CF-158 CATETORY: C CLASS: B		

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

Provides tempering flow FUNCTION:

> to the S/G Auxiliary Feedwater Nozzles.

TEST REQUIREMENT: Exercise valve to prove

valve closes to prevent

reversal of flow quarterly.

BASIS FOR RELIEF: During normal operation,

> there is constant flow through these check valves to keep the Auxiliary Feedwater Nozzles tempered. Testing these check valves would require supplying the S/Gs with cold Aux. Feedwater and thus thermally shocking

the nozzles.

ALTERNATE TESTING: During Cold Shutdown,

each valve will be exercised to prove each valve closes to prevent gross diversion of flow.

[These valves are added as a result of an AEOD concern on check valves and an applied increased scope of IWV. They ensure the CA system will be able to supply the S/Gs if a seismic event causes a loss of non-seismic piping and a B train valve upstream of the check valve.]

1RF-821	II.22-2	Changed 1RF-821 to 1RF-821A under Valve #	
		[To be consistent with plant labeling]	

1Nr-228A II,23-2 Changed to H-13, under Coordinates. [To correct location on drawings]

II.24-2 1VI-362 Changed 1VI-362 to 1VI-362A under Valve #. II.24-3 and Changed Drawing # to MC-1605-1.2 (Valve relocated to Page II.24-2 in accordance with drawing number)

[To be consistent with plant labeling and to

correct location on drawings]

1WL-254 11.25-2 On the Valve Category checked letter "C". [To correctly categorize the valve, typographical error]

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

-- II.25-1 Added Drawing # MC-1562-4.0
[Added due to addition of valves 1WL-1301B and 1WL-1302A, see below]

ADDED THE FOLLOWING:

1WL-466 II.25-2 Class "F", Drawing # MC-1565-1.0, Coordinates
G-13, Valve Category "C", Test Requirements
MT,Q, Relief Requests "X", Testing
Alternative "RF"
[See Below]

II.25-3a DRAWING #MC-1565-1.0
(New page) VALVE: 1WL-466
CATEGORY: C
CLASS: F
FUNCTION:

Prevents steam flow from Lower Containment to Upper Containment bypassing the Ice Condenser in an accident.

TEST REQUIREMENT:

BASIS FOR RELIEF:

Full stroke exercise quarterly.
The check valve is on a drain line from the VX fan pit to lower containment. The valve is located at the end of a six inch pipe in lower containment and cannot be accessed without radiation exposure and safety related risks.
The check valve is not any closed and has no on the valve.

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

ALTERNATE TESTING: The valve will be visually inspected during refueling outages to ensure free movement. (No disassembly will be required.)

> [This valve was added to the program because failure to open to drain the VX fan pit would result in flooding the VX fan thus making it inoperable.]

II.26-1 Added drawing #MC-1593-1.3 [Due to drawing number change for valves 1SM-1AB, 9AB, 3AB and 10AB, see below]

1SM-1AB II.26-2 Changed drawing number to MC-1593-1.3 II.26-3 (Relocated valve on Page II.26-2 and II.26-5 relocated valve from Page II.26-3 Relief (New Page) Request into a new Relief Request (Page II.26-5) in accordance with drawing number); Changed Coordinates to I-14 (Page II.26-2 only), and Changed CS to CS* under Testing Alternative (Page II.26-2 only). [To correct location on drawings and to

clarify testing done 'at' Cold Shutdown (See change in Definitions of Testing Requirements and Alternatives)]

1SM-9AB II.26-2 Changed drawing number to MC-1593-1.3 II.26-4 (Relocated valve on Page II.26-2 and II.26-6 relocated valve from Page II.26-4 Relief (New Page) Request into a new Relief Request (Page II.26-6) in accordance with drawing number); Changed Coordinates to I-13 (Page II.26-2 only), and Changed CS to CS* under Testing Alternative (Page II.26-2 only).

[See above]

1SM-3AB II.26-2 Changed drawing number to MC-1593-1.3 II.26-3 (Relocated valve on Page II.26-2 and

relocated valve from Page II.26-4 Relief II.26-5 (New Page) Request into a new Relief Request (Page

II.26-5) in accordance with drawing number); Changed Coordinates to C-14 (Page II.26-2 only), and Changed CS to CS* under Testing Alternative (Page II.26-2 only).

[See above]

1SM-10AB II.26-2 Changed drawing number to MC-1593-1.3

II.26-4 (Relocated valve on Page II.26-2 and

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
	II.26-6 (New Page)	relocated valve from Page II.26-4 Relief Request into a new Relief Request (Page II.26-6) in accordance with drawing number); Changed Coordinates to C-13 (Page II.26-2 only), and Changed CS to CS* under Testing Alternative (Page II.26-2 only). [See above]
1SM-5AB	II.26-2	Changed Coordinates to I-14; Changed CS to CS* under Testing Alternative. [See Above]
1SM-11AB	II.26-2	Changed Coordinates to I-13; Changed CS to CS* under Testing Alternative. [See above]
1SM-7AB	II.26-2	Changed Coordinates to C-14; Changed CS to CS* under Testing Alternative. [See above]
1SM-12AB	II.26-2	Changed Coordinates to C-13; Changed CS to CS* under Testing Alternative. [See above]
1SM-1AB, 1SM-3AB, 1SM-5AB, 1SM-7AB	II.26-3 II.26-5	Deleted "Hot Shutdown conditions are required to exercise the isolation valve because of valve design." from Basis for Relief. And, changed ALTERNATE TESTING to: "These valves will be partially stroked quarterly while in Modes 1, 2 or 3. These valves will be full stroked and timed at hot shutdown conditions or cold shutdown." [After talked with the valve manufacturer, it was determined these valve could be cycled without steam on the valves.]
1SA-48AB	II.27-2	Changed ISA-48AB to ISA-48AB, C under Valve #, and Changed Coordinates to E-4. [To be consistent with plant labeling and To correct location on Drawings]

ADDED THE FOLLOWING:

1SA-5

II.27-2

Class "R", Drawing #MC-1593-1.2, Coordinates
F-4, Valve Category "C", Test Requirements MT. Relief
Request "X", Testing Alternative RF #.

[See Below]

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

II.27-2 Class "B", Drawing #MC-1593-1.2, Coordinates F-4, Valve Category "C", Test Requirements MT, Relief Request "X", Testing Alternative RF #.

[See Below]

II.27-3 DRAWING #MC-1593-1.2
(New Page) VALVE: 1SA-5, 1SA-6
CATEGORY: C
CLASS: B
FUNCTION: 1)

Passes steam to supply the Turbine Driven Auxiliary Feedwater Pump.

2) Prevents cross connecting Steam Generators 1B and 1C.

TEST REQUIREMENT: 1) Full stroke exercise quarterly.

 Verify valve prevents reversal of flow quarterly.

BASIS FOR RELIEF: 1) None required.
2) System configu

System configuration and design do not provide a suitable means to prove the valve prevents reversal of flow. To check this valve on line would risk personnel safety since high energy steam would be involved.

ALTERNATE TESTING: 1)

None required.
At least one of the two valves will be disassembled and inspected (verified to close) during each refueling.
Both valves will have been disassembled and inspected after two consecutive refueling outages. Failure of one valve to function properly during a refueling outage

VALVE NUMBER # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

will result in the remaining valve being disassembled and inspected during that outage.

[It has been determined that these check valves have a safety function to close. This would prevent blowing down two steam generators to containment. This added testing assures valve operability.]

		second account their observation, if
	11.28-1	Added Drawing # MC-1593-1.3 [Due to drawing number change for valves 1SV-1 thru 1SV-12, see below]
1SV-1	II.28-2 II.28-4	Changed 1SV-1 to 1SV-1AB, Changed drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to L-5, Changed 20 sec. to 60 sec. under Remarks. [To be consistent with plant labeling, and to correct location on drawings and to change max. stroke time to DED Report MBME-87.268 recommended time.]
1SV-2	II.28-2 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to K-5 [To correct location on drawings]
1SV-3	II.28-2 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to K-7. [To correct location on drawings]
1SV-4	II.28-2 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to K-9. [To correct location on drawings]
1SV-5	II.28-2 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to K-11. [To correct location on drawings]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1SV-6	II.28-2 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to K-12. [To correct location on drawings]
1SV-7	II.28-2 II.28-4	Changed 1SV-7 to 1SV-7ABC under Valve #; Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to G-5; Changed 20 sec. to 60 sec. under Remarks. [To be consistent with plant labeling and To correct location on drawings]
1SV-8	II.28-2 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to E-6. [To correct location on drawings]
1SV-9	II.28-2 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to E-7. [To correct location on drawings]
1SV-10	II.28-2 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated value to Page II.28-4 in accordance with drawing number); Changed Coordinates to E-9. [To correct location on drawings]
1SV-11	II.28-3 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Fage II.28-4 to accordance with drawing number); Changed Coordinates to E-11. [To correct location on drawings]
1SV-12	II.28-3 II.28-4	Changed Drawing # to MC-1593-1.3 (Relocated valve to Page II.28-4 in accordance with drawing number); Changed Coordinates to E-12. [To correct location on drawings]
1SV-13	II.28-3	Changed 1SV-13 to 1SV-13AB under Valve #; Changed Coordinates to L-4; Changed 20 sec. to 60 sec. under Remarks. [To be consistent with plant labeling, To correct location on drawings and To change max. stroke time to DED Report MBME-87-268 recommended time.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1SV-14	II.28-3	Changed Coordinates to K-5. [To correct location on drawings]
1SV-15	II.28-3	Changed Coordinates to K-7. [To correct location on drawings]
1SV-16	II.28-3	Changed Coordinates to K-9. [To correct location on drawings]
1SV-17	II.28-3	Changed Coordinates to K-10. [To correct location on drawings]
1SV-18	11.28-3	Changed Coordinates to K-12. [To correct location on drawings]
1SV-19	II.28-3	Changed 1SV-19 to 1SV-19AB, under Valve #; Changed Coordinates to G-4; Changed 20 sec. to 60 sec. under Remarks. [To be consistent with plant labeling, To correct location on drawings and To change max. stroke time to DED Report MBME-87-268 recommended time.]
1SV-20	II.28-3	Changed Coordinates to E-5. [To correct location on drawings]
1SV-21	II.28-4	Changed Coordinates to E-7. [To correct location on drawings]
1SV-22	II.28-4	Changed Coordinates to E-9. [To correct location on drawings]
1SV-23	II.28-4	Changed Coordinates to E-10. [To correct location on drawings]
1SV-24	II.28-4	Changed Coordinates to E-12. [To correct location on drawings]
1YM-115B	II.29-2	Changed Coordinates to C-9. [To correct location on drawings]
1YM-116	11.29-2	Changed Coordinates to C-11. [To correct location on drawings]
1NM-3A	II.30-2	Changed 1NM-3A to 1NM-3A,C under Valve #. [To be consistent with plant labeling]
1NM-6A	11.30-2	Changed NM-6A to NM-6A,C under Valve #. [To be consistent with plant labeling]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NM-25A	11.30-2	Changed 1NM-25A to 1NM-25A,C under Valve #. [To be consistent with plant labeling]
1NM-22A	11.30-3	Changed 1NM-22A to 1NM-22A,C under Valve #. [To be consistent with plant labeling]
ORN-4A	11.31-2	Changed ORN-4A to ORN-4A,C under Valve #. [To be consistent with plant labeling]
ORN-1	II.31-3	DELETED VALVE [This valve is in its passive position and serves no safety function in shutting down the plant. It receives no signals to change its position. It is administratively controlled.]
ORN-148A	II.31-4	Changed ORN-148A to ORN-148A,C under Valve #. [To be consistent with plant labeling]
1RN-68	II.31-5	Changed IRN-68 to IRN-68A under Valve #. [To be consistent with plant labeling]
1RN-161	II.31-6	Changed 1RN-161 to 1RN-1615 under Valve #. [To be consistent with plant labeling]
1RN-166	II.31-7	Changed IRN-166 to IRN-166A under Valve #. [To be consistent with plant labeling]
1RN-70A	II.31-7	Changed Coordinates to F-3. [To correct location on drawings]
1RN-73A	11.31-7	Changed Coordinates to I-3. [To correct location on drawings]
1RN-112	11.31-7	Changed 1RN-112 to 1RN-112A under Valve #; Changed Coordinates to I-6. [To be consistent with plant labeling and To correct location on drawings]
1RN-117	II.31-7	Changed 1RN-117 to 1RN-117A under Valve #; Changed Coordinates to I-8. [To be consistent with plant labeling and To correct location on drawings]
1RN-89	11.31-7	Changed 1RN-89 to 1RN-89A under Valve #; Changed Coordinates to J-10. [To be consistent with plant labeling and To correct location on drawings]
1RN-140A	II.31-7	Changed Coordinates to E-13. [To correct location on drawings]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1RN-103	11.31-8	Changed IRN-103 to IRN-103A under Valve #. [To be consistent with plant labeling]
1RN-81A	II.31-8	DELETED VALVE [Valve was deleted during RN Piping Modification (NSM 1-1888)]
1RN-85A	11.31-8	DELETED VALVE [Valve was deleted during RN Piping Modification (NSM 1-1888)]
1RN-170	II.31-9	Changed 1RN-170 to 1RN-170B, under Valve #; Changed Coordinates to I-1. [To be consistent with plant labeling and To correct location on drawings]
1RN-171B	II.31-9	Changed Coordinates to E-3. [To correct location on drawings]
1RN-174B	II.31-9	Changed Coordinates to I-3. [See above]
1RN-162B	II.31-9	Changed Coordinates to K-3. [See above]
1RN-213B	II.31-9	Changed Coordinates to I-6. [See above]
1RN-218B	II.31-9	Changed Coordinates to I-8. [See above]
1RN-187B	II.31-9	Changed Coordinates to E-10. [See above]
1RN-190	II.31-9	Changed 1RN-190 to 1RN-190B under Valve #; Changed Coordinates to J-10. [To Be consistent with plant labeling and To correct location on drawings]
1RN-240B	II.31-9	Changed Coordinates to E-13. [To correct location on drawings]
1RN-182	11.31-10	DELETED VALVE [Valve was deleted during RN Piping Modification (NSM 1-1888)]
1RN-186	11.31-10	DELETED VALVE [Valve was deleted during RN Piping Modification (NMS 1-1888)]
1NC-36B	11.32-2	Changed Coordinates to J-2. [To correct location on drawings]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NC-34A	II.32-2	Changed Coordinates to J-4. [To correct location on drawings]
1NC-32B	II.32-2	Changed Coordinates to J-6. [To correct location on drawings]
ADDED THE FOI	LLOWING:	
1NC-35B	11.32-2	Class "A", Drawing # MC-1553-2.0, Coordinates H-2, Valve Category "B" Test Requirements "CT", Remarks 10 sec. max. stroke time. [See Below]
1NC-33A	11.32-2	Class "A", Drawing # MC-1553-2.0; Coordinates H-4, Valve Category check "B"; Test Requirements "CT", Remarks 10 sec. max. stroke time. [See Below]
1NC-31B	11.32-2	Class "A", Drawing # MC-1553-2.0; Coordinates H-6, Valve Category check "B"; Test Requirements "CT", Remarks 10 sec. max. stroke time. [To include the Pressurizer PORV block valves with the PORVs already in the Program.]
1NC-1	II.32-2	Changed Coordinates to J-9, [To correct location on drawings]
1NC-2	II.32-2	Changed Coordinates to J-10, [See above]
1NC-3	II.32-2	Changed Coordinates to J-11, [To correct location on drawings]
	11.32-1	Added drawing #MC-1553-2.1 [Due to drawing number change for valves 1NC-54A, 53B, 57, 56B, 272AC, 273AC and the addition of valves 1NC-274B, 275B, See Below]
1NC-54A	II.32-2 II.32-2a (New Page)	Changed Drawing # to MC-1553-2.1 (Relocated valve to new page II.32-2a in accordance with drawing number); Changed Coordinates to I-8. [To correct location on drawings]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NC-53B	II.32-2 II.32-2a (New Page)	Changed Drawing # to MC-1553-2.1 (Relocated valve to new page II.32-2a in accordance with drawing number); Changed Coordinates to I-10. [To correct location on drawings]
1NC-57	II.32-2 II.32-2a (New Page)	Changed Drawing # to MC-1553-2.1 (Relocated valve to new page II.32-2a in accordance with drawing number); Changed Coordinates to G-12. [To correct location on drawings]
1NC-56B	II.32-3 II.32-2a (New Page)	Changed Drawing # to MC-1553-2.1 (Relocated valve to new page II.32-2a in accordance with drawing number); Changed Coordinates to E-13. [See above]
1NC-272A,C	II.32-3 II.32-2a (New Page) II.32-6	Changed Drawing # to MC-1553-2.1 (Relocated valve to new page II.32-2a in accordance with drawing number); Changed Coordinates to L-7 (Page II.32-2a only) [See above]
1NC-273A,C	II.32-3 II.32-2a (New Page) II.32-6	Changed Drawing # to MC-1553-2.1 (Relocated valve to new page II32-2a in accordance with drawing number); Changed Coordinates to L-7 (Page II.32-2a only) [See above]
1NC-29C	II.32-3 II.32-2a (New Page)	Changed Coordinates to E-12. (Relocated valve to page II.32-2a to maintain valve grouping by drawing number. [To correct location on drawings]
1NC-27C	II.32-3 II.32-2a (New Page)	Changed Coordinates to C-12. Relocated valve to page II.32-2a to maintain valve grouping by drawing number. [See above]
1NC-195B	II.32-3	Changed Coordinates to K-7. [See above]
1NC-196A	II.32-3	Changed Coordinates to I-7. [See above]
1NC-141	II.32-3	Changed Coordinates to B-6. [See above]
INC-142	II.32-3	Changed Coordinates to B-5. [See above]

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

1NC-261 II.32-3 Changed Coordinates to B-7. [See above]

ADDED THE FOLLOWING:

INC-274B II.32-2a Class "A", Drawing # MC-1553-2.1,

(New Page) Coordinates K-7, Test Category "B",

Test Requirements "CT", Relief Requests "X",

Testing Alternative "CS", Remarks Max. cycle

time § 60 sec.

[See Below]

1NC-275B II.32-2a Class "A", Drawing # MC-1553-2.1,

(New Page) Coordinates K-7, Test Category "B",

Test Requirements "CT", Relief Requests "X",

Testing Alternative "CS", Remarks Max. cycle

time § 60 sec.

[See Below]

II.32-6 Added 1NC-274B and 1NC-275B to "VALVE".

Changed "Either" to "Any" in BASIS FOR RELIEF to reflect that relief now contains four valves.

[These are parallel valves with 1NC-272A,C, 1NC-273A,C. Tech. Spec. change emphasized need for inclusion.]

INC-27C

II.32-7 Changed BASIS FOR RELIEF: Full opening of either of these valves during normal power operation could cause a low NC pressure reactor trip and safety injection.

[Indication has been added for these valves but they still cannot be cycled quarterly.

The BASIS FOR RELIEF has been corrected/clarified.]

1FW-27A II.33-3 Changed CS to CS* under Testing Alternative.
[This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]

II.33-4 Changed ALTERNATE TESTING to read: Valve will be cycled and timed during/after cold shutdown, but prior to Mode 3 (Hot Standby). [To allow flexibility in testing while ensuring the valve is available as required by Tech. Spec.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1ND-18	II.34-2	Test Requirement added "LT" [Category A valves require a leak test.]
1ND-2A,C	II.34-2	Test Requirement added "LT" [Category A valves require a leak test.]
1ND-58A	II.34-3	Changed 60 sec. to 10 sec. under Remarks [Safety Analysis was done based on 10 not 60 seconds.]
1ND-1B 1ND-2A,C	II.34-4	Added "Valves will be leak tested in accordance with Technical Specifications" and changed "valve" to "valves" (since relief contains two valves) under Alternate Testing. [To clarify valves are leak tested in accordance with Tech. Specs.]
1ND-15B	II.34-3	Relief Request added: "x"; Testing Alternative added: "CS" [Testing can only be done at cold shutdown because closing this valve makes both trains of ND inoperable. (Reference: NRC IE Info Notice 87-01)]
1ND-30A	II.34-3	Relief Request added: "x"; Testing Alternative added: "CS" [Testing can only be done at cold shutdown because closing this valve makes both trains of ND inoperable. (Reference: NRC IE Info Notice 87-01.)]
ADDED MIE BOTT	0117110	

ADDED THE FOLLOWING:

II.34-9 Drawing #MC-1561-1.0 (New Page) VALVE: 1ND-15B, 1ND-30A

CATEGORY: B
CLASS: B
FUNCTION:

FUNCTION:

ND Heat Exchanger Outlet crossover block valves
TEST REQUIREMENT: Cycle and time valve

quarterly.

BASIS FOR RELIEF: One of the ECCS safety analysis assumptions is that each train of ND car

analysis assumptions is that each train of ND can supply flow to all four cold less. If either of

cold legs. If either of these valves fails closed during testing, then only two cold legs could be supplied by each train of ND. This would make both

trains of ND inoperable.

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
		ALTERNATE TESTING: Cycle and time at cold shutdown.
		[See BASIS FOR RELIEF above]
1ND-70	II.34-5	Deleted: "when the reactor head is removed" from Basis for Relief. [To clarify testing is done during refueling but not necessarily with the head removed.]
1ND-71	II.34-7	Deleted: "with the reactor head removed" from Basis for Relief. [To clarify testing is done during refueling but not necessarily with the head removed.]
1NI-9A	II.35-2	Changed Coordinates to H-9; Changed 10 sec. to 11 sec. under Remarks. [To correct location on drawings and to change stroke time based on a DE evaluation.]
1NI-10B	11.35-2	Changed Coordinates to G-9; Changed 10 sec. to 11 sec. under Remarks. [To correct location on drawings and to change stroke time based on a DE evaluation.]
1NI-12	II.35-2	Changed Coordinates to G-8. [To correct location on drawing]
1NI-15	II.35-2	Changed Coordinates to K-7. [See above]
1NI-17	II.35-3	Changed Coordinates to I-7. [See above]
1NI-347	11.35-3	Changed Coordinates to I-7. [See above]
1NI-19	II.35-3	Changed Coordinates to F-7. [See above]
1NI-348	II.35-3	Changed Coordinates to F-7. [See above]
1NI-21	II.35-3	Changed Coordinates to D-7. [See above]
1NI-349	II.35-3	Changed Coordinates to D-7. [See above]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NI-354	II.35-3	Changed Coordinates to K-7. [See above]
1NI-71	11.35-4	Changed Coordinates to H-13. [See abo 1]
1NI-47A	11.35-4	Added RF* to Testing Alternative. [To clarify leak testing requirements.]
1NI-93	11.35-5	Reversed position of "CS" and "RF". [To correct Alternate Testing/typo]
1NI-94	II.35-5	Positioned "CS" in Testing Alternative next to "LT" in Test Requirements and added "RF" in Testing Alternative next to "MT" in Test Requirements. [To correct Alternate Testing]
1NI-95A	II.35-5	Changed Coordinates to F-12, and Added RF* to Testing Alternative. [To correct location on drawing and To clarify leak testing requirements.]
1NI-96B	II.35-5	Changed Coordinates to E-13, and added RF* to Testing Alternative. [To correct location on drawing and to clarify leak testing requirements.]
1NI-103A	II.35-6	Changed Coordinates to J-14 [To correct location on drawing]
1NI-101	11.35-6	Changed Coordinates to F-13 [To correct location on drawing]
1NI-120E	II.35-7	Added RF* to Testing Alternative [To clarify leak testing requirements.]
1NI-122B	II.35-8	Replaced "CT" with "PC" in Test Requirements and replaced "Isolation time §10 sec." with "passive" in Remarks. [The St signal is going to be removed from this valve so it is now controlled administratively.]
1NI-128	II.35-8	Moved "x" under Relief Requests next to "MT" under Test Requirements and moved "RF" under Testing Alternative next to "MT". Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent/correct in identification of Relief Requests and Testing Alternatives.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NI-134	II.35-8	Changed Coordinates to G-4, moved "x" under Relief Requests next to "MT" under Test Requirements, and added "CS" under Testing Alternative next to "MT". [To correct location on drawings and to be consistent/correct in identification of Relief Request, and Testing Alternatives.]
1NI-129	II.35-8	Moved "x" under Relief Requests next to "MT" under Test Requirements and added "CS" under Testing Alternative next to "MT". [To be consistent/correct in identification of Reliefs and Testing Alternative.]
INI-124	II.35-8	Changed Coordinates to J-3 and Moved "x" under Relief Requests next to "MT" under Test Requirements and moved "RF" under Testing Alternative next to "MT". Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To correct location on drawing and To be consistent/correct in identification of Relief Requests and Testing Alternatives.]
1NI-126	II.35-8	Moved "x" under Relief Requests next to "MT" under Test Requirements and added "CS" under Testing Alternative next to "MT" [To be consistent/correct in identification of Reliefs and Testing Alternative.]
1NI-159	II.35-9	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent/correct in identification of Relief Requests and Testing Alternatives.]
1NI-160	II.35-9	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent/correct in identification of Relief Requests and Test Alternatives.]
1NI-156	11.35-9	Reversed position of "LT" and "MT" under Test Requirements, then placed a 'CS" under Testing Alternative next to "LT". [To be consistent/correct in identification of Relief Requests and Testing Alternatives.]
1NI-157	11.35-9	Reversed position of "LT" and "MT" under Test Requirements, then placed a 'CS" under Testing Alternative next to "LT". [To be consistent/correct in identification of Relief Requests and Testing Alternatives.]

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VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NI-125	11.35-8	Moved "x" under Relief Requests next to "MT" under Test Requirements and added "CS" under Testing Alternative next to "MT". [To be consistent/correct in identification of Reliefs and Testing Alternative.]
1NI-171	11.35-10	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for those leak test valves.]
1NI-169	11.35-10	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for those leak test valves.]
1NI-167	II.35-10	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for those leak test valves.]
1NI-165	II.35-10	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for those leak test valves.]
1NI-175	11.35-10	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for those leak test valves.]
1NI-176	11.35-10	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for those leak test valves.]
1NI-180	II.35-10	Changed Coordinates to F-6 and added 'CS" under Testing Alternative next to "LT" under Test Requirements. [To correct location on drawing and to be consistent in Testing Alternative identification for these leak test valves.]
1NI-181	II.35-11	Changed Coordinates to D-5 and added "CS" under Testing Alternative next to "LT" under Test Requirements. [See above]
1NI-358A	II.35-11	DELETED VALVE [Valve was removed from service as a result of the UHI deletion modification.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NI-244B	II.35-11	DELETED VALVE [Valve was made a passive manual valve during the UHI deletion modification.]
1NI-242B	11.35-11	DELETED VALVE [See above]
1NI-245A	11.35-11	DELETED VALVE [See above]
1NI-243A	11.35-12	DELETED VALVE [See above]
1NI-258A	11.35-12	DELETED VALVE [See above]
1NI-255B	II.35-12	DELETED VALVE [See above]
1NI-248	II.35-12	DELETED VALVE [Valve was removed from service as a result of the UHI deletion modification.]
1NI-249	II.35-12	DELETED VALVE [See above]
1NI-266A	11.35-12	DELETED VALVE [See above]
1NI-267A	11.35-12	DELETED VALVE [Changed to 1WL-1302A]
1NI-336	II.35-12	DELETED VALVE [Valve was removed from serivce as a result of the UHI deletion modification.]
INI-264B	II.35-12	DELETED VALVE [Changed to 1WL-1301B]
1NI-253	II.35-13	DELETED VALVE [Valve was removed from serivce as a result of the UHI deletion modification.]
1NI-252	11.35-13	DELETED VALVE [See above]
1NI-251	II.35-13	DELETED VALVE [See above]

VALVE NUMBER	R PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NI-250	II.35-13	DELETED VALVE [See above]
UHI Rupture Disc.	11.35-13	DELETED [Component was removed from service as a result of the UHI deletion modification]
1NI-430A 1NI-431B	II.35-16	Changed "air" to "nitrogen" under FUNCTION, and Changed BASIS FOR RELIEF to: "The piping downstream of these valves is not seismic (non-safety). If a valve fails open and there is a loss of integrity on the non-safety piping, a cold leg accumulator will be made inoperable." [Nitrogen is supplied to the PORV not air. The interlock was removed to allow a nitrogen supply to close a PORV in an emergency situation.]
1NI-81,70 1NI-59,93	II,35-18	Changed "425" to "600" psi under BASIS FOR RELIEF and added "Valves will be leak tested in accordance with Technical Specifications" under ALTERNATE TESTING. [To correctly identify accumulator over-pressure and to clarify the leak testing performed.]
1NI-82,71 1NI-60,94	11.35-20	Added "Valves will be leak tested in accordance with Technical Specifications" under ALTERNATE TESTING. [To clarify the leak testing performed.]
1NI-128,159 1NI-160,156 1NI-124,157	II.35-25	Added "Valves will be leak tested in accordance with Technical Specifications" ALTERNATE TESTING. [To clarify the leak testing performed.]
1NI-129,125 1NI-134,126	11.35-26	Added "Valves will be leak tested in accordance with Technical Specifications" under ALTERNATE TESTING. [To clarify the leak testing performed.]
1NI-165,167 1NI-169,171	II.35-28	Added "Valves will be leak tested in accordance with Technical Specifications" under ALTERNATE TESTING. [To clarify the leak testing performed.]
1NI-180,181 1NI-175,176	II.35-29	Added "Valves will be leak tested in accoradnce with Technical Specifications" under ALTERNATE TESTING. [To clarify the leak testing performed.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
1NI-248,249 1NI-250,251 1NI-252,253	II.35-31	DELETED RELIEF REQUEST [UHI was Deleted by modification.]
1BB-7A	II.37-2	Changed Coordinates to F-12 [To correct location on drawings]
1BB-4B	II.37-2	Changed Coordinates to H-10 [See above]
1BB-8B	II.37-3	Changed Coordinates to F-10 [See above]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
-	II.1-1	Added under the Introduction to IWV NOTE: The initials and date of the person responsible for the action may be used in place of a signature in the record of tests. Initials shall be construed as signatures to meet the intent of IWV-6230.
	II.3-1	Under Cold Shutdown (CS) changed "one per three (3) months." to "once per three (3) months." and added "Any valve specified to be testing during/at (CS) may be tested during Refueling Outage (RF) conditions." [To correct a typo and to clarify testing conditions.]
	II.3-1	Added: "Cold Shutdown (CS*) Same as (CS) except testing may be performed prior to and/or after cold shutdown (Mode 5) as specified in Alternate Testing." [To allow flexibility in testing on the way to cold shutdown or after cold shutdown. This clarifies present testing.]
-	II.3-1	Under Refueling Outage (RF) added: "Testing may be done while in No Mode as well as Mode 6."
	II.4-1	Deleted GENERAL RELIEF II.
2VE-1CA	11.5-2	Added CT to Test Requirements, Added 15 sec. max. stroke time under Remarks. [This change will specify the required stroke time for a category A valve when exercised.]
2VE-5A	11.5-2	Under Test Requirements changed MT to "CT", Added "15 sec. max. stroke time" under Remarks. [This category B valve is stroked and timed rather than movement tested. This change will correctly identify requried testing and the required valve stroke time.]
2VE-6B	II.5-2	Under Test Requirements changed MT to "CT", Added "15 sec. max. stroke time" under Remarks. [See above]
2VE-8A	II.5-2	Under Test Requirements changed MT to "CT", Added "20 sec. max. stroke time" under Remarks. [See above]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2CA-61	II.6-2	Changed CS to CS* under Testing Alternative. [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
2CA-66A	II.6-2	Changed 2CA-66A to 2CA-66A,C under Valve # and Changed 10 sec. to 12 sec. under Remarks. [To be consistent with plant labeling. Stroke time was changed based on DE evaluation and MEVN0789.]
2CA-65	II.6-2	Changed CS to CS*, under Testing Alternative. [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
2CA-57	11.6-2	Changed CS to CS* under Testing Alternative [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
2CA-54A	11.6-2	Changed 2CA-54A to 2CA-54A,C under Valve # and Changed 10 sec. to 12 sec. under Remarks. [To be consistent with plant labeling. Stroke time was changed based on DE evaluation and MEVN-0789.]
2CA-53	II.6-3	Changed CS to CS*, under Testing Alternative. [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
2CA-45	11.6-3	Changed CS to CS*, under Testing Alternatives. [See above]
2CA-50B	II.6-3	Changed 10 sec. to 12 sec., under Remarks. [Stroke time was changed based on DE evaluation and MEVN-0789.]
2CA-49	II.6-3	Changed CS to CS*, under Testing Alternative. [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
2CA-41	II.6-3	Changed CS to CS*, under Testing Alternative. [See above]
2CA-38B	11.6-4	Changed 10 sec. to 12 sec. under Remarks. [Stroke time was changed based on DE evaluation and MEVN-0789.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2CA-37	II.6-4	Changed CS to CS*, under Testing Alternative. [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
2CA-18B	11.6-4	Changed Coordinates to D-3. [To correct location on drawings]
2CA-7A	II.6-5	Changed 2CA-7A to 2CA-7A, C under Valve #. [To be consistent with plant labeling]
2CA-116B	II.6-5	Changed Coordinates to G-14. [To correct location on drawings]
2CA-32B	II.6-5	Changed Coordinates to I-8. [See above]
2NB-260B	II.7-2	Changed 10 sec. to 15 sec. under Remarks. [Stroke time was changed to correspond with Tech Spec Table 3.6-2 time.]
2VB-49B	II.8-2	Changed Coordinates to F-2. [To correct location on drawings]
2NV-7B	II.9-2	Changed Coordinates to J-11. [To correct location on drawings]
2NV-2A	II.9-2	Changed 10 sec. to 15 sec. under Remarks. [Based on a DE evaluation per PIR 2-M87-0146.]
2NV-844	II.9-2a	Changed Coordinates to F-4. [To correct location on drawings]

ADDED THE FOLLOWING:

2NV-150B	II.9-3	Class B, Drawing # MC-2554-2.0, Coordinates
		F-2, Valve Category "B", Test Requirements "CT", Remarks 10 sec. max. stroke time. [See Below]

2NV-151A II.9-3 Class B, Drawing # MC-2554-2.0, Coordinates G-2, Valve Category "B", Test Requirements "CT", Remarks 10 sec. max. stroke time.
[These valves isolate the NV pump miniflow line to the VCT. They get IE power and require operator action to isolate this flow path to give more NV flow if required in an accident.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2NV-7B	11.9-6	<pre>In ALTERNATE TESTING, changed "times" to "timed". [To correct typo]</pre>
2KC-81B	II.10-3	Changed Coordinates to E-13. [To correct location on drawings]
2VX-1A	II.12-2	Changed Coordinates to I-3. [See above]
2VP-1B	II.13-2	Changed Coordinates to I-6. [See above]
2VP-2A	II.13-2	Changed Coordinates to I-7. [See above]
2VP-3B	II.13-2	Changed Coordinates to K-6. [See above]
2VP-4A	II.13-2	Changed Coordinates to K-7. [See above]
2VP-6B	II.13-2	Changed Coordinates to E-6. [See above]
2VP-7A	II.13-2	Changed Coordinates to E-7. [See above]
2VP-8B	II.13-3	Changed Coordinates to D-6. [See above]
2VP-9A	II.13-3	Changed Coordinates to D-7. [See above]
2VP-10A	11.13-3	Changed Coordinates to J-8. [See above]
2VP-11B	II.13-3	Changed Coordinates to J-9. [See above]
2VP-12A	II.13-3	Changed Coordinates to I-8. [See above]
2VP-13B	II.13-3	Changed Coordinates to I-9. [See above]
2VP-15A	II.13-4	Changed Coordinates to F-8. [See above]
2VP-16B	II.13-4	Changed Coordinates to F-9. [See above]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2VP-17A	II.13-4	Changed Coordinates to B-7. [See above]
2VP-18B	II.13-4	Changed Coordinates to B-6. [See above]
2VP-19A	II.13-4	Changed Coordinates to B-8. [See above]
2VP-20B	1.13-4	Changed Coordinates to B-9. [See above]
2NS-4	II.14-3	Changed Coordinates to C-12. [See above]
2RV-80B	II.15-2	Changed Coordinates to K-6. [See above]
2VG-64	II.19-2	Changed Coordinates to H-2. [See above]
2VG-63	II.19-2	Changed Coordinates to I-2. [See above]
ADDED THE FOLI	LOWING:	
2VG-115	II.19-2	Class C, Drawing #MC-2609-4.0, Coordinates K-9, Valve Category C, Test Requirements MT. [See Below]
2VG-116	II.19-2	Class C, Drawing #MC-2609-4.0, Coordinates H-9, Valve Category C, Test Requirements MT. [See Below]
2VG-117	II.19-2	Class C, Drawing #MC-2609-4.0, Coordinates F-9, Valve Category C, Test Requirements MT. [See Below]
2VG-118	II.19-2	Class C. Drawing #MC-2609-4.0, Coordinates C-9, Valve Category C, Test Requirements MT. [These valves are added as a result of an AEOD concern on check valves and an applied increased scope of IWV. They ensure the D/G starting air will be available if a seismic event causes a loss of the VG compressor and non-seismic piping.]
2CF-26	II.21-2 II.21-6	Changed 2CF-26 to 2CF-26 A,B under Valve #. [To be consistent with plant labeling]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2CF-28	II.21-2 II.21-6	Changed 2CF-28 to 2CF-28A,B under Valve #. [See above]
2CF-30	II.21-2 II.21-6	Changed 2CF-30 to 2CF-30A,B under Valve #. [See above]
2CF-35	II.21-2 II.21-6	Changed 2CF-35 to 2CF-35A,B under Valve #. [See above]
2CF-129	II.21-2 II.21-8	Changed 2CF-129 to 2CF-129A,B under Valve #, and Changed Coordinates to H-1 (Page II.21-2 only). [To be consistent with plant labeling and To correct location on drawings]
2CF-137A	II.21-2	Changed Coordinates to G-2. [To correct location on drawings]
2CF-128	II.21-2 II.21-8	Changed 2CF-128 to 2CF-128B under Valve #, and Changed Coordinates to H-4 (Page II.21-2 only). [To be consistent with plant labeling and To correct location on drawings]
2CF-136A	11,21-3	Changed Coordinates to G-5. [To correct location on drawings]
2CF-127	II.21-3 II.21-8	Changed 2CF-127 to 2CF-127B under Valve # and Changed Coordinates to H-8 (Page II.21-3 only). [To be consistent with plant labeling and To correct location on drawings.]
2CF-135A	II.21-3	Changed Coordinates to G-9. [See above]
2CF-126	II.21-3 II.21-8	Changed 2CF-126 to 2CF-126B under Valve # and Changed Coordinates to H-11 (Page II.21-3 only). [To be consistent with plant labeling and To correct location on drawings.]
2CF-134A	II.21-3	Changed Coordinates to H-12. [See above]
2CF-104	II.21-3 II.21-9	Changed 2CF-104 to 2CF-104A,B under Vaive #, and Changed Coordinates to K-12 (Page II.21-3 only). [To be consistent with plant labeling and To correct location on drawings]

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VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2CF-105	II.21-3 II.21-9	Changed 2CF-105 to 2CF-105A,B under Valve #. [To be consistent with plant labeling]
2CF-106	121-4 II.21-9	Changed 2CF-106 to 2CF-106A,B under Valve #. [See above]
2CF-107	II.21-4 II.21-9	Changed 2CF-107 to 2CF-107A,B under Valve #. [See above]
2CF-153B	II.21-4	Changed Coordinates to G-11. [To correct location on drawings]
2CF-155B	II.21-4	Changed Coordinates to G-11. [See above]
2CF-17	II.21-4 II.21-7	Changed 2CF-17 to 2CF-17A,B under Valve #. [To be consistent with plant labeling]
2CF-20	II.21-5 II.21-7	Changed 2CF-20 to 2CF-20A,B under Valve #. [See above]
2CF-23	II.21-5 II.21-7	Changed 2CF-23 to 2CF-23A,B under Valve #. [See above]
2CF-32	II.21-5 II.21-7	Changed 2CF-32 to 2CF-32A,B under Valve #. [See above]
ADDED THE FOLI	LOWING:	
2CF-152	II.21-5	Class B, Drawing #MC-2591-1.1, Coordinates F-12, Valve Category C, Test Requirement MT, Relief Request X, Testing Alternative CS. [See Below]
2CF-154	II.21-5	Class B, Drawing #MC-2591-1.1, Coordinates F-11, Valve Category C, Test Requirement MT, Relief Request X, Testing Alternative CS. [See Below]
2CF-156	II.21-5	Class B, Drawing \$MC-2591-1.1, Coordinates F-10, Valve Category C, Test Requirement MT, Relief Request X, Testing Alternative CS. [See Below]
2CF-158	11.21-5	Class B. Drawing #MC-2591-1.1, Coordinates F-12, Valve Category C, Test Requirement MT, Relief Request X, Testing Alternative CS. [See Below]

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

II.21-10 Drawing #MC-2591-1.1

VALVE: 2CF-152, 2CF-154, 2CF-156, 2CF-158

CATEOGRY: C CLASS: B

FUNCTION: Provides tempering flow

to the S/G Auxiliary Feedwater Nozzles.

TEST REQUIREMENT: Exercise valve to prove

valve closes to prevent

reversal of flow

quarterly.

BASIS FOR RELIEF: During normal operation,

there is constant flow through these check valves to keep the auxiliary feedwater nozzles tempered. Testing these check valves would require supplying the S/Gs with cold Aux. Feedwater and thus thermally shocking the nozzles.

the nozzles

ALTERNATE TESTING: During Cold Shutdown,

each valve will be exercised to prove valve closes to prevent gross diversion of flow.

[These valves are added as a result of an AEOD concern on check valves and an applied increased scope of IWV. They ensure the CA system will be able to supply the S/Gs if a seismic event causes a loss of non-seismic piping and a B train valve upstream of the check valve.]

Due to addition of valves 2WL-1301B and

2WL-264	II.25-2	Under Valve Category checked "C". [To correctly categorize the valve (typo)]
2WL-321A	II.25-3	Changed Coordinates to I-5. [To correct location on drawings]
2WL-322B	11.25-3	Changed Coordinates to H-4. [See above]
	II.25-1	Added Drawing #MC-2562-4.0

2WL-1302A, See Below]

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

ADDED THE FOLLOWING:

2WL-1301B II.25-1a Class "B", Drawing # MC-2562-4.0,
Coordinates G-3, Valve Category "A",
Test Requirements "CT" & "LT", Remarks
"Isolation time § 10 sec."
[Number change, valve was 2NI-264. Changed due to UHI deletion.]

2WL-1302A II.25-1a Class "A", Drawing # MC-2562-4.0,
Coordinates E-4, 'alve Category "A",
Test Requirements "CT" & "LT", Remarks
"Isolation time § 10 sec.
[Number change, valve was 2NI-267. Changed due to UHI deletion.]

2WL-446 II.25-2 Class "F", Drawing # MC-2565-1.0,
Coordinates G-13, Valve Category "C", Test
Requirements "MT" & "Q", Relief Requests "X",
Testing Alternative "RF".
[See Below]

II.25-3a DRAWING # MC-2565-1.0 VALVE: 2WL-446 CATEGORY: C CLASS: F

CLASS: F FUNCTION:

Prevents steam flow from Lower Containment to Upper Containment bypassing the Ice Condenser in an accident.

TEST REQUIREMENT: Full stroke exercise

quarterly.

BASIS FOR RELIEF: The check valve is on a

drain line from the VX

fan pit to Lower

Containment. The valve is located at the end of a six inch pipe in Lower Containment and cannot be

accessed without radiation exposure and safety related risks. The check valve is normally closed and has no fluid on

the valve.

ALTERNATE TESTING: The valve will be

visually inspected during refueling outages to ensure free movement. (No disassembly will be

required.)

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
		[This valve was added to the program because failure to open to drain the VX fan pit would result in flooding the VX fan and making it inoperable.]
2SM-1AB	11.26-2	Changed CS to CS* under Testing Alternative. [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
2SM-9AB	II.26-2	Changed CS to CS* under Testing Alternative. [See above]
2SM-3AB	II.26-2	Changed CS to CS* under Testing Alternative. [See above]
2SM-10AB	11.26-2	Changed CS to CS* under Testing Alternative. [See above]
2SM-5AB	II.26-2	Changed Coordinates to I-14 and Changed CS to CS* under Testing Alternative [To correct location on drawings and clarify testing done "at" Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives.)]
2SM-11AB	II.26-2	Changed Coordinates to I-13, and Changed CS to CS* under Testing Alternative. [See above]
2SM-7AB	II.26-2	Changed Coordinates to C-14, and Changed CS to CS* under Testing Alternative. [See above]
2SM-12AB	11.26-2	Changed Coordinates to C-13, and Changed CS to CS* under Testing Alternative. [See above]
2SM-1AB, 2SM-3AB, 2SM-5AB, 2SM-7AB	11.26-3	Deleted "Hot Shutdown conditions are required to exercise the isolation valves because of valve design." from Basis for Relief. Changed ALTERNATE TESTING to: These valves will be partially stroked quarterly while in Modes 1, 2 or 3. These valves will be full stroked and timed at hot shutdown conditions or cold shutdown. [After talked with the valve manufacturer, it was determined these valves could be cycled without steam on the valves.]

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

ADDED THE FOLLOWING:

2SA-5

II.27-2

Class "B", Drawing # MC 2593-1.2, Coordinates
F-4, Valve Category "C", Test Requirements
"MT", Relief Request "x", Testing Alternative
"RF".

[See Below]

2SA-6

II.27-2

Class "B", Drawing # MC 2593-1.2, Coordinates
F-3, Valve Category "C", Test Requirements
"MT", Relief Request "x", Testing Alternative
"RF".

[See Below]

II.27-3 DRAWING # MC-2593-1.2
(New Page) VALVE: 2SA-5, 2SA-6
CATEGORY: C
CLASS: B
FUNCTION: 1

- 1) Passes steam to supply the Turbine Driven Auxiliary Feedwater Pump.
- 2) Prevents cross connecting Steam Generators 2B and 2C.
- TEST REQUIREMENT: 1) Full stroke exercise quarterly.
 - Verify valve prevents reversal of flow quarterly.

BASIS FOR RELIEF: 1) None required.

2) System configuration and design do not provide a suitable means to prove the valve prevents reversal of flow. To check this valve on line would risk personnel safety since high energy steam would be involved.

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

ALTERNATE TESTING: 1) None required.

2) At least one of the two valves will be disassembled and inspected (verified to close) during each refueling. Both valves will have been disassembled and inspected after two consecutive refueling outages. Failure of one valve to function properly during a refueling outage will result in the remaining valve being disassembled and inspected during that outage.

[It has been determined that these check valves have a safety function to close. This would prevent blowing down two steam genertors to containment. This added testing assures valve operability.]

2SA-48AB	11.27-2	Changed 2SA-48AB to 2SA-48AB, C under Valve #, and Changed Coordinates to E-4. [To be consistent with plant labeling and To correct location on drawings]
2SA-49AB	II.27 - 2	Changed Coordinates to F-2. [To correct location on drawings]
2SV-13AB	11.28-2	Changed 20 sec. to 60 sec. under Remarks. [To change max. stroke time to DED Report MBME-87-268 recommended time.]
2SV-19AB	II.28-2	Changed 20 sec. to 60 sec. under Remarks. [See above]
2SV-1AB	II.28-3	Changed 20 sec. to 60 sec. under Remarks. [See above]
2SV-7AB	II.28-3	Changed 2SV-7AB to 2SV-7AB,C under Valve #, and Changed 20 sec. to 60 sec. under Remarks. [To be consistent with plant labeling and To change max. stroke time to DED Report MBME-87-268 recommended time.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2YM-115B	11.29-2	Changed Coordinates to C-9. [To correct location on drawings]
2NM-3A	II.30-2	Changed 2NM-3A to 2NM-3A,C under Valve #. [To be consistent with plant labeling]
2NM-6A	11.30-2	Changed 2NM-6A to 2NM-6A,C under Valve #. [See above]
2NM-26B	II.30-2	Changed Coordinates to K-9. [To correct location on drawings]
2NM-25A	II.30-2	Changed 2NM-25A to 2NM-25A,C under Valve #. [To be consistent with plant labeling]
2NM-22A	11.30-3	Changed 2NM-22A to 2NM-22A,C under Valve #. [See above]
2NM-420	11.30-3	Changed Coordinates to J-3. [To correct location on drawings]
2NM-421	II.30-3	Changed Coordinates to J-12. [See above]
2NM-78B	11.30-3	Changed Coordinates to I-10. [See above]
ORN-4A	II.31-2	Changed ORN-4A to ORN-4A,C under Valve #. [To be consistent with plant labeling]
ORN-1	II.31-3	DELETED VALVE [This valve is in its passive position and serves no safety function in shutting down the plant. It receives no signals to change its position. It is administratively controlled.]
ORN-148A	11.31-4	Changed ORN-148A to ORN-148A, C under Valve #. [To be consistent with plant labeling]
2RN-68A	II.31-5	Changed Coordinates to L-12. [To correct location on drawings]
2RN-161B	II.31-6	Changed Coordinates to B-12. [See above]
2RN-296A	II.31-6	Changed Coordinates to L-13. [See above]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2RN-297B	II.31-6 II.31-9	Changed Drawing # to MC-2574-3.0 (Relocated valve to Page II.31-9 in accordance with drawing number); and Changed Coordinates to L-5 (Page II.31-6 only). [See above]
2RN-166A	II.31-7	Changed Coordinates to I-1. [See above]
2RN-69A	II.31-7	Changed Coordinates to K-7. [See above]
2RN-112A	II.31-7	Changed Coordinates to I-8. [See above]
2RN-89	II.31-7	Changed 2RN-89 to 2RN-89A, under Valve f. [To be consistent with plant labeling]
2RN-81A	II.31-8	DELETED VALVE [Valve was deleted during RN Piping Modifications (NSM 2-0668).]
2RN-126A	II.31-8	Changed Coordinates to D-10. [To correct location on drawings]
2RN-85A	II.31-8	DELETED VALVE [Valve was deleted during RN Piping Modifications (NSM 2-0668).]
2RN-170B	11.31-9	Changed Coordinates to I-1. [To correct location on drawings]
2RN-162B	II.31-9	Changed Coordinates to J-7. [See above]
2RN-213B	II.31-9	Changed Coordinates to J-8. [See above]
2RN-218B	11.31-9	Changed Coordinates to I-10. [See above]
2RN-240B	II.31-9	Changed Coordinates to F-13. [See above]
2RN-182B	II.31-10	DELETED VALVE [Valve was deleted during RN Piping Modifications (NSM 2-0668).]
2RN-186B	11.31-10	DELETED VALVE [Valve was deleted during RN Piping Modifications (NSM 2-0668).]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2RN-277B	11.31-11	Changed Coordinates to 4-2. [To correct location on drawings]
2RN-279B	II.31-11 II.31-4	Changed Drawing # to MC-1574-1.0 (Relocated valve to Page II.31-4 in accordance with drawing number); and Changed Coordinates to C-2. [To correct location on drawings]
2RN-299A	II.31-11 II.31-4	Changed Drawing # to MC-1574-1.0 (Relocated valve to Page II.31-4 in accordance with drawing number); and Changed Coordinates to C-2. [See above]
ADDED THE FOLL	OWING:	
2NC-35B	II.32-2	Class "A", Drawing # MC-2553-2.0, Coordinates F-2, Valve Category check "B", Test Requirements "CT", Remarks 10 sec. max. stroke time. [See Below]
2NC-33A	11.32-2	Class "A", Drawing # MC-2553-2.0, Coordinates F-3, Valve Category check "B", Test Requirements "CT", Remarks 10 sec. max. stroke time. [See Below]
2NC-31B	11.32-2	Class "A", Drawing # MC-2553-2.0, Coordinates F-5, Valve Category check "B", Test Requirements "CT", Remarks 10 sec. max. stroke time. [To include the Pressurizer PORV block valves with the PORVs already in the Program.]
2NC-273A,C	II.32-2	Changed Coordinates to J-10. [To correct location on drawings]
2NC-141	II.32-3	Changed Coordinates to C-7. [To correct location on drawing]
2NC-142	11.32-3	Changed Coordinates to B-6. [See above]

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

ADDED THE FOLLOWING:

2NC-274B II.32-2 Class "A", Drawing # MC-2553-2.0,
Coordinates I-9, Valve Category "B", Test Requirements "CT",
Relief Requests "X", Testing Alternative "CS", Remarks "Max.
cycle time § 60 sec."
[See Below]

- 2NC-275B II.32-2 Class "A", Drawing # MC-2553-2.0,
 Coordinates I-10, Valve Category "B", Test
 Requirements "CT", Relief Requests "X",
 Testing Alternative "CS", Remarks "Max. cycle
 time § 60 sec."
 [See Below]
 - II.32-6 Added 2NC-274B and 2NC-275B to "VALVE:"
 Changed "Either" to "Any" in BASIS FOR RELIEF
 to reflect that relief now contains four
 valves.

[These are parallel valves with 2NC-272A,C and 2NC-273A,C. Tech Spec change emphasized need for inclusion.]

- 2NC-27C II.32-7 Changed BASIS FOR RELIEF: Full opening of either of these valves during normal power operation could cause a low NC pressure reactor trip and safety injection.

 [Indication has been added for these valves but they still cannot be cycled quarterly.

 The BASIS FOR RELIEF has been corrected/clarified.]
- 2FW-4 II.33-2 Changed Coordinates to D-8.
 [To correct location on drawings]
- 2FW-11 II.33-2 Changed Coordinates to C-2. [See above]
- 2FW-13 II.33-2 Changed Coordinates to D-2. [See above]
- 2FW-27A II.33-3 Changed CS to CS*, under Testing Alternative.

 [This change clarifies testing done 'at' Cold Shutdown. (See change in Definitions of Testing Requirements and Alternatives)]
- 2FW-67 II.33-3 Changed 2FW-67 to 2FW-63 under valve number, and Changed Coordinates to C-3.

 [To correctly identify valve required to be in the IWV Program and To correct location on drawings]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2FW-27A	II.33-4	Changed ALTERNATE TESTING to read: Valve will be cycled and timed during/after Cold Shutdown, but prior to Mode 3 (Hot Standby). [To provide flexibility in testing while ensuring valve is available as required by Tech Spec.]
2ND-1B	II.34-2	Added "LT" to Testing Requirements. [Category A valves require a leak test]
2ND-2A,C	II.34-2	Added "LT" to Testing Requirements. [See above]
2ND-58A	II.34-3	Changed 60 sec. to 10 sec. under Remarks. [Safety Analysis was done based on 10 not 60 seconds]
2ND-15B	II.34-3	Under Relief Requests added an "X", under Testing Alternative added "CS". [Testing can only be done at cold shutdown because closing this valve makes both trains of ND inoperable]
2ND-30A	II.34-3	Under Relief Requests added an "X", under Testing Alcernative added "CS". [See above]
2ND-1B 2ND-2A,C	II.34-4	Added "Valves will be leak tested in accordance with Technical Specifications." and changed "Valve" to "Valves" (since relief contains two valves) under Alternate Testing. [To clarify that valves are leak tested in accordance with Tech. Specs.]
2ND-70	II.34-5	Deleted "when the reactor head is removed" from BASIS FOR RELIEF [To clarify testing is done during refueling but not necessarily with the head removed.]
2ND-71	II.34-7	Deleted "with the reactor head removed" from BASIS FOR RELIEF [See above]

VALVE NUMBER PAGE # DESCRIPTION OF CHANGE [REASON FOR CHANGE]

ADDED THE FOLLOWING:

II.34-9 DRAWING: # MC-2561-1.0 (New Page) VALVE: 2ND-15B, 2ND-30A CATEGORY: B

CLASS: B

FUNCTION: ND Heat Exchanger Outlet

Crossover Block Valves

TEST REQUIREMENT: Cycle and time valve

quarterly.

BASIS FOR RELIEF: One of the ECCS safety

analysis assumptions is that each train of ND can supply flow to all four cold legs. If either of these valves fails closed during testing, then only two cold legs could be supplied by each train of ND. This woule make both trains of ND inoperable.

ALTERNATE TESTING: Cycle and time at cold

		shutdown. [See BASIS FOR RELIEF above.]
2NI-9A	11.35-2	Changed 10 sec. to 11 sec. under Remarks. [To change stroke time based on a DE evaluation.]
2NI-10B	II.35-2	Changed 10 sec. to 11 sec. under Remarks. [See above]
2NI-348	II.35-2	Changed Coordinates to F-5. [To correct location on drawings]
2NI-430A	11.35-3	Changed Coordinates to F-4. [See above]
2NI-47A	11.35-4	Added RF* to Testing Alternative. [To clarify leak testing requirements.]
2NI-93	11.35-4	Reversed position of "CS" and "RF" under Testing Alternative. [To correct Alternate Testing typo.]
2NI-94	11.35-4	Positioned "CS" in Testing Alternative next to "LT" in Test Requirement and added "RF" in Testing Alternative next to "MT" in Test

Requirement.

[To correct Alternate Testing.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2NI-95A	II.35-4	Added RF* to Testing Alternative. [To clarify leak testing requirements.]
2NI-96B	11.35-5	Changed Coordinates to E-13 and added RF* to Testing Alternative. [To correct location on drawings and to clarify leak testing requirement.]
2NI-101	II.35-5	Changed Coordinates to F-13 [To correct location on drawing.]
2NI-12OB	II.35-7	Added RF* to Testing Alternative. [To clarify leak testing requirements]
2NI-122B	II.35-7	Replaced "CT" with "PC" in Test Requirements, and replaced "Isolation time §10 sec." with "Passive" under Remarks. [The St signal is going to be removed from this valve so it is now controlled administratively.]
2NI-128	11,35-7	Moved "x" under Relief Requests next to "MT" under Test Requirements and moved "RF" under Testing Alternative next to "MT". Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent/correct in identifictation of Relief Requests and Testing Alternatives]
2NI-134	11.35-7	Moved "x" under Relief Requests next to "MT" under Test Requirements and added "CS" under Testing Alternative next to "MT". [See above]
2NI-129	II.35-7	Moved "x" under Relief Requests next to "MT" under Test Requirements and added "CS" under Testing Alternative next to "MT". [See above]
2NI-124	11,35-7	Changed coordinates to J-3 and moved "x" under Relief Requests next to "MT" under Test Requirements and moved "RF" under Testing Alternative next to "MT". Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To correct location on drawing and to be consistent/correct in identification of Relief Requests and Testing Alternatives]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]				
2NI-126	11,35-8	Moved "x" under Relief Requests next to "MT" under Test Requirements and added "CS" under Testing Alternative next to "MT". [To be consistent/correct in identification of Reliefs and Testing Alternative.]				
2NI-152B	11.35-8	Changed 10 sec. to 20 sec. under Remarks. [This stroke time was changed based on an emergency modification NSM-MG-2-2041.]				
2NI-159	11.35-8	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent/correct in identification of Relief Requests and Testing Alternatives.]				
2NI-160	II.35-8	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent/correct in identification of Relief Requests and Testing Alternatives.]				
2NI-156	11.35-8	Reversed position of "LT" and "MT" under Test Requirements, then placed a "CS" under Testing Alternative next to "LT". [To be consistent/correct in identification of Test Requirements and Alternatives.]				
2NI-157	II.35-8	Reversed position of "LT" and "MT" under Test Requirements, then placed a "CS" under Testing Alternative next to "LT". [To be consistent/correct in identification				
2N1-125	11.35-8	of Test Requirements and Alternatives.] Moved "x" under Relief Requests next to "MT" under Test Requirements and added "CS" under Testing Alternative next to "MT". [See above]				
2NI-171	11.35-9	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for these leak rest valves.]				
2NI-169	II.35-9	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for these leak test valves.]				
2NI-167	11.35-9	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for these leak test valves.]				

VALVE NUMBER	PAGE #	DESCRIPTION OF CTANGE [REASON FOR CHANGE]			
2NI-165	11.35-9	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for these leak test valves.]			
2NI-1:5	11.35-9	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for these leak test valves.]			
2NI-176	II.35-10	Added "CS" under Testing Alternative next to "LT" under Test Requirements. [To be consistent in Testing Alternative identification for these leak test valves.]			
2NI-180	II.35-10	Changed Coordinates to F-7 and Added "CS" under Test Alternative next to "LT" under Test Requirements. [To correct location on drawings and to be consistent in Testing Alternative identification for these leak test valves.]			
2NI-181	Changed Coordinates to D-8 and added "CS" under Testing Alternative next to "LT" under Test Requirements. [See above]				
2NI-358A	11.35-10	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mode.]			
2NI-244B	11.35-10	DELETED VALVE [Valve was made a passive manual valve during the UHI deletion mod.]			
2NI-242B	11.35-11	DELETED VALVE [Valve was made a passive manual valve during the UHI deletion mod.]			
2NI-245A	II.35-11	DELETED VALVE [Valve was made a passive manual valve during the UHI deletion mod.]			
2NI-243A	II.35-11	DELETED VALVE [Valve was made a passive manual valve during the UHI deletion mod.]			
2NI-258A	II.35-11	DELETED VALVE [Valve was made a passive manual valve during the UHI deletion mod.]			

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2NI-255B	II.35-11	DELETED VALVE [Valve was made a passive manual valve during the UHI deletion mod.]
2NI-248	II.35-11	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mod.]
2NI-249	II.35-11	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mod.]
2NI-266A	II.35-11	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mod.]
2NI-267A	11.35-11	DELETED VALVE [Changed to 2WL-1302A]
2NI-335	II.35-12	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mod.]
2NI-264B	II.35-12	DELETED VALVE [Changed to 2WL-1301B]
2NI-253	II.35-12	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mod.]
2NI-252	II.35-12	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mod.]
2NI-251	II.35-12	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mod.]
2NI-250	II.35-12	DELETED VALVE [Valve was removed from service as a result of the UHI deletion mod.]
UHI Rupture Disc	II.35-12	DELETED [Component was removed from serivce as a result of the UHI deletion mod.]

VALVE NUMBER	PAGE #	DESCRIPTION OF CHANGE [REASON FOR CHANGE]
2NI-430A 2NI-431B	II.35-16	Changed "air" to "nitrogen" under FUNCTION and Changed BASIS FOR RELIEF to: The piping downstream of these valves is not seismic (non-safety). If a valve fails open and there is a loss of integrity on the non-safety piping, a Cold Leg Accumulator will be made inoperable. [Nitrogen is supplied to the PORV not air. The interlock was removed to allow a nitrogen supply to close a PORV in an emergency situation.]
2NI-81,70 2NI-59,93	II.35-18	Changed "425" to "600" psi under BASIS FOR RELIEF and added "Valves will be leak tested in accordance with Technical Specifications." under ALTERNATE TESTING. [To correctly identify accumulator over-pressure and to clarify the leak testing performed.]
2NI-82,71 2NI-60,94	11.35-20	Added "Valves will be leak tested in accordance with Technical Specifications." under ALTERNATE TESTING. [To clarify the leak testing performed.]
2NI-128,159 2NI-160,156 2NI-124, 157	11.35-25	Added "Valves will be leak tested in accordance with Technical Specifications." under ALTERNATE TESTING. [To clarify the leak testing performed.]
2NI-129,125 2NI-134, 126	11.35-26	Added "Valves will be leak tested in accordance with Technical Specifications." under ALTERNATE TESTING. [To clarify the leak testing performed.]
2NI-165,167 2NI-169,171	11.35-28	Added "Valves will be leak tested in accordance with Technical Specifications." under ALTERNATE TESTING. [To clarify the leak testing performed.]
2NI-180,181 2NI-175,176	11.35-29	Added "Valves will be leak tested in accordance with Technical Specifications." under ALTERNATE TESTING. [To clarify the leak testing performed.]
2NI-248,249 2NI-250,251 2NI-252,253	11.35-31	DELETED RELIEF REQUEST [UHI was Deleted by modification.]

ATTACHMENT 2C

SUMMARY OF MAJOR IWV PROGRAM CHANGES

- Under General Relief, a note was added to interpret that the use of a person's initials in the record of test results for the person responsible for the action meets the intent of the person's signature (IWV-6230).
- Under Definitions of Testing Requirements and Alternatives, Cold Shutdown (CS) and Refueling Outage (RF) definitions were clarified such that (CS) testing may be done during (RF) conditions and (RF) testing may be done during No Mode. Also another definition, Cold Shutdown (CS*) was added to clarify testing which is done during the shutdown or startup.
- Under General Relief, deleted General Relief #II. McGuire now times all its valves from initiation to limit rather than limit to limit.
- The Test Requirements were clarified for Annulus Ventilation valves and the required stroke times were added to reflect Tech. Spec. (Table 3.6-2) and flow diagram specified stroke times.
- Auxiliary Feedwater valves have their Testing Alternative clarified for CA-61, 65, 57, 53, 45, 49, 41 and 37. Also, valves CA-66A,C; 54A,C; 50B; and 38B had their maximum operating times changed from 10 to 12 seconds per MEVN-0788 (Unit 1) and MEVN-0789 (Unit 2).
- Boron Recycle valve, NB-260B, isolation time was changed from 10 to 15 seconds to be consistent with T.S. Table 3.6-2.
- On Unit 2 only, Chemical and Volume Control valve, 2NV-2A, maximum cycle time was changed from ≤10 to ≤15 seconds based on the response from Design Engineering for PIR 2-M87-0146. Design Engineering stated that a less than 15 second overall time for this valve would demonstrate operability.
- Added valves NV-150, 151 to the program. These valves were originally in the IWV Program but were deleted when the automatic signal to these valves were removed. These valves still receive IE power and require operator action to close the valves if additional NV pump flow is required in an accident.
- Added valves VG-115, 116, 117, 118. As a result of AEOD concerns on check valves, a review of class 1, 2, 3 check valves was made with an increased IWV scope. As a result of this review, it was determined that these valves should be added to IWV because they ensure the D/G starting air will be available if a seismic event causes a loss of the VG compressor and non-seismic piping.
- Added Feedwater valves, CF-152, 154, 156, 158. As a result of AEOD concerns on check valves, a review of class 1, 2, 3 check valves was made with an increased IWV scope. As a result of this review, it was determined that these valves should be added to IWV because they should prevent diversion of CA flow to the auxiliary nozzles if there is a seismic event and loss of a B train valve upstream of the check valve.

- Added Liquid Waste Recycle valves, WL-1301B, 1302A. These were formerly Safety Injection valves NI-264B, 267A respectively. The valve numbers were changed as a result of UHI deletion and piping modifications.
- Added valves 1WL-466 and 2WL-446. These are check valves in the drain lines of the Containment Air Return (VX) fan pit. Improper operation of these valves could result in flooding the VX fans and making them inoperable.
- Main Steam isolation valve testing conditions were clarified along with drawing locations.
- Main Steam Vent to Atmosphere valves SV-1, 7, 13, 19 closure times were evaluated per Design Engineering Department Report MBME-87-268 and determined that a closure time of 60 seconds was acceptable.
- Nuclear Service Water Valve ORN-1 was deleted. The only time this valve was moved from its required position was to stroke time test. This is a passive valve that receives no safety signal to move. Other active valves in the RN system assure RN supply.
- Nuclear Service Water valves RN-81, 85, 182, 197 were deleted during an RN piping replacement/modification (NSM #1-1888 (Unit 1); #2-0668 (Unit 2)). It was determined that these valves were not needed.
- Reactor Coolant valves NC-31B, 33A, 35B were added to the Program to ensure that PORVs can be isolated by use of these PORV block valves.
- Reactor Coolant valves NC-274B and NC-275B were added because they are in a parallel path with NC-272A,C and NC-273A,C which are already in the program. Also changes to Technical Specifications 3.4.9 and 3.4.11 emphasized the need for the addition of these Reactor Vessel Head Vent valves.
- Reactor Coolant valves NC-27C and NC-29C BASIS FOR RELIEF was changed to clarify why these valves cannot be full stroked quarterly. The valves previously had no position indicators. A modification was made to add position indicators for the valves but this does not allow full stroking quarterly.
- Refueling Water valve FW-27A had its Testing Alternative clarified for cold shutdown testing. This was done to allow flexibility in testing while ensuring the valve is available as required by Technical Specifications.
- Residual Heat Removal valves ND-1B and ND-2A,C Test Requirements were changed to include leak testing. These valves are leak tested in accordance with Technical Specifications. They have always been leak tested but the program has not had leak testing identified as a requirement.
- Residual Heat Removal valve ND-58A required stroke time was changed from 60 to 10 seconds. The safety analysis for the ND system was based on a 10 second stroke time for ND-58A. This change ensures the basis for the safety analysis is met.

- Residual Heat Removal valves ND-15B and ND-30A had their testing frequency changed from quarterly to cold shutdown. With one of these valves closed, one train of ND cannot supply four cold legs as assumed in the ECCS safety analysis. Testing the valves quarterly would require closing the valves and making both trains of ND inoperable.
- Safety Injection valves NI-9A and NI-10B required stroke time was changed from 10 to 11 seconds based on an evaluation by Design Engineering.
- Safety Injection valve NI-122B is changed from an active category B valve to a passive category B valve. The valve will have its safety signal to close removed by a modification. This valve was deleted from T.S. Table 3.6-2 since it is administratively maintained in its "safe" position. The valve is presently a passive category B which has no safety function.
- As a result of the modification to delete Upper Head Injection (UHI) numerous Safety Injection valves and components were affected and deleted from the program. Piping in the NI system was removed or capped off and valves were removed, made into passive manual valves, or the function and nomenclature for the valve was changed. Valves removed from service were: NI-358A, NI-248, NI-249, NI-266A, NI-336, NI-253, NI-252, NI-251, NI-250 and the UHI Rupture Disc. Valves made into passive manual valves were: NI-244B, NI-242B, NI-245A, NI-243A, NI-258A and NI-255B. Valves NI-264B and NI-267A were changed to WL-1301B and WL-1302A, respectively.
- Safety Injection valves NI-430A and NI-431B BASIS FOR RELIEF was changed to reflect the removal of an interlock which kept the valve closed when Reactor Coolant system temperature was above 300 degrees-F. Design Engineering has recommended not testing these valves quarterly because if the valve fails open along with failed non-safety piping, a Cold Leg Accumulator would be made inoperable.
- The Safety Injection check valves which are tested per Technical Specification Surveillance Requirement 4.4.6.2.2 (listed in T.3. Table 3.4-1) were clarified that leak testing is done in accordance with Technical Specifications.
- On Unit 2 only, Refueling Water valve 2FW-67 was changed to 2FW-63. The valve numbers for Units 1 and 2 differ. 2FW-63 is the correct number for the valve on Unit 2.
- On Unit 2 only, Safety Injection valve 2NI-152B required valve stroke time was changed from 10 to 20 seconds. This was done per an emergency modification (NSM-MG-2-2041).

Attachment 3

OF MNS IST PROGRAM

DONE SUDITION TO TE	04/29/88	DUKE	SUBMIT	REVISION	TO	PLAN
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05/27/88 - M2 E0C4 RF0 07/26/88

06/01/88 NRC ISSUE RFI - IDENTIFY NEEDED INFORMATION

DUKE PROVIDE SUPPORT INFORMATION

DUKE/NRC MEETING IN CHARLOTTE TO

FINALIZE IST PROGRAM (4-5 DAYS)

09/01/88 DUKE SUBMIT REVISION TO PROGRAM
INCORPORATING COMMITMENTS OF 8/88 MTG

10/07/88 - M1 E0C5 RF0 12/16/88

12/01/88 NRC ISSUE SER APPROVING MNS IST PROGRAM