

NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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November 15, 1985

Docket No. 50-423
A05356

Mr. Hugh L. Thompson, Jr.
Director, Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

References:

- (1) T. M. Novak letter to J. F. Opeka, Final Draft Technical Specifications for Millstone Nuclear Power Station, Unit 3, November 8, 1985.
- (2) J. F. Opeka letter to B. J. Youngblood, Final Draft Technical Specifications, No. B11870, dated November 12, 1985.
- (3) J. F. Opeka letter to B. J. Youngblood, Final Draft Technical Specifications, No. B11871, dated November 12, 1985.
- (4) J. F. Opeka letter to B. J. Youngblood, NRC Staff Safety Evaluation Report, No. B11868, dated November 8, 1985.
- (5) J. F. Opeka letter to B. J. Youngblood, Final Safety Analysis Report Changes, No. B11874, dated November 15, 1985.

Dear Mr. Thompson:

Millstone Nuclear Power Station, Unit No. 3 Certification of Technical Specifications

Reference (1) promulgated the Final Draft Technical Specifications for Millstone Unit. No. (3). Reference 1 also requested that we review those technical specifications and provide any final comments.

We have completed our review and have provided comments as follows. In References (2) and (3) we identified several necessary Technical Specification changes to reflect plant design and analysis. Enclosure 1 (attached) to this letter contains remaining corrections to the Final Draft Technical Specifications. In Reference (4) we identified several necessary changes to the NRC Staff Safety Evaluation Report (SER) which would correct SER inconsistencies with the Technical Specifications. In Reference (5) we separately identified several necessary changes to the Final Safety Analysis Report (FSAR) which would correct FSAR inconsistencies with Technical Specifications.

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As noted in Reference (1), there have been numerous discussions and correspondence between representatives of Northeast Nuclear Energy Company (NNECO) and NRC Staff on the proposed wording and substance of the Technical Specifications. Other than the Technical Specification changes identified in References (2) and (3), and Enclosure 1, many of the revisions we have previously requested are properly characterized as enhancements to improve operational flexibility. It is our intent to continue to work with NRC Staff to reach mutual agreement in these other areas in the future. Thus, although we expect that the Technical Specifications may change over the life of the unit's operation, we believe that the final draft Technical Specifications, promulgated by Reference (1), with the inclusion of the recommended changes in References (2) and (3) and Enclosure 1, are adequate and appropriate for use in supporting full power operation of Millstone Unit No. 3 during its initial operations.

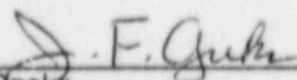
NNECO's certification of the Final Draft Technical Specifications is based on its review of the Final Safety Analysis Report through Amendment 16, the NRC Staff's Safety Evaluation Report through Draft Amendment 3 and the plant's as-built condition. In addition to review by NNECO and Northeast Utilities Service Company personnel, independent reviews of the Technical Specifications were conducted by representatives of Westinghouse Electric Corporation (the Nuclear Steam Supply System vendor) and Stone & Webster Engineering Corporation (the Architect/Engineer for Millstone Unit No. 3). Additional reviews were made by the Plant Operations Review Committee, the Nuclear Review Board and an independent consultant familiar with Westinghouse Standard Technical Specifications.

Based upon the foregoing, I certify that, to the best of my knowledge, the final draft Technical Specifications as promulgated by Reference 1, with the inclusion of changes identified in References (1) through (5) and Enclosure (1), reflect in all material respects the as-built plant configuration, the Final Safety Analysis Report through Amendment 16, the NRC Staff's Safety Evaluation Report, through Draft Amendment 3, and other docketed correspondence with the NRC Staff.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY
et. al.

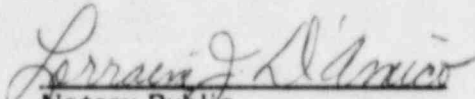
BY NORTHEAST NUCLEAR ENERGY COMPANY
Their Agent



J. F. Opeka
Senior Vice President

STATE OF CONNECTICUT)
) ss. Berlin
COUNTY OF HARTFORD)

Then personally appeared before me J. F. Opeka, who being duly sworn, did state that he is Senior Vice President of Northeast Nuclear Energy Company, an Applicant herein, that he is authorized to execute and file the foregoing information in the name and on behalf of the Applicants herein and that the statements contained in said information are true and correct to the best of his knowledge and belief.


Notary Public

My Commission Expires March 31, 1988

ENCLOSURE 1

FIRE PROTECTION

The fire detection and suppression system technical specifications are in conformance with the FSAR and SER as noted. However, additional fire detection instruments and fire hose stations are being installed as a result of findings from the Appendix R audit. The additional hardware affects Table 3.3-11, Fire Detection Instruments, and Table 3.7-4, Fire Hose Stations. As construction and preoperational testing is completed for these items, they will be added to the appropriate table without prior License Amendment. A table revision will then be included in the next License Amendment request.

CONTAINMENT PRESSURE

As a result of reanalysis necessary to provide additional information related to SER Confirmatory Item #27, a lower peak containment pressure was identified. Thus, the FSAR value of P_a (36.09 PSIG) is lower than the technical specification value of P_a (39.4 PSIG). The lower value of P_a will be included in the next License Amendment request.

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PLANT SYSTEMS

BASES

SAFETY VALVES (Continued)

- 109 = Power Range Neutron Flux-High Trip Setpoint for four loop operation,
- 80 = Maximum percent of RATED THERMAL POWER permissible by P-8 Setpoint for three loop operation,
- X = Total relieving capacity of all safety valves per steam line in lbs/hour, and
- Y = Maximum relieving capacity of any one safety valve in lbs/hour

3/4.7.1.2 AUXILIARY FEEDWATER SYSTEM

INSERT A

The OPERABILITY of the Auxiliary Feedwater System ensures that the Reactor Coolant System can be cooled down to less than 350°F from normal operating conditions in the event of a total loss-of-offsite power.

The auxiliary feedwater system is designed to supply a minimum of 470 gpm total flow to at least two steam generators. This capacity is sufficient to ensure that adequate feedwater flow is available to remove decay heat and reduce the Reactor Coolant System temperature to less than 350°F when the Residual Heat Removal System may be placed into operation.

3/4.7.1.3 DEMINERALIZED WATER STORAGE TANK

The OPERABILITY of the demineralized water storage tank with the minimum water volume ensures that sufficient water is available to maintain the RCS at HOT STANDBY conditions for 10 hours with steam discharge to the atmosphere concurrent with total loss-of-offsite power, and with an additional 6-hour cooldown period to reduce reactor coolant temperature to 350°F. The contained water volume limit includes an allowance for water not usable because of tank discharge line location or other physical characteristics.

3/4.7.1.4 SPECIFIC ACTIVITY

The limitations on Secondary Coolant System specific activity ensure that the resultant offsite radiation dose will be limited to a small fraction of 10 CFR Part 100 dose guideline values in the event of a steam line rupture. This dose also includes the effects of a coincident 1 gpm primary-to-secondary tube leak in the steam generator of the affected steam line. These values are consistent with the assumptions used in the safety analyses.

INSERT A

Auxiliary Feedwater System

The OPERABILITY of the auxiliary feedwater system ensures that the Reactor Coolant System can be cooled down to less than 350°F from normal operating or accident conditions coincident with a total loss of off-site power.

The auxiliary feedwater system is capable of delivering a total feedwater flow of 480 gpm at a pressure of 1236 psia to the entrance of at least three steam generators while allowing for (1) any spillage through the design worst-case break of the Normal feedwater line, (2) the design worst-case single failure; and (3) recirculation flow. This capacity is sufficient to ensure that adequate feedwater flow is available to remove decay heat and reduce the Reactor Coolant System temperature to less than 350°F at which point the Residual Heat Removal System may be placed into operation.

TABLE 3.6-2
Containment Isolation Valves

TABLE 3.6-2
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>1. Phase A Isolation</u>		
3SSR-CTV26	Reactor Coolant Hot Leg Sample (Inside)	<60
3SSR-CTV27	Reactor Coolant Hot Leg Sample (Outside)	<60
3SSR-CTV22	PZR Liquid Sample (Inside)	<60
3SSR-CTV23	PZR Liquid Sample (Outside)	<60
3SSR-CTV20	PZR Vapor Space Sample (Inside)	<60
3SSR-CTV21	PZR Vapor Space Sample (Outside)	<60
3SSR-CV8026	PRT Gas Sample (Inside)	<60
3SSR-CV8025	PRT Gas Sample (Outside)	<60
3SSR-CTV29	Reactor Coolant Cold Leg Sample (Inside)	<60
3SSR-CTV30	Reactor Coolant Cold Leg Sample (Outside)	<60
3SSR-CTV32	S.I. Accumulator Sample (Inside)	<60
3SSR-CTV33	S.I. Accumulator Sample (Outside)	<60
3SIL-CV8968	Nitrogen to S.I. Accumulators (Inside)	<60
3SIL-CV8880	Nitrogen to S.I. Accumulators (Outside)	<60
3PGS-CV8046	Primary Grade Water to PRT (Inside)	<60

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>1. Phase A Isolation (Continued)</u>		
3PGS-CV8028	Primary Grade Water to PRT (Outside)	<60
3CHS-MV8112	Seal Water Return From RCPs (Inside)	<60
3CHS-MV8100	Seal Water Return From RCPs (Outside)	<60
3CHS-CV8160	Reactor Coolant Letdown (Inside)	<60
3CHS-CV8152	Reactor Coolant Letdown (Outside)	<60
3DGS-CTV24	PRT and CTMT Drains Transfer Pumps Discharge (Inside)	<60
3DGS-CTV25	PRT and CTMT Drains Transfer Pumps Discharge (Outside)	<60
3DAS-CTV24	CTMT Drains Sump Pump Discharge (Inside)	<60
3DAS-CTV25	CTMT Drains Sump Pump Discharge (Outside)	<60
3VRS-CTV20	PRT and CTMT Drains Transfer Tank Vent (Inside)	<60
3VRS-CTV21	PRT and CTMT Drains Transfer Tank Vent (Outside)	<60
3CVS-CTV20A	CTMT Vacuum Pump Suction (Outside)	<60
3CVS-CTV20B	CTMT Vacuum Pump Suction (Outside)	<60
3CVS-CTV21A	CTMT Vacuum Pump Suction (Outside)	<60

TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>1. Phase A Isolation (Continued)</u>		
3CVS-CTV21B	CTMT Vacuum Pump Suction (Outside)	<60
3CDS-CTV91A	Chill Water Supply (Inside)	<60
3CDS-CTV91B	Chill Water Supply (Inside)	<60
3CDS-CTV38A	Chill Water Supply (Outside)	<60
3CDS-CTV38B	Chill Water Supply (Outside)	<60
3CDS-CTV40A	Chill Water Return (Inside)	<60
3CDS-CTV40B	Chill Water Return (Inside)	<60
3CDS-CTV39A	Chill Water Return (Outside)	<60
3CDS-CTV39B	Chill Water Return (Outside)	<60
3IAS-MOV72	Instrument Air (Inside)	<60
3IAS-PV15	Instrument Air (Outside)	<60
3FPW-CTV49	Fire Protection (Inside)	<60
3FPW-CTV48	Fire Protection (Outside)	<60
3CMS-MOV24	CTMT Atmosphere Monitor Discharge (Inside)	<60
3CMS-CTV23	CTMT Atmosphere Monitor Discharge (Outside)	<60

TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>1. Phase A Isolation (Continued)</u>		
3CMS-CTV20	CTMT Atmosphere Monitor Suction (Outside)	<60
3CMS-CTV21	CTMT Atmosphere Monitor Suction (Outside)	<60
3SIH-CV8871	S.I. Test and Accumulator Fill (Inside)	<60
3SIH-CV8964	S.I. Test and Accumulator Fill (Outside)	<60
3SIH-CV8888	S.I. Test and Accumulator Fill (Outside)	<60
3GSN-CTV105	Nitrogen Supply Header (Inside)	<60
3GSN-CV8033	Nitrogen Supply Header (Outside)	<60
3SSP-CTV7	Post-Accident Sample (Inside)	<60
3SSP-CTV8	Post-Accident Sample Return (Inside)	<60
3SIH-CV8843	High-Pressure Boron Injection (Inside)	<60
3SIL-CV8890A	RHR Cold Leg Injection to Test (Inside)	<60
3SIL-CV8890B	RHR Cold Leg Injection to Test (Inside)	<60

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>1. Phase A Isolation (Continued)</u>		
3SIL-CV8825	RHR Hot Leg Injection (Inside)	<60
3SIH-CV8881	S.I. Pump Hot Leg Injection (Inside)	<60
3SIH-CV8824	S.I. Pump Hot Leg Injection (Inside)	<60
3SIH-CV8823	S.I. Pump Cold Leg Injection	<60
<u>2. Phase B Isolation</u>		
3CCP-MOV45A	RPCCW CTMT Supply (Outside)	<60
3CCP-MOV45B	RPCCW CTMT Supply (Outside)	<60
3CCP-MOV48A	RPCCW CTMT Return (Inside)	<60
3CCP-MOV48B	RPCCW CTMT Return (Inside)	<60
3CCP-MOV49A	RPCCW CTMT Return (Outside)	<60
3CCP-MOV49B	RPCCW CTMT Return (Outside)	<60

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves</u>		
3CHS-MV8105	Reactor Coolant Charging	<10
3CVS-MV8125	CTMT Vacuum Pump Discharge (Inside)	NSR
3CHS-MV8109A	RCP Seal Injection Isolation (Outside)	<60 NSR
3CHS-MV8109B	RCP Seal Injection Isolation (Outside)	<60 NSR
3CHS-MV8109C	RCP Seal Injection Isolation (Outside)	<60 NSR
3CHS-MV8109D	RCP Seal Injection Isolation (Outside)	<60 NSR
3FWA-MOV35A	Motor-Driven Aux. Feedwater Header Isolation (Outside)	<60 NSR
3FWA-MOV35B	Motor-Driven Aux. Feedwater Header Isolation (Outside)	<60 NSR
3FWA-MOV35C	Motor-Driven Aux. Feedwater Header Isolation (Outside)	<60 NSR
3FWA-MOV35D	Motor-Driven Aux. Feedwater Header Isolation (Outside)	<60 NSR
3LMS-MOV40A	CTMT Pressure Instrument Isolation (Outside)	NSR
3LMS-MOV40B	CTMT Pressure Instrument Isolation (Outside)	NSR
3LMS-MOV40C	CTMT Pressure Instrument Isolation (Outside)	NSR

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves (Continued)</u>		
3LMS-MOV40D	CTKT Pressure Instrument Isolation (Outside)	NSR
3MSS-MOV74A	Main Steam Pressure Relieving Bypass (Outside)	60 NSR
3MSS-MOV74B	Main Steam Pressure Relieving Bypass (Outside)	60 NSR
3MSS-MOV74C	Main Steam Pressure Relieving Bypass (Outside)	60 NSR
3MSS-MOV74D	Main Steam Pressure Relieving Bypass (Outside)	60 NSR
3RHS-MV8701A	Hot Leg to RHS Suction Isolation (Inside)	NSR
3RHS-MV8701B	Hot Leg to RHS Suction Isolation (Outside)	NSR
3RHS-MV8702A	Hot Leg to RHS Suction Isolation (Outside)	NSR
3RHS-MV8702B	Hot Leg to RHS Suction Isolation (Inside)	NSR

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves (Continued)</u>		
3RSS-MOV20A	CTMT Recirculation Pump Discharge (Outside)	30 NSR
3RSS-MOV20B	CTMT Recirculation Pump Discharge (Outside)	30 NSR
3RSS-MOV20C	CTMT Recirculation Pump Discharge (Outside)	30 NSR
3RSS-MOV20D	CTMT Recirculation Pump Discharge (Outside)	30 NSR
3RSS-MOV23A	CTMT Recirculation Pump Suction (Outside)	60 NSR
3RSS-MOV23B	CTMT Recirculation Pump Suction (Outside)	60 NSR
3RSS-MOV23C	CTMT Recirculation Pump Suction (Outside)	60 NSR
3RSS-MOV23D	CTMT Recirculation Pump Suction (Outside)	60 NSR
3QSS-MOV34A	Quench Spray Pump Discharge (Outside)	NSR
3QSS-MOV34B	Quench Spray Pump Discharge (Outside)	NSR
3SIH-MV8801A	Charging S.I. Header Isolation (Outside)	NSR
3SIH-MV8801B	Charging S.I. Header Isolation (Outside)	NSR
3SIL-MV8809A	RHS Cold Leg Injection Header Isolation (Outside)	60 NSR

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves (Continued)</u>		
3SIL-MV8809B	RHS Cold Leg Injection Header Isolation (Outside)	<60 NSR
3SIL-MV8840	RHS Hot Leg Injection Header Isolation (Outside)	<60 NSR
3SIH-MV8802A	S.I. Hot Leg Injection Header Isolation (Outside)	<60 NSR
3SIH-MV8802B	S.I. Hot Leg Injection Header Isolation (Outside)	<60 NSR
3SIH-MV8835	S.I. Cold Leg Injection Header Isolation (Outside)	<60 NSR
3MSS-CTV27A	Main Steam Isolation Trip Valves (Outside)	<5
3MSS-CTV27B	Main Steam Isolation Trip Valves (Outside)	<5
3MSS-CTV27C	Main Steam Isolation Trip Valves (Outside)	<5
3MSS-CTV27D	Main Steam Isolation Trip Valves (Outside)	<5

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves (Continued)</u>		
3MSS-HV28A	Main Steam Isolation Bypass (Outside)	<10
3MSS-HV28B	Main Steam Isolation Bypass (Outside)	<10
3MSS-HV28C	Main Steam Isolation Bypass (Outside)	<10
3MSS-HV28D	Main Steam Isolation Bypass (Outside)	<10
3DTM-AOV63A	AFW Turbine Steam Line Drains (Outside)	<10
3DTM-AOV63B	AFW Turbine Steam Line Drains (Outside)	<10
3DTM-AOV63D	AFW Turbine Steam Line Drains (Outside)	<10
3DTM-AOV64A	AFW Turbine Steam Line Drains (Outside)	<10
3DTM-AOV64B	AFW Turbine Steam Line Drains (Outside)	<10
3DTM-AOV64D	AFW Turbine Steam Line Drains (Outside)	<10
3DTM-AOV29A	Main Steam Line Drains Upstream MSITV (Outside)	<10
3DTM-AOV29B	Main Steam Line Drains Upstream MSITV (Outside)	<10
3DTM-AOV29C	Main Steam Line Drains Upstream MSITV (Outside)	<10
3DTM-AOV29D	Main Steam Line Drains Upstream MSITV (Outside)	<10

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves (Continued)</u>		
3DTM-AOV61A	Main Steam Line Drains Upstream MSITV (Outside)	<10
3DTM-AOV61B	Main Steam Line Drains Upstream MSITV (Outside)	<10
3DTM-AOV61C	Main Steam Line Drains Upstream MSITV (Outside)	<10
3DTM-AOV61D	Main Steam Line Drains Upstream MSITV (Outside)	<10
3MSS-PV20A	Main Steam Pressure Relieving Control Valve (Outside)	<20 NSR
3MSS-PV20B	Main Steam Pressure Relieving Control Valve (Outside)	<20 NSR
3MSS-PV20C	Main Steam Pressure Relieving Control Valve (Outside)	<20 NSR
3MSS-PV20D	Main Steam Pressure Relieving Control Valve (Outside)	<20 NSR
3MSS-AOV31A	AFW Turbine Steam Line Isolation (Outside)	NSR
3MSS-AOV31B	AFW Turbine Steam Line Isolation (Outside)	NSR

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves (Continued)</u>		
3MSS-AOV31D	AFW Turbine Steam Line Isolation (Outside)	NSR
3FWS-CTV41A	Feedwater Isolation Trip Valve (Outside)	<5
3FWS-CTV41B	Feedwater Isolation Trip Valve (Outside)	<5
3FWS-CTV41C	Feedwater Isolation Trip Valve (Outside)	<5
3FWS-CTV41D	Feedwater Isolation Trip Valve (Outside)	<5
3BDG-CTV22A	Blowdown Isolation Trip Valve (Outside)	<10
3BDG-CTV22B	Blowdown Isolation Trip Valve (Outside)	<10
3BDG-CTV22C	Blowdown Isolation Trip Valve (Outside)	<10
3BDG-CTV22D	Blowdown Isolation Trip Valve (Outside)	<10
3SSR-CTV19A	Blowdown Sample Isolation Trip Valve (Outside)	<10
3SSR-CTV19B	Blowdown Sample Isolation Trip Valve (Outside)	<10
3SSR-CTV19C	Blowdown Sample Isolation Trip Valve (Outside)	<10
3SSR-CTV19D	Blowdown Sample Isolation Trip Valve (Outside)	<10

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves (Continued)</u>		
3FWA-HV36A	Turbine-Driven Aux Feedwater Header Isolation (Outside)	<60 NSR
3FWA-HV36B	Turbine-Driven Aux Feedwater Header Isolation (Outside)	<60 NSR
3FWA-HV36C	Turbine-Driven Aux Feedwater Header Isolation (Outside)	<60 NSR
3FWA-HV36D	Turbine-Driven Aux Feedwater Header Isolation (Outside)	<60 NSR
3CVS-AOV23	CTMT Vacuum Ejector Suction Isolation (Inside)	<60 NSR
3HVU-CTV33A	CTMT Purge Isolation Trip Valve (Inside)	<3
3HVU-CTV32A	CTMT Purge Isolation Trip Valve (Outside)	<3
3HVU-CTV33B	CTMT Purge Isolation Trip Valve (Inside)	<3
3HVU-CTV32B	CTMT Purge Isolation Trip Valve (Outside)	<3
3SGF-AOV24A	Steam Generator Chem. Feed Isolation (Outside)	<60

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>3. Remote-Operated Valves (Continued)</u>		
3SGF-A0V24B	Steam Generator Chem. Feed Isolation (Outside)	<60
3SGF-A0V24C	Steam Generator Chem. Feed Isolation (Outside)	<60
3SGF-A0V24D	Steam Generator Chem. Feed Isolation (Outside)	<60
<u>4. Manual Valves</u>		
3FPW-V661 *	Fire Protection (Inside)	NA
3FPW-V666 *	Fire Protection (Outside)	NA
3SSP-V13 *	Post-Accident Sample (Outside)	NA
3SSP-V14 *	Post-Accident Sample Return (Outside)	NA
3HCS-V2 *	DBA Hydrogen Recombiner Suction (Outside)	NA
3HCS-V3 *	DBA Hydrogen Recombiner Suction (Outside)	NA
3HCS-V9 *	DBA Hydrogen Recombiner Suction (Outside)	NA
3HCS-V10 *	DBA Hydrogen Recombiner Suction (Outside)	NA

*May be opened on an intermittent basis under administrative control.

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>4. Manual Valves (Continued)</u>		
3HCS-V6 *	DBA Hydrogen Recombiner Discharge (Outside)	NA
3HCS-V13 *	DBA Hydrogen Recombiner Discharge (Outside)	NA
3SAS-V875 *	Service Air Line (Inside)	NA
3SAS-V50 *	Service Air Line (Outside)	NA
3SFC-V991	Refueling Cavity Purification Inlet (Inside)	NA
3SFC-V992	Refueling Cavity Purification Inlet (Outside)	NA
3SFC-V990	Refueling Cavity Purification Outlet (Inside)	NA
3SFC-V989	Refueling Cavity Purification Outlet (Outside)	NA
3CHS-V371 *	Reactor Coolant Loop Fill (Outside)	NA
3HVU-V5	Containment Purge Air (Outside)	NA
3CCP-V886 *	Demineralized Water CTMT Supply (Inside)	NA
3CCP-V887 *	Demineralized Water CTMT Supply (Outside)	NA
3CVS-V13 *	Containment Vacuum Pump Discharge (Outside)	NA
3CVS-V20	Containment Vacuum Ejector Suction (Outside)	NA

TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>5. Check Valves</u>		
3CHS-V58	Charging to RCS (Inside)	NA
3CHS-V372	Reactor Coolant Loop Fill (Inside)	NA
3CHS-V394	Reactor Coolant Pump Seal Water Supply (Inside)	NA
3CHS-V434	Reactor Coolant Pump Seal Water Supply (Inside)	NA
3CHS-V467	Reactor Coolant Pump Seal Water Supply (Inside)	NA
3CHS-V501	Reactor Coolant Pump Seal Water Supply (Inside)	NA
3CCP-V18	Component Cooling Water CTMT Supply (Inside)	NA
3CCP-V60	Component Cooling Water CTMT Supply (Inside)	NA
3HCS-V7	DBA Hydrogen Recombiner Discharge (Inside)	NA
3HCS-V14	DBA Hydrogen Recombiner Discharge (Inside)	NA
3QSS-V4	Quench Spray Pump Discharge (Inside)	NA

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>5. Check Valves (Continued)</u>		
3QSS-V8	Quench Spray Pump Discharge (Inside)	NA
3RSS-V3	CTMT Recirculation Pump Discharge (Inside)	NA
3RSS-V6	CTMT Recirculation Pump Discharge (Inside)	NA
3RSS-V9	CTMT Recirculation Pump Discharge (Inside)	NA
3RSS-V12	CTMT Recirculation Pump Discharge (Inside)	NA
3SGF-V29	Steam Generator Chemical Feed Supply (Inside)	NA
3SGF-V31	Steam Generator Chemical Feed Supply (Inside)	NA
3SGF-V33	Steam Generator Chemical Feed Supply (Inside)	NA
3SGF-V35	Steam Generator Chemical Feed Supply (Inside)	NA
3SIH-V5	High Pressure Boron Injection to Cold Legs (Inside)	NA
3SIH-V22	Safety Injection Cold Leg Discharge (Inside)	NA

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
<u>5. Check Valves (Continued)</u>		
3SIH-V24	Safety Injection Cold Leg Discharge (Inside)	NA
3SIH-V26	Safety Injection Cold Leg Discharge (Inside)	NA
3SIH-V28	Safety Injection Cold Leg Discharge (Inside)	NA
3SIH-V110	Safety Injection Hot Leg Discharge (Inside)	NA
3SIH-V112	Safety Injection Hot Leg Discharge (Inside)	NA
3SIL-V6	RHR Discharge to Cold Legs (Inside)	NA
3SIL-V7	RHR Discharge to Cold Legs (Inside)	NA
3SIL-V12	RHR Discharge to Cold Legs (Inside)	NA
3SIL-V13	RHR Discharge to Cold Legs (Inside)	NA
3SIL-V26	RHR Discharge to Hot Legs (Inside)	NA
3SIL-V28	RHR Discharge to Hot Legs (Inside)	NA
3SIL-V27	Safety Injection Hot Leg Discharge (Inside)	NA
3SIL-V29	Safety Injection Hot Leg Discharge (Inside)	NA

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TABLE 3.6-2 (Continued)
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>MAXIMUM ISOLATION TIME (Seconds)</u>
6. Relief Valves		
3CHS-RV8113	RCP Seal Water Return (Inside)	NA
3CHS-RV8117	Reactor Coolant Letdown (Inside)	NA
3MSS-RV22A, B, C, D	Main Steam Line Safety Valves (Outside)	NA
3MSS-RV23A, B, C, D	Main Steam Line Safety Valves (Outside)	NA
3MSS-RV24A, B, C, D	Main Steam Line Safety Valves (Outside)	NA
3MSS-RV25A, B, C, D	Main Steam Line Safety Valves (Outside)	NA
3MSS-RV26A, B, C, D	Main Steam Line Safety Valves (Outside)	NA
3RHS-RV8708A	RHR Pump Hot Leg Suction (Inside)	NA
3RHS-RV8708B	RHR Pump Hot Leg Suction (Inside)	NA

NOTES:

- The maximum closure times shown are based on limits set by off-site dose calculations.
- NSR - ^{Stroke time} ~~No~~ ~~Specifically~~ Required. This applies to valves which open, go open or are opened during an accident, or valves which are normally shut and stay shut during an accident.
- NA - closure time not applicable. This applies to manual valves, check valves and relief valves.

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