

OYSTER CREEK

NUCLEAR GENERATING STATION

PUMP AND VALVE

INSERVICE TESTING PROGRAM

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PUMP AND VALVE TEST PROGRAM
FOR THE OYSTER CREEK NUCLEAR GENERATING STATION

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PUMP AND VALVE TEST PROGRAM
FOR THE OYSTER CREEK NUCLEAR GENERATING STATION

1.0 INTRODUCTION

The pump and valve test programs for the Oyster Creek Nuclear Generating Station are presented as Appendices A and B. Both programs were developed with consideration given to the boundary classification guidelines contained in 10 CFR 50.2(v) for Quality Group A and Regulatory Guide 1.26 for Quality Groups B and C. (Quality Group A is the same as ASME Class 1, Group B is Class 2, and Group C is Class 3). This program has been reviewed with respect to the requirements of NRC Generic Letter 89-04 "Guidance on Developing Acceptable Inservice Testing Programs".

2.0 PUMP TEST PROGRAM

The pump test program shall be conducted in accordance with Subsection IWP of Section XI of the 1986 Edition of the ASME Boiler and Pressure Vessel Code except for relief requested under the provisions of 10 CFR 50.55a(g) (5) (iii). Table A, Appendix A, includes a list of pumps which require operational testing under the guidelines of Section XI, Subsection IWP-1100. Specific requests for relief are noted in Appendix A. Test parameters which will be measured for each pump are indicated. Installed plant instrumentation will be used for required pump test measurements, except for vibration.

3.0 VALVE TEST PROGRAM

The valve test program shall be conducted in accordance with Subsection IWV of Section XI of the 1986 Edition of the ASME Boiler and Pressure Vessel Code except for relief requested under the provisions of 10 CFR 50.55a(g) (5) (iii). The valve test program is included as Appendix B. Specific requests for relief are noted in Table 1 of Appendix B.

4.0 GENERIC CODE RELIEFS

4.1 Increased Test Requirements

Relief is requested from the increased test frequency requirements of IWV 3417(a) of Section XI. As permitted by position 5 of GL 89-04, limiting value of full stroke time has been based on a valve average stroke time when the valve was known to be operating properly. The limiting value was then set based on a reasonable deviation from this reference time or the requirements of the Tech. Spec. or Safety Analysis, whichever is more restrictive. The increased test frequency requirements in the present code conflict with the method of selecting the limiting value of stroke. If a valve exceeds the limiting value it is declared inoperable.

4.2 System Out of Service

Paragraph IWV-3416 of Section XI requires that for any systems out of service, all valves in that system shall be tested before the system is returned to service.

The limiting conditions for Operation presently contained in the Oyster Creek Technical Specifications along with the Oyster Creek Plant Procedures adequately cover the situation of out of service valves and plant operations. The requirements contained in the Oyster Creek Technical Specifications and Plant Procedures will govern plant operation regarding out of service valves.

4.3 Corrective Action

Paragraph IWV-3417 of Section XI requires that when corrective action is required as a result of tests made during cold shutdown, the condition shall be corrected before start-up.

The limiting conditions for Operation presently contained in the Oyster Creek Technical Specifications along with the Oyster Creek Plant Procedures adequately cover all such situations. The requirements contained in the Oyster Creek Technical Specifications and Plant Procedures will govern plant operation in such situations.

4.4 Containment Isolation Valve Leak Rate

Relief is requested from the requirements of IWV 3427(b) regarding the doubling of test frequency for valves 6 inches and larger whose leakage rate exceeds the rate determined by the previous tests by an amount that reduces the margin between measured leakage rate and maximum permissible rate by 50% or greater. Per NRC Generic Letter 89-04 position 10, the usefulness of this requirement does not justify the burden of complying with this requirement. Corrective action for all valves will be per IWV 3427(a).

4.5 Rapid Acting Valves

Valves with stroke times 2 seconds or less may be classified as rapid acting valves, as defined in NRC Generic Letter 89-04 Position 6. The maximum limiting value of stroke time would then be 2 seconds. Test values may not exceed 2 seconds as opposed to the acceptance criteria of IWV 3410 (c) (3).

4.6 Safe Shutdown Testing Scope

The scope of ASME Section XI for valves (IWV 1100) requires the testing of valves that are used to shut down the reactor to the cold shutdown condition. The licensing basis for Oyster Creek is to bring the plant to Hot Standby. The IST program, therefore, will not include components specifically used to bring the reactor from hot standby to cold shutdown since this exceeds the plant licensing basis.

4.7 Appendix J Containment Isolation Valves

Many of the containment isolation valves are required to be seat leak tested in accordance with the 10CFR50, Appendix J, Type C program. Leak testing as required by IWV-3420 at low pressure is redundant to the Seat Leak Test required by 10CFR50, Appendix J, Type C for valves performing only a containment isolation function. Performing two separate tests would provide no additional useful data.

The Seat Leak Test required by 10CFR50, Appendix J, Type C will be performed, in lieu of a Low Pressure Section XI IWV-3420 Seat Leak Test. A High Pressure Seat Leak Test required for pressure

isolation valves will still be performed in accordance with IWV-3420.

5.0 COLD SHUTDOWN TESTING

Oyster Creek will commence testing as soon as the cold shutdown condition is achieved, but no later than 48 hours after cold shutdown, and will continue until all tests are complete or the plant is ready to return to power. Any testing not completed at one cold shutdown will be performed during any subsequent cold shutdowns that may occur before refueling to meet the Code specified testing frequency. For planned cold shutdowns, where Oyster Creek will complete all the valves identified in the IST program for testing in the cold shutdown mode, exception to the above 48 hour start time may be taken (refueling, etc.). In the case of frequent cold shutdowns, valve testing will not be performed more often than once every three months for Category A, B, and C valves.

6.0 EMERGENCY DIESEL SYSTEMS

The inservice operability testing of pumps and valves associated with the Emergency Diesels are excluded from the normal test programs. These components are an integral part of the Emergency Diesel System and are functionally tested with each Emergency Diesel test. The diesels are functionally tested twice a month. Thus, the functional operability testing of the pumps and valves is performed at a frequency greater than that required by Section XI for either pumps or valves. Additionally, the failure of a pump or valve to perform its intended function will be identified by the failure of the associated Emergency Diesel to meet its functional requirements.

APPENDIX A

OYSTER CREEK PUMP TEST PROGRAM

SUMMARY OF INFORMATION PROVIDED

The pump test table (Table 1) provides the following information:

- * Individual pump identifier
- * Speed
- * Inlet Pressure
- * Differential Pressure
- * Flow Rate
- * Vibration Amplitude
- * Bearing Temperature
- * An Indication whether Proper Lubricant Level is Observed
- * Test Interval
- * Relief Request (as applicable)

TABLE 1 OYSTER CREEK NUCLEAR POWER STATION
INSERVICE INSPECTION PUMP TEST PROGRAM

SYSTEM/PUMPS	SPEED ⁽¹⁾	INLET PRESSURE	DIFF. PRESSURE	FLOW RATE	VIBRATION	BEARING TEMP.	LUB. INDICATION	RELIEF REQUEST
LIQUID POISON: NP-02A NP-02B	NR	Q	Q	Q	Q	NR	YES	1, 3
CORE SPRAY: NZ01-A NZ01-B NZ01-C NZ01-D NZ03-A NZ03-B NZ03-C NZ03-D	NR	Q	Q	Q	Q	NR	YES	1, 3
CONTAINMENT SPRAY: 51-A 51-B 51-C 51-D	NR	Q	Q	Q	Q	NR	YES	1, 3
SERVICE WATER: 1-1 1-2	NR	Q	Q	Q	Q	NR	YES	1, 3
EMERGENCY SERVICE WATER: 1-1 1-2 1-3 1-4	NR	Q	Q	Q	Q	NR	NO ⁽²⁾	1, 3
CONDENSATE TRANSFER: 1-1 1-2	NR	Q	Q	Q	Q	NR	YES	1, 3

TABLE 1 OYSTER CREEK NUCLEAR POWER STATION
INSERVICE INSPECTION PUMP TEST PROGRAM (CONTINUED)

SYSTEM/PUMPS	SPEED ⁽¹⁾	INLET PRESSURE	DIFF. PRESSURE	FLOW RATE	VIBRATION	BEARING TEMP.	LUB. INDICATION	RELIEF REQUEST
REACTOR BUILDING CLOSED COOLING: 1-1 1-2	NR	Q	Q	Q	Q	NR	YES	1, 3
FUEL POOL COOLING: NHD1-A NHD1-B	NR	Q	Q	Q	Q	NR	YES	1, 3

LEGEND

M - MONTHLY
Q - QUARTERLY
NR - NOT REQUIRED
() - NOTE NUMBER

NOTE 1

Synchronous and induction motors are not required to have a speed check, per TUP-4400.

NOTE 2

Lubricant level or pressure is observed for all pumps listed, as required by Section XI (with the exception of the submerged water pumps, which have water lubricated bearings).

RELIEF REQUEST 1

SYSTEM:	All
PUMPS:	All
CATEGORY:	Varied
FUNCTION:	Varied
TEST REQUIREMENT:	Annual bearing temperature measurement for all pump bearings in accordance with IWP-3300.
BASIS FOR RELIEF:	Vibration measurements taken on a quarterly basis are trended. Significant increases in these readings will necessitate further vibration measurement with the use of a real time spectrum analyzer to define the source of the increase. Use of the real time analyzer is a method to determine mechanical condition. Bearing temperature measurements therefore contribute a redundant measure of bearing condition and thus need not be performed.
ALTERNATE TESTING:	A yearly vibration frequency spectrum analysis will be performed on all pumps.

RELIEF REQUEST 2

Deleted

RELIEF REQUEST 3

SYSTEM:	All
PUMPS:	All
CATEGORY:	Varied
FUNCTION:	Varied
TEST REQUIREMENT:	At least one displacement vibration amplitude (peak to peak composite) shall be read during each inservice test.
BASIS FOR RELIEF:	Velocity gives a better overall measure of machinery condition in the frequencies of interest. Between 600 and 60,000 counts per minute, vibration velocity is independent of frequency yielding a simple measure of vibration severity. The alert and action ranges are chosen based on industry experience for these types of rotating equipment.
ALTERNATE TESTING:	Velocity is used instead of displacement.

RELIEF REQUEST 4

SYSTEM: Core Spray, Containment Spray, Emergency Service Water, Service Water, Condensate Transfer

PUMPS: Related to the above systems.

CATEGORY: Varied

FUNCTION: Suction pressure gages for above pumps and discharge pressure gages for Service Water pumps

TEST REQUIREMENT: IWP-4120 requires that the full scale range of each instrument be three times the reference value or less.

BASIS FOR RELIEF: The suction pressure for the above pumps is dependent upon a level condition which can be different under various circumstances. The installed pressure gages provide flexibility for three circumstances and have provided acceptable results for analyzing pump performance. Any inaccuracies as a result of the expanded range of these suction pressure gages is negligible when considering the magnitude of the overall pump differential pressure.

The Service Water pumps require more than one reference value because required system flowrates are dependent upon the heat loads to be dissipated. These heat loads are based upon operating mode and environmental/seasonal changes. Any significant change in system flowrate will cause undesirable operational transients in those systems cooled by the Reactor Building Closed Cooling Water System which is cooled by Service Water. The expanded range of the discharge pressure gages has provided the necessary flexibility to accommodate testing on a quarterly basis and still provide the level of accuracy acquired to analyze pump performance.

ALTERNATE TESTING: The installed Plant gages will be used for IST testing.

APPENDIX B
OYSTER CREEK INSERVICE TEST PROGRAM

SUMMARY OF INFORMATION PROVIDED

TABLE 1 PROVIDES THE FOLLOWING INFORMATION

- SYSTEM NAME
- SYSTEM NUMBER
- PAGE NUMBER AND TOTAL PAGES WITHIN TABLE 1
- VALVE TYPE
- VALVE SIZE IN INCHES
- ACTUATOR TYPE
- CATEGORY AS PER ASME SECTION XI IWV
 - CATEGORY A VALVES ARE SUBDIVIDED INTO THREE CLASSIFICATIONS:
 - A1 VALVES ARE CONTAINMENT ISOLATION ONLY
 - A2 VALVES ARE PRESSURE ISOLATION ONLY
 - A3 VALVES ARE FOR BOTH CONTAINMENT AND PRESSURE ISOLATION
- NORMAL POSITION
- POSITION TO PROVIDE NUCLEAR SAFETY FUNCTION
- ACTIVE OR PASSIVE
- RELIEF NUMBER (if required)
- REQUIRED TEST
- ALTERNATE TEST
- SAFETY FUNCTION

CODES AND SYMBOLS NOT EXPLAINED ELSEWHERE ARE LISTED IN THE FOLLOWING PAGES.

APPENDIX B
EXPLANATION OF CODES AND SYMBOLS USED
IN THE OYSTER CREEK VALVE PROGRAM (TABLE 1)

PURPOSE:

The tables included in this section identify the codes and symbols used in the valve test program presented in Table 1. These tables can be removed from the report to assist in reviewing and understanding the information provided in the valve program. The Valve Test Program included in this Report is grouped by system. The valves are listed on Table 1.

List of Tables

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TABLE B1
INDEX OF TABLE 1 SYSTEMS

<u>SYSTEM</u>	<u>SYSTEM NUMBER</u>	<u>VALVE TABLE PAGE</u>
MAIN STEAM	411	1
FEEDWATER	422	7
SERVICE WATER	531	8
EMERGENCY SERVICE WATER	532	9
REACTOR BUILDING CLOSED COOLING	541	12
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CLEANUP DEMINERALIZER	215	29
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APPENDIX B

TABLE B2

SYMBOLS USED TO DESIGNATE VALVE TYPE

VALVE TYPES	
SYMBOL	MEANING
AN	ANGLE VALVE
BF	BUTTERFLY
BL	BALL
CK	CHECK
DA	DIAPHRAGM
GA	GATE
GL	GLOBE
PG	PLUG
RD	RUPTURE DISK
RG	REGULATING
RL	RELIEF
SC	STOP CHECK
SK	SPRING CHECK

APPENDIX B

TABLE B3

SYMBOLS USED TO DESIGNATE VALVE ACTUATOR TYPE

VALVE ACTUATOR TYPES	
SYMBOL	MEANING
A	AIR OPERATOR
M	MANUAL OPERATOR
MC	MOTOR OPERATOR
SA	SELF ACTUATED
S	SOLENOID OPERATOR
H	HYDRAULIC OPERATOR
E	ELECTRICAL
XP	EXPLOSIVE OPERATOR

APPENDIX B

TABLE B4

SYMBOLS USED TO DESIGNATE VALVE POSITION

VALVE POSITION	
SYMBOLS	MEANING
O	OPEN
C	CLOSED
JO	LOCKED OPEN
LC	LOCKED CLOSED
TH	THROTTLED
O/C	VALVE POSITION DETERMINED BY OTHER SYSTEM PARAMETERS AS IN THE CASE OF ANY CHECK VALVE.

APPENDIX B
TABLE B5
SYMBOLS FOR VALVE TEST METHOD AND FREQUENCY

CATEGORY A OR B VALVES	
EF1	EXERCISE VALVE (FULL STROKE) FOR OPERABILITY EVERY 3 MONTHS IN ACCORDANCE WITH SECTION XI, ARTICLE IWV-3410.
EF2	EXERCISE VALVE (FULL STROKE) FOR OPERABILITY DURING COLD SHUTDOWN MODE ONLY.
EF3	EXERCISE VALVE (FULL STROKE) FOR OPERABILITY DURING REFUELING MODE ONLY.
EF4	VERIFY VALVE POSITION IS ACCURATELY INDICATED AT LEAST ONCE EVERY TWO YEARS FOR VALVES WITH REMOTE POSITION INDICATION.
EF5	EXERCISE VALVE (WITH FAIL-SAFE ACTUATORS) TO OBSERVE PROPER OPERATION OF FAIL-SAFE MECHANISMS EVERY 3 MONTHS IN ACCORDANCE WITH SECTION XI, ARTICLE IWV-3410.
EF6	EXERCISE VALVE (WITH FAIL-SAFE ACTUATORS) TO OBSERVE PROPER OPERATION OF FAIL-SAFE MECHANISMS DURING COLD SHUTDOWN/
EF7	EXERCISE VALVE (WITH FAIL-SAFE ACTUATORS) TO OBSERVE PROPER OPERATION OF FAIL-SAFE MECHANISMS DURING REFUELING.
ET	EXERCISE VALVE TO MEASURE THE FULL STROKE TIME OF A POWER OPERATED VALVE. THE VALVE STROKE TEST WILL BE PERFORMED IN ACCORDANCE WITH IWV-3410.
SLT1	SEAT LEAK TEST VALVE DURING REFUELING, BUT NOT LESS THAN ONCE EVERY 2 YEARS. LEAK RATE LIMITS WILL BE ESTABLISHED AFTER INITIAL BASELINE TESTING IN A MANNER TO BE SPECIFIED BY THE LICENSEE.

APPENDIX B
TABLE B5
SYMBOLS FOR VALVE TEST METHOD AND FREQUENCY

CATEGORY C VALVES	
EF1	EXERCISE VALVE (FULL STROKE) FOR OPERABILITY EVERY 3 MONTHS IN ACCORDANCE WITH SECTION XI, ARTICLE IWV-3500.
EF2	EXERCISE VALVE (FULL STROKE) FOR OPERABILITY DURING COLD SHUTDOWN MODE ONLY, WITH FREQUENCY NOT TO EXCEED ONCE EVERY THREE MONTHS.
EF3	EXERCISE VALVE (FULL STROKE) FOR OPERABILITY DURING REFUELING MODE ONLY.
TF1	TESTING OF SAFETY, RELIEF AND VACUUM BREAKER VALVES IN ACCORDANCE WITH IWV-3510.
IN3	OPEN AND INSPECT ONE VALVE OF THE VALVE GROUPING AT EACH REFUELING. PARTIAL STROKE QUARTERLY WHEN POSSIBLE.
NOTE:	ON CATEGORY C CHECK VALVES, WHOSE FUNCTION IS TO PREVENT REVERSE FLOW, THE TEST WILL BE PERFORMED TO PROVE THAT THE DISK TRAVELS TO THE SEAT PROMPTLY ON CESSATION OR REVERSAL OF FLOW.
CATEGORY D VALVES	
RD1	RUPTURE DISKS WILL BE TESTED IN ACCORDANCE WITH THE PERIODIC TESTING REQUIREMENTS OF ANSI/ASME OM-1-1981 FOR NONRECLOSING PRESSURE RELIEF DEVICES.
XP1	OPERATIONAL CHECKS OF EXPLOSIVE CHARGES WILL BE PERFORMED IN ACCORDANCE WITH IWV-3610.

RELIEF REQUEST 1

SYSTEM: Reactor Shutdown Cooling

VALVES: V17-1, V17-2, V17-3, V17-19, V17-54, V17-55, V17-56, V17-57

CATEGORY: B

FUNCTION: These valves function to provide isolation of the Shutdown Cooling System from the Reactor Recirculation System. They open to allow operation of the Shutdown Cooling System (non-safety related in the open direction).

TEST REQUIREMENT: Every three months, per IWV-3410.

BASIS FOR RELIEF: Valves V17-19 and V17-54 are interlocked and will not open when reactor coolant temperature is greater than 350°F. Since the safety related function of these valves is to isolate the Shutdown Cooling System, the cycling of valves V17-1, 2, 3, 55, 56, and 57 during power operation would degrade their isolation function and, hence, the safety of the plant.

ALTERNATE TESTING: These valves will be tested on a cold shutdown frequency, when coolant temperature is below 350°F.

RELIEF REQUEST 2

SYSTEM: Standby Liquid Control

VALVES: V19-16, V19-20

CATEGORY: AC

FUNCTION: These valves operate in the closed direction to prevent reverse flow from the Reactor Coolant System into the Standby Liquid Control System, as well as for containment isolation, and open direction to permit injection of poison into reactor vessel.

TEST REQUIREMENT: Every three months, per IWV-3520.

BASIS FOR RELIEF: These valves cannot be exercised during power operation since flow thru these valves would pump highly concentrated sodium pentaborate into the RCS, causing plant shutdown. Performing this test during cold shutdowns requires flushing the Poison System for long periods of time resulting in large quantities of hazardous waste material and requires actuation of the explosive valves which would then require replacement. Performing this testing during cold shutdown would probably result in delaying plant startup.

ALTERNATE TESTING: These valves will be full stroke exercised during Poison System Full Flow Injection Test and Appendix J Type C Leak Rate Testing during refueling outages.

RELIEF REQUEST 3

SYSTEM:	Clean-up Demineralizer
VALVES:	V16-62
CATEGORY:	A1C
FUNCTION:	This check valve acts as a containment isolation valve in the event of an accident. During normal operation this valve allows flow to pass into the reactor coolant from the Clean-up Demineralizer System.
TEST REQUIREMENT:	Full stroke exercise every three months, per IWV-3410.
BASIS FOR RELIEF:	This valve cannot be exercised and verified closed (its safety position) during power operation due to the high pressure/temperature conditions in recirculation loop "B". This valve does not have an exercising mechanism nor is it provided with position indication.
ALTERNATE TESTING:	This valve will be exercised closed when the 10CFR50, Appendix J, Type C Test is performed during refueling.

RELIEF REQUEST 3A

SYSTEM: Clean-up Demineralizer

VALVES: V16-62

CATEGORY: A1C

FUNCTION: This valve acts as a containment isolation valve for the Clean-up System.

TEST REQUIREMENT: High Pressure Seat Leak Test per IWV-3420.

BASIS FOR RELIEF: A High Pressure Seat Leak test is specified to ensure that pressure protection is provided from high pressure to low pressure Safety Systems. Piping upstream of this check valve is designed to the same requirements as the Reactor (back to the clean-up pump discharge). In addition, the low pressure portion of the piping upstream of V-16-62 is non-class, non-safety designation. No High Pressure Seat Leak Test will be performed.

ALTERNATE TESTING: This valve is tested under the Appendix J program and receives a Low Pressure Seat Leak Test each refueling outage. This type of check valve would tend to seat more tightly during a High Pressure Test with the result being less leakage. Therefore, the Low Pressure Test not only provides information as to the valve condition but is also a conservative indication of seat leakage.

RELIEF REQUEST 4

DELETED

RELIEF REQUEST 5

SYSTEM: Hydraulic Control Unit

VALVES: V-15 (126), V-15 (127)

CATEGORY: B

FUNCTION: These valves (137 of each) are the scram inlet/outlet valves. They function to scram the associated control rod.

TEST REQUIREMENT: Full stroke, test failure modes and stroke time every three months, per IWV-3410.

BASIS FOR RELIEF: CV-126 & 127 cannot be exercised during power operation since exercising these valves will scram the associated control rod. Withdrawal of the rod and rapid insertion at power could cause fuel damage to the core.

These valves are not provided with indication for both positions and stroke in the order of milliseconds thus measuring of stroke time is impractical.

ALTERNATE TESTING: Per Technical Specification requirements, a sample of 8 of these valves are tested during start-ups from cold shutdown if the sample has not tested in the previous 6 months. All valves are tested at refueling. Verifying the associated control rod meets the scram insertion time limits as defined in Technical Specifications is an acceptable method of detecting degradation of these valves.

RELIEF REQUEST 6

SYSTEM: Hydraulic Control Unit

VALVES: V-15 (106) (137 valves)

CATEGORY: A2C

FUNCTION: These stop-check valves act in the open position to charge the scram accumulators from the charging water header. They act in the closed position to allow a successful scram, in the event that the charging water header is depressurized and Reactor Pressure is less than 940 psia.

TEST REQUIREMENT: Every three months, per IWV-3520.

BASIS FOR RELIEF: Testing these valves during power operation would require depressurizing the scram charging system, causing a degradation of the scram systems and a loss of normal cooling for control rod drives.

ALTERNATE TESTING: These valves (all 137) will be tested on a cold shutdown frequency by depressurizing the control rod drive charging water header and verifying by the depressurization rate of the associated Hydraulic Control Unit that the valves have shifted to the closed (safe) position.

RELIEF REQUEST 7

Deleted

RELIEF REQUEST 8

SYSTEM: Hydraulic Control Unit

VALVES: V-15 (108) (137 valves)

CATEGORY: C

FUNCTION: Operates to allow displacement of fluid for successful
scram function.

TEST REQUIREMENT: Every three months, per IWV-3520.

BASIS FOR RELIEF: These valves (137) can only be verified open during
the actual scram testing. Verifying the associated
control rod meets the scram insertion times
specified in technical specifications is an
acceptable alternative method of verifying the full
open position of these valves.

ALTERNATE TESTING: Per Technical Specification requirements, a sample
of 8 of the 137 valves are tested during start-up
from cold shutdown if the sample has not been tested
in the previous 6 months. All valves are tested at
refueling.

RELIEF REQUEST 9

SYSTEM: Control Rod Drive Hydraulic

VALVES: V15-27, V15-28

CATEGORY: A1C

FUNCTION: These check valves act as containment isolation valves in the event of an accident. They normally allow excess flow from the Control Rod Drive Hydraulic System to pass to the reactor vessel.

TEST REQUIREMENT: Every three months, per IWV-3520.

BASIS FOR RELIEF: These valves must be open during operation of the CRD Hydraulic System. The CRD Hydraulic System must be operable during power operation and is normally kept operating even during periods when the reactor is shut down.

These valves are not provided with exercise mechanisms or position indication, therefore closure of these valves can only be verified by indirect means.

ALTERNATE TESTING: These valves will be exercised on a refueling outage basis, when Appendix J, Type C Leak Rate Test is performed.

RELIEF REQUEST 10

SYSTEM: Core Spray

VALVES: V-20-150, V-20-151, V-20-152, V-20-153

CATEGORY: A2C

FUNCTION: These valves act as pressure isolation valves and to prevent reverse flow from the Reactor Coolant System to the Core Spray System.

TEST REQUIREMENT: Every three months, per IWV-3410.

BASIS FOR RELIEF: During normal operation the differential pressure across the valve disc exceeds 1,000 psi. The Core Spray System pumps are not designed to operate against that high of a head, and the valve test operator requires zero pressure differential across the valve disc in order to cycle the valve and/or reactor vessel.

ALTERNATE TESTING: Exercise the valves for operability during cold shutdown using the test operator.

RELIEF REQUEST 11

SYSTEM: Core Spray

VALVES: V20-60, V20-61, V-20-88, V-20-89

CATEGORY: C

FUNCTION: These valves provide isolation between the Core Spray System and the Fire Protection System. These valves also provide a secondary source of makeup to the Reactor, utilizing fire water via the core spray piping.

TEST REQUIREMENT: Full stroke exercise every three months, per IWV-3520.

BASIS FOR RELIEF: Initiating flow through these valves will cause unacceptable water chemistry transients in the suppression pool and/or reactor vessel.

ALTERNATE TESTING: These valves will be disassembled and inspected to verify open and close stroke as permitted by NRC generic letter 89-04 Position 2. These valves form a group in that they are the same size, manufacturer model and materials of construction and required to pass the same flowrate. Two of the subject check valves are mounted vertically, flow up, while the other two are in the horizontal. Since vertical is the more restrictive orientation a vertical valve was the first to be opened. No adverse conditions were observed. Therefore, these valves will be grouped with the horizontal valves. One valve of the group will be disassembled during each refueling outage such that over four refueling outages all of the valves will have been inspected.

RELIEF REQUEST 12

Deleted

RELIEF REQUEST 12A

SYSTEM: Reactor Head Cooling

VALVES: V31-2, V31-5

CATEGORY: A1, A1C

FUNCTION: These valves provide containment isolation of the Head Cooling System.

TEST REQUIREMENT: High Pressure Seat Leak Test per IWV-3420.

BASIS FOR RELIEF: These valves provide isolation between the reactor head cooling tie-in and the head cooling supply water. A High Pressure Seat Leak Test is not required because the head cooling water is supplied from the CRD pumps. The CRD System is designed for greater pressure than the reactor vessel, therefore, high pressure leakage does not present a over pressurization problem.

ALTERNATE TESTING: No High Pressure Seat Leak Test will be performed.

RELIEF REQUEST 12H

Deleted

RELIEF REQUEST 13

SYSTEM: Main Steam

VALVES: V-01 (NR-108A), V-01 (NR-108B), V-01 (NR-108C), V-01 (NR-108D), V-01 (NR-108E)

CATEGORY: B

FUNCTION: To provide automatic and manual pressure control for the RCS as well as providing for automatic depressurization of the RCS in case of an accident.

TEST REQUIREMENT: Full stroke exercise and measure stroke time every three months, per 1WV-3410.

BASIS FOR RELIEF: Exercising these valves during power operation simulates a small-break transient, subjecting the RCS and related piping to unnecessary transients. These valves cannot be exercised at cold shutdown because reactor pressure is necessary to stroke the valves. No direct position indication exists, therefore, timing the stroke of these valves is impracticable.

ALTERNATE TESTING: Valves will be full stroke exercised during startup following a refueling outage, i.e., on a refueling outage frequency.

RELIEF REQUEST 14

SYSTEM:	Main Steam
VALVES:	V-1-190, V-1-191, V-1-192, V-1-193
CATEGORY:	C
FUNCTION:	<p>These valves are installed on the discharge headers of the electromatic relief valves in the drywell and were designed to open upon a low pressure condition in the discharge line. Relief of the low pressure condition after initial lifting and reseating of the electromatic relief valves will prevent a water column from being established due to the pressure differential between the discharge line and the torus. This water column is undesirable due to the potential increase in hydraulic forces during subsequent relief valve lifts. These valves do not provide any over pressure relief.</p>
TEST REQUIREMENT:	Every three months, per IWV-3520.
BASIS FOR RELIEF:	<p>The drywell is a high radiation area that is normally kept inerted with a nitrogen atmosphere. These valves are not provided with any mechanisms for exercising the internals, and the test method used requires partial disassembly and the use of a special tool rig to stroke and measure the opening force.</p>
ALTERNATE TESTING:	<p>Exercise at refueling, when conditions allow access to the drywell, i.e., when containment is de-inerted.</p>

RELIEF REQUEST 15

SYSTEM:	Feedwater
VALVES:	V2-71, V2-72, V2-73, V2-74
CATEGORY:	A3C
FUNCTION:	These valves are the containment pressure isolation valves for the main feedwater lines.
TEST REQUIREMENT:	Full stroke exercise every three months, per IWV-3410.
BASIS FOR RELIEF:	Exercising these valves during power operation would require isolation of the Feedwater System, which results in plant shutdown. Two of these valves are inaccessible during cold shutdown when the containment atmosphere is inerted. These valves are not fitted with exercise arms or position indication.
ALTERNATE TESTING:	These valves will be verified shut (which is their safety related position) during their Appendix J, Type C Seat Leak Test each refueling outage.

NOTE 15A

SYSTEM:	Feedwater
VALVES:	V2-71, V2-72, V2-73, V2-74
CATEGORY:	A3C
FUNCTION:	These valves are the containment pressure isolation valves for the main feedwater lines.
TEST REQUIREMENT:	High Pressure Seat Leak Test per IWV-3420.
BASIS FOR RELIEF:	A High Pressure Seat Leak Test is specified to ensure that pressure protection is provided from high pressure to low pressure safety systems. Piping upstream of these check valves is designed to the same requirements as the Reactor (back to the feed pump discharge). In addition, the piping upstream of these valves is non-class, non-safety designation. No High Pressure Seat Leak Test will be performed.
ALTERNATE TESTING:	These valves are tested under the Appendix J program and receive a Low Pressure Seat Leak Test each refueling outage. This type of check valve would tend to seat more tightly during a High Pressure Test with the result being less leakage. Therefore, the Low Pressure Test not only provides information as to the condition of the valve but is also a conservative indication of seat leakage.

RELIEF REQUEST 16

Deleted

RELIEF REQUEST 17

SYSTEM: Closed Cooling Water

VALVES: VS-165

CATEGORY: A1C

FUNCTION: This valve acts as a containment isolation valve for the Closed Cooling Water System.

TEST REQUIREMENT: Full stroke exercise every three months, per IWV-3410.

BASIS FOR RELIEF: The only method available to verify that this valve shuts (which is its safety related function) is via the Seat Leak Test performed during refueling outages.

ALTERNATE TESTING: This valve will be exercised to the close position during the Appendix J, Type C Seat Leak Test each refueling outage.

RELIEF REQUEST 18

SYSTEM:	Reactor Building Closed Cooling Water
VALVES:	V5-147, V5-166, V5-167
CATEGORY:	A1
FUNCTION:	These valves act as containment isolation valves for the Closed Cooling Water System.
TEST REQUIREMENT:	Full stroke exercise every three months, per IWV-3410.
BASIS FOR RELIEF:	Full stroke exercising of these valves isolates cooling water flow to the RECIRC pumps. Isolation of cooling water during normal plant operation can cause damage to these pumps, thus requiring plant shutdown.
ALTERNATE TESTING	During cold shutdown these valves will be full stroke exercised.

RELIEF REQUEST 19

Deleted

RELIEF REQUEST 20

Deleted. See Relief Request 11

RELIEF REQUEST 21

Deleted

RELIEF REQUEST 22

Deleted

RELIEF REQUEST 23

Deleted

RELIEF REQUEST 24

Deleted

RELIEF REQUEST 25

SYSTEM:

Instrumentation lines connected to the reactor coolant pressure boundary which penetrate primary containment.

VALVES:

	V-1-180	V-130-3
V-1-181	V-37-3J	V-130-4
V-1-184	V-37-38	V-130-5
V-1-185	V-37-39	V-130-6A
V-14-49	V-37-40	V-130-6B
V-14-50	V-37-41	V-130-7
V-14-52	V-37-49	V-130-8
V-14-53	V-37-50	V-130-9
V-14-54	V-37-51	V-130-10
V-14-55	V-37-52	V-130-21A
V-14-56	V-37-59	V-130-21B
V-20-172	V-37-66	V-130-26
V-20-173	V-37-68	
V-37-5	V-37-69	
V-37-6	V-37-70	
V-37-7	V-37-71	
V-37-8	V-37-72	
V-37-16	V-37-73	
V-37-17	V-37-74	
V-37-18	V-37-75	
V-37-19	V-130-1	
V-37-27	V-130-2A	
V-37-28	V-130-2B	

CATEGORY:

A1C

TEST REQUIREMENT:

Exercise valves every three months and Seat Leak Test in accordance with Section XI.

BASIS FOR RELIEF:

Instrumentation lines connected to the reactor coolant pressure boundary and which penetrate primary containment are designed in accordance with USNRC Regulatory Guide 1.11 which permits a flow restricting orifice inside containment and an excess flow check valve outside containment for isolation. This design configuration does not permit valve exercising or Local Seat Leak Tests to be performed.

ALTERNATE TESTING:

The excess flow check valves are demonstrated to be functional in both the open and closed position in accordance with OC Tech Specification, Section 4.5.0. This requires testing for closure during refueling outages and open position whenever conditions may cause closure.

RELIEF REQUEST 26

Deleted

RELIEF REQUEST 27

Deleted

RELIEF REQUEST 29

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RELIEF REQUEST 22

SYSTEM: Control Rod Drive

VALVES: V-15 (132)

CATEGORY: D

FUNCTION: These rupture discs (137 of them) protect the High Pressure nitrogen side of the HCU's from being overpressurized while charging accumulators. The rupture discs are rated for ≈ 2000 psig.

TEST REQUIREMENT: IWV-3620 - Rupture discs shall be tested in accordance with the periodic testing requirements of ANSI/ASME OM-1-1981 for nonreclosing pressure relief devices.

BASIS FOR RELIEF: These rupture discs are outside the scope as defined in ANSI/ASME OM-1-1981 in that they are not required to perform a specific function in shutting down a reactor or in mitigating the consequences of an accident. They are provided to ensure the nitrogen side of the hydraulic control unit is not overpressurized during periodic charging activities. The passive integrity of these rupture discs is continually monitored by means of pressure switches. Any degradation in integrity will cause an alarm condition and investigation by operators.

ALTERNATE TESTING: None

RELIEF REQUEST 30

SYSTEM: Main Steam

VALVES: V1-7, V1-8, V1-9, V1-10

CATEGORY: A1

FUNCTION: The main steam isolation valves provide containment isolation of the Main Steam Line.

TEST REQUIREMENT: Exercise valve (with fail-safe actuators) to observe proper operation of fail-safe mechanisms every three months per IWV-3410.

BASIS FOR RELIEF: These valves are air operated and have fail-safe operators that are required to close the valves with no air assist. These valves currently cannot be tested every 3 months or during cold shutdown unless drywell access is available due to the configuration. Drywell entry is required to observe the operators function properly per IWV-3410(e).

ALTERNATE TESTING: These valves will be fail-safe tested during cold shutdown when drywell access is available and during refueling outages.

RELIEF REQUEST 31

SYSTEM:	Instrument Air
VALVES:	V6-393
CATEGORY:	A1C
FUNCTION:	This valve acts as a containment isolation valve for the Instrument Air System.
TEST REQUIREMENT:	Full stroke exercise every three months, per IWV-3410.
BASIS FOR RELIEF:	The only method available to verify that this valve shuts (which is its safety related function) is via the Appendix J, Seat Leak Test performed during refueling outages.
ALTERNATE TESTING:	This valve will be exercised during the Appendix J, Type C Seat Leak Test at refueling.

RELIEF REQUEST 32

SYSTEM:	Instrument Air
VALVES:	V6-395
CATEGORY:	A1
FUNCTION:	This valve acts as a containment isolation valve for the Instrument Air System.
TEST REQUIREMENT:	Full stroke exercise and stroke time every three months, per IWV-3410.
BASIS FOR RELIEF:	Full stroke exercising of this valve isolates instrument air from the Main Steam Isolation Valves. Isolating the air supply could cause the MSIV's to begin to close causing unwanted transients.
ALTERNATE TESTING:	During cold shutdown and during refueling outages this valve will be full stroke exercised and timed.

RELIEF REQUEST 33

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RELIEF REQUEST 34

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RELIEF REQUEST 32

Deleted

RELIEF REQUEST 36

Deleted

RELIEF REQUEST 37

SYSTEM: Core Spray

VALVES: V20-52, V-20-53, V-20-54, V-20-55

CATEGORY: C

FUNCTION: Core Spray Booster Pump Discharge Check Valves

TEST REQUIREMENT: Full stroke exercise every three months.

BASIS FOR RELIEF: The test line utilized for testing these valves will not pass the maximum flowrate of 4100 gpm. It will pass at least 3400 gpm.

ALTERNATE TESTING: The valves will be partial flow tested every three months. These valves are of the same manufacturer, size, model and type. One valve of this group will be opened and inspected at each refueling outage.

RELIEF REQUEST 38

SYSTEM:	Reactor Building Closed Cooling Water, Service Water
VALVES:	V5-153, V5-154, V3-62, V3-63
CATEGORY:	C
FUNCTION:	Pump Discharge Check Valves
TEST REQUIREMENT:	Full stroke exercise, valve every three months.
BASIS FOR RELIEF:	These valves will be checked for closure by verifying acceptable hydraulic performance of the parallel pump. During certain times, both pumps must operate to provide cooling to Plant Systems and the Closure test is not possible without shutdown of the respective pump.
ALTERNATE TESTING:	The valves will be tested every three months except for those periods when both pumps must operate. In that case, the frequency will revert to testing every three months as soon as single pump operation is possible.

RELIEF REQUEST 39

Deleted

RELIEF REQUEST 40

SYSTEM:	Hydrogen and Oxygen Monitoring
VALVES:	V38-9, V38-10, V38-16, V38-17, V38-22, V38-23,
CATEGORY:	A1
FUNCTION:	Containment Isolation
TEST REQUIREMENTS:	Full stroke exercise, time and test function of fail safe features every three months.
BASIS FOR REFUEL	These valves cannot be stroked individually without modification to their control circuitry. These valves do not have position indication. Verification of cycle is by indirect means. Stroke timing is not possible.
ALTERNATE TESTING:	These valves will be exercised and the fail safe feature tested during refueling but, the cycle cannot be timed.

RELIEF REQUEST 41

SYSTEM:	Hydrogen and Oxygen Monitoring
VALVES:	V38-93, V38-94
CATEGORY:	A1
FUNCTION:	Containment Isolation
TEST REQUIREMENT:	Full stroke exercise, time and test function of fail safe feature every three months.
BASIS FOR RELIEF:	These valves are installed spares that are not required to change position. The solenoids are not powered.
ALTERNATE TESTING:	If these valves are powered, they will be exercised as required. They will not be exercised when they are unpowered.

RELIEF REQUEST 42

SYSTEM: Core Spray

VALVES: V-20-8, V-20-9, V-20-16, V-20-22

CATEGORY: C

FUNCTION: Core Spray Main Pump Discharge Check Valves

TEST REQUIREMENT: Full stroke exercise every three months.

BASIS FOR RELIEF: The test line utilized for testing these valves will not pass the maximum flowrate of 4100 gpm. It will pass at least 3400 gpm.

ALTERNATE TESTING: The valves will be partial flow tested every three months. These valves are of the same manufacturer, size, model and type. One valve of this group will be opened and inspected at each refueling outage.

RELIEF REQUEST 43

SYSTEM: Liquid Poison

VALVES: V-19-37, V-19-38

CATEGORY: C

FUNCTION: Pump Discharge Check Valves

TEST REQUIREMENT: Exercise every three months.

BASIS FOR RELIEF: The means for testing these valves in the closed direction would involve mechanical operations that could involve personal hazard due to the high pressure output of the liquid poison pumps. Reverse flow thru a positive displacement pump is not a probable mode of failure and relief valve discharge and leakage is checked on a quarterly basis. These are the two possible paths should the pump discharge check valve fail in the open position.

ALTERNATE TESTING: These valves are exercised every three months to verify full open position. No reverse flow test will be done.

RELIEF REQUEST 44

SYSTEM: Control Rod Drive

VALVES: V15-119, V15-120, V15-121, V15-133, V15-134,
V15-135, V15-136, V15-137

CATEGORY: B

FUNCTION: Isolate the scram dump volume during a scram
condition.

TEST REQUIREMENT: Exercise stroke time and verify operation of failure
mode feature every three months.

BASIS FOR RELIEF: These valves can be exercised every three months but
the test or exercise solenoid to bleed off control
air is not the solenoid that would be used if the
valves safety function were required. A full scram
signal is required to actuate the safety function
solenoids.

ALTERNATE TESTING: The valves will be exercised every three months but
the failure mode and stroke timing will be done at
cold shutdown.

RELIEF REQUEST 45

SYSTEM: Core Spray

VALVES: V-20-50, V-20-51

CATEGORY: C

FUNCTION: Core Spray Booster Pump Bypass Check Valves

TEST REQUIREMENT: Full stroke exercise every three months.

BASIS FOR RELIEF: The test line utilized for testing these valves will not pass the maximum flowrate of 3700 gpm.

ALTERNATE TESTING: The valves will be partial flow tested every three months. These valves are of the same manufacturer, size, model and type. One valve of this group will be opened and inspected at each refueling outage.

RELIEF REQUEST 46

SYSTEM:	Reactor Recirculation
VALVES:	V24-29, 30, V-23-70
CATEGORY:	Various
FUNCTION:	Various
TEST REQUIREMENT:	Exercise power operated valve and measure the full stroke time per IWV-3410.
BASIS FOR RELIEF:	These valves do not have position indication. Verification of operation is by indirect means (flow or pressure). Accurate stroke timing is not possible.
ALTERNATE TESTING:	These valves will be exercised but, timing as required by IWV will not be performed.

RELIEF REQUEST 47

SYSTEM: Drywell and Suppression, Containment Spray

VALVES: V-26-1 V-26-2 V-26-3
V-26-4 V-26-5 V-26-6
V-26-7 V-26-8 V-26-9
V-26-10 V-26-11 V-26-12
V-26-13 V-26-14 V-21-15
V-21-18

CATEGORY: Various

FUNCTION: Drywell and Torus Vacuum Breakers, and Torus Spray Valves

TEST REQUIREMENT: Seat Leak Testing of each valve.

BASIS FOR RELIEF: Valves cannot be individually isolated in that they have no isolation valves.

ALTERNATE TESTING: Valves are tested as a group during Appendix J, Type A Test. Combined limiting leakage is specified by the Technical Specifications.

RELIEF REQUEST 48

SYSTEM:	Condensate Transfer
VALVES:	V11-3, V11-7
CATEGORY:	C
FUNCTION:	Minimum flow recirculation for the Condensate Transfer Pumps.
TEST REQUIREMENT:	Full stroke exercise every three months.
BASIS FOR RELIEF:	These valves are open when the respective Condensate Transfer Pump operates. These valves are verified open by operation of the pump. These valves have no nuclear safety related functions in the closed direction since minimum nuclear safety related flow can be supplied to the Condensate Transfer System even if the parallel valve is open.
ALTERNATE TESTING:	Since these valves have no NSR function they are not tested.

RELIEF REQUEST 49

Deleted

RELIEF REQUEST 50

SYSTEM: Varicus

VALVES:

V-623-001	V-38-039	V-38-093
V-623-002	V-38-040	V-38-094
V-623-003	V-38-041	V-40-006
V-623-004	V-38-043	V-40-008
V-38-037	V-38-044	V-40-012
V-38-038	V-38-046	V-40-024

CATEGORY: A1

FUNCTION: Containment Isolation Valves

TEST REQUIREMENT: Valves with remote position indicators shall be observed at least once every 2 years to verify that valve operation is accurately indicated.

BASIS FOR RELIEF: The above valves are contained or sealed units such that valve position cannot be verified by local observation.

ALTERNATE TESTING: The position indicators for the above valves will be verified at least once every 2 years. The remote position indicators provided on these valves are used to determine valve position prerequisite to system operation and local leak rate testing. Proper system operation will verify accurate open position indication and successful leak rate test results will verify accurate closed indication.

RELIEF REQUEST 51

SYSTEM: Various

VALVES:	V-01-07	V-22-001	V-23-021
	V-01-08	V-22-002	V-23-022
	V-01-09	V-22-028	V-27-001
	V-01-10	V-22-029	V-27-002
	V-05-147	V-23-013	V-27-003
	V-05-166	V-23-014	V-27-004
	V-05-167	V-23-015	V-28-017
	V-06-395	V-23-016	V-28-018
	V-16-001	V-23-017	V-28-047
	V-16-002	V-23-018	V-31-002
	V-16-014	V-23-019	
	V-16-061	V-23-020	

CATEGORY: A1

FUNCTION: Containment Isolation Valves

TEST REQUIREMENT: Valves with remote position indicators shall be observed at least once every 2 years to verify that valve operation is accurately indicated.

BASIS FOR RELIEF: The above valves are located in radiation areas. Local observation to verify the accuracy of the position indicators will result in unnecessary radiation exposure. Alternate means can be used to verify accurate position indication.

ALTERNATE TESTING: The position indicators for the above valves will be verified at least once every 2 years. The remote position indicators provided on these valves are used to determine valve position prerequisite to system operation and local leak rate testing. Proper system operation will verify accurate open position indication and successful leak rate test results will verify accurate closed indication.

RELIEF REQUEST 52

SYSTEM: Control Rod Drive

VALVES: V-15 (106) (137 valves one per Hydraulic Control Unit)

CATEGORY: A2C

CLASS: 2

FUNCTION: These stop-check valves act in the open position to charge the scram accumulators from the charging water header. They act in the closed position to allow a successful scram, in the event that the charging water header is depressurized and reactor pressure is less than 940 psia.

TEST REQUIREMENT: Leak rate test per IWV-3420.

BASIS FOR RELIEF: The owner established permissible leak rate for these valves is based upon maintaining the HCU pressure above a specific value for a given period of time. This can be demonstrated by observing the depressurization rate of the Hydraulic Control Units and verifying that they are within acceptable limits. This type of testing is done on all 137 Hydraulic Control Units simultaneously. Those valves that pass the owner established criteria are not tested further to determine the actual leak rate since a tight valve will take an indefinite period of time to depressurize the Hydraulic Control Unit.

ALTERNATE TESTING: These valves (all 137) will be leak tested at least once every two years to ensure they are capable of performing their intended function. The leak test shall consist of monitoring the depressurization rate of each associated Hydraulic Control Unit to verify it is within the owner established limits.

RELIEF REQUEST 53

SYSTEM: Containment Spray and Emergency Service Water

VALVES: V-3-82 V-21-21
V-3-83 V-21-22
V-3-84 V-21-23
V-3-85 V-21-24

CATEGORY: C

FUNCTION: Thermal Relief Valves

TEST REQUIREMENT: IWV-3510 specifies testing in accordance with the requirements of ANSI-ASME OM-3-1981.

BASIS FOR RELIEF: These thermal relief devices do not perform any active specific function in shutting down the reactor or in mitigating the consequences of an accident. These valves provide overpressure relief in the event the associated system is isolated and a source of heat is added to the system. The normal as well as emergency system valve lineups for these systems would assure these systems are not isolated. If the system isolated for any purpose, it would be declared inoperable and taken out of service.

ALTERNATE TEST: Valves will be replaced every other refueling outage with fully qualified valves.

OYSTER CREEK INSERVICE TESTING PROGRAM

APPENDIX B TABLE 1

VALVE TEST REQUIREMENTS

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SYSTEM C11 MAIN STEAM

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION			ACTIVE		REQUIRED		RELIEF		ACTUAL		SAFETY FUNCTION
					NORM	SAFE		PASSIVE		FFST				TEST		
V-01(NR-108A)	GL	6	E	B	C	O		A		EF1		13		EF3		OPEN FOR REACTOR PRESSURE CONTROL
										ET		13				
V-01(NR-108B)	GL	6	E	B	C	O		A		EF1		13		EF3		OPEN FOR REACTOR PRESSURE CONTROL
										ET		13				
V-01(NR-108C)	GL	6	E	B	C	O		A		EF1		13		EF3		OPEN FOR REACTOR PRESSURE CONTROL
										ET		13				
V-01(NR-108D)	GL	6	E	B	C	O		A		EF1		13		EF3		OPEN FOR REACTOR PRESSURE CONTROL
										ET		13				
V-01(NR-108E)	GL	6	E	B	C	O		A		EF1		13		EF3		OPEN FOR REACTOR PRESSURE CONTROL
										ET		13				

OYSTER CREEK INSERVICE TESTING PROGRAM
 APPENDIX B TABLE 1
 VALVE TEST REQUIREMENTS

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SYSTEM 411 MAIN STEAM

VALVE #	TYPE	SIZE	ACTUATOR	CAI	NORM	POSITION	ACTIVE	REQUIRED	ACTUAL	SAFETY FUNCTION
							PASSIVE	TEST	TEST	
V-01(NR-280)	RL	6	SA	C	C	O	A	TF1	TF1	OPEN FOR REACTOR PRESSURE RELIEF
V-01(NR-280)	RL	6	SA	C	C	O	A	TF1	TF1	OPEN FOR REACTOR PRESSURE RELIEF
V-01(NR-280)	RL	6	SA	C	C	O	A	TF1	TF1	OPEN FOR REACTOR PRESSURE RELIEF
V-01(NR-280)	RL	6	SA	C	C	O	A	TF1	TF1	OPEN FOR REACTOR PRESSURE RELIEF
V-01(NR-280)	RL	6	SA	C	C	O	A	TF1	TF1	OPEN FOR REACTOR PRESSURE RELIEF

WYOMING CREEK INSERVICE TESTING PROGRAM

APPENDIX B TABLE 1

VALVE TEST RESULTS: COMMENTS

SYSTEM 411 MAIN STEAM

OYSTER CREEK INTERSERVICE TESTING PROGRAM
 APPENDIX B TABLE 1
 VALVE TEST REQUIREMENTS

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SYSTEM 411 MAIN STEAM

VALVE #	TYPE	SIZE	ACTUATOR	CAT	NORM	POSITION	ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
V-01-08(NS03B)	GL	24	A	A1	O	C	A	EF1		EF1	CLOSE FOR CONTAINMENT ISOLATION
								EF4		EF4	
								EF5	30	EF7	
								ET		ET	
								SLT1		SLT1	
V-01-09(NS04A)	GL	24	A	A1	O	C	A	EF1		EF1	CLOSE FOR CONTAINMENT ISOLATION
								EF4		EF4	
								EF5	30	EF7	
								ET		ET	
								SLT1		SLT1	
V-01-10(NS04B)	GL	24	A	A1	O	C	A	EF1		EF1	CLOSE FOR CONTAINMENT ISOLATION
								EF4		EF4	
								EF5	30	EF7	
								ET		ET	
								SLT1		SLT1	
V-01-180	SK	.5	SA	ATC	O	C	A	EF1	25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
								SLT1	25		
V-01-181	SK	.5	SA	ATC	O	C	A	EF1	25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
								SLT1	25		

OSTER CREEK IN-SERVICE TESTING PROGRAM

APPENDIX B TABLE 1

VALVE TEST REQUIREMENTS

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SYSTEM 411 MAIN STEAM

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION		ACTIVE		REQUIRED		RELIEF		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	TEST	TEST	TEST	TEST			
V-01-184	SK	.5	SA	A1C	O	C	A	EF1	25	EF3	25	EF3	25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
V-01-185	SK	.5	SA	A1C	O	C	A	EF1	25	EF3	25	EF3	25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
V-01-190	CK	4	SA	C	C	O	A	EF1	14	EF3	14	EF3	14	EF3	OPEN TO PREVENT SIPHON EFFECT ON DOWNCOMER LINE
V-01-191	CK	4	SA	C	C	O	A	EF1	14	EF3	14	EF3	14	EF3	OPEN TO PREVENT SIPHON EFFECT ON DOWNCOMER LINE
V-01-192	CK	4	SA	C	C	O	A	EF1	14	EF3	14	EF3	14	EF3	OPEN TO PREVENT SIPHON EFFECT ON DOWNCOMER LINE

OYSTER CREEK INSERVICE TESTING PROGRAM

APPENDIX B TABLE 1

VALVE TEST REQUIREMENTS

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SYSTEM 411 MAIN STEAM

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE PASSIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE		TEST	RELIEF	TEST	
V-01-193	CK	4	SA	C	C	D	A	EF1	14	EF3	OPEN TO PREVENT SIPHON EFFECT ON DOWNCOMMER LINE

OSTER CREEK INSERVICE TESTING PROGRAM
APPENDIX B TABLE 1
VALVE TEST REQUIREMENTS

SYSTEM 422 FEEDWATER

VALVE #	TYPE	SIZE	ACTUATOR	CR1	POSITION NORM	SAFE	ACTIVE PASSIVE	REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
V-02-071	CK	18	SA	A3C	O	C	A	EF1 SLT1	15 15A	EF3 SLT1	CLOSE FOR RCPB AND CONTAINMENT ISOLATION
V-L-072	CK	18	SA	A3C	O	C	A	EF1 SLT1	15 15A	EF3 SLT1	CLOSE FOR RCPB AND CONTAINMENT ISOLATION
V-02-073	CK	18	SA	A3C	O	C	A	EF1 SLT1	15 15A	EF3 SLT1	CLOSE FOR RCPB AND CONTAINMENT ISOLATION
V-02-074	CK	18	SA	A3C	O	C	A	EF1 SLT1	15 15A	EF3 SLT1	CLOSE FOR RCPB AND CONTAINMENT ISOLATION

OYSTER CREEK IN-SERVICE TESTING PROGRAM
APPENDIX B TABLE 1
VALVE TEST REQUIREMENTS

SYSTEM 531 SERVICE WATER

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE	REQUIRED	ACTUAL	SAFETY FUNCTION	
					NORM	SAFE					PASSIVE
V-03-062	SK	16	SA	C	O/C	O/C	A	EF1	38	EF1	OPEN FOR SERVICE WATER FLOW CLOSE FOR PARALLEL PUMP FLOW
V-03-063	SK	16	SA	C	O/C	O/C	A	EF1	38	EF1	OPEN FOR SERVICE WATER FLOW CLOSE FOR PARALLEL PUMP FLOW

OSTER CREEK IN-SERVICE TESTING PROGRAM
APPENDIX B TABLE 1
VALVE TEST REQUIREMENTS

SYSTEM 532 EMERGENCY SERVICE WATER

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST	TEST	TEST	
V-03-083	RL	.75	SA	C	C	O	A	TF1	S3	TF1	TF1	TF1	OPEN FOR THERMAL RELIEF OF ESW SYSTEM
V-03-084	RL	.75	SA	C	C	O	A	TF1	S3	TF1	TF1	TF1	OPEN FOR THERMAL RELIEF OF ESW SYSTEM
V-03-085	RL	.75	SA	C	C	O	A	TF1	S3	TF1	TF1	TF1	OPEN FOR THERMAL RELIEF OF ESW SYSTEM
V-03-087	BF	14	M	B	T	T	P	EF4		EF4	EF4	EF4	THROTTLED OPEN FOR ESW FLOW
V-03-088	BF	14	M	B	T	T	P	EF4		EF4	EF4	EF4	THROTTLED OPEN FOR ESW FLOW

OYSTER CREEK IN-SERVICE TESTING PROGRAM

APPENDIX B TABLE 1

VALVE TEST REQUIREMENTS

SYSTEM 532 EMERGENCY SERVICE WATER

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST	TEST	TEST	
V-03-131	CK	2	SA	C	O	C	A	EF1			EF1		CLOSE TO PREVENT LOSS OF ESW FLOW TO SW SYSTEM
V-03-133	CK	2	SA	C	O	C	A	EF1			EF1		CLOSE TO PREVENT LOSS OF ESW FLOW TO SW SYSTEM

OYSTER CREEK INTERSERVICE TESTING PROGRAM
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 VALVE TEST REQUIREMENTS

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SYSTEM S41 CLOSED COOLING WATER

VALVE #	TYPE	SIZE	ACTUATOR	CAI	NORM	POSITION	ACTIVE	PASSIVE	REQUIRED	RELIEF	TEST	ACTUAL	SAFETY FUNCTION
V-05-147	GA	6	MO	A1	O	C	A		EF1	16	EF2		CLOSE FOR CONTAINMENT ISOLATION
									ET	18	ET		
									SLT1		SLT1		
									EF4	51	EF4		
V-05-153	CK	12	SA	C	O/C	O/C	A		EF1	38	EF1		OPEN FOR RSCOW PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-05-154	CK	12	SA	C	O/C	O/C	A		EF1	38	EF1		OPEN FOR RSCOW PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-05-165	CK	6	SA	A1C	O	C	A		EF1	17	EF3		CLOSE FOR CONTAINMENT ISOLATION
									SLT1		SLT1		
V-05-166	GA	6	MO	A1	O	C	A		EF1	18	EF2		CLOSE FOR CONTAINMENT ISOLATION
									EF4	51	EF4		
									ET	18	ET		
									SLT1		SLT1		

OYSTER CREEK INSERVICE TESTING PROGRAM
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 VALVE TEST REQUIREMENTS

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SYSTEM 541 CLOSED COOLING WATER

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION		ACTIVE		REQUIRED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST	TEST		
V-05-167	GA	6	MO	A1	O	C	A	EF1	1B	EF2	CLOSE FOR CONTAINMENT ISOLATION		
								ET	1B	ET			
								SLT1		SLT1			
								EF4	S1	EF4			

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VALVE TEST REQUIREMENTS

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M 852 INSTRUMENT AIR

VALVE #	TYPE	SIZE	ACTUATOR	CAI	NORM	POSITION		ACTIVE		REQUIRED TEST		ACTUAL TEST		SAFETY FUNCTION
							SAFE		PASSIVE	TEST	RELIEF	TEST		
V-06-193	OK	2	SA	A1C	0	C		A		EF1 SLT1	31	EF3 SLT1		CLOSE FOR CONTAINMENT ISOLATION
V-06-395	GA	2	A	A1	0	C		A		EF1 EF5 ET SLT1 EF4	32 32 32 SLT1 51	EF2 EF6 ET SLT1 EF4		CLOSE FOR CONTAINMENT ISOLATION

SYSTEM 424 CONDENSATE TRANSFER

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VALVE TEST REQUIREMENTS

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SYSTEM 424 CONDENSATE TRANSFER

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSN	ACTIVE	REQUIRED	ACTUAL	SAFETY FUNCTION
					NORM	SAFE	TEST	TEST	
V-11-003	CK	2	SA	C	O/C	O	EF1	4B	OPEN FOR CONDENSATE TRANSFER PUMP MINIMUM FLOW
V-11-007	CK	2	SA	C	O/C	O	EF1	4B	OPEN FOR CONDENSATE TRANSFER PUMP MINIMUM FLOW
V-11-012	CK	3	SA	C	O/C	O/C	EF1	EF1	OPEN FOR CONDENSATE TRANSFER PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-11-013	CK	3	SA	C	O/C	C	EF1	EF1	OPEN FOR CONDENSATE TRANSFER PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-11-033	CK	2.5	SA	C	C	O	EF1	EF1	OPEN FOR MAKEUP TO THE ISOLATION CONDENSERS

OSTER CREEK INSERVICE TESTING PROGRAM

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VALVE TEST REQUIREMENTS

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SYSTEM 424 CONDENSATE TRANSFER

VALVE #	TYPE	SIZE	ACTUATOR	LAT	POSITION			ACTIVE		REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
					NORM	SAFE	PASSIVE						
V-11-034	GL	2.5	A	B	C	O	A			EF1		EF1	OPEN FOR MAKEUP TO THE ISOLATION CONDENSERS
										EF4		EF4	
										ET		ET	
V-11-035	CK	2.5	SA	C	C	O	A			EF1		EF1	OPEN FOR MAKEUP TO THE ISOLATION CONDENSERS
V-11-036	GL	2.5	A	B	C	O	A			EF1		EF1	OPEN FOR MAKEUP TO THE ISOLATION CONDENSERS
										EF4		EF4	
										ET		ET	
V-11-042	CK	3	SA	C	C	O	A			EF1		EF1	OPEN FOR MAKEUP TO THE ISOLATION CONDENSERS
V-11-044	DA	3	M	B	C	O	A			EF1		EF1	OPEN FOR FIRE WATER MAKEUP TO ISOLATION CONDENSERS

OSTER CREEK INSERVICE TESTING PROGRAM

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ON-LINE TEST REQUIREMENTS

627 WILIS-5
CONDENSATE TRANSFER

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION	ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	TEST	
V-11-049	DA	3	M	B	C	D	A	ENT	ENT	OPEN FOR FIRE WATER MAKEUP TO ISOLATION CONDENSERS

OWSSEN CREEK INSERVICE TESTING PROGRAM
APPENDIX B, TABLE 1
VALVE TEST REQUIREMENTS

SYSTEM 622 REACTOR VESSEL INSTRUMENTATION

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION NORM	SAFE	ACTIVE PASSIVE	REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
V-130-001	SK	1	SA	ATC	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-130-002A	SK	1	SA	ATC	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-130-002B	SK	1	SA	ATC	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-130-003	SK	1	SA	ATC	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-130-004	SK	1	SA	ATC	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

OYSTER CREEK INSERVICE TESTING PROGRAM

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2.28	1.00
2.29	1.00
2.30	1.00
2.31	1.00
2.32	1.00
2.33	1.00
2.34	1.00
2.35	1.00
2.36	1.00
2.37	1.00
2.38	1.00
2.39	1.00
2.40	1.00
2.41	1.00
2.42	1.00
2.43	1.00
2.44	1.00
2.45	1.00
2.46	1.00
2.47	1.00
2.48	1.00
2.49	1.00
2.50	1.00
2.51	1.00
2.52	1.00
2.53	1.00
2.54	1.00
2.55	1.00
2.56	1.00
2.57	1.00
2.58	1.00
2.59	1.00
2.60	1.00
2.61	1.00
2.62	1.00
2.63	1.00
2.64	1.00
2.65	1.00
2.66	1.00
2.67	1.00
2.68	1.00
2.69	1.00
2.70	1.00
2.71	1.00
2.72	1.00
2.73	1.00
2.74	1.00
2.75	1.00
2.76	1.00
2.77	1.00
2.78	1.00
2.79	1.00
2.80	1.00
2.81	1.00
2.82	1.00
2.83	1.00
2.84	1.00
2.85	1.00
2.86	1.00
2.87	1.00
2.88	1.00
2.89	1.00
2.90	1.00
2.91	1.00
2.92	1.00
2.93	1.00
2.94	1.00
2.95	1.00
2.96	1.00
2.97	1.00
2.98	1.00
2.99	1.00
3.00	1.00

SYSTEM 622 REACTOR VESSEL INSTRUMENTATION

OYSTER CREEK INSERVICE TESTING PROGRAM
APPENDIX B TABLE 1
VALVE TEST REQUIREMENTS

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SYSTEM 622 REACTOR VESSEL INSTRUMENTATION

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION		ACTN.		BURIED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST	TEST	TEST	
V-130-009	SK	1	SA	ATC	0	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-130-010	SK	1	SA	ATC	0	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-130-021#	SK	1	SA	ATC	0	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-130-021#	SK	1	SA	ATC	0	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-130-026	SK	1	SA	ATC	0	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

OYSTER CREEK INSERVICE TESTING PROGRAM
APPENDIX B TABLE 1
VALVE TEST REQUIREMENTS

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SYSTEM 211 ISOLATION CONDENSER

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION NORM	SAFE	ACTIVE PASSIVE	REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
V-14-001	GL	.75	A	A1	O	C	A	EF1 EF5 ET SLT1 EF4		EF1 EF5 ET SLT1 EF4	CLOSE FOR CONTAINMENT ISOLATION
V-14-005	GL	.75	F	A1	O	C	A	EF1 EF5 ET SLT1 EF4		EF1 EF5 ET SLT1 EF4	CLOSE FOR CONTAINMENT ISOLATION
V-14-019	GL	.75	A	A1	O	C	A	EF1 EF5 ET SLT1 EF4		EF1 EF5 ET SLT1 EF4	CLOSE FOR CONTAINMENT ISOLATION
V-14-020	GL	.75	A	A1	C	C	A	EF1 EF5 ET SLT1 EF4		EF1 EF5 ET SLT1 EF4	CLOSE FOR CONTAINMENT ISOLATION
V-14-030	GA	10	MF	B	O	O/L	A	EF1 ET EF4		EF1 ET EF4	OPEN FOR ISOLATION CONDENSER OPERATION CLOSE FOR AUTO ISOLATION UPON PIPE BREAK

OYSTER CREEK INSERVICE TESTING PROGRAM
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 VALVE TEST REQUIREMENTS

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SYSTEM 211 ISOLATION CONDENSER

VALVE #	TYPE	SIZE	ACTUATOR	CAT	NORM	POSITION	ACTIVE	PASSIVE	REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
V-14-031	GA	10	MO	B	0	O/C	A		EF1 ET EF4		EF1 ET EF4	OPEN FOR ISOLATION CONDENSER OPERATION CLOSE FOR AUTO ISOLATION UPON PIPE BREAK
V-14-032	GA	10	MO	B	0	O/C	A		EF1 ET EF4		EF1 ET EF4	OPEN FOR ISOLATION CONDENSER OPERATION CLOSE FOR AUTO ISOLATION UPON PIPE BREAK
V-14-033	GA	10	MO	B	0	O/C	A		EF1 ET EF4		EF1 ET EF4	OPEN FOR ISOLATION CONDENSER OPERATION CLOSE FOR AUTO ISOLATION UPON PIPE BREAK
V-14-034	GA	10	MO	B	C	O/C	A		EF1 ET EF4		EF1 ET EF4	OPEN FOR ISOLATION CONDENSER OPERATION CLOSE FOR AUTO ISOLATION UPON PIPE BREAK
V-14-035	GA	10	MO	B	C	O/C	A		EF1 ET EF4		EF1 ET EF4	OPEN FOR ISOLATION CONDENSER OPERATION CLOSE FOR AUTO ISOLATION UPON PIPE BREAK

SYSTEM 211 ISOLATION CONDENSER

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION NORM	SAFE	ACTIVE PASSIVE	REQUIRED TEST	RELIEF	ACTUAL TEST	SAFETY FUNCTION
V-14-036	GA	10	MO	B	O	O/C	A	EF1 EF4 ET		EF1 EF4 ET	OPEN FOR ISOLATION CONDENSER OPERATION CLOSE FOR AUTO ISOLATION UPON PIPE BREAK
V-14-037	GA	10	MO	B	O	O/C	A	EF1 EF4 ET		EF1 EF4 ET	OPEN FOR ISOLATION CONDENSER OPERATION CLOSE FOR AUTO ISOLATION UPON PIPE BREAK
V-14-049	SK	.5	SA	A/C	O	O/C	A	EF1 SLT1	ZS ZS	EF3 ZS	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
V-14-050	SK	.5	SA	A/C	O	O/C	A	EF1 SLT1	ZS ZS	EF3 ZS	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
V-14-051	SK	.5	SA	A/C	O	O/C	A	EF1 SLT1	ZS ZS	EF3 ZS	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION

OSTER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

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SYSTEM 211 ISOLATION CONDENSER

VALVE #	TYPE	SIZE	ACTUATION	CAT	POSITION		ACTIVE		REQUIRED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST	TEST	TEST	
V-14-052	SK	.5	SA	A1C	O	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
V-14-053	SK	.5	SA	A1C	O	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
V-14-054	SK	.5	SA	A1C	O	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
V-14-055	SK	.5	SA	A1C	O	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION
V-14-056	SK	.5	SA	A1C	O	O/C	A	EF1 SLT1	Z5	Z5	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR INSTRUMENT LINE CONTAINMENT ISOLATION

OYSTER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

SYSTEM 225 CON. ROD. ROD. DRIVE

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST				
V-15(106)	SC	.5	SA	A2C	C		A	EF1 SLT1	6 52		EF2 SLT1	OPEN TO KEEP HYDRAULIC ACCUMULATORS CHARGED CLOSE TO MAINTAIN ACCUMULATOR CHARGE
V-15(108)	SC	.75	SA	C	L		A	EF1	B		EF2	OPEN TO ALLOW SUCCESSFUL SCRAM OF CONTROL ROD
V-15(126)	RD	1	A	B	C	O	A	EF1 ET EF4 EF5	S S S S		EF2 EF2 EF4 EF7	OPEN TO SCRAM CONTROL ROD
V-15(127)	RD	.75	A	B	C	O	A	EF1 ET EF4 EF5	S S S S		EF2 EF2 EF4 EF7	OPEN TO SCRAM CONTROL ROD
V-15(132)	RD	.5	SA	D	C	C	P	BD1	20			CLOSE TO MAINTAIN ACCUMULATOR CHARGE

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VALVE TEST REQUIREMENTS

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SYSTEM 225 CONTROL ROD DRIVE

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED		RELIEF		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	TEST	TEST	TEST	TEST	TEST	TEST	
V-15-121	GA	2	A	A	O	O/C	A	EF1	44	44	44	44	EF1	EF1	OPEN TO KEEP SCRAM DUMP VOLUME DRAINED CLOSE TO ISOLATE SCRAM DUMP VOL
								ET	44	44	44	44	ET	ET	
								EF5	44	44	44	44	EF6	EF6	
								EF4					EF4	EF4	
V-15-133	GA	2	A	B	O	O/C	A	EF1	44	44	44	44	EF1	EF1	OPEN TO KEEP SCRAM DUMP VOLUME DRAINED CLOSE TO ISOLATE SCRAM DUMP VOLUME
								ET	44	44	44	44	ET	ET	
								EF5	44	44	44	44	EF6	EF6	
								EF4					EF4	EF4	
V-15-134	GA	2	A	F	O	O/C	A	EF1	44	44	44	44	EF1	EF1	OPEN TO KEEP SCRAM DUMP VOLUME DRAINED CLOSE TO ISOLATE SCRAM DUMP VOLUME
								ET	44	44	44	44	ET	ET	
								EF5	44	44	44	44	EF6	EF6	
								EF4					EF4	EF4	
V-15-135	GA	2	A	B	O	O/C	A	EF1	44	44	44	44	EF1	EF1	OPEN TO KEEP SCRAM DUMP VOLUME DRAINED CLOSE TO ISOLATE SCRAM DUMP VOLUME
								ET	44	44	44	44	ET	ET	
								EF5	44	44	44	44	EF6	EF6	
								EF4					EF4	EF4	
V-15-136	GA	1	A	B	O	O/C	A	EF1	44	44	44	44	EF1	EF1	OPEN TO KEEP SCRAM DUMP VOLUME DRAINED CLOSE TO ISOLATE SCRAM DUMP VOLUME
								ET	44	44	44	44	ET	ET	
								EF5	44	44	44	44	EF6	EF6	
								EF4					EF4	EF4	

OSTER CREEK INSERVICE TESTING PROGRAM

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VALVE TEST REQUIREMENTS

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SYSTEM 225 CONTROL ROD DRIVE

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST	
V-15-137	GA	1	A	B	O	O/C	A	EF1	42	EF1	OPEN TO KEEP SCRAM DUMP VOLUME DRAINED
								ET	44	ET	CLOSE TO ISOLATE SCRAM DUMP VOLUME
								EF3	44	EF3	
								EF4		EF4	

OSTER CREEK IN-SERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

SYSTEM 215 CLEANUP

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED TEST	RELIEF TEST	ACTUAL TEST		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST			TEST		
V-16-001	GA	1	MO	A1	O	C	A	EF1 EF4 SLT1 ET	S1		EF1 EF4 SLT1 ET	CLOSE FOR CONTAINMENT ISOLATION	
V-16-002	GA	6	MO	A1	O	C	A	EF1 EF4 SLT1 ET	S1		EF1 EF4 SLT1 ET	CLOSE FOR CONTAINMENT ISOLATION	
V-16-014	GA	6	MO	A1	O	C	A	EF1 EF4 SLT1 ET	S1		EF1 EF4 SLT1 ET	CLOSE FOR CONTAINMENT ISOLATION	
V-16-030	GA	.5	S	A1	C	C	P	SLT1			SLT1	CLOSE FOR CONTAINMENT ISOLATION	
V-16-061	GA	6	MO	A1	O	C	A	EF1 EF4 SLT1 ET	S1		EF1 EF4 SLT1 ET	CLOSE FOR CONTAINMENT ISOLATION	

SYSTEM 215 CLEARING

OYSTER CREEK INSERVICE TESTING PROGRAM
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 VALVE TEST REQUIREMENTS

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SYSTEM 214 SHUTDOWN COOLING

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION	ACTIVE	REQUIRED	ACTUAL	SAFETY FUNCTION
					NORM	SAFE	TEST	TEST	
						PASSIVE	TEST	TEST	
V-17-001	GA	10	MO	B	O/C	C	EF1 ET EF4	EF2 ET EF4	CLOSE FOR SYSTEM ISOLATION
V-17-002	GA	10	MO	B	O/C	C	EF1 ET EF4	EF2 ET EF4	CLOSE FOR SYSTEM ISOLATION
V-17-003	GA	10	MO	B	O/C	C	EF1 ET EF4	EF2 ET EF4	CLOSE FOR SYSTEM ISOLATION
V-17-019	GA	14	MO	B	O/C	C	EF1 EF4 ET	EF2 EF4 ET	CLOSE FOR SYSTEM ISOLATION
V-17-054	GA	14	MO	B	O/C	C	EF1 EF4 ET	EF2 EF4 ET	CLOSE FOR SYSTEM ISOLATION

CLUSTER CREEK INTERSERVICE TESTING PROGRAM
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 VALVE TEST REQUIREMENTS

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SYSTEM 274 SHUTDOWN COOLING

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION	ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
					NORM	SAFE	PASSING	TEST	TEST	
V-17-055	GL	8	MO	B	O/C	C	A	EF1 ET EF4	1 EF2 ET EF4	CLOSE FOR SYSTEM ISOLATION
V-17-056	GL	8	MO	B	O/C	C	A	EF1 ET EF4	1 EF2 ET EF4	CLOSE FOR SYSTEM ISOLATION
V-17-057	GL	8	MO	B	O/C	C	A	EF1 ET EF4	1 EF2 ET EF4	CLOSE FOR SYSTEM ISOLATION

OSTER CREEK INSERVICE TESTING PROGRAM
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QUALITY TEST RESULTS

SYSTEM 251 FUEL POOL COOLING

OYSTER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

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SYSTEM 213 STANDBY LIQUID CONTROL

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE PASSIVE	REQUIRED TEST	RELIEF	ACTUAL TEST	SAFETY FUNCTION
					NORM	SAFE					
V-19-016	CK	1.5	SA	ATC	C	O/C	A	EF1 SLT1	2	EF3 SLT1	OPEN FOR LIQUID POISON INJECTION CLOSE FOR CONTAINMENT ISOLATION
V-19-020	CK	1.5	SA	ATC	C	O/C	A	EF1 SLT1	2	EF3 SLT1	OPEN FOR LIQUID POISON INJECTION CLOSE FOR CONTAINMENT ISOLATION
V-19-037	CK	1.5	SA	C	C	O/C	A	EF1	43	EF1	OPEN FOR LIQUID POISON PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-19-038	CK	1.5	SA	C	C	O/C	A	EF1	43	EF1	OPEN FOR LIQUID POISON PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-19-042	RL	1	SA	C	C	O/C	A	TF1		TF1	OPEN FOR PRESSURE RELIEF CLOSE TO PREVENT SYSTEM FLOW LOSSES

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 VALVE TEST REQUIREMENTS

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SYSTEM 213 STANDBY LIQUID CONTROL

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION NORM	SAFE	ACTIVE PASSIVE	REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY ACTION
V-19-043	RL	1	SA	C	C	O/C	A	TF1		TF1	OPEN FOR PRESSURE RELIEF CLOSE TO PREVENT SYSTEM FLOW LOSSES
V-19-044	PG	1.5	XP	D	C	O	A	XP1		XP1	OPEN FOR POISON INJECTION TO REACTOR VESSEL
V-19-045	PG	1.5	XP	D	C	O	A	XP1		XP1	OPEN FOR POISON INJECTION TO REACTOR VESSEL

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VALVE TEST REQUIREMENTS

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SYSTEM 212 CORE SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST		TEST	
V-20-003	GA	12	MO	B	O	O	P	EF4		EF4	OPEN FOR CORE SPRAY PUMP SUCTION
V-20-004	GA	12	MO	B	O	O	P	EF4		EF4	OPEN FOR CORE SPRAY PUMP SUCTION
V-20-008	CK	B	SA	C	C	O/C	A	EF1	42	EF1 IN3	OPEN FOR CORE SPRAY MAIN PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-20-009	CK	B	SA	C	C	O/C	A	EF1	42	EF1 IN3	OPEN FOR CORE SPRAY MAIN PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-20-012	GA	S	MO	B	O/C	O	A	EF1 ET EF4		EF1 ET EF4	OPEN FOR CORE SPRAY INJECTION TO REACTOR

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VALVE TEST REQUIREMENTS

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SYSTEM 212 CORE SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE	REQUIRED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE		PASSIVE	TEST	RELIEF	TEST	
V-20-015	GA	8	MO	A2	C	O/C	A	EF1 ET SLT1 EF4		EF1 ET SLT1 EF4	OPEN FOR CORE SPRAY INJECTION TO REACTOR CLOSE FOR PRIMARY COOLANT PRESSURE BOUNDARY	
V-20-016	OK	8	SA	C	C	O/C	A	EF1	A2	EF1 IN3	OPEN FOR CORE SPRAY MAIN PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW	
V-20-018	GA	8	MO	B	O/C	O	A	EF1 ET EF4		EF1 ET EF4	OPEN FOR CORE SPRAY INJECTION TO REACTOR	
V-20-021	GA	8	MO	A2	C	O/C	A	EF1 ET SLT1 EF4		EF1 ET SLT1 EF4	OPEN FOR CORE SPRAY INJECTION TO REACTOR CLOSE FOR PRIMARY COOLANT PRESSURE BOUNDARY	
V-20-022	OK	8	SA	C	C	O/C	A	EF1	A2	EF1 IN3	OPEN FOR CORE SPRAY MAIN PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW	

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VALVE TEST REQUIREMENTS

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SYSTEM 212 CORE SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED		ACTUAL		SAFETY FUNCTION
					MAN	SAFE	PASSIVE	TEST	RELIEF	TEST	TEST	TEST	
V-20-031	CV	8	SA	C	C	O	A	EF1			EF1		OPEN TO PASS PUMP MINIMUM FLOW
V-20-032	GA	12	MO	B	O	O	P	EF4			EF4		OPEN FOR CORE SPRAY PUMP SUCTION
V-20-033	GA	12	MO	B	O	O	P	EF4			EF4		OPEN FOR CORE SPRAY PUMP SUCTION
V-20-040	GA	8	MO	A2	C	O/C	A	EF1 ET SLT1 EF4			EF1 ET SLT1 EF4		OPEN FOR CORE SPRAY INJECTION TO REACTOR CLOSE FOR PRIMARY COOLANT PRESSURE BOUNDARY
V-20-041	GA	8	MO	A2	C	O/C	A	EF1 ET SLT1 EF4			EF1 ET SLT1 EF4		OPEN FOR CORE SPRAY INJECTION TO REACTOR CLOSE FOR PRIMARY COOLANT PRESSURE BOUNDARY

DYSTER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

SYSTEM 212 CORE SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION		ACTIVE		REQUIRED TEST	RELIEF	ACTUAL TEST		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST			TEST		
V-20-050	OK	10	SA	C	C	O/C	A	EF1	45		EF1 IN3		OPEN FOR CORE SPRAY MAIN PUMP FLOW CLOSE FOR CORE SPRAY BOOSTER PUMP FLOW
V-20-051	OK	10	SA	C	C	O/C	A	EF1	45		EF1 IN3		OPEN FOR CORE SPRAY MAIN PUMP FLOW CLOSE FOR CORE SPRAY BOOSTER PUMP FLOW
V-20-052	OK	10	SA	C	C	O/C	A	EF1	37		EF1 IN3		OPEN FOR CORE SPRAY BOOSTER PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-20-053	OK	10	SA	C	C	O/C	A	EF1	37		EF1 IN3		OPEN FOR CORE SPRAY BOOSTER PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-20-054	OK	10	SA	C	C	O/C	A	EF1	37		EF1 IN3		OPEN FOR CORE SPRAY BOOSTER PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW

OSTER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

SYSTEM 212 CORE SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED TEST	RELIEF	ACTUAL TEST	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST				
V-20-055	OK	10	SA	C	C	O/C	A	EF1	37		EF1 INS	OPEN FOR CORE SPRAY BOOSTER PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-20-060	OK	6	SA	C	C	O/C	A	EF1	11		INS	OPEN FOR FIRE WATER INJECTION TO REACTOR CLOSE TO PREVENT CROSS CONTAMINATION OF SYSTEMS
V-20-061	OK	6	SA	C	C	O/C	A	EF1	11		INS	OPEN FOR FIRE WATER INJECTION TO REACTOR CLOSE TO PREVENT CROSS CONTAMINATION OF SYSTEMS
V-20-082	GA	6	M	B	C	O/C	A	EF1			EF1	OPEN FOR FIRE WATER INJECTION TO REACTOR CLOSE TO PREVENT CROSS CONTAMINATION OF SYSTEMS
V-20-083	GA	6	M	B	C	O/C	A	EF1			EF1	OPEN FOR FIRE WATER INJECTION TO REACTOR CLOSE TO PREVENT CROSS CONTAMINATION OF SYSTEMS

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VALVE TEST REQUIREMENTS

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SYSTEM 212 100% PRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE PASSIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE		TEST	RELIEF	TEST	
V-20-088	CK	6	SA	C	C	D/C	A	EF1	11	IN3	OPEN FOR FIRE WATER INJECTION TO REACTOR CLOSE TO PREVENT CROSS CONTAMINATION OF SYSTEMS
V-20-089	CK	6	SA	C	C	D/C	A	EF1	11	IN3	OPEN FOR FIRE WATER INJECTION TO REACTOR CLOSE TO PREVENT CROSS CONTAMINATION OF SYSTEMS
V-20-092	GL	1.5	A	B	C	D	A	EF1 EF5 ET EF4		EF1 EF5 ET EF4	OPEN FOR MINIMUM FLOW PROTECTION OF PUMPS
V-20-093	GL	1.5	A	B	C	D	A	EF1 EF5 ET EF4		EF1 EF5 ET EF4	OPEN FOR MINIMUM FLOW PROTECTION OF PUMPS
V-20-094	GL	1.5	A	B	C	D	A	EF1 EF5 ET EF4		EF1 EF5 ET EF4	OPEN FOR MINIMUM FLOW PROTECTION OF PUMPS

DOYSTER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

SYSTEM 212 CO-E SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	LAT	NC/M	POSITION	ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
						SAFE	PASSIVE	TEST	TEST	TEST	
V-20-125	GL	1.5	A	B	C	D	A	EF1 EF5 ET EF4		EF1 EF5 ET EF4	OPEN FOR MINIMUM FLOW PROTECTION OF PUMPS
V-20-116	CK	1	SA	C	D	C	A	EF1		EF1	CLOSE TO PREVENT SYSTEM FLOW LOSSES
V-20-119	CK	1	SA	C	D	C	A	EF1		EF1	CLOSE TO PREVENT SYSTEM FLOW LOSSES
V-20-150	CK	8	SA	A2C	C	D/C	A	EF1 EF4 SLT1	10	EF2 EF4 SLT1	OPEN FOR CORE SPRAY INJECTION TO REACTOR CLOSE FOR PRIMARY COOLANT PRESSURE BOUNDARY
V-20-151	CK	8	SA	A2C	C	D/C	A	EF1 EF4 SLT1	10	EF2 EF4 SLT1	OPEN FOR CORE SPRAY INJECTION TO REACTOR CLOSE FOR PRIMARY COOLANT PRESSURE BOUNDARY

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VALVE TEST REQUIREMENTS

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SYSTEM 212 CORE SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE PASSIVE	REQUIRED TEST		RELIEF	ACTUAL TEST	SAFETY FUNCTION
					NORM	SAFE		TEST	TEST			
V-20-152	CK	B	SA	A2C	C	O/C	A	EF1 EF4 SLT1		10	EF2 EF4 SLT1	OPEN FOR CORE SPRAY INJECTION TO REACTOR CLOSE FOR PRIMARY COOLANT PRESSURE BOUNDARY
V-20-153	CK	B	SA	A2C	C	O/C	A	EF1 EF4 SLT1		10	EF2 EF4 SLT1	OPEN FOR CORE SPRAY INJECTION TO REACTOR CLOSE FOR PRIMARY COOLANT PRESSURE BOUNDARY
V-20-172	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1		25 27	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-20-173	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1		25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

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VALVE TEST REQUIREMENTS

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SYSTEM 24 CONTAINMENT SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAI	NORM	POSITION	ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
V-21-001	GA	12	MO	B	O	O	P	EF4		EF4	OPEN FOR CONTAINMENT SPRAY PUMP SUCTION
V-21-002	CK	10	SA	C	C	O/C	A	EF1		EF1	OPEN FOR CONTAINMENT SPRAY PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-21-003	GA	12	MO	B	O	O	P	EF4		EF4	OPEN FOR CONTAINMENT SPRAY PUMP SUCTION
V-21-004	CK	10	SA	C	C	O/C	A	EF1		EF1	OPEN FOR CONTAINMENT SPRAY PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-21-005	GA	14	MO	B	O	O/C	A	EF1 EF1 EF4		EF1 EF1 EF4	OPEN FOR DRYWELL SPRAY MODE CLOSE FOR TORUS COOLING MODE

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VALVE TEST REQUIREMENTS

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SYSTEM 241 CONTAINMENT S/L JAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST	TEST	TEST	
V-21-007	GA	12	MO	B	O	O	P	EF4			EF4		OPEN FOR CONTAINMENT SPRAY PUMP SUCTION
V-21-008	K	10	SA	C	C	O/C	A	EF*			EF*		OPEN FOR CONTAINMENT SPRAY PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-21-009	LA	12	MO	B	O	O	P	EF4			EF4		OPEN FOR CONTAINMENT SPRAY PUMP SUCTION
V-21-010	CK	10	SA	C	C	O/C	A	EF1			EF1		OPEN FOR CONTAINMENT SPRAY PUMP FLOW CLOSE FOR PARALLEL PUMP FLOW
V-21-011	GA	14	MO	B	O	O/C	A	EF1 ET EF4			EF1 ET EF4		OPEN FOR DRYWELL SPRAY MODE CLOSE FOR TORUS COOLING MODE

OYSTER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

SYSTEM 241 CONTAINMENT SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED TEST	RELIEF	ACTUAL TEST	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST				
V-21-013	GA	6	MO	B	C	O/C	A	EF1 ET EF4			EF1 ET EF4	OPEN FOR TORUS COOLING MODE CLOSE FOR DRYWELL SPRAY MODE
V-21-014	GA	4	MO	A2	C	O/C	A	EF1 ET EF4 SLT1	47		EF1 ET EF4 SLT1	OPEN FOR SPRAY DOWN OF TORUS CLOSED TO PREVENT PRESSURIZING TORUS
V-21-017	GA	6	MO	B	C	O/C	A	ET EF1 EF4			ET EF1 EF4	OPEN FOR TORUS COOLING MODE CLOSE FOR DRYWELL SPRAY MODE
V-21-018	GA	4	MO	A2	C	O/C	A	EF1 ET EF4 SLT1	47		EF1 ET EF4 SLT1	OPEN FOR SPRAY DOWN OF TORUS CLOSED TO PREVENT PRESSURIZING TORUS
V-21-021	RL	.75	SA	C	C	O	A	TF1	53		TF1	OPEN FOR THERMAL RELIEF OF SYSTEM

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VALVE TEST REQUIREMENTS

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SYSTEM 241 CONFINEMENT SPRAY

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE		TEST	REF	TEST		
V-21-22	RL	.75	SA	C	C	O	A		TF1	S3	TF1		OPEN FOR THERMAL RELIEF OF SYSTEM
V-21-23	RL	.75	SA	C	C	O	A		TF1	S3	TF1		OPEN FOR THERMAL RELIEF OF SYSTEM
V-21-24	RL	.75	SA	C	C	O	A		TF1	S3	TF1		OPEN FOR THERMAL RELIEF OF SYSTEM

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VALVE TEST REQUIREMENTS

SYSTEM 573 DRYWELL FLOOR AND EQUIP DRAINS

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION NORM	SAFE	ACTIVE PASSIVE	REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
V-22-001	GA	2	A	A1	O	C	A	EF1 EF5 ET		EF1 EF5 ET	CLOSE FOR CONTAINMENT/ ISOLATION
								SLT1 EF4	51	SLT1 EF4	
V-22-002	GA	2	A	A1	O	C	A	EF1 EF5 ET		EF1 EF5 ET	CLOSE FOR CONTAINMENT ISOLATION
								SLT1 EF4	51	SLT1 EF4	
V-22-028	GA	2	A	A1	O	C	A	EF1 EF5 ET		EF1 EF5 ET	CLOSE FOR CONTAINMENT ISOLATION
								SLT1 EF4	51	SLT1 EF4	
V-22-029	GA	2	A	A1	O	C	A	EF1 EF5 ET		EF1 EF5 ET	CLOSE FOR CONTAINMENT ISOLATION
								SLT1 EF4	51	SLT1 EF4	

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 VALVE TEST REQUIREMENTS

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SYSTEM 742 CONTAINMENT INERTING

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION		ACTIVE		REQUIRED		RELIEF		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	PASSIVE	TEST	TEST	TEST	TEST	TEST	TEST	
V-23-013	BF	8	A	A1	O/C	C	A		ET				ET		CLOSE FOR CONTAINMENT ISOLATION
									EF1				EF1		
									EF4		51		EF4		
									SLT1				SLT1		
									EF5				EF5		
V-23-014	BF	8	A	A1	O/C	C	A		ET				ET		CLOSE FOR CONTAINMENT ISOLATION
									EF1				EF1		
									EF4		51		EF4		
									SLT1				SLT1		
									EF5				EF5		
V-23-015	BF	8	A	A1	O/C	C	A		ET				ET		CLOSE FOR CONTAINMENT ISOLATION
									EF1				EF1		
									EF4		51		EF4		
									SLT1				SLT1		
									EF5				EF5		
V-23-016	BF	8	A	A1	O/C	C	A		ET				ET		CLOSE FOR CONTAINMENT ISOLATION
									EF1				EF1		
									EF4		51		EF4		
									SLT1				SLT1		
									EF5				EF5		
V-23-017	GL	2	A	A1	O/C	C	A		ET				ET		CLOSE FOR CONTAINMENT ISOLATION
									EF1				EF1		
									EF4		51		EF4		
									SLT1				SLT1		
									EF5				EF5		

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VALVE TEST REQUIREMENTS

SYSTEM 242 CONTAINMENT INERTING

VALVE #	TYPE	SIZE	ACTUATOR	CA	POSITION		ACTIVE	REQUIRED TEST		RELIEF	ACTUAL TEST		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	TEST		TEST	TEST	
V-23-018	GL	2	A	A1	D/C	C	A	ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								EF1			EF1		
								EF4		51	EF4		
								SLT1			SLT1		
								EF5			EF5		
V-23-019	GL	2	A	A1	D/C	C	A	ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								EF1			EF1		
								EF4		51	EF4		
								SLT1			SLT1		
								EF5			EF5		
V-23-020	GL	2	A	A1	D/C	C	A	ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								EF1			EF1		
								EF4			EF4		
								SLT1			SLT1		
								EF5			EF5		
V-23-021	GA	2	A	A1	D/C	C	A	ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								EF1			EF1		
								EF4		51	EF4		
								SLT1			SLT1		
								EF5			EF5		
V-23-022	GA	2	A	A1	D/C	C	A	ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								EF1			EF1		
								EF4		51	EF4		
								SLT1			SLT1		
								EF5			EF5		

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VALVE TEST REQUIREMENTS

SYSTEM 551 WFACTOR SAMPLE

VALVE #	TYPE	SIZE	ACTUATOR	CAT	ACORN	POSITION		ACTIVE		REQUIRED		RELIEF		ACTUAL		SAFE / FUNCTION
						SAFE	ACTIVE	PASSIVE	TEST	TEST	TEST	TEST	TEST	TEST	TEST	
V-24-029	GL	1/2"	A	A1	D	C		A	EF1 EF5 ET SLT1			46		EF1 EF5 SLT1		CLOSE FOR CONTAINMENT ISOLATION
V-24-030	GL	1/2"	F	A1	D	C			EF1 EF5 ET SLT1			46		EF1 EF5 SLT1		CLOSE FOR CONTAINMENT ISOLATION

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 VALVE TEST REQUIREMENTS

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SYSTEM 243 DRYWELL AND SUPPRESSION

VALVE #	TYPE	SIZE	ACTUATOR	CA1	NORM	POSITION	ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
V-26-001	CK	18	SA	A2C	C	O/C	A	EF1		EF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
								SLT1	47	SLT1	
								EF4		EF4	
								TF1		TF1	
V-26-002	CK	18	SA	A2C	C	O/C	A	EF1		EF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
								SLT1	47	SLT1	
								EF4		EF4	
								TF1		TF1	
V-26-003	CK	18	SA	A2C	C	O/C	A	EF1		EF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
								SLT1	47	SLT1	
								EF4		EF4	
								TF1		TF1	
V-26-004	CK	18	SA	A2C	C	O/C	A	EF1		EF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
								SLT1	47	SLT1	
								EF4		EF4	
								TF1		TF1	
V-26-005	CK	18	SA	A2C	C	O/C	A	EF1		EF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
								SLT1	47	SLT1	
								EF4		EF4	
								TF1		TF1	

HYSTER CR6 X 1 1/4" TRIVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

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SYSTEM 243 DRYWELL AND SUPPRESSION

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
					NORM	SAFE					
V-26-006	CK	18	SA	A2C	C	D/C	A	EF1 SLT1 EF4 TF1	47	EF1 SLT1 EF4 TF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
V-26-007	CK	18	SA	A2C	C	D/C	A	EF1 SLT1 EF4 TF1	47	EF1 SLT1 EF4 TF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
V-26-008	CK	18	SA	A2C	C	D/C	A	EF1 SLT1 EF4 TF1	47	EF1 SLT1 EF4 TF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
V-26-009	CK	18	SA	A2C	C	D/C	A	EF1 SLT1 EF4 TF1	47	EF1 SLT1 EF4 TF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS
V-26-010	CK	18	SA	A2C	C	D/C	A	EF1 SLT1 EF4 TF1	47	EF1 SLT1 EF4 TF1	OPEN TO PROVIDE VACUUM RELIEF TO DRYWELL CLOSE TO PREVENT PRESSURIZING TORUS

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VALVE TEST REQUIREMENTS

SYSTEM 243 DRYWELL AND SUPPRESSION

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE PASSING	REQUIRED TEST		RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
					NORM	SAFE		TEST	RELIEF			
V-26-016	BF	20	A	A3	C	O/C	A	ET			ET	OPEN TO PROVIDE VACUUM RELIEF TO TORUS CLOSE FOR CONTAINMENT ISOLATION
								EF1			EF1	
								SLT1			SLT1	
								EF4			EF4	
								EF5			EF5	
								TF1			TF1	
V-26-017	OK	20	SA	A3C	C	O/C	A	EF1			EF1	OPEN TO PROVIDE VACUUM RELIEF TO TORUS CLOSE FOR CONTAINMENT ISOLATION
								SLT1			SLT1	
								TF1			TF1	
V-26-018	BF	20	A	A3	C	O/C	A	ET			ET	OPEN TO PROVIDE VACUUM RELIEF TO TORUS CLOSE FOR CONTAINMENT ISOLATION
								EF1			EF1	
								SLT1			SLT1	
								EF4			EF4	
								EF5			EF5	
								TF1			TF1	

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VALVE TEST REQUIREMENTS

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SYSTEM 822 REACTOR BLDG VENTILATION

VALVE #	TYPE	SIZE	ACTUATOR	CAL	POSITION		ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	TEST	TEST	
V-27-001	BF	18	A	A1	O/C	C	A	ET		ET	CLOSE FOR CONTAINMENT ISOLATION
								EF1		EF1	
								SLT1		SLT1	
								EF4	S1	EF4	
								EF5		EF5	
V-27-002	BF	18	A	A1	O/C	C	A	ET		ET	CLOSE FOR CONTAINMENT ISOLATION
								EF1		EF1	
								SLT1		SLT1	
								EF4	S1	EF4	
								EF5		EF5	
V-27-003	BF	18	A	A1	O/C	C	A	ET		ET	CLOSE FOR CONTAINMENT ISOLATION
								EF1		EF1	
								SLT1		SLT1	
								EF4	S1	EF4	
								EF5		EF5	
V-27-004	BF	18	A	A1	O/C	C	A	ET		ET	CLOSE FOR CONTAINMENT ISOLATION
								EF1		EF1	
								SLT1		SLT1	
								EF4	S1	EF4	
								EF5		EF5	
V-28-017	BF	12	A	A1	O/C	C	A	ET		ET	CLOSE FOR CONTAINMENT ISOLATION
								EF1		EF1	
								SLT1		SLT1	
								EF5	S1	EF5	
								EF4		EF4	

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 VALVE TEST REQUIREMENTS

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SYSTEM 822 REACTOR BLDG VENTILATION

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST	
V-28-018	BF	12	A	A1	O/C	C	A	ET		ET	CLOSE FOR CONTAINMENT ISOLATION
								EF4		EF1	
								SLT1		SLT1	
								EF5		EF5	
								EF4	SI	EF4	
V-28-047	GA	2	A	A1	O/C	C	A	ET		ET	CLOSE FOR CONTAINMENT ISOLATION
								EF1		EF1	
								SLT1		SLT1	
								EF5		EF5	
								EF4	SI	EF4	

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VALVE TEST REQUIREMENTS

SYSTEM 216 HEAD COOLING

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSN	ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
					NORM	PASSIVE	TEST	TEST	TEST	
V-31-002	GA	2	A	A1	C	P	EP4 SLT1	51 12A	ET4 SLT1	CLOSE FOR CONTAINMENT ISOLATION
V-31-005	CK	2	S4	A1C	C	P	SLT1	12A	SLT1	CLOSE FOR CONTAINMENT ISOLATION

OYSTER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

SYSTEM 223 RECIRCULATION

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION NORM	SAFE	ACTIVE PASSIVE	REQUIRED TEST	RELIEF	ACTUAL TEST	SAFETY FUNCTION
V-37-005	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-006	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-007	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-008	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-016	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

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VALVE TEST REQUIREMENTS

SYSTEM 223 RECIRCULATION

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION			ACTIVE		REQUIRED TEST	RELIEF	ACTUAL TEST	SAFETY FUNCTION
					NORM	SAFE		PASSIVE					
V-37-017	SK	0.5	SA	A1C	C	O/C		A		EF1 SLT1	Z5 Z5	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-018	SK	0.5	SA	A1C	D	O/C		A		EF1 SLT1	Z5 Z5	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-019	SK	0.5	SA	A1C	D	O/C		A		EF1 SLT1	Z5 Z5	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-027	SK	0.5	SA	A1C	O	O/C		A		EF1 SLT1	Z5 Z5	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-028	SK	0.5	SA	A1C	C	O/C		A		EF1 SLT1	Z5 Z5	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

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SYSTEM 223 RECIRCULATION

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST		TEST	
V-37-030	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-038	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-039	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-040	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-041	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

CHRYSLER CREEK INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

SISTEN 223 RECIRCULATION

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION NORM	SAFE	ACTIVE PASSIVE	REQUIRED TEST	RELIEF TEST	ACTUAL TEST	SAFETY FUNCTION
V-37-049	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-050	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-051	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-052	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-059	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

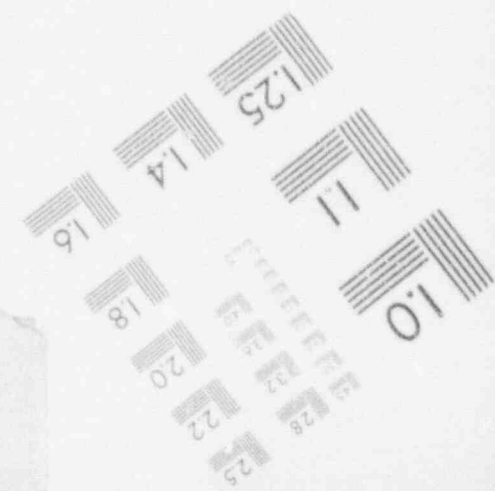
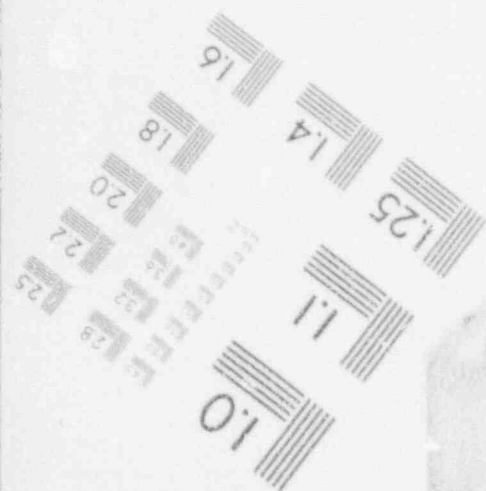
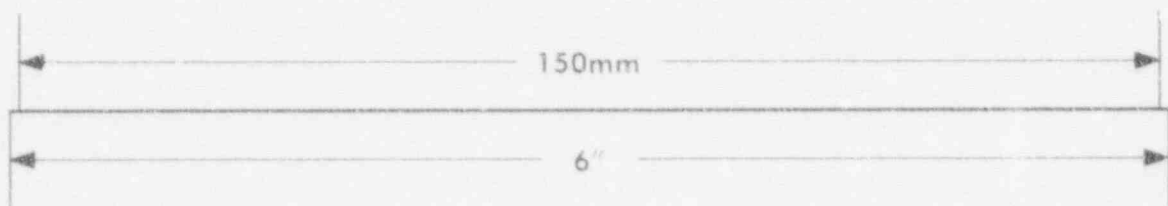
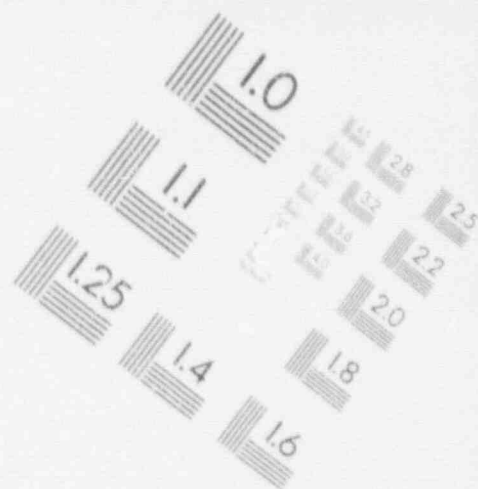
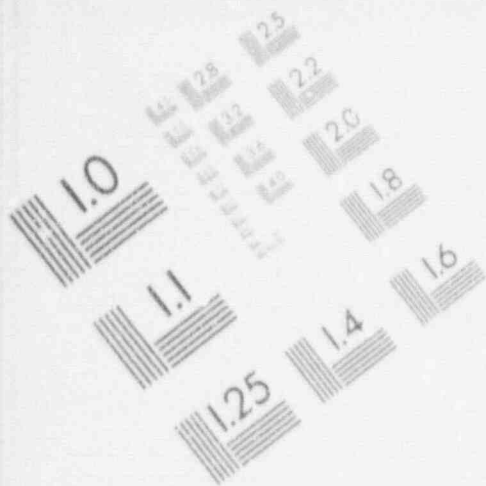
OYSTER CREEK IN-SERVICE TESTING PROGRAM
APPENDIX B TABLE 1
VALVE TEST REQUIREMENTS

SYSTEM 223 RECIRCULATION

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE		PASSIVE	TEST		
V-37-066	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-068	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-069	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-070	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-071	SK	0.5	SA	ATC	0	O/C	A	EF1 SLT1	25 25	EF3	OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

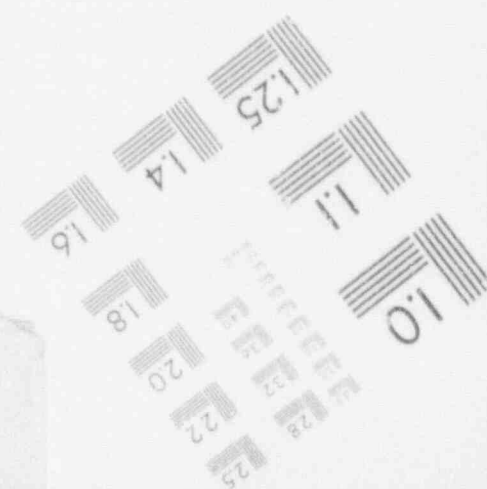
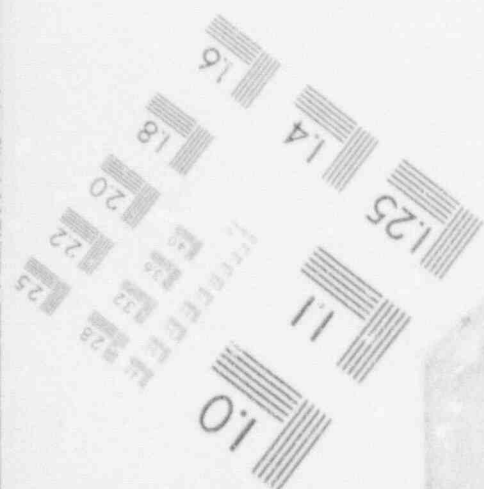
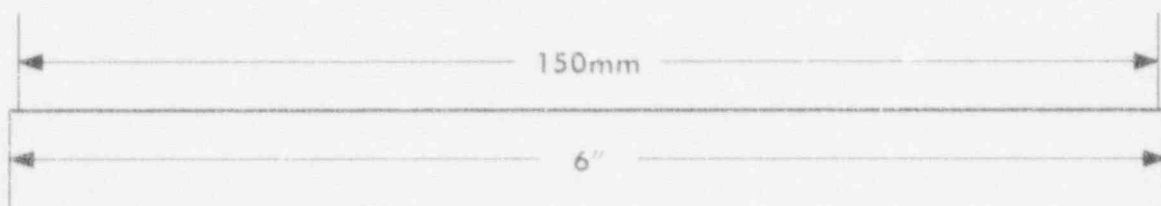
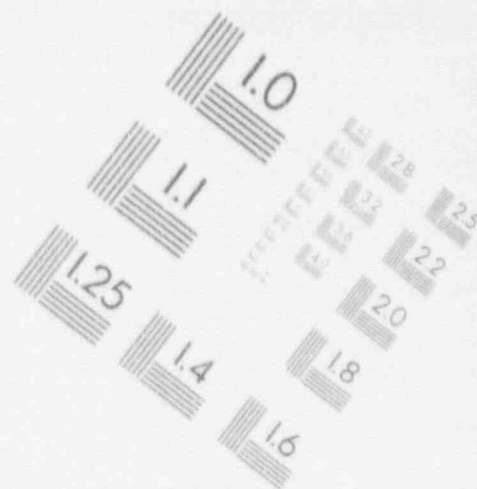
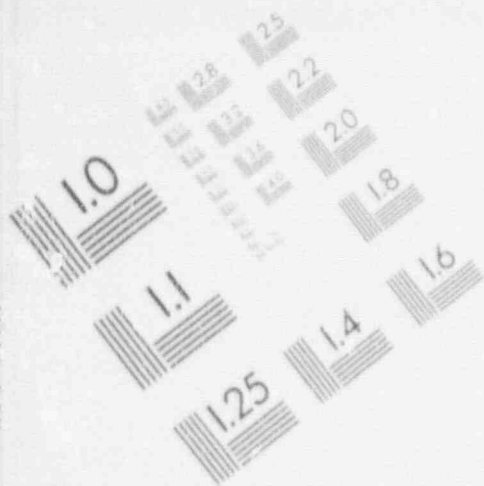
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IMAGE EVALUATION
TEST TARGET (MT-3)



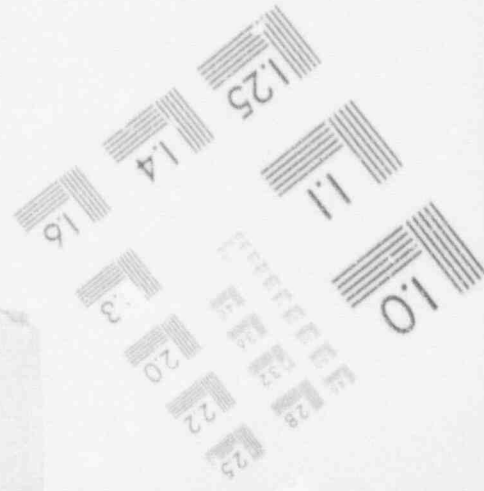
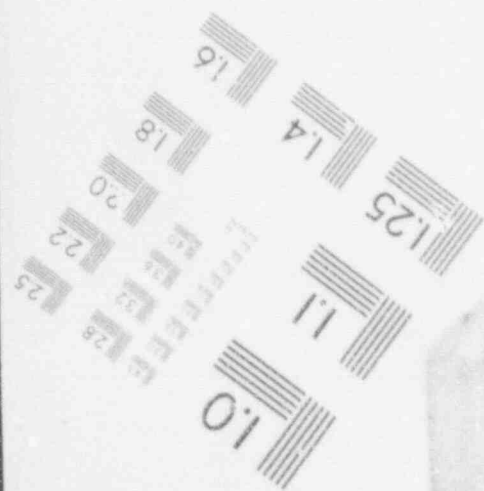
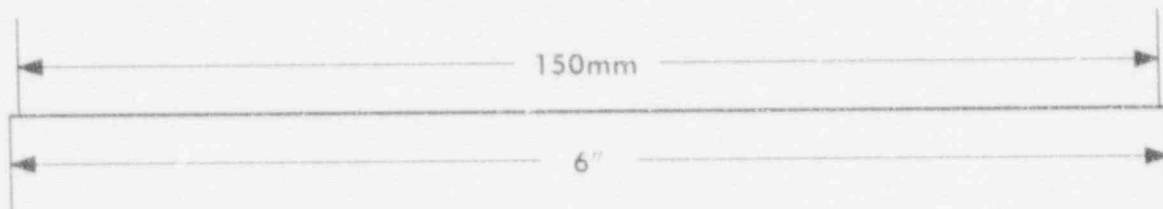
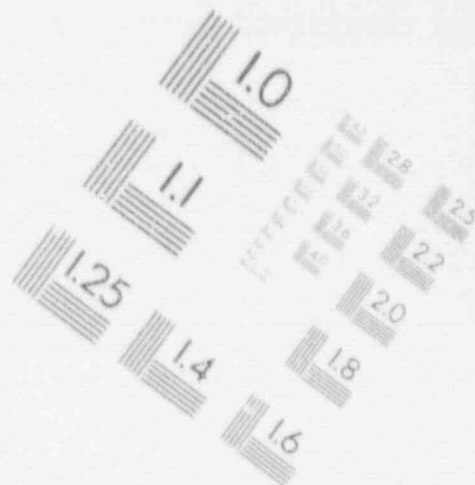
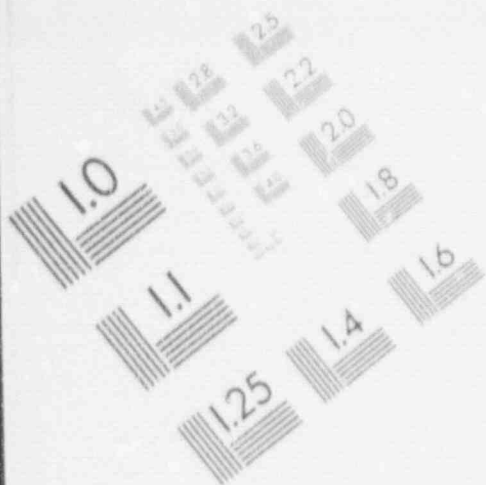
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IMAGE EVALUATION
TEST TARGET (MT-3)



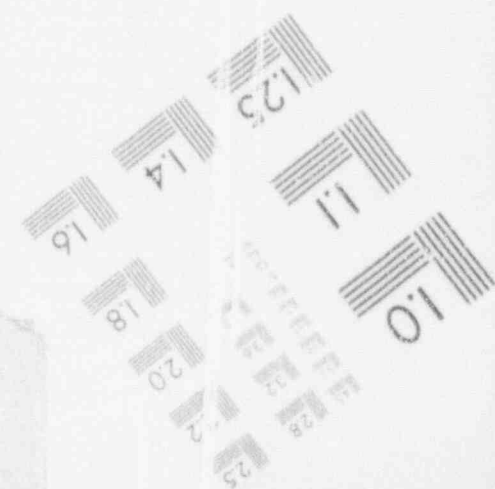
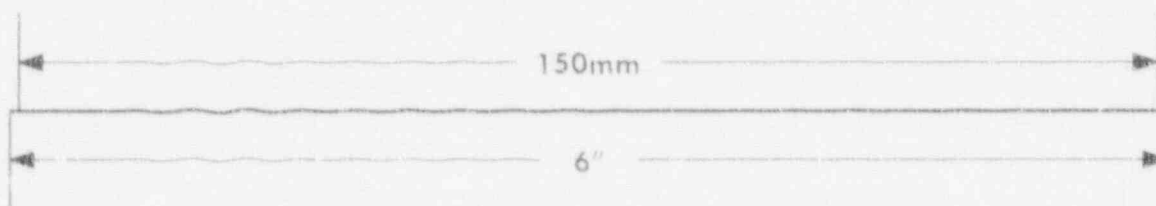
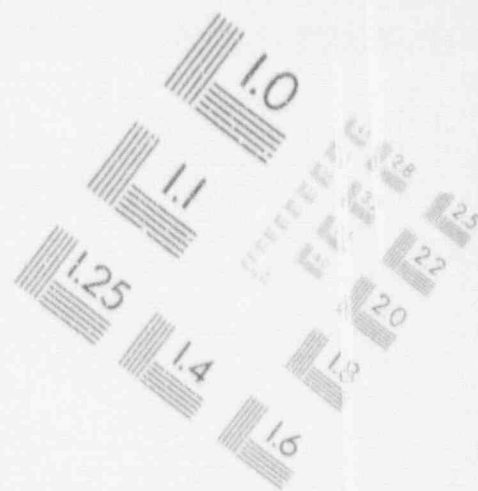
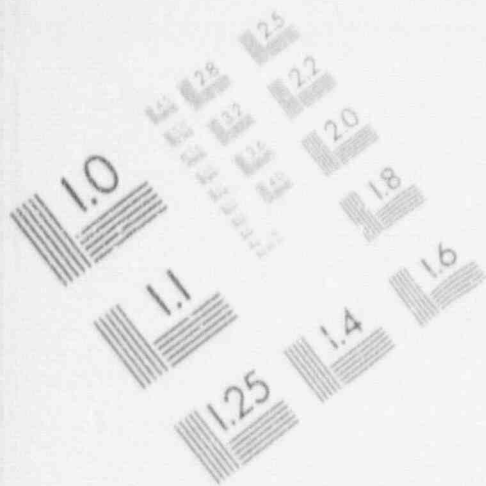
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IMAGE EVALUATION
TEST TARGET (MT-3)



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IMAGE EVALUATION
TEST TARGET (MT-3)



OYSTER CREEK INSERTION TEST PROGRAM

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VALVE TEST REQUIREMENTS

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SYSTEM 223 RECIRCULATION

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST		
V-37-072	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-073	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-074	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION
V-37-075	SK	0.5	SA	A1C	O	O/C	A	EF1 SLT1	25 25	EF3		OPEN FOR INSTRUMENT OPERABILITY CLOSE FOR CONTAINMENT ISOLATION

Oyster Creek INSERVICE TESTING PROGRAM
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VALVE TEST REQUIREMENTS

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SYSTEM 666 HYDROGEN/OXYGEN MONITORING

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE PASSIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE		TEST	RELIEF	TEST	
V-38-009	GL	3/4	S	A1	D	C	A	EF1	40	EF3	CLOSE FOR CONTAINMENT ISOLATION
								EF5	40	EF7	
								SLT1		SLT1	
V-38-010	GL	3/4	S	A1	D	C	A	EF1	40	EF3	CLOSE FOR CONTAINMENT ISOLATION
								EF5	40	EF7	
								SLT1		SLT1	
V-38-016	GL	3/4	S	A1	C	C	A	EF1	40	EF3	CLOSE FOR CONTAINMENT ISOLATION
								EF5	40	EF7	
								SLT1		SLT1	
V-38-017	GL	3/4	S	A1	C	C	A	EF1	40	EF3	CLOSE FOR CONTAINMENT ISOLATION
								EF5	40	EF7	
								SLT1		SLT1	
V-38-022	GL	1/4	S	A1	D	C	A	EF1	40	EF3	CLOSE FOR CONTAINMENT ISOLATION
								EF5	40	EF7	
								SLT1		SLT1	

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VALVE TEST REQUIREMENTSREVISION 7
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SYSTEM 666 HYDROGEN/OXYGEN MONITORING

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE PASSIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE		TEST	RELIEF	TEST	
V-38-023	GL	1/4	S	A1	O	C	A	EF1	40	EF3	CLOSE FOR CONTAINMENT ISOLATION
								EF5	40	EF7	
								SLT1		SLT1	
V-38-037	GL	1	S	A1	O/C	O/C	A	EF1		EF1	OPEN FOR HYDROGEN MONITORING CLOSE FOR CONTAINMENT ISOLATION
								ET		ET	
								SLT1		SLT1	
								EF5		EF5	
								EF4	50	EF4	
V-38-038	GL	1	S	A1	O/C	O/C	A	EF1		EF1	OPEN FOR HYDROGEN MONITORING CLOSE FOR CONTAINMENT ISOLATION
								ET		ET	
								SLT1		SLT1	
								EF5		EF5	
								EF4	50	EF4	
V-38-039	GL	1	S	A1	O/C	O/C	A	EF1		EF1	OPEN FOR HYDROGEN MONITORING CLOSE FOR CONTAINMENT ISOLATION
								ET		ET	
								SLT1		SLT1	
								EF5		EF5	
								EF4	50	EF4	
V-38-040	GL	1	S	A1	O/C	O/C	A	EF1		EF1	OPEN FOR HYDROGEN MONITORING CLOSE FOR CONTAINMENT ISOLATION
								ET		ET	
								SLT1		SLT1	
								EF5		EF5	
								EF4	50	EF4	

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VALVE TEST REQUIREMENTS

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SYSTEM 666 HYDROGEN/OXYGEN MONITORING

VALVE #	TYPE	SIZE	ACTUATOR	CAI	POSITION		ACTIVE		REQUIRED		ACTUAL		SAFETY FUNCTION
					NORM	SAFE	PASSIVE	TEST	RELIEF	TEST			
V-38-041	GL	1	S	A1	O/C	O/C	A	EF1			EF1		OPEN FOR HYDROGEN MONITORING
								ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								SLT1			SLT1		
								EF5			EF5		
								EF4	50		EF4		
V-38-043	GL	1	S	A1	O/C	O/C	A	EF1			EF1		OPEN FOR HYDROGEN MONITORING
								ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								SLT1			SLT1		
								EF5			EF5		
								EF4	50		EF4		
V-38-044	GL	1	S	A1	O/C	O/C	A	EF1			EF1		OPEN FOR HYDROGEN MONITORING
								ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								SLT1			SLT1		
								EF5			EF5		
								EF4	50		EF4		
V-38-046	GL	1	S	A1	O/L	O/C	A	EF1			EF1		OPEN FOR HYDROGEN MONITORING
								ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								SLT1			SLT1		
								EF5			EF5		
								EF4	50		EF4		
V-38-093	GL	1	S	A1	O/C	O/C	A	EF1			EF1		OPEN FOR HYDROGEN MONITORING
								ET			ET		CLOSE FOR CONTAINMENT ISOLATION
								SLT1			SLT1		
								EF5	41		EF5		
								EF4	50		EF4		

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VALVE TEST REQUIREMENTS

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SYSTEM 600 HYDROGEN/OXYGEN MONITORING

VALVE #	TYPE	SIZE	ACTUATOR	CAT	NORM	SAFE	POSITION	ACTIVE	PASSIVE	REQUIRED	RELIEF	ACTUAL	SAFETY FUNCTION
V-38-094	GL	1	S	A1	O/C	O/C		A		EF1	41	EF1	OPEN FOR HYDROGEN MONITORING
										ET	41	ET	CLOSE FOR CONTAINMENT ISOLATION
										SLT1		SLT1	
										EF5	41	EF5	
										EF4	50	EF4	

OYSTER CREEK INSERVICE TESTING PROGRAM

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VALVE TEST REQUIREMENTS

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VALVE TEST REQUIREMENTS

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SYSTEM 623 TRAVELING INCORE PROBE

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE PASSIVE	REQUIRED		ACTUAL	SAFETY FUNCTION
					NORM	SAFE		TEST	RELIEF	TEST	
V-623-0001	BL	3/8	S	A1	O/C	C	A	EF1 ET EF5 SLT1 EF4	50	EF1 ET EF5 SLT1 EF4	CLOSE FOR CONTAINMENT ISOLATION
V-623-0002	BL	3/8	S	A1	O/C	C	A	EF1 ET EF5 SLT1 EF4	50	EF1 ET EF5 SLT1 EF4	CLOSE FOR CONTAINMENT ISOLATION
V-623-0003	BL	3/8	S	A1	O/C	C	A	EF1 ET EF5 SLT1 EF4	50	EF1 ET EF5 SLT1 EF4	CLOSE FOR CONTAINMENT ISOLATION
V-623-0004	BL	3/8	S	A1	O/C	C	A	EF1 ET EF5 SLT1 EF4	50	EF1 ET EF5 SLT1 EF4	CLOSE FOR CONTAINMENT ISOLATION
V-623-0005	PG	3/7	XP	D	D	C	A	XP1		XP1	CLOSE FOR CONTAINMENT ISOLATION

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VALVE TEST REQUIREMENTS

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SYSTEM 623 TRAVELING INCORE PROBE

VALVE #	TYPE	SIZE	ACTUATOR	CAT	POSITION		ACTIVE		REQUIRED		RELIEF		SAFETY FUNCTION	
					NORM	SAFE	PASSIVE	TEST	TEST	TEST	TEST	TEST		
V-623-0006	PG	.37	XP	D	D	C	A	XP1	XP1	XP1	XP1	XP1	CLOSE FOR CONTAINMENT ISOLATION	
V-623-0007	PG	.37	XP	D	D	C	A	XP1	XP1	XP1	XP1	XP1	CLOSE FOR CONTAINMENT ISOLATION	
V-623-0008	PG	.37	XP	D	D	C	A	XP1	XP1	XP1	XP1	XP1	CLOSE FOR CONTAINMENT ISOLATION	