

# NORTHEAST UTILITIES



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

General Offices • Selden Street, Berlin, Connecticut

P.O. BOX 270  
HARTFORD, CONNECTICUT 06141-0270  
(203) 666-6911

January 30, 1985

Docket No. 50-423  
B11435

Director of Nuclear Reactor Regulation  
Mr. B. J. Youngblood, Chief  
Licensing Branch No. 1  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Youngblood:

Millstone Nuclear Power Station, Unit No. 3  
Submittal of Draft Inservice Testing Program for Pumps and Valves

As committed in our response to Question 210.43, Northeast Nuclear Energy Company (NNECO) hereby submits the latest draft of the Millstone Unit No. 3 program for inservice testing (IST) of pumps and valves. Please note that this material is subject to change as a result of the NNECO review process, constraints identified during the preparation of surveillance procedures, and NRC comments. Please also note that relief requests have not been provided at this time, but will be provided with the final version of the program.

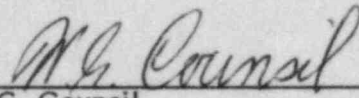
We remain available to discuss this material with the Staff, as necessary.

If you have any comments or questions regarding this submittal, please feel free to contact our licensing representative directly.

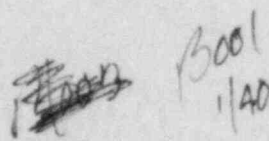
Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY  
et. al

BY NORTHEAST NUCLEAR ENERGY COMPANY  
Their Agent

  
\_\_\_\_\_  
W. G. Council  
Senior Vice President

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A PDR

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

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

*Lorraine J. Cimico*

Notary Public

My Commission Expires March 31, 1988

# NDE ENGINEERING CONSULTANTS, INC.

P.O. Box 535  
Telephone: (203) 429-8769

Storrs, Connecticut 06268  
MP-3-85-01

January 7, 1985

Mr. R. W. Pritchard  
Northeast Utilities Service Co.  
P.O. Box 270  
Hartford, Ct. 06141-0270

Subject: MP-3 Inservice Testing Program (Draft)


Dear Bob:

Enclosed are three (3) copies of the current draft of the Millstone 3 Inservice Testing Program for pumps and valves. Based on my discussions with John Majewski of NUSCo licensing, this information is being provided for your review and submittal to the NRC with the following understandings:

- 1.) This is only an unapproved draft copy and we reserve the right to make additions, deletions and alterations to the program based on the review process, constraints identified during the preparation of surveillance procedures and NRC comments.
- 2.) Appropriate relief requests are not provided at this time, but will be provided with the final approved version of the program.

If you have any questions, please feel free to contact me.

Very truly yours,

  
Dale L. Jones  
V.P. Engineering

cc: A. Cardillo - 1 enclosure  
M. Pearson - 1 enclosure  
K. Covin - 1 enclosure  
R. Lefebvre  
S. Orefice  
M. Hess  
P. Austin  
J. Crockett

MILLSTONE POINT UNIT 3

INSERVICE TESTING PROGRAM  
(DRAFT)

DOCUMENT NO: \_\_\_\_\_

Prepared By: Wale Gates

Approved By: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



INSERVICE TESTING PROGRAM

MP-3

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ABSTRACT

The Inservice Testing Program for Millstone Point Unit 3, was developed in accordance with subsections IWA, IWP, and IWV of the ASME Boiler and Pressure Vessel Code, Section XI, \_\_\_\_\_ Edition, including the \_\_\_\_\_ Addendum, except where specific relief is requested in accordance with 10CFR 50.55(a)(g)(5)(iii). This program applies to the first inspection interval as defined for Inspection Program B in Subsubarticle IWA-2420 of Section XI.

## 1.0 INTRODUCTION

### 1.1 General

This test plan describes the inservice testing (IST) program to verify the operational readiness of certain Class 1, 2, and 3 pumps and valves and their actuating and position indicating systems.

### 1.2 Codes and Standards

Pursuant to Title 10 of the Code of Federal Regulations, Part 50, Paragraph 50.55(a), the inservice testing requirements for the first inspection interval at Millstone Unit 3 (MP-3), are based on the rules set forth in the 19\_\_ edition of the ASME Boiler and Pressure Code, Section XI, including Addenda through \_\_\_\_\_, 19\_\_, any references to Section XI or the code refer to the above edition and addenda to Section XI, unless stated otherwise. Where conformance with certain code requirements is determined to be impractical, specific relief will be requested as required by 10CFR 50.55a (g) (5)(iii). The relief request bases are located in Section \_\_\_\_ of this test plan.

As permitted by Paragraph 50.55a(g)(4)(iv), the owner may elect, for certain components, to meet the requirements as set forth in subsequent editions and addenda which are incorporated



by reference in Paragraph (b) of 10CFR 50.55a. Any such "upgrading" will be specifically identified by revisions to this document.

### 1.3 Component Classification

The pumps and valves selected for inclusion in the inservice testing program are classified as Class 1, 2, and 3 based on the classification of the system or portion of system in which they are located. The system code classification scheme used for both inservice testing and inservice inspection is detailed in Section 1.0 of the MP-3 Preservice and Inservice Inspection Manuals (Reference 1).

## 2.0 REFERENCES

- 2.1 PSI-2.01, Millstone Point Unit 3 Preservice Inspection Plan.
- 2.2 Title 10, Code of Federal Regulations, Part 50.
- 2.3 ASME Boiler and Pressure Vessel Code, Section XI, \_\_\_\_\_ Edition, including Addenda through \_\_\_\_\_ 19\_\_.

## 3.0 DEFINITIONS

The following is a list of definitions for various terms used in the inservice testing program or in the referenced code section.

Active Valve: Valves which are required to change position to accomplish a specific function.

Exercising: The demonstration based on direct or indirect visual or other positive indication that the moving parts of a valve function satisfactorily.

Inservice Life: The period of time from installation and acceptance until retired from service.

Inservice Test: A special test procedure for obtaining information through measurement or observation to determine the operational readiness of a valve or pump.

Maintenance (Valves): Routine valve servicing or work on a valve undertaken to correct or prevent an abnormal or unsatisfactory condition.

Normal Plant Operation: The conditions of startup, hot standby, operation within the normal power range, or cooldown and shutdown of the power plant.

Operational Readiness: The capability of a pump or valve to fulfill its function.

Passive Valve: Valves which are not required to change positions to accomplish a specific function.

Pressure Isolation Valve: A valve required to protect a lower-pressure system from accidental pressurization from the Reactor Coolant System. To qualify as a pressure isolation valve, the following conditions must be met:

- a. The high-pressure system must be connected to the Reactor Coolant System.
- b. There must be high pressure to low pressure interface present in the line.
- c. The pressure isolation valves are located at a Class 1 to Class 2 boundary.
- d. The valves must be in one of the configurations identified in Figure 3.1.
- e. The piping line must have a diameter greater than one inch nominal pipe size.

Pressure isolation valves are classified as ASME XI category A valves.

# PRESSURE ISOLATION VALVE CONFIGURATIONS

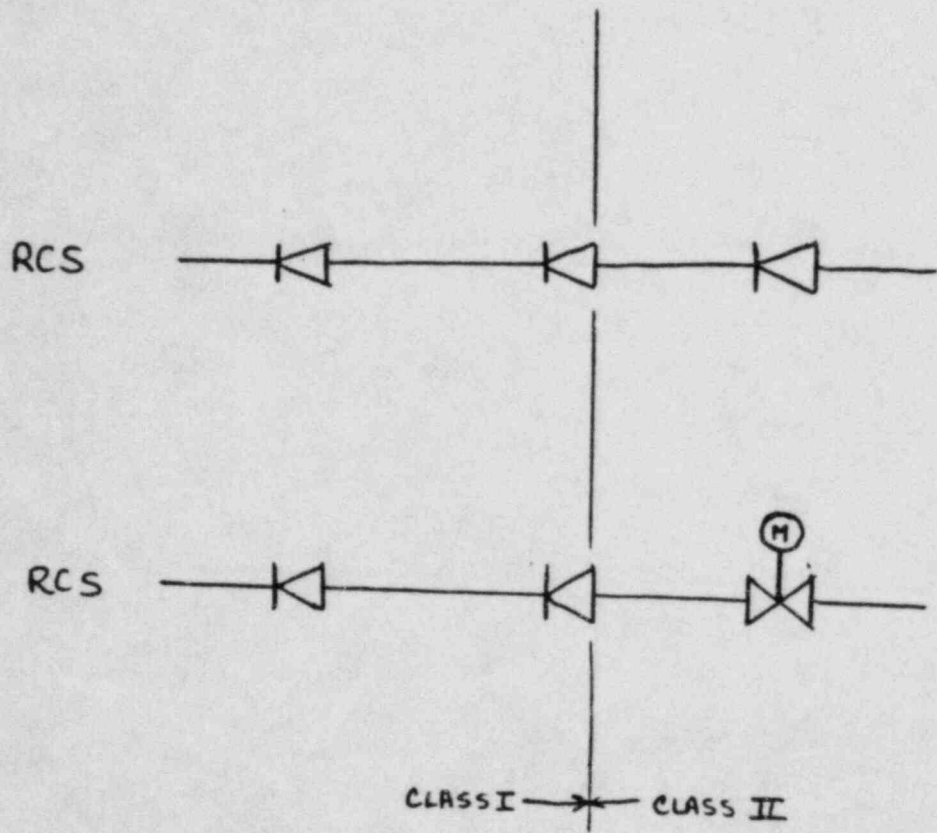


FIGURE 3.1



Routine Servicing      The performance of planned, preventive main-  
(Pumps):                      tenance which does not require disassembly of  
the pump or replacement of pump parts, such as  
changing oil, flushing the cooling system,  
adjusting packing, adding packing rings, or  
mechanical seal maintenance.

System Resistance:      The hydraulic resistance to flow in a system.

The Code:                      Refers to ASME Boiler and Pressure Vessel Code,  
Section XI, \_\_\_\_\_ Edition, including Addenda  
through \_\_\_\_\_, unless otherwise specified.

#### 4.0 DEVELOPMENT OF THE INSERVICE TESTING PROGRAM

##### 4.1 Valve Classification

4.1.1      The valves selected for inclusion in the inservice  
testing program are classified as follows:

- a.      Category A - Valves for which seat leakage is  
limited to a specific maximum amount in the  
closed position for fulfillment of their function.
- b.      Category B - Valves for which seat leakage in  
the closed position is inconsequential for  
fulfillment of their function.

- c. Category C - Valves which are self-actuating in response to some system characteristic, such as, pressure (relief valves) or flow direction (check valves).

#### 4.2 Valve Selection Bases

4.2.1 The valves selected for inclusion in the IST program include certain Class 1, 2, and 3 valves and their actuating and position indicating systems which are required to perform a specific function in shutting down the reactor to the cold shutdown condition or in mitigating the consequences of an accident.

4.2.2 The following valves are exempt from readiness testing under Section XI:

- a. Valves used only for operating convenience (such as manual vent, drain, instrument, and test valves), valves used for system control (such as pressure-regulating valves), and valves used only for maintenance.
- b. Valves which are part of external control and protection systems responsible for sensing plant conditions and providing signals for valve operation.

#### 4.3 Required Valve Testing

4.3.1 The tests required and their frequencies for the valves designated as Category A, B, and C are listed Table IWV-3700-1. In certain cases it is not practical to test individual valves at the listed frequencies, so other frequencies are specified on the tables in Section 5.0. Where a test frequency has been designated as each refueling outage, a specific request for relief has been <sup>prepared</sup> as required by 10CFR50.55a(g)(5)(iii). Where a test frequency of each cold shutdown has been specified, no request for relief is required.

4.3.2 Cold shutdown testing of valves will be conducted as follows:

- a. Testing will commence as soon as the cold shutdown condition is achieved, but not later than 48 hours after shutdown and continue until complete, or the plant is ready to return to power.
- b. Completion of all valve testing is not a prerequisite to return to power.



- c. Any testing not completed during one cold shutdown should be performed during any subsequent cold shutdowns that may occur before refueling to as closely as possible meet the Code-specified testing frequency.
- d. For planned cold shutdowns, where ample time is available for testing all the valves identified for the cold shutdown test frequency in the IST program, exceptions to the 48 hours may be taken.

4.3.3 Valves or their control systems which are replaced, repaired, or have undergone maintenance which could affect their operation shall be tested to the extent necessary to demonstrate that the performance parameters which could have been affected are within acceptable limits.

4.3.4 Valves with remote position indicators shall be observed at least once every two years to verify that valve operation is accurately indicated.

4.3.5 Power-operated valves shall be checked for stroke time each time they are full-stroke exercised to meet the requirements of this program.



- 4.3.6 When practical, valves with fail-safe actuators shall be tested for proper actuation upon loss of power each time the valve is exercised to meet the requirements of this program. If the valve can only be part stroked during operation, the fail-safe mechanism shall be tested when the valve is full stroke tested during a cold shutdown.
- 4.3.7 Valves in systems that have been declared inoperable, or are not required to be operable, do not need to be exercised in accordance with the normal schedule. These valves, however, must be exercised within 30 days of returning the system to service and the test schedule resumed as required by Paragraph IWV-3416 of the Code.
- 4.3.8 Valves which operate at a frequency which meets or exceeds the required test frequency need not be additionally exercised to meet the requirements of this program, provided that the required observations are made, analyzed, and the resultant data recorded at the specified intervals.
- 4.3.9 The following special testing requirements apply to containment isolation valves.

- a. All containment isolation valves are considered Category A valves.
  
- b. Valves which perform only a containment isolation function and not a pressure isolation\* function are exempt from Section XI leak rate testing. These valves are leak rate tested under the requirements of 10CFR 50, Appendix J.

\*For a definition of pressure isolation valves, see Section 3.0.

- c. Valves which perform only a containment isolation function and are not required to change position on a containment isolation signal, including normally closed checks valves, are considered passive and are exempt from Section XI operability testing.

#### 4.4 Pump Selection Basis

- 4.4.1 The pumps selected for inclusion in the IST program include Class 1, 2, and 3 centrifugal and displacement type pumps that are required to perform a specific function in the shutting down of the reactor or in mitigating the consequences of an accident and are provided with an emergency power source.

4.4.2 The following Code allowed exclusions apply to pump testing:

- a. Drivers are excluded from the requirements of subsection IWP, except where the pump and driver from an integral unit and the pump bearings are in the driver.
- b. Class 1, 2, and 3 pumps that are supplied with emergency power solely for operating convenience are excluded.

4.5 Required Pump Testing

4.5.1 Inservice tests shall be conducted with the pump operating at nominal motor speed.

A series of reference values are determined for quantities listed below, as observed or measured when the equipment is known to be operating correctly.

Inservice Test Quantities

Inlet Pressure,  $P_i$

Differential Pressure,  $\Delta P$

Flow Rate,  $Q$



Vibration Signature, V  
Proper Lubricant Level or Pressure  
Speed N - (if Variable Speed)

In place of Vibration Amplitude, NNECO will use a Vibration Signature Analysis program as described in Section 4.5.4. This program also eliminates the requirement for measuring bearing temperatures annually due to the program's ability to detect bearing problems at a very early stage.

In an inservice test, these quantities are remeasured and compared with the reference values to determine if corrective action is needed. When a reference value or set of values may have been affected by replacement, repair, or routine servicing of the pump, a new reference value or set of values shall be determined or the previous value reconfirmed by an inservice test run within 96 hours after return of the pump to normal service.

4.5.2 Test Frequency

Each inservice test shall include the measurement and observation of applicable test quantities. An inservice test shall be run on each applicable pump, at a frequency and scope as stated in Table IWP. If



possible, this test frequency shall be maintained during plant shutdown. If the pump is not tested during plant shutdown, it shall be tested within one week after the plant is returned to steady state operation.

Pumps that are operating need not be run or stopped for a special test, provided the plant log shows each such pump was operated at reference conditions and the quantities specified were measured, observed, recorded, and analyzed.

#### 4.5.3 Analysis and Corrective Action

4.5.3.1 Analysis of test data shall be performed within 96 hours following completion of the test. The test quantities shall be compared to the allowable range of quantities provided in the appropriate plant test procedure. These ranges may be reduced ranges provided the allowable ranges specified in Table IWP-3100-2 of Section XI cannot be met, and the reduced ranges allow the pump to fulfill its function. Vibration Signature Analysis is covered in Section 4.5.5.

4.5.3.2 Corrective action to be taken by NNECO in the event that measured test quantities fall outside the allowable range shall be as follows:

- a) If deviations fall within the Alert Range, the testing frequency shall be doubled until the cause of the deviation is determined and the condition corrected.
- b) If the deviations fall within the required action range, the pump shall be declared inoperable until the cause of the deviation is determined and the condition corrected.
- c) Corrective action shall be either replacement or repair per paragraph IWB-3111 of Section XI, or shall be an analysis which demonstrates that the condition does not impair pump operability and that the pump will still fulfill its function. When such an analysis is used, a new set of reference values shall be established.

- d) If, as a result of the analysis, it is suspected that the deviation may be due to the test instruments being out of calibration, the instruments involved may be recalibrated and the test rerun.

#### 4.5.4 Records of Inservice Tests

4.5.4.1 The following information shall be maintained by Millstone to meet the requirements for inservice testing:

- 1) A record for each pump, including the name of the manufacturer, the model, and the serial or other identification number.
- 2) An inservice test plan including:
  - a. The hydraulic circuit to be used.
  - b. The location and type of measurement for each required test quantity.

- c. The test quantity reference values, the limits of  $P_i$  (Table IWP-3100-2), and any other required information.
- 3) Test record giving pertinent information such as test date, instruments used, results, corrective action required, and signatures of persons conducting and analyzing the test.
- 4) A record of corrective actions and subsequent inservice tests verifying operational adequacy.

All inservice test plans and records shall be maintained at the Millstone Unit No. 3 plant, and shall be accessible for audit.

#### 4.5.5 Vibration Signature Analysis Program

##### 4.5.5.1 General Procedure

During the inservice pump test, vibration data shall be acquired in the form of a vibration signature. The vibration signature



shall consist of a plot of vibration velocity in units of inches per second, versus frequency in cycles per second, normally using a frequency range of 0 to 500 cycles per second. The measurements are made using a mounted vibration sensor which interfaces with a remotely located vibration spectrum analyzer. The vibration signature data is recorded by means of an X-Y plotter.

The measurement locations to be used for quarterly baseline vibration signature data are established and specified for each pump in the NNECO procedures.

#### 4.5.5.2 Data Evaluation and Analysis

The periodically acquired pump vibration signature data shall be compared to the reference values. The evaluation of pump performance and the establishment of an Alert Range and a Required Action Range shall be determined by changes in vibration signature peaks which are of greater sensitivity than overall vibration amplitude.

Signatures will be evaluated using the acceptance criteria of IWP-3100-2. The following equation will be used to convert mils to inches/sec.:  $v = 52.3 fV (10^{-6})$  where  $v$  = velocity in inches/sec.,  $f$  = frequency in cpm,  $V$  = displacement in mils. The acceptance criteria shall be as follows:

#### 4.5.5.2.1 Acceptable

Pump performance is Acceptable when all values of the velocity signature fall within the "acceptable" range specified in the applicable NNECO pump operational readiness procedure and all points of the velocity signature are less than 8VdB above the baseline signature.

#### 4.5.5.2.2 Alert

Pump performance is in the Alert Range when any value of the velocity signature which falls within the "alert" range specified in the applicable NNECO pump operational readiness procedure

or any point of the velocity signature which increases by more than 8VdB.

#### 4.5.4.2.3 Required Action Range

Pump performance is in the Required Action Range when any value of the velocity signature which falls within the "required action" range specified in the applicable NNEC pump operational readiness procedure and any point of velocity signature increases by more than 14VdB above the baseline signature.

### 5.3 Symbols and Abbreviations Used in Valve Test Tables

#### Valve Type

|       |   |           |
|-------|---|-----------|
| BFLY. | = | Butterfly |
| CHK.  | = | Check     |
| DIA.  | = | Diaphragm |
| GA.   | = | Gate      |
| GL.   | = | Globe     |

REL. = Relief  
SAF. = Safety  
SCHK. = Stop-Check

Test Period

Q = Quarterly  
BI = Biennial  
CS = Cold Shutdown  
RO = Each Refueling  
INT = Each Inspection Interval

Required Testing

FT = Check to see if valve goes to its full fail-safe position on loss of actuator power (paragraph IWV-3415).  
FS = Full stroke exercise.  
LT = Leak rate test (Subarticle <sup>IWV-</sup>3420 or 10CFR50, Appendix J, as appropriate).  
MT = Stroke time measurement.  
PI = Check for proper operation of remote position indicators (Subarticle IWV-3300).  
PS = Part stroke exercise.  
SRV = Safety and relief valve test (Subarticle IWV-3500).

Note: Items in parenthesis refers to the appropriate item in Section XI.



TABLE IWP  
 MILLSTONE POINT UNIT 3  
 INSERVICE TESTING PROGRAM

| <u>Pump</u>                    | <u>Flow Resistance</u> | <u>Speed Control</u> | <u>Inlet Pressure</u> | <u>Differential Pressure</u> | <u>Pump Flow</u> | <u>Vibration Signature</u> | <u>Lubrication</u> | <u>Bearing Temperature</u> | <u>Frequency</u> |
|--------------------------------|------------------------|----------------------|-----------------------|------------------------------|------------------|----------------------------|--------------------|----------------------------|------------------|
| Control Building               |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| Chilled Water Pump             |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P1A                            | Variable               | Constant             | X                     | Calculated                   |                  | X                          |                    | X                          | Quarterly        |
| P1B                            | Variable               | Constant             | X                     | Calculated                   |                  | X                          |                    | X                          | Quarterly        |
| Quench Spray Pump              |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P3A                            | Fixed                  | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| P3B                            | Fixed                  | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| Residual Heat                  |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| Removal Pump                   |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P1A                            | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| P1B                            | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| Containment Recirculation Pump |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P1A                            | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | NA                         | Quarterly        |
| P1B                            | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | NA                         | Quarterly        |
| P1C                            | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | NA                         | Quarterly        |
| P1D                            | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | NA                         | Quarterly        |
| Fuel Pool Cooling Pump         |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P1A                            | Fixed                  | Constant             | X                     | Calculated                   | X                | X                          |                    | X                          | Quarterly        |
| P1B                            | Fixed                  | Constant             | X                     | Calculated                   | X                | X                          |                    | X                          | Quarterly        |
| Safety Injection Pump          |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P1A                            | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| P1B                            | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| Service Water Pump             |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P1A                            | Variable               | Constant (Sea Level) |                       | X                            |                  | X                          |                    | NA                         | Quarterly        |
| P1B                            | Variable               | Constant (Sea Level) |                       | X                            |                  | X                          |                    | NA                         | Quarterly        |
| P1C                            | Variable               | Constant (Sea Level) |                       | X                            |                  | X                          |                    | NA                         | Quarterly        |
| P1D                            | Variable               | Constant (Sea Level) |                       | X                            |                  | X                          |                    | NA                         | Quarterly        |
| Control Building               |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| Service Water                  |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| Booster Pump                   |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P2A                            | Fixed                  | Constant             | X                     | Calculated                   | X                | X                          |                    | X                          | Quarterly        |
| P2B                            | Fixed                  | Constant             | X                     | Calculated                   | X                | X                          |                    | X                          | Quarterly        |

TABLE IWP  
 HILLSTONE POINT UNIT 3  
 INSERVICE TESTING PROGRAM

| <u>Pump</u>              | <u>Flow Resistance</u> | <u>Speed Control</u> | <u>Inlet Pressure</u> | <u>Differential Pressure</u> | <u>Pump Flow</u> | <u>Vibration Signature</u> | <u>Lubrication</u> | <u>Bearing Temperature</u> | <u>Frequency</u> |
|--------------------------|------------------------|----------------------|-----------------------|------------------------------|------------------|----------------------------|--------------------|----------------------------|------------------|
| Charging Pump            |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| Cooling Pump P1A         | Fixed                  | Constant             | X                     | Calculated                   | X                | X                          |                    | X                          | Quarterly        |
| Cooling Pump P1B         | Fixed                  | Constant             | X                     | Calculated                   | X                | X                          |                    | X                          | Quarterly        |
| Safety Injection Pump    |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| Cooling Pump P1A         | Fixed                  | Constant             | X                     | Calculated                   |                  | X                          |                    | X                          | Quarterly        |
| Cooling Pump P1B         | Fixed                  | Constant             | X                     | Calculated                   |                  | X                          |                    | X                          | Quarterly        |
| Reactor Plant Component  |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| Cooling Pump P1A         | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| Cooling Pump P1B         | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| Cooling Pump P1C         | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| Boric Acid Transfer Pump |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P2A                      | Fixed                  | Constant             |                       |                              |                  | X                          |                    |                            | Quarterly        |
| P2B                      | Fixed                  | Constant             |                       |                              |                  | X                          |                    |                            | Quarterly        |
| Charging Pump            |                        |                      |                       |                              |                  |                            |                    |                            |                  |
| P3A                      | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| P3B                      | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |
| P3C                      | Variable               | Constant             | X                     | Calculated                   | X                | X                          | X                  | X                          | Quarterly        |

Steam Generator  
 Auxiliary Feed-  
 water Pump

|     |       |          |   |            |  |   |   |   |           |
|-----|-------|----------|---|------------|--|---|---|---|-----------|
| P1A | Fixed | Constant | X | Calculated |  | X | X | X | Quarterly |
| P1B | Fixed | Constant | X | Calculated |  | X | X | X | Quarterly |

Steam Generator  
 Auxiliary Feed-  
 water Pump  
 (Turbine)

|    |       |           |   |            |  |   |   |  |           |
|----|-------|-----------|---|------------|--|---|---|--|-----------|
| P2 | Fixed | Variable* | X | Calculated |  | X | X |  | Quarterly |
|----|-------|-----------|---|------------|--|---|---|--|-----------|

\*Rotative speed measurement required.

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.         | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                                      |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|------------------|----------------|-----------------|--|
| 3-RCS-V26    | 6AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT   | J-8<br>(Sh. 1) | RR-( )          | Leak test per Section XI   |
| 3-RCS-V31    | 3C1                         | CHK. | -         | Open/<br>Closed          | -            | -                         | CS          | FS               | J-9<br>(Sh. 1) |                 |  |
| 3-RCS-V32    | 3C1                         | CHK. | -         | Open/<br>Closed          | -            | -                         | CS          | FS               | J-9<br>(Sh. 1) |                 |  |
| 3-RCS-V102   | 6AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT   | B-3<br>(Sh. 2) | R               | Leak test per Section XI   |
| 3-RCS-V147   | 3C1                         | CHK. | -         | Closed/<br>Open          | -            | -                         | CS          | FS               | B-9<br>(Sh. 2) |                 |  |
| 3-RCS-V148   | 3C1                         | CHK. | -         | Closed/<br>Open          | -            | -                         | CS          | FS               | B-9<br>(Sh. 2) |                 |  |
| 3-RCS-V167   | 3B1                         | GA.  | Motor     | Open*/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI   | D-5<br>(Sh. 3) |                 | *May be shut when required to open to perform its safety function. |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING             | COORD.         | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS                                      |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------------------|----------------|--------------------|--|
| 3-RCS-V168      | 3B1                               | GA.  | Solenoid  | Open/<br>Closed                 | FC              | Yes                             | CS             | FS<br>MT<br>FT<br>PI            | C-5<br>(Sh. 3) | R                  |  |
| 3-RCS-V169      | 3B1                               | GA.  | Motor     | Open*/<br>Open                  | -               | Yes                             | CS             | FS<br>MT<br><del>FT</del><br>PI | D-3            |                    | *May be shut when required<br>to open to perform its<br>safe function. |
| 3-RCS-V170      | 3B1                               | GA.  | Solenoid  | Closed/<br>Open                 | FC              | Yes                             | CS             | FS<br>MT<br>FT<br>PI            | C-3<br>(Sh. 3) | R                  |  |



MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-RCS-V171   | 6C1                         | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | E-2<br>(Sh. 3) |                 | *Per IWV-3511 test schedule    |
| 3-RCS-V172   | 6C1                         | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | F-2<br>(Sh. 3) |                 | *Per IWV-3511 test schedule    |
| 3-RCS-V173   | 6C1                         | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | G-2<br>(Sh. 3) |                 | *Per IWV-3511 test schedule    |
| 3-RCS-V960   | 1B2                         | GL.  | Solenoid  | Closed/<br>Open           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | M-6<br>(Sh. 3) |                 |                                |
| 3-RCS-V961   | 1B2                         | GL.  | Solenoid  | Closed/<br>Open           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | N-6<br>(Sh. 3) |                 |                                |
| 3-RCS-V962   | 1B1                         | GL.  | Solenoid  | Closed/<br>Open           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | L-5<br>(Sh. 3) |                 |                                |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING  | COORD.         | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|----------------------|----------------|--------------------|-----------------------------------|
| 3-RCS-V963      | 1B1                               | GL.  | Solenoid  | Closed/<br>Open                 | FC              | Yes                             | Q              | FS<br>MT<br>FT<br>PI | L-5<br>(Sh. 3) |                    |                                   |
| 3-RCS-V964      | 1B2                               | GL.  | Solenoid  | Closed/<br>Open                 | FC              | Yes                             | Q              | FS<br>MT<br>FT<br>PI | L-5<br>(Sh. 3) |                    |                                   |
| 3-RCS-V965      | 1B2                               | GL.  | Solenoid  | Closed/<br>Open                 | FC              | Yes                             | Q              | FS<br>MT<br>FT<br>PI | L-5<br>(Sh. 3) |                    |                                   |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                                     |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|----------------|-----------------|--|
| 3-CHS-V1     | 2B2                         | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | E-3<br>(Sh. 5) |                 | *Position depends on plant lineup at time of test                  |
| 3-CHS-V2     | 2B2                         | GA.  | Air       | Open*/<br>Closed          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | F-3<br>(Sh. 5) |                 | *Position depends on plant lineup at time of test                  |
| 3-CHS-V3     | 2B2                         | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | G-3<br>(Sh. 5) |                 | *Position depends on plant lineup at time of test                  |
| 3-CHS-V4     | 2AC2                        | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV<br>LT                  | I-3<br>(Sh. 5) |                 | *Per IWV-3511 test schedule<br>Leak test per 10CFR50<br>Appendix J |
| 3-CHS-V5     | 3A2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | CS          | FS<br>MT<br>FT<br>PI<br>LT | J-2<br>(Sh. 5) |                 | Leak test per 10CFR50<br>Appendix J                                |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION                | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|--|--------------|---------------------------|-------------|------------------|-----------------|-----------------|--------------------------------|
| 3-CHS-V40    | 4B2                         | GA.  | Motor     | Open/<br>Closed                          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI   | J-6<br>(Sh. 1)  |                 |                                |
| 3-CHS-V41    | 4B2                         | GA.  | Motor     | Open/<br>Closed                          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI   | J-7<br>(Sh. 1)  |                 |                                |
| 3-CHS-V46    | 4C2                         | CHK. | -         | Open or<br>Closed/<br>Open and<br>Closed | -            | -                         | Q           | FS               | G-7<br>(Sh. 1)  |                 |                                |
| 3-CHS-V47    | 4C2                         | CHK. | -         | Open or<br>Closed/<br>Open and<br>Closed | -            | -                         | Q           | FS               | G-9<br>(Sh. 1)  |                 |                                |
| 3-CHS-V48    | 4C2                         | CHK. | -         | Open or<br>Closed/<br>Open and<br>Closed | -            | -                         | Q           | FS               | G-11<br>(Sh. 1) |                 |                                |



MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION                | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|--|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|--------------------------------|
| 3-CHS-V56    | 3B2                         | GA.  | Motor     | Open/<br>Closed                          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI       | F-3<br>(Sh. 1)  |                 |                                |
| 3-CHS-V57    | 3A2                         | GA.  | Motor     | Open/<br>Closed                          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | F-6<br>(Sh. 5)  |                 |                                |
| 3-CHS-V58    | 3AC2                        | CHK. | -         | Open/<br>Closed                          | -            | -                         | BI          | FS<br>LT             | E-4<br>(Sh. 5)  | R               |                                |
| 3-CHS-V59    | 3B2                         | GA.  | Air       | Open/<br>Closed                          | FO           | Yes                       | CS<br>BI    | FS<br>MT<br>FT<br>PI | B-2<br>(Sh. 5)  |                 |                                |
| 3-CHS-V60    | 3B2                         | GA.  | Air       | Closed/<br>Open                          | FO           | Yes                       | CS<br>BI    | FS<br>MT<br>FT<br>PI | C-2<br>(Sh. 5)  |                 |                                |
| 3-CHS-V262   | 2C2                         | CHK. | -         | Open or<br>Closed/<br>Open and<br>Closed | -            | -                         | Q           | FS                   | H-10<br>(Sh. 1) |                 |                                |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION          | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|------------------------------------|--------------|---------------------------|-------------|------------------|----------------|-----------------|--------------------------------|
| 3-CHS-V263   | 2C2                         | CHK. | -         | Open or Closed/<br>Open and Closed | -            | -                         | Q           | FS               | H-9<br>(Sh. 1) |                 |                                |
| 3-CHG-V264   | 2C2                         | CHK. | -         | Open or Closed/<br>Open and Closed | -            | -                         | Q           | FS               | H-7<br>(Sh. 1) |                 |                                |
| 3-CHS-V269   | 2B3                         | GL.  | Motor     | Open/<br>Closed                    | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI   | F-7<br>(Sh. 1) |                 |                                |
| 3-CHS-V333   | 3C3                         | CHK. | -         | Closed/<br>Open                    | -            | -                         | CS          | FS               | H-7<br>(Sh. 3) |                 |                                |
| 3-CHS-V371   | 2A2                         | GL.  | Manual    | Closed/<br>Closed                  | -            | -                         | BI          | LT               | D-5<br>(Sh. 5) |                 |                                |

Passive containment  
isolation valves  
Leak test per 10CFR50  
Appendix J only - Pen. 62

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS   |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|---|
| 3-CHS-V372   | 2AC2                        | CHK. | -         | Closed/<br>Closed        | -            | -                         | BI          | LT                   | C-4<br>(Sh. 5) |                 | Passive containment<br>isolation valves<br>Leak test per 10CFR<br>Appendix J only - Pen. 62 |
| 3-CHS-V531   | 3C2                         | REL. | -         | Closed/<br>Open          | -            | -                         | *           | SRV                  | B-7<br>(Sh. 1) |                 | *Per IWV-3511 test schedule   |
| 3-CHS-V532   | 2A2                         | GL.  | Motor     | Open/<br>Closed          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | B-6<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 23  |
| 3-CHS-V533   | 2A2                         | GL.  | Motor     | Open/<br>Closed          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | B-4<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 23  |
| 3-CHS-V543   | 2C2                         | REL. | -         | Closed/<br>Open          | -            | -                         | *           | SRV                  | A-5<br>(Sh. 5) |                 | *Per IWV-3511 test schedule   |
| 3-CHS-V546   | 3/4AC2                      | REL. | -         | Closed/<br>Open          | -            | -                         | *<br>BI     | SRV<br>LT            | C-5<br>(Sh. 1) |                 | *Per IWV-3511 test schedule<br>Leak test per 10CFR50<br>Appendix J - Pen. 23                |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS        |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|----------------|-----------------|---------------------------------------|
| 3-CHS-V558   | 1½C2                        | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | J-8<br>(Sh. 1) |                 | *Per IWV-3511 test schedule           |
| 3-CHS-V665   | 2B2                         | GA.  | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | J-1<br>(Sh. 1) |                 |                                       |
| 3-CHS-V666   | 2B2                         | GA.  | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | J-3<br>(Sh. 1) |                 |                                       |
| 3-CHS-V667   | 2B2                         | GA.  | Motor     | Open*/<br>Open-Closed     | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | J-1<br>(Sh. 1) |                 | *May be shut when required to operate |
| 3-CHS-V668   | 2B2                         | GA.  | Motor     | Open*/<br>Open-Closed     | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | J-3<br>(Sh. 1) |                 | *May be shut when required to operate |
| 3-CHS-V669   | 2C2                         | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | K-1<br>(Sh. 1) |                 | *Per IWV-3511 test schedule           |
| 3-CHS-V670   | 2C2                         | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | K-3<br>(Sh. 1) |                 | *Per IWV-3511 test schedule           |



HILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING | COORD.          | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS          |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------|-----------------|--------------------|--|
| 3-CHS-V697      | 2B2                               | GL.  | Motor     | Open/<br>Closed                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | G-8<br>(Sh. 1)  |                    |  |
| 3-CHS-V698      | 2B2                               | GL.  | Motor     | Open/<br>Closed                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | G-10<br>(Sh. 1) |                    |  |
| 3-CHS-V699      | 2B2                               | GL.  | Motor     | Open/<br>Closed                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | G-7<br>(Sh. 1)  |                    |  |
| 3-CHS-V700      | 1B2                               | GL.  | Solenoid  | Open/<br>Open                   | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | F-6<br>(Sh. 1)  |                    | Required for safety grade<br>cold shutdown |
| 3-CHS-701       | 1B2                               | GA.  | Motor     | Closed/<br>Open                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | G-6<br>(Sh. 1)  |                    | Required for safety grade<br>cold shutdown |
| 3-CHS-V702      | 4B2                               | GA.  | Motor     | Open/<br>Closed                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | E-7<br>(Sh. 1)  |                    |  |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING | COORD.          | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS          |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------|-----------------|--------------------|--|
| 3-CHS-V703      | 4B2                               | GA.  | Motor     | Open/<br>Closed                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | E-8<br>(Sh. 1)  |                    |  |
| 3-CHS-V704      | 4B2                               | GA.  | Motor     | Open/<br>Closed                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | E-11<br>(Sh. 1) |                    |  |
| 3-CHS-V705      | 1B2                               | GA.  | Solenoid  | Closed/<br>Open                 | FC              | Yes                             | Q              | FS<br>MT<br>FT      | E-11<br>(Sh. 1) |                    | Required for safety grade<br>cold shutdown |
| 3-CHS-708       | 8B2                               | GA.  | Motor     | Open/<br>Closed                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | J-10<br>(Sh. 1) |                    |  |
| 3-CHS-V709      | 8B2                               | GA.  | Motor     | Open/<br>Closed                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI      | J-8<br>(Sh. 1)  |                    |  |
| 3-CHS-V710      | 3B2                               | GA.  | Motor     | Closed/<br>Open                 | -               | Yes                             | CS<br>BI       | FS<br>MT<br>PI      | G-7<br>(Sh. 3)  |                    |  |
| 3-CHS-V711      | 3C3                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | CS             | FS                  | H-4<br>(Sh. 3)  |                    |  |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING        | COORD.         | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS                  |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|----------------------------|----------------|--------------------|--|
| 3-CHS-V712      | 352                               | GA.  | Motor     | Closed/<br>Open                 | -               | Yes                             | CS<br>BI       | FS<br>MT<br>PI             | F-4<br>(Sh. 3) |                    |  |
| 3-CHS-V802      | 24A2                              | GA.  | Air       | Open/<br>Closed                 | FC              | Yes                             | CS<br>BI       | FS<br>MT<br>FT<br>PI<br>LT | H-2<br>(Sh. 5) |                    | Leak test per 10CFR50<br>Appendix J Only - Pen. 24 |

System: Charging Pump  
Cooling System  
Drawing: 25212-26905

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Revision No.:  
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HILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|--------|-----------------|--------------------------------|
| 3-CCE-V1     | 2C3                         | CHK. | -         | Open/<br>Closed           | -            | -                         | Q           | FS                   | F-8    |                 |                                |
| 3-CCE-V3     | 2B3                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | G-8    |                 |                                |
| 3-CCE-V11    | 2B3                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | E-5    |                 |                                |
| 3-CCE-V13    | 2C3                         | CHK. | -         | Open/<br>Closed           | -            | -                         | Q           | FS                   | D-10   |                 |                                |
| 3-CCE-V15    | 2B3                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | G-9    |                 |                                |
| 3-CCE-V23    | 2B3                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | D-5    |                 |                                |



MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS  |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|-----------------|-----------------|---|
| 3-DAS-V9     | 2A2                         | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | I-10<br>(Sh. 3) |                 | Leak test per 10CFR50<br>Appendix J - Pen. 28<br>Open when pumping down<br>sump |
| 3-DAS-V10    | 2A2                         | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | J-10<br>(Sh. 3) |                 | Leak test per 10CFR50<br>Appendix J - Pen. 28<br>Open when pumping down<br>sump |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS  |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|--------|-----------------|---|
| 3-VRS-V2     | 3/4A2                       | DIA. | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | K-6    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 29                                     |
| 3-VRS-V3     | 3/4A2                       | DIA. | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | K-7    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 29                                     |
| 3-DGS-V18    | 3A2                         | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | G-10   |                 | Leak test per 10CFR50<br>Appendix J - Pen. 27<br>*Open when pumping down<br>sumps |
| 3-DGS-V19    | 3A2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | E-10   |                 | Leak test per 10CFR50<br>Appendix J - Pen. 27                                     |

System: Fuel Pool  
Cooling System  
Drawing: 25212-26911

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MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD. | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                                   |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|------------------|--------|-----------------|---|
| 3-SFC-V989   | 4A3                         | GA.  | Manual    | Locked Closed/<br>Closed | -            | -                         | BI          | LT               | E-3    |                 | Leak test per 10CFR50 Appendix J only (passive valve) - Pen. 60 |
| 3-SFC-V990   | 4A3                         | GA.  | Manual    | Locked Closed/<br>Closed | -            | -                         | BI          | LT               | D-3    |                 | Leak test per 10CFR50 Appendix J only (passive valve) - Pen. 60 |
| 3-SFC-V991   | 4A3                         | GA.  | Manual    | Locked Closed/<br>Closed | -            | -                         | BI          | LT               | C-2    |                 | Leak test per 10CFR50 Appendix J only (passive valve) - Pen. 59 |
| 3-SFC-V992   | 4A3                         | GA.  | Manual    | Locked Closed/<br>Closed | -            | -                         | BI          | LT               | D-2    |                 | Leak test per 10CFR50 Appendix J only (passive valve) - Pen. 59 |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD   | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                      |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|---------------|----------------------|----------------|-----------------|--|
| 3-SIL-V2     | 12B2                        | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | Q<br>BI       | FS<br>MT<br>PI       | B-6<br>(Sh. 1) |                 |  |
| 3-SIL-V3     | 12C2                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q             | FS                   | B-6<br>(Sh. 1) |                 |  |
| 3-SIL-V4     | 3/4C2                       | REL. | -         | Closed/<br>Open          | -            | -                         | *             | SRV                  | J-6<br>(Sh. 1) |                 | *Per IWV-3511 test schedule                        |
| 3-SIL-V5     | 8A2                         | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | Q<br>BI       | FS<br>MT<br>LT<br>PI | J-6<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 93 |
| 3-SIL-V6     | 6AC2                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>CS<br>BI | PS<br>FS<br>LT       | K-5<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 93 |
| 3-SIL-V7     | 6AC2                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>CS<br>BI | PS<br>FS<br>LT       | K-3<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 93 |
| 3-SIL-V8     | 12B2                        | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | CS<br>BI      | FS<br>MT<br>PI       | B-8<br>(Sh. 1) |                 |  |



System: Low Pressure  
 Safety Injection  
 Drawing: 25212-26912

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MILSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER         | SIZE CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD   | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                      |
|----------------------|-----------------|------|-----------|--------------------------|--------------|---------------------------|---------------|----------------------|-----------------|-----------------|--|
| 3-SIL-V <sup>0</sup> | 12C2            | CHK. | -         | Closed/<br>Open          | -            | -                         | Q             | FS                   | B-9<br>(Sh. 1)  |                 |  |
| 3-SIL-V10            | 3/4C2           | REL. | -         | Closed/<br>Open          | -            | -                         | *             | SRV                  | I-9<br>(Sh. 1)  |                 | *Per IWV-3511 test schedule                        |
| 3-SIL-V11            | 8A2             | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | Q<br>BI       | FS<br>MT<br>LT<br>PI | J-10<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 94 |
| 3-SIL-V12            | 6AC2            | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>CS<br>BI | PS<br>FT<br>LT       | L-1<br>(Sh. 1)  |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 94 |
| 3-SIL-V13            | 6AC2            | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>CS<br>BI | PS<br>FS<br>LT       | L-2<br>(Sh. 1)  |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 94 |
| 3-SIL-V14            | 10B2            | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | Q<br>BI       | FS<br>MT<br>PI       | B-7<br>(Sh. 2)  |                 |  |
| 3-SIL-V15            | 10AC1           | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO       | PS<br>LT             | B-7<br>(Sh. 2)  | R               | Leak test per Section XI                           |

HILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|----------------|-----------------|--------------------------------|
| 3-SIL-V16    | 10B2                        | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | E-7<br>(Sh. 2) |                 |                                |
| 3-SIL-V17    | 10AC2                       | CHK. | -         | Closed/<br>Open           | -            | -                         | Q<br>RO     | PS<br>LT         | E-7<br>(Sh. 2) | R               | Leak test per Section XI       |
| 3-SIL-V18    | 10B2                        | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | H-7<br>(Sh. 2) |                 |                                |
| 3-SIL-V19    | 10AC2                       | CHK. | -         | Closed/<br>Open           | -            | -                         | Q<br>RO     | PS<br>LT         | H-7<br>(Sh. 2) | R               | Leak test per Section XI       |
| 3-SIL-V20    | 10B2                        | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | J-7<br>(Sh. 2) |                 |                                |
| 3-SIL-V21    | 10AC2                       | CHK. | -         | Closed/<br>Open           | -            | -                         | Q<br>RO     | PS<br>LT         | J-7<br>(Sh. 2) | R               | Leak test per Section XI       |
| 3-SIL-V22    | 8B2                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | J-6<br>(Sh. 1) |                 |                                |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                                   |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|---|
| 3-SIL-V23    | 8B2                         | GA.  | Motor     | Closed/<br>Open          | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | H-11<br>(Sh. 1) |                 |   |
| 3-SIL-V24    | 3/4C2                       | REL. | -         | Closed/<br>Open          | -            | -                         | *           | SRV                  | I-8<br>(Sh. 1)  |                 | *Per IWV-3511 test schedule                                     |
| 3-SIL-V25    | 8A2                         | GA.  | Motor     | Closed/<br>Open          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>LT<br>PI | I-8<br>(Sh. 1)  |                 | Leak test per 10CFR50<br>Appendix J - Pen. 95                   |
| 3-SIL-V26    | 8AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT       | K-8<br>(Sh. 1)  | R               | Leak test per 10CFR50<br>Appendix J and Section XI -<br>Pen. 95 |
| 3-SIL-V27    | 2AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT       | J-7<br>(Sh. 1)  | R               | Leak test per 10CFR50<br>Appendix J and Section XI -<br>Pen. 96 |
| 3-SIL-V28    | 8AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT       | K-8<br>(Sh. 1)  | R               | Leak test per 10CFR50<br>Appendix J and Section XI -<br>Pen. 95 |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PER'OD  | REQUIRED TESTING           | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS   |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|--------------|----------------------------|----------------|-----------------|--|
| 3-SIL-V29    | 2AC1                        | CHK. | -         | Closed/<br>Open           | -            | -                         | Q<br>RO      | PS<br>FS<br>LT             | J-9<br>(Sh. 1) | R               | Leak test per 10CFR50 Appendix J and Section XI - Pen. 96                        |
| 3-SIL-V30    | 3/4A2                       | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>LT<br>PI | L-4<br>(Sh. 1) |                 | *May be opened during testing<br>Leak test per 10CFR50 Appendix J only - Pen. 93 |
| 3-SIL-V31    | 3/4A2                       | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>LT<br>PI | L-3<br>(Sh. 1) |                 | *May be opened during testing<br>Leak test per 10CFR50 Appendix J only - Pen. 94 |
| 3-SIL-V34    | 3/4A2                       | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>LT<br>PI | K-8<br>(Sh. 1) |                 | *May be opened during testing<br>Leak test per 10CFR50 Appendix J only - Pen. 95 |



MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS   |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|-----------------|-----------------|--|
| 3-SIL-V38    | 1A2                         | GL.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | E-2<br>(Sh. 2)  |                 | *Open only when charging SI accumulators with nitrogen<br>Leak test per 10CFR50<br>Appendix J only - Pen. 14 |
| 3-SIL-V39    | 1A2                         | GL.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | C-2<br>(Sh. 2)  |                 | *Open only when charging SI accumulators with nitrogen<br>Leak test per 10CFR50<br>Appendix J only - Pen. 14 |
| 3-SIL-V982   | 8C2                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS                         | I-6<br>(Sh. 1)  |                 |  |
| 3-SIL-V983   | 8C2                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS                         | G-11<br>(Sh. 1) |                 |  |
| 3-SIL-V984   | 6C1                         | CHK. | -         | Closed/<br>Open           | -            | -                         | Q<br>CS     | PS<br>FS                   | L-8<br>(Sh. 2)  |                 |  |
| 3-SIL-V985   | 6C1                         | CHK. | -         | Closed/<br>Open           | -            | -                         | Q<br>CS     | PS<br>FS                   | J-9<br>(Sh. 2)  |                 |  |
| 3-SIL-V986   | 6C1                         | CHK. | -         | Closed/<br>Open           | -            | -                         | Q<br>CS     | PS<br>FS                   | G-9<br>(Sh. 2)  |                 |  |

System: Low Pressure  
 Safety Injection  
 Drawing: 25212-26912

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HILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.         | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|------------------|----------------|-----------------|-------------------------------|
| 3-SIL-V987   | 6C1                         | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>CS     | PS<br>FS         | D-9<br>(Sh. 2) |                 |                               |
| 3-RCS-V30    | 10AC1                       | CHK. | -         | Closed/<br>Open          | -            | -                         | CS<br>RO    | FS<br>LT         | L-9<br>(Sh. 2) |                 | Leak test per Section XI      |
| 3-RCS-V69    | 6AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT   | L-7<br>(Sh. 7) | R               | Leak test per Section XI      |
| 3-RCS-V71    | 10AC1                       | CHK. | -         | Closed/<br>Open          | -            | -                         | CS<br>RO    | FS<br>LT         | L-9<br>(Sh. 2) |                 | Leak test per Section XI      |
| 3-RCS-V107   | 10AC1                       | CHK. | -         | Closed/<br>Open          | -            | -                         | CS<br>RO    | FS<br>LT         | L-8<br>(Sh. 2) |                 | Leak test per Section XI      |
| 3-RCS-V142   | 6AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT   | L-9<br>(Sh. 1) | R               | Leak test per Section XI      |
| 3-RCS-V146   | 10AC1                       | CHK. | -         | Closed/<br>Open          | -            | -                         | CS<br>RO    | FS<br>LT         | L-8<br>(Sh. 2) |                 | Leak test per Section XI      |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS  |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|-----------------|-----------------|---|
| 3-RHS-V1     | 10C2                        | CHK. | -         | Closed/<br>Open           | -            | -                         | Q           | FS               | C-6<br>(Sh. 1)  |                 |   |
| 3-RHS-V4     | 10B2                        | GA.  | Motor     | Open/<br>Closed-Open      | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | H-7<br>(Sh. 1)  |                 |   |
| 3-RHS-V5     | 10C2                        | CHK. | -         | Closed/<br>Open           | -            | -                         | Q           | FS               | C-10<br>(Sh. 1) |                 |   |
| 3-RHS-V8     | 10B2                        | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | H-9<br>(Sh. 1)  |                 |   |
| 3-RHS-V10    | 4AC2                        | REL. | -         | Closed/<br>Open           | -            | -                         | *<br>BI     | SRV<br>LT        | C-4<br>(Sh. 1)  |                 | *Per IWV-3511 test schedule<br>Leak test per 10CFR50<br>Appendix J only - Pen. 91 |
| 3-RHS-V27    | 4AC2                        | REL. | -         | Closed/<br>Open           | -            | -                         | *<br>BI     | SRV<br>LT        | A-6<br>(Sh. 1)  |                 | *Per IWV-3511 test schedule<br>Leak test per 10CFR50<br>Appendix J only - Pen. 92 |
| 3-RHS-V980   | 3/4C2                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | A-4<br>(Sh. 1)  |                 | *Per IWV-3511 test schedule   |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|---|
| 3-RHS-V981   | 3/4C2                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | D-3<br>(Sh. 1)  |                 | *Per IWV-3511 test schedule                   |
| 3-RHS-V994   | 12A2                        | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>LT<br>PI | A-10<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J - Pen. 92 |
| 3-RHS-V995   | 12A2                        | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>LT<br>PI | B-5<br>(Sh. 1)  |                 | Leak test per 10CFR50<br>Appendix J - Pen. 91 |
| 3-RHS-V996   | 12A2                        | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>LT<br>PI | A-5<br>(Sh. 1)  |                 | Leak test per 10CFR50<br>Appendix J - Pen. 92 |
| 3-RHS-V997   | 12A2                        | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>LT<br>PI | B-4<br>(Sh. 1)  |                 | Leak test per 10CFR50<br>Appendix J - Pen. 91 |
| 3-RHS-V998   | 12B2                        | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI       | A-3<br>(Sh. 1)  |                 |   |



MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS   |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--|
| 3-RHS-V999   | 12B2                        | GA.   | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI       | E-3<br>(Sh. 1) |                 |  |
| 3-RSS-V1     | 12A2                        | BTFY. | Motor     | Open*/<br>Open            | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | C-9<br>(Sh. 3) |                 | *Shut only while testing<br>RSS pump, leak test per<br>10CFR50, Appendix J -<br>Pen. 102         |
| 3-RSS-V3     | 10AC2                       | CHK.  | -         | Closed/<br>Open           | -            | -                         | INT*<br>BI  | PS<br>LT             | L-4<br>(Sh. 3) | R               | *Full stroke during spray<br>header flow test, leak test<br>per 10CFR50 Appendix J -<br>Pen. 107 |
| 3-RSS-V4     | 12A2                        | BFLY. | Motor     | Open*/<br>Open            | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | C-8<br>(Sh. 3) |                 | *Shut only while testing<br>RSS pump, leak test per<br>10CFR50 Appendix J -<br>Pen. 103          |

System: Recirculation  
 Spray System  
 Drawing: 25212-26912

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS   |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--|
| 3-RSS-V6     | 10AC2                       | CHK.  | -         | Closed/<br>Open           | -            | -                         | INT*<br>BI  | PS<br>LT             | K-5<br>(Sh. 3) | R               | *Full stroke during spray header flow test, leak test per 10CFR50 Appendix J - Pen. 108  |
| 3-RSS-V7     | 12A2                        | BFLY. | Motor     | Open*/<br>Open            | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | C-4<br>(Sh. 3) |                 | *Shut only while testing RSS pump, leak test per 10CFR50 Appendix J - Pen. 104           |
| 3-RSS-V9     | 10AC2                       | CHK.  | -         | Closed/<br>Open           | -            | -                         | INT*<br>BI  | PS<br>LT             | K-7<br>(Sh. 3) | R               | *Full stroke during spray header flow test, leak test per 10CFR50, Appendix J - Pen. 109 |
| 3-RSS-V10    | 12A2                        | BFLY. | Motor     | Open*/<br>Open            | -            | Yes                       | Q<br>BI     | PS<br>MT<br>LT<br>PI | C-2<br>(Sh. 3) |                 | *Shut only while testing RSS pump, leak test per 10CFR50, Appendix J - Pen. 105          |
| 3-RSS-V12    | 10AC2                       | CHK.  | -         | Closed/<br>Open           | -            | -                         | INT*<br>BI  | PS<br>LT             | L-7<br>(Sh. 3) | R               | *Full stroke during spray header flow test, leak test per 10CFR50, Appendix J - Pen. 110 |

HILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS  |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|---|
| 3-RSS-V35    | 8C2                         | CHK.  | -         | Closed/<br>Open           | -            | -                         | Q           | FS                   | J-3<br>(Sh. 3)  |                 |   |
| 3-RSS-V36    | 8C2                         | CHK.  | -         | Closed/<br>Open           | -            | -                         | Q           | FS                   | J-6<br>(Sh. 3)  |                 |   |
| 3-RSS-V932   | 4B2                         | GA.   | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | F-10<br>(Sh. 3) |                 |   |
| 3-RSS-V945   | 4B2                         | GA.   | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | F-5<br>(Sh. 3)  |                 |   |
| 3-RSS-V954   | 10A2                        | BFLY. | Motor     | Open*/<br>Open            | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | L-9<br>(Sh. 3)  |                 | *Shut only while testing<br>RSS pump, leak test per<br>10CFR50 Appendix J -<br>Pen. 110 |
| 3-RSS-V955   | 10A2                        | BFLY. | Motor     | Open*/<br>Open            | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | J-7<br>(Sh. 3)  |                 | *Shut only while testing<br>RSS pump, leak test per<br>10CFR50 Appendix J -<br>Pen. 109 |

System: Recirculation  
 Spray System  
 Drawing: 25212-26912

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS  |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|---|
| 3-RSS-V956   | 10A2                        | BFLY  | Motor     | Open*/<br>Open            | -            | Yes                       | Q           | FS<br>MT<br>PI<br>LT | K-4<br>(Sh. 3) |                 | *Shut only while testing<br>RSS pump, leak test per<br>10CFR50 Appendix J -<br>Pen. 108 |
| 3-RSS-V957   | 10A2                        | BFLY. | Motor     | Open*/<br>Open            | -            | Yes                       | Q           | FS<br>MT<br>PI<br>LT | L-3<br>(Sh. 3) |                 | *Shut only while testing<br>RSS pump, leak test per<br>10CFR50 Appendix J -<br>Pen. 107 |
| 3-RSS-V974   | 8B2                         | GA.   | Motor     | Closed/<br>Open           | -            | Yes                       | Q           | FS<br>MT<br>PI       | I-9<br>(Sh. 3) |                 |   |
| 3-RSS-V976   | 8B2                         | GA.   | Motor     | Closed/<br>Open           | -            | Yes                       | Q           | FS<br>MT<br>PI       | J-4<br>(Sh. 3) |                 |   |



MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD                    | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                            |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|--------------------------------|----------------------|----------------|-----------------|---|
| 3-SIH-V3     | 4A2                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI                       | FS<br>MT<br>LT<br>PI | H-3<br>(Sh. 1) |                 | Leak test per 10CFR50 Appendix J - Pen. 51                |
| 3-SIH-V4     | 4A2                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI                       | FS<br>MT<br>LT<br>PI | H-4<br>(Sh. 1) |                 | Leak test per 10CFR50 Appendix J - Pen. 51                |
| 3-SIH-V5     | 3AC1                        | CHK. | -         | Closed/<br>Open           | -            | -                         | <del>RO</del><br><del>PS</del> | FS<br>LT             | J-4<br>(Sh. 1) | R               | Leak test per Section XI and 10CFR50 Appendix J - Pen. 51 |
| 3-SIH-V10    | 8B2                         | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | CS<br>BI                       | FS<br>MT<br>PI       | A-7<br>(Sh. 2) |                 |   |
| 3-SIH-V11    | 8C2                         | CHK. | -         | Closed/<br>Open           | -            | -                         | Q                              | FS                   | B-7<br>(Sh. 2) |                 |   |
| 3-SIH-V12    | 6B2                         | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI                        | FS<br>MT<br>PI       | B-5<br>(Sh. 2) |                 |   |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD   | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                 |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|---------------|----------------------|----------------|-----------------|---|
| 3-SIH-V13    | 4C2                         | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO       | PS<br>FS             | E-2<br>(Sh. 2) | R               |   |
| 3-SIH-V15    | 4B2                         | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | Q<br>BI       | FS<br>MT<br>PI       | G-4<br>(Sh. 2) |                 |   |
| 3-SIH-V16    | 6B2                         | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | Q<br>BI       | FS<br>MT<br>PI       | B-8<br>(Sh. 2) |                 |   |
| 3-SIH-V17    | 4C2                         | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO       | PS<br>FS             | E-9<br>(Sh. 2) | R               |   |
| 3-SIH-V19    | 4B2                         | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | Q<br>BI       | FS<br>MT<br>PI       | G-8<br>(Sh. 2) |                 |   |
| 3-SIH-V20    | 4A2                         | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | CS<br>BI      | FS<br>MT<br>LT<br>PI | H-7<br>(Sh. 2) |                 | Leak test per 10CFR50<br>Appendix J - Pen. 98 |
| 3-SIH-V22    | 2AC2                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO<br>BI | PS<br>FS<br>LT       | K-5<br>(Sh. 2) | R               | Leak test per 10CFR50<br>Appendix J - Pen. 98 |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD   | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS   |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|---------------|----------------------|----------------|-----------------|---|
| 3-SIH-V24    | 2AC2                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO<br>BI | PS<br>FS<br>LT       | K-5<br>(Sh. 2) | R               | Leak test per 10CFR50 Appendix J - Pen. 98  |
| 3-SIH-V26    | 2AC2                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO<br>BI | PS<br>FS<br>LT       | K-6<br>(Sh. 2) | R               | Leak test per 10CFR50 Appendix J - Pen. 98  |
| 3-SIH-V28    | 2AC2                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO<br>BI | PS<br>FS<br>LT       | K-7<br>(Sh. 2) | R               | Leak test per 10CFR50 Appendix J - Pen. 98  |
| 3-SIH-V65    | 3/4A2                       | GA.  | Air       | Closed/<br>Closed        | FC           | Yes                       | RO<br>BI      | FS<br>MT<br>FT<br>LT | I-6<br>(Sh. 1) | R               | Open when being used to perform test following each refueling, leak test per 10CFR50 Appendix J - Pen. 51 |
| 3-SIH-V75    | 3/4B2                       | REL. | -         | Closed/<br>Open          | -            | -                         | *             | SRV                  | B-6<br>(Sh. 2) |                 | *Per IWV-3511 test schedule   |
| 3-SIH-V76    | 6B2                         | GA.  | Motor     | Closed/<br>Open          | -            | Yes                       | Q<br>BI       | FS<br>MT<br>PI       | C-4<br>(Sh. 2) |                 |   |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|----------------|-----------------|--------------------------------|
| 3-SIH-V77    | 6B2                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | Q           | FS<br>MT<br>PI   | C-5<br>(Sh. 2) |                 |                                |
| 3-SIH-V78    | 6B2                         | GA.  | Motor     | Open/<br>Open             | -            | Yes                       | Q           | FS<br>MT<br>PI   | D-5<br>(Sh. 2) |                 |                                |
| 3-SIH-V81    | 1 1/2 C2                    | CHK. | -         | Closed/<br>Open           | -            | -                         | Q           | FS               | E-4<br>(Sh. 2) |                 |                                |
| 3-SIH-V82    | 1 1/2 B2                    | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q           | FS<br>MT<br>PI   | E-4<br>(Sh. 2) |                 |                                |
| 3-SIH-V83    | 1 1/2 B2                    | CHK. | -         | Closed/<br>Open           | -            | -                         | Q           | FS               | E-8<br>(Sh. 2) |                 |                                |
| 3-SIH-V84    | 1 1/2 B2                    | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q           | FS<br>MT<br>PI   | E-8<br>(Sh. 2) |                 |                                |
| 3-SIH-V92    | 3/4 C2                      | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | G-2<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |



MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                                    |
|--------------|-----------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|---|
| 3-SIH-V93    | 4A2             | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | H-3<br>(Sh. 2) |                 | Leak test per 10CFR50 Appendix J - Pen. 96                        |
| 3-SIH-V94    | 3/4A2           | GA.  | Air       | Closed/<br>Closed         | FC           | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | J-4<br>(Sh. 2) |                 | Open only for testing, leak test per 10CFR50 Appendix J - Pen. 99 |
| 3-SIH-V99    | 3/4C2           | REL. | -         | Closed/<br>Open           | -            | -                         | *<br>SRV    |                      | H-9<br>(Sh. 2) |                 | *Per IWV-3511 test schedule                                       |
| 3-SIH-V100   | 4A2             | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | H-9<br>(Sh. 2) |                 | Leak test per 10CFR50 Appendix J - Pen. 97                        |
| 3-SIH-V101   | 3/4C2           | REL. | -         | Closed/<br>Open           | -            | -                         | *<br>SRV    |                      | H-7<br>(Sh. 2) |                 | *Per IWV-3511 test schedule                                       |
| 3-SIH-V102   | 3/4A2           | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | K-4<br>(Sh. 2) |                 | *Opened for testing, leak test per 10CFR50, Appendix J Pen. 96    |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                                   |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|---|
| 3-SIH-V103   | 3/4A2                       | GA.  | Air       | Closed*/<br>Closed       | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | J-8<br>(Sh. 2)  |                 | *Opened for testing, leak test per 10CFR50 Appendix J - Pen. 97 |
| 3-SIH-V104   | 3/4A2                       | GA.  | Air       | Closed*/<br>Closed       | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | J-8<br>(Sh. 2)  |                 | *Opened for testing, leak test per 10CFR50 Appendix J - Pen. 98 |
| 3-SIH-V110   | 2AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT       | K-10<br>(Sh. 2) | R               | Leak test per Section XI and 10CFR50 Appendix J - Pen. 97       |
| 3-SIH-V112   | 2AC1                        | CHK. | -         | Closed/<br>Open          | -            | -                         | Q<br>RO     | PS<br>FS<br>LT       | K-9<br>(Sh. 2)  | R               | Leak test per Section XI and 10CFR50 Appendix J - Pen. 97       |
| 3-SIH-V962   | 3B2                         | GA.  | Motor     | Open/<br>Closed          | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | D-7<br>(Sh. 2)  |                 |   |
| 3-SIH-V987   | 3/4A2                       | GA.  | Air       | Closed/<br>Closed        | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | G-9<br>(Sh. 1)  |                 | Open for testing, leak test per 10CFR50 Appendix J - Pen. 99    |

System: High Pressure  
 Safety Injection  
 Drawing: 25212-26913

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD  | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                                |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|--------------|----------------------|----------------|-----------------|--|
| 3-SIH-V988   | 3/4A2                       | GA.  | Air       | Closed/<br>Closed        | FC           | Yes                       | Q<br><br>BI  | FS<br>MT<br>PI<br>LT | D-9<br>(Sh. 1) |                 | Open for testing, Leak test per 10CFR50 Appendix J - Pen. 99 |
| 3-CHS-V259   | 8B2                         | GA.  | Motor     | Closed/<br>Open          | -            | Yes                       | CS<br><br>BI | FS<br>MT<br>PI       | D-3<br>(Sh. 1) |                 |  |
| 3-CHS-V260   | 8B2                         | GA.  | Motor     | Closed/<br>Open          | -            | Yes                       | CS<br><br>BI | FS<br>MT<br>PI       | D-4<br>(Sh. 1) |                 |  |
| 3-CHS-V251   | 8C2                         | CHK. | -         | Closed/<br>Open          | -            | -                         | RO           | FE                   | B-4<br>(Sh. 1) | R               |  |
| 3-RCS-V29    | 1 1/2 AC1                   | CHK. | -         | Closed/<br>Open          | -            | -                         | RO           | FS<br>LT             | M-4<br>(Sh. 1) | R               | Leak test per Section XI                                     |
| 3-RCS-V70    | 1 1/2 AC1                   | CHK. | -         | Closed/<br>Open          | -            | -                         | RO           | FS<br>LT             | M-5<br>(Sh. 1) | R               | Leak test per Section XI                                     |
| 3-RCS-V106   | 1 1/2 AC1                   | CHK. | -         | Closed/<br>Open          | -            | -                         | RO           | FS<br>LT             | M-2<br>(Sh. 1) | R               | Leak test per Section XI                                     |

System: High Pressure  
 Safety Injection  
 Drawing: 25212-26913

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING | COORD.         | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------|----------------|--------------------|-----------------------------------|
| 3-RCS-V145      | 1 1/2 AC1                         | CHK. | -         | Closed/<br>Open                 | -               | -                               | RO             | FS<br>LT            | M-3<br>(Sh. 1) | R                  | Leak test per Section XI          |



System: Safety Injection  
Pump Cooling  
Drawing: 25212-26914

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MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING | COORD. | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------|--------|--------------------|-----------------------------------|
| 3-CCI-V1        | 1C3                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | Q              | FS                  | K-5    |                    |                                   |
| 3-CCI-V8        | 1C3                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | Q              | FS                  | K-9    |                    |                                   |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS  |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|--------|-----------------|---|
| 3-QSS-V3     | 12A2                        | BFLY. | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | E-6    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 100  |
| 3-QSS-V4     | 12AC2                       | CHK.  | -         | Closed/<br>Open           | -            | -                         | INT*<br>BI  | FS<br>LT             | K-6    | R               | *Full stroke during spray<br>header flow test<br>Leak test per 10CFR50<br>Appendix J - Pen. 100 |
| 3-QSS-V7     | 12A2                        | BFLY. | Motor     | Closed/<br>Open           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT | K-8    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 101  |
| 3-QSS-V8     | 12AC2                       | CHK.  | -         | Closed/<br>Open           | -            | -                         | INT*<br>BI  | FS<br>LT             | L-8    | R               | *Full stroke during spray<br>header flow test<br>Leak test per 10CFR50<br>Appendix J - Pen. 101 |
| 3-QSS-V9     | 12B2                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | G-4    |                 |   |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS             |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|--------|-----------------|--|
| 3-QSS-V10    | 12B2                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br><br>BI | FS<br>MT<br>FT<br>PI | G-4    |                 |  |
| 3-QSS-V30    | 6B2                         | GA.   | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br><br>BI | FS<br>MT<br>PI       | I-4    |                 |  |
| 3-QSS-V31    | 6B2                         | GA.   | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br><br>BI | FS<br>MT<br>PI       | I-4    |                 |  |
| 3-QSS-V945   | 12B2                        | BFLY. | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br><br>BI | FS<br>MT<br>PI       | J-6    |                 |  |
| 3-QSS-V946   | 12B2                        | BFLY. | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br><br>BI | FS<br>MT<br>PI       | J-8    |                 |  |
| 3-QSS-V976   | 8C2                         | CHK.  | -         | Closed/<br>Open           | -            | -                         | INT*        | FS                   | K-8    | R               | *Full stroke during spray header flow test |
| 3-QSS-V977   | 8C2                         | CHK.  | -         | Closed/<br>Open           | -            | -                         | INT*        | FS                   | K-7    | R               | *Full stroke during spray header flow test |

System: Quench Spray  
System  
Drawing: 25212-26915

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HILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING | COORD. | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS             |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------|--------|--------------------|---|
| 3-QSS-V978      | 12C2                              | CHK. | -         | Closed/<br>Open                 | -               | -                               | INT*           | FS                  | M-8    | R                  | *Full stroke during spray<br>header flow test |
| 3-QSS-V979      | 12C2                              | CHK. | -         | Closed/<br>Open                 | -               | -                               | INT*           | FS                  | M-7    | R                  | *Full stroke during spray<br>header flow test |



HILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION   | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                      |
|--------------|-----------------------------|------|-----------|-----------------------------|--------------|---------------------------|-------------|------------------|--------|-----------------|---|
| 3-HCS-V1     | 2AC2                        | CHK. | -         | Closed/<br>Closed-Open      | -            | -                         | Q           | FS               | A-8    |                 |   |
| 3-HCS-V2     | 2A2                         | DIA. | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | B-8    |                 | Leak test per 10CFR50 Appendix J (passive) Pen. 111 |
| 3-HCS-V3     | 2A2                         | DIA. | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | B-8    |                 | Leak test per 10CFR50 Appendix J (passive) Pen. 111 |
| 3-HCS-V6     | 2A2                         | DIA. | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | B-8    |                 | Leak test per 10CFR50 Appendix J (passive) Pen. 113 |
| 3-HCS-V7     | 2AC2                        | CHK. | -         | Closed/<br>Closed-Open      | -            | -                         | Q<br>BI     | FS<br>LT         | A-8    |                 | Leak test per 10CFR50 Appendix J (passive) Pen. 113 |
| 3-HCS-V8     | 2AC2                        | CHK. | -         | Closed/<br>Closed-Open      | -            | -                         | Q           | FS               | A-10   |                 |   |
| 3-HCS-V9     | 2A2                         | DIA. | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | B-10   |                 | Leak test per 10CFR50 Appendix J (passive) Pen. 112 |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION    | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD. | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                       |
|--------------|-----------------------------|------|-----------|-----------------------------|--------------|---------------------------|-------------|------------------|--------|-----------------|---|
| 3-HCS-V10    | 2A2                         | DIA. | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | B-10   |                 | Leak test per 10CFR50 Appendix J (passive) Pen. 112 |
| 3-HCS-V13    | 2A2                         | DIA. | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | B-11   |                 | Leak test per 10CFR50 Appendix J (passive) Pen. 114 |
| 3-HCS-V14    | 2AC2                        | CHK. | -         | Closed/<br>Closed-Open      | -            | -                         | Q<br>BI     | FS<br>LT         | A-11   |                 | Leak test per 10CFR50 Appendix J - Pen. 114         |

System: Primary Grade  
 Water System  
 Drawing: 25212-26919

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                 |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|----------------------------|--------|-----------------|---|
| 3-PGS-V31    | 3A2                         | GA.  | Air       | Open/<br>Closed          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | L-1    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 15 |
| 3-PGS-V32    | 3A2                         | GA.  | Air       | Open/<br>Closed          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | K-1    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 15 |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION          | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                |
|--------------|-----------------------------|-------|-----------|------------------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|---|
| 3-CCP-V1     | 18C3                        | CHK.  | -         | Open or Closed/<br>Open and Closed | -            | -                         | CS          | FS                   | F-5<br>(Sh. 1) |                 |   |
| 3-CCP-V2     | 18C3                        | CHK.  | -         | Closed or Open/<br>Open and Closed | -            | -                         | CS          | FS                   | F-6<br>(Sh. 1) |                 |   |
| 3-CCP-V3     | 18C3                        | CHK.  | -         | Open or Closed/<br>Open and Closed | -            | -                         | CS          | FS                   | F-7<br>(Sh. 1) |                 |   |
| 3-CCP-V17    | 10A2                        | BFLY. | Motor     | Open/<br>Closed                    | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI<br>LT | B-2<br>(Sh. 2) |                 | Leak test per 10CFR50<br>Appendix J - Pen. 39 |
| 3-CCP-V18    | 10C2                        | CHK.  | -         | Open/<br>Closed                    | -            | -                         | Q           | FS                   | E-2<br>(Sh. 2) |                 |   |
| 3-CCP-V19    | 4B3                         | BFLY. | Motor     | Closed/<br>Open-Closed             | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | G-2<br>(Sh. 2) |                 |   |



MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-CCP-V20    | 4B3                         | BFLY. | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | H-2<br>(Sh. 2) |                 |                                |
| 3-CCP-V21    | 4B3                         | BFLY. | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | F-4<br>(Sh. 2) |                 |                                |
| 3-CCP-V22    | 4B3                         | BFLY. | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | F-3<br>(Sh. 2) |                 |                                |
| 3-CCP-V44    | 6B3                         | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | L-2<br>(Sh. 2) |                 |                                |
| 3-CCP-V45    | 6B3                         | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | J-2<br>(Sh. 2) |                 |                                |
| 3-CCP-V48    | 10B2                        | GA.   | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | E-2<br>(Sh. 2) |                 |                                |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|---|
| 3-CCP-V49    | 10A2                        | GA.   | Motor     | Open/<br>Closed           | -            | Yes                       | Q           | FS<br>MT<br>PI<br>LT | D-2<br>(Sh. 2)  |                 | Leak test per 10CFR50<br>Appendix J - Pen. 41 |
| 3-CCP-V59    | 10A2                        | GA.   | Motor     | Open/<br>Closed           | -            | Yes                       | Q           | FS<br>MT<br>PI<br>LT | C-10<br>(Sh. 2) |                 | Leak test per 10CFR50<br>Appendix J - Pen. 40 |
| 3-CCP-V60    | 10C2                        | CHK.  | -         | Open/<br>Closed           | -            | -                         | Q           | FS                   | E-10<br>(Sh. 2) |                 |   |
| 3-CCP-V80    | 4B3                         | BFLY. | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q           | FS<br>MT<br>PI       | N-4<br>(Sh. 2)  |                 |   |
| 3-CCP-V81    | 4B3                         | BFLY. | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q           | FS<br>MT<br>PI       | N-5<br>(Sh. 2)  |                 |   |
| 3-CCP-V82    | 4B3                         | BFLY. | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q           | FS<br>MT<br>PI       | L-4<br>(Sh. 2)  |                 |   |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS      |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|-------------------------------------|
| 3-CCP-V83    | 483                         | BFLY. | Motor     | Closed/<br>Open-Closed    | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | L-3<br>(Sh. 2)  |                 |                                     |
| 3-CCP-V84    | 683                         | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | L-2<br>(Sh. 2)  |                 |                                     |
| 3-CCP-V85    | 683                         | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | J-2<br>(Sh. 2)  |                 |                                     |
| 3-CCP-V88    | 10B2                        | BFLY. | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | E-10<br>(Sh. 2) |                 |                                     |
| 3-CCP-V89    | 10A2                        | BFLY. | Motor     | Open/<br>Closed           | -            | Yes                       | Q           | FS<br>MT<br>PI<br>LT | C-10<br>(Sh. 2) |                 | Leak test per 10CFR50<br>Appendix J |
| 3-CCP-V105   | 18B3                        | BFLY. | Air       | Closed/<br>Open           | FO           | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | M-2<br>(Sh. 1)  |                 |                                     |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-CCP-V119   | 18B3                        | BFLY. | Air       | Closed/<br>Open           | FO           | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | F-9<br>(Sh. 1) |                 |                                |
| 3-CCP-V122   | 16B3                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | K-5<br>(Sh. 1) |                 |                                |
| 3-CCP-V123   | 16B3                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | K-5<br>(Sh. 1) |                 |                                |
| 3-CCP-V202   | 16B3                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | B-6<br>(Sh. 1) |                 |                                |
| 3-CCP-V203   | 16B3                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | C-6<br>(Sh. 1) |                 |                                |



MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                                  |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|---|
| 3-CCP-V204   | 12B3                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | K-6<br>(Sh. 1) |                 |   |
| 3-CCP-V205   | 12B3                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | L-6<br>(Sh. 1) |                 |   |
| 3-CCP-V288   | 12B3                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | B-7<br>(Sh. 1) |                 |   |
| 3-CCP-V289   | 12B3                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-7<br>(Sh. 1) |                 |   |
| 3-CCP-V886   | 2A2                         | GA.   | Manual    | Closed/<br>Closed         | -            | -                         | BI          | LT                   | C-1<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J only - Pen. 70<br>(passive) |

System: Reactor Plant  
Component Cooling Water  
Drawing: 25212-26921

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MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING | COORD.         | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS                               |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------|----------------|--------------------|---|
| 3-CCP-V887      | 2A2                               | GA.  | Manual    | Closed/<br>Closed               | -               | -                               | BI             | LT                  | D-1<br>(Sh. 1) |                    | Leak test per 10CFR50<br>Appendix J only - Pen. 70<br>(passive) |

HILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD  | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                 |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|--------------|----------------------------|--------|-----------------|--|
| 3-CDS-V55    | 10A2                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | L-5    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 38  |
| 3-CDS-V56    | 10A2                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | M-5    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 38  |
| 3-CDS-V96    | 10A2                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | M-1    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 116 |
| 3-CDS-V97    | 10A2                        | BFLY. | Air       | Open/<br>Closed           | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | L-1    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 116 |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD  | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                 |
|--------------|-----------------------------|-------|-----------|--------------------------|--------------|---------------------------|--------------|----------------------------|--------|-----------------|---|
| 3-CDS-V105   | 10A2                        | BFLY. | Air       | Open/<br>Closed          | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | J-7    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 72 |
| 3-CDS-V106   | 10A2                        | BFLY. | Air       | Open/<br>Closed          | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | K-7    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 72 |
| 3-CDS-V145   | 10A2                        | BFLY. | Air       | Open/<br>Closed          | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | K-10   |                 | Leak test per 10CFR50<br>Appendix J - Pen. 45 |
| 3-CDS-V146   | 10A2                        | BFLY. | Air       | Open/<br>Closed          | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | J-10   |                 | Leak test per 10CFR50<br>Appendix J - Pen. 45 |



MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD   | REQUIRED TESTING           | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS  |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|---------------|----------------------------|-----------------|-----------------|---|
| 3-MSS-V1     | 30B2                        | GL.  | Steam     | Open/<br>Closed           | FC           | Yes                       | Q<br>CS       | PS<br>FS<br>MT<br>FT<br>PI | I-4<br>(Sh. 2)  |                 | Full stroke at hot standby before returned to power   |
| 3-MSS-V2     | 3B2                         | GA.  | Air       | Closed*/<br>Closed        | -            | Yes                       | CS<br>BI      | FS<br>MT<br>PI             | I-6<br>(Sh. 2)  |                 | *Open while warming steam lines during startup, full stroke at hot standby before return to power |
| 3-MSS-V4     | 30B2                        | GL.  | Steam     | Open/<br>Closed           | FC           | Yes                       | Q<br>CS<br>BI | PS<br>FS<br>MT<br>FT<br>PI | I-8<br>(Sh. 2)  |                 | Full stroke at hot standby, before return to power.   |
| 3-MSS-V5     | 3B2                         | GA.  | Air       | Closed*/<br>Closed        | -            | Yes                       | CS<br>BI      | FS<br>MT<br>PI             | I-10<br>(Sh. 2) |                 | *Open while warming steam lines during startup, full stroke at hot standby before return to power |

System: Main Steam and  
Blowdown Systems  
Drawing: 25212-26923

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MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE  | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING        | COORD.          | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS  |
|-----------------|-----------------------------------|-------|-----------|---------------------------------|-----------------|---------------------------------|----------------|----------------------------|-----------------|--------------------|--|
| 3-MSS-V7        | 30B2                              | GL.   | Steam     | Open/<br>Closed                 | FC              | Yes                             | Q<br>CS        | PS<br>FS<br>MT<br>FT<br>PI | I-5<br>(Sh. 5)  |                    | Full stroke at hot standby<br>before return to power   |
| 3-MSS-V8        | 3B2                               | GA.   | Air       | Closed*/<br>Closed              | -               | Yes                             | CS<br>BI       | FS<br>MT<br>PI             | I-6<br>(Sh. 5)  |                    | *Open while warming steam<br>lines during startup, full<br>stroke at hot standby<br>before return to power |
| 3-MSS-V10       | 30B2                              | GL.   | Steam     | Open/<br>Closed                 | FC              | Yes                             | Q<br>CS<br>BI  | PS<br>FS<br>MT<br>FT<br>PI | I-9<br>(Sh. 5)  |                    | Full stroke at hot standby<br>before return to power   |
| 3-MSS-V11       | 3B2                               | GA.   | Air       | Closed*/<br>Closed              | -               | Yes                             | CS<br>BI       | FS<br>MT<br>PI             | I-10<br>(Sh. 5) |                    | *Open while warming steam<br>lines during startup, full<br>stroke at hot standby<br>before return to power |
| 3-MSS-V12       | 3BC2                              | SCHK. | Motor     | Closed/<br>Open                 | -               | Yes                             | Q<br>BI        | FS<br>MT<br>PI             | E-1<br>(Sh. 1)  |                    |  |

HILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-MSS-V37    | 3BC2                        | SCHK. | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | H-1<br>(Sh. 1) |                 |                                |
| 3-MSS-V38    | 3BC2                        | SCHK. | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | C-1<br>(Sh. 1) |                 |                                |
| 3-MSS-V47    | 8B2                         | GA.   | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | G-4<br>(Sh. 2) |                 |                                |
| 3-MSS-V48    | 8B2                         | GA.   | Air       | Closed/<br>Open           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | G-3<br>(Sh. 2) |                 |                                |
| 3-MSS-V49    | 6C2                         | SAF.  | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | B-2<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V50    | 6C2                         | SAF.  | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | C-2<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V51    | 6C2                         | SAF.  | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | D-2<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |

MILLSTONE POINT UNIT 3  
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PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-MSS-V52    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | E-2<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V53    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | F-2<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V54    | 8B2                         | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q           | FS<br>MT             | G-8<br>(Sh. 2) |                 |                                |
| 3-MSS-V55    | 8B2                         | GA.  | Air       | Closed/<br>Open           | FC           | Yes                       | Q<br><br>BI | FS<br>MT<br>FT<br>PI | G-7<br>(Sh. 2) |                 |                                |
| 3-MSS-V56    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | B-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V57    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | C-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V58    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | D-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V59    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | E-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |



MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-MSS-V60    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | F-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V61    | 8B2                         | GA.  | -         | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | G-4<br>(Sh. 5) |                 |                                |
| 3-MSS-V62    | 8B2                         | GA.  | Air       | Closed/<br>Open           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | G-3<br>(Sh. 2) |                 |                                |
| 3-MSS-V63    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | B-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V64    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | C-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V65    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | D-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V66    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | E-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V67    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | F-5<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |

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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|--------------------------------|
| 3-MSS-V68    | 8B2                         | GA   | -         | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | G-8<br>(Sh. 2)  |                 |                                |
| 3-MSS-V69    | 8B2                         | GA.  | Air       | Closed/<br>Open           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | G-7<br>(Sh. 2)  |                 |                                |
| 3-MSS-V70    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | B-10<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V71    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | C-10<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V72    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | D-10<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V73    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | E-10<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-MSS-V74    | 6C2                         | SAF. | -         | Closed/<br>Open           | -            | -                         | *           | SRV                  | F-10<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |

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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPZCIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-MSS-V893   | 8B2                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | G-4<br>(Sh. 2) |                 |                                |
| 3-MSS-V894   | 8B2                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | G-8<br>(Sh. 2) |                 |                                |
| 3-MSS-895    | 8B2                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | H-3<br>(Sh. 2) |                 |                                |
| 3-MSS-896    | 8B2                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | H-8<br>(Sh. 2) |                 |                                |
| 3-MSS-V897   | 3B2                         | GA.  | Air       | Closed/<br>Open           | FO           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | D-2<br>(Sh. 1) |                 |                                |
| 3-MSS-V898   | 3B2                         | GA.  | Air       | Closed/<br>Open           | FO           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | F-2<br>(Sh. 1) |                 |                                |

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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|--------------------------------|
| 3-MSS-V899   | 3S2                         | GA.  | Air       | Closed/<br>Open           | FO           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | B-1<br>(Sh. 1)  |                 |                                |
| 3-BDG-V3     | 4B2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | E-6<br>(Sh. 2)  |                 |                                |
| 3-BDG-V10    | 4B2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | E-4<br>(Sh. 2)  |                 |                                |
| 3-BDG-V17    | 4B2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | E-8<br>(Sh. 2)  |                 |                                |
| 3-BDG-V24    | 4B2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | E-11<br>(Sh. 2) |                 |                                |



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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-FWS-V20    | 18B2                        | GA.  | Hydraulic | Open/<br>Closed           | FC           | Yes                       | CS          | FS<br>MT<br>FT<br>PI | H-2<br>(Sh. 1) |                 |                                |
| 3-FWS-V27    | 18B2                        | GA.  | Hydraulic | Open/<br>Closed           | FC           | Yes                       | CS          | FS<br>MT<br>FT<br>PI | H-4<br>(Sh. 1) |                 |                                |
| 3-FWS-V34    | 18B2                        | GA.  | Hydraulic | Open/<br>Closed           | FC           | Yes                       | CS          | FS<br>MT<br>FT<br>PI | H-6<br>(Sh. 1) |                 |                                |
| 3-FWS-V41    | 18B2                        | GA.  | Hydraulic | Open/<br>Closed           | FC           | Yes                       | CS          | FS<br>MT<br>FT<br>PI | H-8<br>(Sh. 1) |                 |                                |
| 3-FWS-V898   | 20C2                        | CHK. | -         | Open/<br>Closed           | -            | -                         | CS          | FS                   | I-2<br>(Sh. 1) |                 |                                |

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| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING | COORD.         | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------|----------------|--------------------|-----------------------------------|
| 3-FWS-V899      | 20C2                              | CHK. | -         | Open/<br>Closed                 | -               | -                               | CS             | FS                  | I-2<br>(Sh. 1) |                    |                                   |
| 3-FWS-V920      | 20C2                              | CHK. | -         | Open/<br>Closed                 | -               | -                               | CS             | FS                  | I-2<br>(Sh. 1) |                    |                                   |
| 3-FWS-V921      | 20C2                              | CHK. | -         | Open/<br>Closed                 | -               | -                               | CS             | FS                  | I-2<br>(Sh. 1) |                    |                                   |
| 3-FWA-V3        | 6C3                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | CS             | FS                  | H-4<br>(Sh. 2) |                    |                                   |
| 3-FWA-V7        | 3C3                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | CS             | FS                  | J-4<br>(Sh. 2) |                    |                                   |
| 3-FWA-V9        | 4C2                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | CS             | FS                  | L-4<br>(Sh. 2) |                    |                                   |
| 3-FWA-V12       | 3C3                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | CS             | FS                  | J-2<br>(Sh. 2) |                    |                                   |
| 3-FWA-V14       | 4C2                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | CS             | FS                  | L-2<br>(Sh. 2) |                    |                                   |
| 3-FWA-V17       | 8C3                               | CHK. | -         | Closed/<br>Open                 | -               | -                               | CS             | FS                  | E-8<br>(Sh. 2) |                    |                                   |

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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|-----------------|-----------------|--------------------------------|
| 3-FWA-V21    | 3C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | I-7<br>(Sh. 2)  |                 |                                |
| 3-FWA-V23    | 4C2                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | K-7<br>(Sh. 2)  |                 |                                |
| 3-FWA-V26    | 3C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | H-10<br>(Sh. 2) |                 |                                |
| 3-FWA-V28    | 4C2                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | J-10<br>(Sh. 2) |                 |                                |
| 3-FWA-V31    | 8C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | E-10<br>(Sh. 2) |                 |                                |
| 3-FWA-V35    | 3C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | H-11<br>(Sh. 2) |                 |                                |
| 3-FWA-V39    | 3C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | H-8<br>(Sh. 2)  |                 |                                |
| 3-FWA-V43    | 3C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | J-5<br>(Sh. 2)  |                 |                                |
| 3-FWA-V47    | 3C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | J-3<br>(Sh. 2)  |                 |                                |

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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|-----------------|-----------------|--------------------------------|
| 3-FWA-V882   | 6C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | L-4<br>(Sh. 2)  |                 |                                |
| 3-FWA-V883   | 6C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | J-7<br>(Sh. 2)  |                 |                                |
| 3-FWA-V884   | 6C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | J-10<br>(Sh. 2) |                 |                                |
| 3-FWA-V885   | 6C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | CS          | FS               | L-2<br>(Sh. 2)  |                 |                                |
| 3-FWA-V915   | 2C3                         | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | D-10<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |



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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION          | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|-------|-----------|------------------------------------|--------------|---------------------------|-------------|------------------|----------------|-----------------|--------------------------------|
| 3-SWP-V1     | 30C3                        | CHK.  | -         | Open or Closed/<br>Open and Closed | -            | -                         | Q           | FS               | C-2<br>(Sh. 1) |                 |                                |
| 3-SWP-V2     | 30B3                        | BFLY. | Motor     | Open or Closed/<br>Open and Closed | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | C-2<br>(Sh. 1) |                 |                                |
| 3-SWP-V3     | 30C3                        | CHK.  | -         | Closed or Open/<br>Open and Closed | -            | -                         | Q           | FS               | C-4<br>(Sh. 1) |                 |                                |
| 3-SWP-V4     | 30B3                        | BFLY. | Motor     | Closed or Open/<br>Open and Closed | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | C-4<br>(Sh. 1) |                 |                                |
| 3-SWP-V5     | 30C3                        | CHK.  | -         | Open or Closed/<br>Open and Closed | -            | -                         | Q           | FS               | C-7<br>(Sh. 1) |                 |                                |

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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION          | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|-------|-----------|------------------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|--------------------------------|
| 3-SWP-V6     | 30B3                        | BFLY. | Motor     | Open or Closed/<br>Open and Closed | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | C-7<br>(Sh. 1)  |                 |                                |
| 3-SWP-V7     | 30C3                        | CHK.  | -         | Closed or Open/<br>Open and Closed | -            | -                         | Q           | FS                   | C-9<br>(Sh. 1)  |                 |                                |
| 3-SWP-V8     | 30C3                        | BFLY. | Motor     | Closed or Open/<br>Open and Closed | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | C-9<br>(Sh. 1)  |                 |                                |
| 3-SWP-V10    | 6C3                         | CHK.  | -         | Open/<br>Closed                    | -            | -                         | Q           | FS                   | C-11<br>(Sh. 2) |                 |                                |
| 3-SWP-V17    | 10B3                        | BFLY. | Air       | Closed/<br>Open                    | FO           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | E-8<br>(Sh. 2)  |                 |                                |
| 3-SWP-V25    | 18B3                        | BFLY. | Motor     | Closed/<br>Open                    | -            | Yes                       | RO<br>BI    | FS<br>MT<br>PI       | D-6<br>(Sh. 2)  | R               |                                |

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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|-------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|--------------------------------|
| 3-SWP-V27    | 18B3                        | BFLY. | Motor     | Closed/<br>Open           | -            | Yes                       | RO<br>BI    | FS<br>MT<br>PI       | D-5<br>(Sh. 2)  | R               |                                |
| 3-SWP-V29    | 18B3                        | BFLY. | Motor     | Open/<br>Closed           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI       | I-11<br>(Sh. 2) |                 |                                |
| 3-SWP-V33    | 30B3                        | BFLY. | Motor     | Open/<br>Closed           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI       | K-6<br>(Sh. 2)  |                 |                                |
| 3-SWP-V43    | 6C3                         | CHK.  | -         | Open/<br>Closed           | -            | -                         | Q           | FS                   | C-3<br>(Sh. 2)  |                 |                                |
| 3-SWP-V50    | 10B3                        | BFLY. | Air       | Closed/<br>Open           | FO           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | E-4<br>(Sh. 2)  |                 |                                |
| 3-SWP-V58    | 18B3                        | BFLY. | Motor     | Closed/<br>Open           | -            | Yes                       | RO<br>BI    | FS<br>MT<br>PI       | F-5<br>(Sh. 2)  | R               |                                |

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|--------------|-----------------------------|-------|-----------|--------------------------|--------------|---------------------------|-------------|------------------|-----------------|-----------------|-------------------------------|
| 3-SWP-V60    | 18B3                        | BFLY. | Motor     | Closed/<br>Open          | -            | Yes                       | RO<br>BI    | FS<br>MT<br>PI   | F-7<br>(Sh. 2)  | R               |                               |
| 3-SWP-V62    | 18B3                        | BFLY. | Motor     | Open/<br>Closed          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI   | J-2<br>(Sh. 2)  |                 |                               |
| 3-SWP-V65    | 30B3                        | BFLY. | Motor     | Open/<br>Closed          | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI   | K-2<br>(Sh. 2)  |                 |                               |
| 3-SWP-V72    | 3B3                         | GA.   | Motor     | Closed/<br>Open          | -            | -                         | Q           | FS<br>MT         | B-2<br>(Sh. 1)  |                 |                               |
| 3-SWP-V73    | 3B3                         | GA.   | Motor     | Closed/<br>Open          | -            | -                         | Q           | FS<br>MT         | B-5<br>(Sh. 1)  |                 |                               |
| 3-SWP-V74    | 3B3                         | GA.   | Motor     | Closed/<br>Open          | -            | -                         | Q           | FS<br>MT         | B-8<br>(Sh. 1)  |                 |                               |
| 3-SWP-V75    | 3B3                         | GA.   | Motor     | Closed/<br>Open          | -            | -                         | Q           | FS<br>MT         | B-10<br>(Sh. 1) |                 |                               |



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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE                  | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|-----------------------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|-----------------|-----------------|--------------------------------|
| 3-SWP-V97    | 2B3                         | <del>GA</del><br>GATE | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | J-2<br>(Sh. 1)  |                 |                                |
| 3-SWP-V99    | 2B3                         | GA.                   | Motor     | Open/<br>Closed           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | J-9<br>(Sh. 1)  |                 |                                |
| 3-SWP-V297   | 3/4C3                       | REL.                  | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | D-8<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V299   | 3/4C3                       | REL.                  | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | D-4<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V301   | 3/4C3                       | REL.                  | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | D-10<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V302   | 3/4C3                       | REL.                  | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | C-3<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V305   | 3/4C3                       | REL.                  | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | G-4<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V306   | 3/4C3                       | REL.                  | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | G-8<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |

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| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|-----------------|-----------------|--------------------------------|
| 3-SWP-V307   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | G-9<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V308   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | G-3<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V309   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | G-10<br>(Sh. 2) |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V310   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | G-2<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V311   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | C-7<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V312   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | H-6<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V313   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | C-6<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V314   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | H-7<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V315   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | M-5<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|------------------|-----------------|-----------------|--------------------------------|
| 3-SWP-V316   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | M-3<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V317   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | M-4<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V318   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | L-8<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V319   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | L-1<br>(Sh. 2)  |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V823   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | H-10<br>(Sh. 1) |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V825   | 3/4C3                       | REL. | -         | Closed/<br>Open           | -            | -                         | *           | SRV              | K-10<br>(Sh. 1) |                 | *Per IWV-3511 test schedule    |
| 3-SWP-V854   | 3C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | Q           | FS               | F-10<br>(Sh. 1) |                 |                                |
| 3-SWP-V862   | 3B3                         | GATE | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI   | G-10<br>(Sh. 1) |                 |                                |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.          | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|-----------------|-----------------|--------------------------------|
| 3-SWP-V867   | 3C3                         | CHK. | -         | Closed/<br>Open           | -            | -                         | Q           | FS                   | I-10<br>(Sh. 1) |                 |                                |
| 3-SWP-V875   | 3B3                         | GA.  | Motor     | Closed/<br>Open           | -            | Yes                       | Q<br>BI     | FS<br>MT<br>PI       | J-10<br>(Sh. 1) |                 |                                |
| 3-WTC-V1     | 3B3                         | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | E-8<br>(Sh. 1)  |                 | *Open during chlorination      |
| 3-WTC-V11    | 3B3                         | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | I-7<br>(Sh. 1)  |                 | *Open during chlorination      |
| 3-WTC-V12    | 3B3                         | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | I-5<br>(Sh. 1)  |                 | *Open during chlorination      |
| 3-WTC-V972   | 3B3                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q<br>BI     | FS<br>MT<br>FT<br>PI | E-9<br>(Sh. 1)  |                 |                                |



System: Service Water  
 System  
 Drawing: 25212-26933

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS |
|--------------|------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|----------------|-----------------|--------------------------------|
| 3-WTC-V998   | 3B3                    | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | I-4<br>(Sh. 1) |                 |                                |
| 3-WTC-V999   | 3B3                    | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | I-8<br>(Sh. 1) |                 |                                |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS  |
|--------------|------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|----------------|-----------------|---|
| 3-SAS-V50    | 2A2                    | GL.  | Manual    | Closed/<br>Closed         | -            | -                         | BI          | LT                         | E-4<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J (passive) -<br>Pen. 52                        |
| 3-SAS-V875   | 2A2                    | GL.  | Manual    | Closed/<br>Closed         | -            | -                         | BI          | LT                         | F-4<br>(Sh. 1) |                 | Leak test per 10CFR50<br>Appendix J (passive) -<br>Pen. 52                        |
| 3-IAS-V131   | 1 1/2 A2               | GA.  | Air       | Closed*/<br>Closed        | FC           | Yes                       | CS          | FS<br>MT<br>FT<br>PI<br>LT | E-5<br>(Sh. 3) |                 | *May be open during<br>operation<br>Leak test per 10CFR50<br>Appendix J - Pen. 54 |
| 3-IAS-V809   | 2A2                    | GA.  | Motor     | Open/<br>Closed           | -            | Yes                       | CS<br>BI    | FS<br>MT<br>PI<br>LT       | F-5<br>(Sh. 3) |                 | Leak test per 10CFR50<br>Appendix J - Pen. 54                                     |

System: Nitrogen  
 Supply System  
 Drawing: 25212-26939

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                 |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|--------|-----------------|--|
| 3-GSN-V181   | 1A2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | C-10   |                 | Leak test per 10CFR50<br>Appendix J - Pen. 124 |
| 3-GSN-V962   | 1A2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | D-10   |                 | Leak test per 10CFR50<br>Appendix J - Pen. 124 |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMCTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|--------|-----------------|---|
| 3-SSR-V1     | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | J-3    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 12 |
| 3-SSR-V2     | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | J-5    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 12 |
| 3-SSR-V3     | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | I-3    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 12 |
| 3-SSR-V4     | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | I-5    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 12 |



HILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                 |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|----------------------------|--------|-----------------|---|
| 3-SSR-V5     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | H-3    |                 |   |
| 3-SSR-V6     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | H-2    |                 |   |
| 3-SSR-V7     | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | H-3    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 12 |
| 3-SSR-V8     | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | H-5    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 12 |
| 3-SSR-V9     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | G-3    |                 |   |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS                 |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|----------------------------|--------|-----------------|---|
| 3-SSR-V10    | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | E-2    |                 |   |
| 3-SSR-V11    | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | F-2    |                 |   |
| 3-SSR-V12    | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI       | F-2    |                 |   |
| 3-SSR-V13    | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | F-3    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 13 |
| 3-SSR-V14    | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | F-5    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 13 |

MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|--------|-----------------|---|
| 3-SSR-V19    | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | D-3    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 13 |
| 3-SSR-V20    | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | D-5    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 13 |
| 3-SSR-V21    | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | B-3    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 12 |
| 3-SSR-V22    | 3/4A2                       | GA.  | Solenoid  | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | B-5    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 12 |

System: Reactor Plant  
Sampling System:  
Drawing: 25212-26944 (Sh. 2)

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HILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING  | COORD. | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS |
|-----------------|-----------------------------------|------|-----------|---------------------------------|-----------------|---------------------------------|----------------|----------------------|--------|--------------------|-----------------------------------|
| 3-SSR-V978      | 3/8B2                             | GA.  | Solenoid  | Closed/<br>Closed               | FC              | Yes                             | Q<br><br>BI    | FS<br>MT<br>FT<br>PI | I-2    |                    |                                   |



MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD  | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS   |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|--------------|----------------------------|--------|-----------------|---|
| 3-CVS-V2     | 2A2                         | DIA. | Air       | Closed*/<br>Closed       | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | E-3    |                 | *Receives a CIA signal<br>Leak test per 10CFR50<br>Appendix J - Pen. 35 |
| 3-CVS-V3     | 2A2                         | DIA. | Air       | Closed*/<br>Closed       | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | D-3    |                 | *Receives a CIA signal<br>Leak test per 10CFR50<br>Appendix J - Pen. 35 |
| 3-CVS-V6     | 2A2                         | DIA. | Air       | Closed*/<br>Closed       | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | E-6    |                 | *Receives a CIA signal<br>Leak test per 10CFR50<br>Appendix J - Pen. 36 |
| 3-CVS-V7     | 2A2                         | DIA. | Air       | Closed*/<br>Closed       | FC           | Yes                       | CS<br><br>BI | FS<br>MT<br>FT<br>PI<br>LT | D-6    |                 | *Receives a CIA signal<br>Leak test per 10CFR50<br>Appendix J - Pen. 36 |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION   | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                              |
|--------------|-----------------------------|-------|-----------|-----------------------------|--------------|---------------------------|-------------|------------------|--------|-----------------|---|
| 3-CVS-V13    | 2A2                         | DIA   | Manual    | Closed/<br>Closed           | -            | -                         | BI          | LT               | E-4    |                 | Leak test per 10CFR50 Appendix J (locked closed) - Pen. 121 |
| 3-CVS-V19    | 8A2                         | BFLY. | Air       | Closed/<br>Closed           | -            | -                         | BI          | LT               | G-2    |                 | Leak test per 10CFR50 Appendix J - Pen. 37                  |
| 3-CVS-V20    | 8A2                         | GA.   | -         | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | E-2    |                 | Leak test per 10CFR50 Appendix J (locked closed) - Pen. 37  |
| 3-CVS-V971   | 2A2                         | GA.   | Motor     | Closed/<br>Closed           | -            | -                         | BI          | LT               | F-4    |                 | Leak test per 10CFR50 Appendix J (passive) - Pen. 121       |
| 3-HVU-V1     | 42A2                        | BFLY. | Air       | Closed/<br>Closed           | -            | -                         | BI          | LT               | E-10   |                 | Leak test per 10CFR50 Appendix J (passive) - Pen. 85        |
| 3-HVU-V2     | 42A2                        | BFLY. | Air       | Closed/<br>Closed           | -            | -                         | BI          | LT               | G-10   |                 | Leak test per 10CFR50 Appendix J (passive) - Pen. 85        |
| 3-HVU-V3     | 42A2                        | BFLY. | Air       | Closed/<br>Closed           | -            | -                         | BI          | LT               | E-7    |                 | Leak test per 10CFR50 Appendix J (passive) - Pen. 86        |

System: Containment Vacuum  
and Ventilation  
Drawing: 25212-26953

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MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE<br>NUMBER | SIZE<br>CODE CATGY.<br>CODE CLASS | TYPE  | ACTUATION | POSITION<br>NORMAL/<br>FUNCTION | FAILURE<br>MODE | REMOTE<br>POSITION<br>INDICATOR | TEST<br>PERIOD | REQUIRED<br>TESTING | COORD. | RELIEF<br>REQUESTS | COMMENTS/<br>SPECIAL REQUIREMENTS                          |
|-----------------|-----------------------------------|-------|-----------|---------------------------------|-----------------|---------------------------------|----------------|---------------------|--------|--------------------|--|
| 3-HVU-V4        | 42A2                              | BFLY. | Air       | Closed/<br>Closed               | -               | -                               | BI             | LT                  | G-7    |                    | Leak test per 10CFR50<br>Appendix J (passive) -<br>Pen. 86 |
| 3-HVU-V5        | 30A2                              | BFLY. | Manual    | Closed/<br>Closed               | -               | -                               | BI             | LT                  | F-10   |                    | Leak test per 10CFR50<br>Appendix J (passive) -<br>Pen. 85 |

MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING           | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------------|--------|-----------------|---|
| 3-CMS-V4     | 1A2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | E-4    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 64 |
| 3-CMS-V5     | 1A2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | F-4    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 64 |
| 3-CMS-V8     | 1A2                         | GA.  | Air       | Open/<br>Closed           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI<br>LT | E-2    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 63 |
| 3-CMS-V993   | 1A2                         | GL.  | Motor     | Open/<br>Closed           | -            | Yes                       | Q           | FS<br>MT<br>PI<br>LT       | C-2    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 63 |



System: Post Accident  
 Sample System  
 Drawing: 25212-26955

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD. | RELIEF REQUESTS | COMMENTS/SPECIAL REQUIREMENTS |
|--------------|-----------------------------|------|-----------|--------------------------|--------------|---------------------------|-------------|----------------------|--------|-----------------|-------------------------------|
| 3-SSP-V1     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-7    |                 |                               |
| 3-SSP-V2     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-8    |                 |                               |
| 3-SSP-V3     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-9    |                 |                               |
| 3-SSP-V4     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-6    |                 |                               |
| 3-SSP-V5     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open          | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-7    |                 |                               |

System: Post Accident  
 Sample System  
 Drawing: 25212-26955

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MILLSTONE POINT UNIT 3  
 INSERVICE TESTING  
 PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING     | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                 |
|--------------|-----------------------------|------|-----------|---------------------------|--------------|---------------------------|-------------|----------------------|--------|-----------------|--|
| 3-SSP-V6     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-8    |                 |  |
| 3-SSP-V9     | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-10   |                 |  |
| 3-SSP-V10    | 3/8B2                       | GA.  | Solenoid  | Closed/<br>Open           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | C-11   |                 |  |
| 3-SSP-V11    | 3/4A2                       | GA.  | Solenoid  | Closed/<br>Open           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | D-8    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 115 |
| 3-SSP-V12    | 3/4A2                       | GA.  | Solenoid  | Closed/<br>Open           | FC           | Yes                       | Q           | FS<br>MT<br>FT<br>PI | D-9    |                 | Leak test per 10CFR50<br>Appendix J - Pen. 120 |

System: Post Accident  
Sample System  
Drawing: 25212-26955

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MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE | ACTUATION | POSITION NORMAL/ FUNCTION   | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD. | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                        |
|--------------|-----------------------------|------|-----------|-----------------------------|--------------|---------------------------|-------------|------------------|--------|-----------------|---|
| 3-SSP-V13    | 3/4A2                       | GL.  | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | E-8    |                 | Leak test per 10CFR50 Appendix J (passive) - Pen. 115 |
| 3-SSP-V14    | 3/4A2                       | GL.  | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | E-9    |                 | Leak test per 10CFR50 Appendix J (passive) - Pen. 120 |

System: Fire Protection  
System  
Drawing: 25212-26946

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MILLSTONE POINT UNIT 3  
INSERVICE TESTING  
PROGRAM

| VALVE NUMBER | SIZE CODE CATGY. CODE CLASS | TYPE  | ACTUATION | POSITION NORMAL/ FUNCTION   | FAILURE MODE | REMOTE POSITION INDICATOR | TEST PERIOD | REQUIRED TESTING | COORD.         | RELIEF REQUESTS | COMMENTS/ SPECIAL REQUIREMENTS                                   |
|--------------|-----------------------------|-------|-----------|-----------------------------|--------------|---------------------------|-------------|------------------|----------------|-----------------|--|
| 3-FPW-V661   | 6A2                         | GL.   | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | C-4<br>(Sh. 2) |                 | Leak test per 10CFR50<br>Appendix J (passive valve) -<br>Pen. 56 |
| 3-FPW-V663   | 6A2                         | BFLY. | Air       | Closed/<br>Closed           | -            | -                         | BI          | LT               | C-4<br>(Sh. 2) |                 | Leak test per 10CFR50<br>Appendix J (passive valve) -<br>Pen. 56 |
| 3-FPW-V666   | 6A2                         | GL.   | Manual    | Locked<br>Closed/<br>Closed | -            | -                         | BI          | LT               | B-4<br>(Sh. 2) |                 | Leak test per 10CFR50<br>Appendix J (passive valve) -<br>Pen-56  |
| 3-FPW-V668   | 6A2                         | BFLY. | Air       | Closed/<br>Closed           | -            | -                         | BI          | LT               | B-4<br>(Sh. 2) |                 | Leak test per 10CFR50<br>Appendix J (passive valve) -<br>Pen. 56 |