

# WOLF CREEK

NUCLEAR OPERATING CORPORATION

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AUG 26 2003

ET 03-0006

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

Reference: 1) Letter ET 00-0031, dated August 16, 2000, from Richard A. Muench, WCNOC, to USNRC

Subject: Docket No. 50-482: Implementation of the ASME Code for Operation and Maintenance of Nuclear Power Plants, Regarding the Check Valve Monitoring Program

Gentlemen:

In Reference 1 Wolf Creek Nuclear Operating Corporation (WCNOC) committed to fully implement the ASME Code for Operation and Maintenance of Nuclear Power Plants, 1995 Edition with 1996 Addenda of the OM Code, with limitations in 10 CFR 50.55a, for all of the check valves within the WCNOC inservice testing (IST) program by September 1, 2003 (prior to Refueling Outage XIII).

Enclosed is WCNOC's Inservice Testing Program for Pumps and Valves, WCOP-02, Revision 13, approved on August 13, 2003. WCOP-02, Revision 13, documents full implementation of the ASME Code for Operation and Maintenance of Nuclear Power Plants, 1995 Edition with 1996 Addenda of the OM Code, with limitations in 10 CFR 50.55a, for all of the check valves within the WCNOC IST Program. The enclosed revision to the Inservice Testing Program for Pumps and Valves is provided for information only consistent with the guidance in NUREG-1482, "Guidelines for Inservice Testing at Nuclear Power Plants."

No additional commitments are contained in this correspondence.

If you have any questions concerning this matter, please contact me at (620) 364-8831, extension 8384, or Mr. Kevin Moles at (620) 364-4126.

Sincerely,



Kevin L. Scherich

KLS/rig

Enclosure

cc: J. N. Donohew (NRC), w/e  
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A047

# **WOLF CREEK**


## **NUCLEAR OPERATING CORPORATION**

**WCOP-02**

**REVISION 13**

# **INSERVICE TESTING PROGRAM FOR PUMPS AND VALVES**

PREPARED BY:  / 7-30-03

REVIEWED BY:  / 8-12-03

APPROVED BY:  / 8-13-03

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## 1.0 INTRODUCTION

The Wolf Creek Generating Station ASME Inservice Testing Program for pumps and valves will be in effect through the second 120 month inspection period and will be updated in accordance with the requirements of 10 CFR 50.55a(f).

This document outlines the Inservice Testing (IST) Program. The IST Program is based on the requirements of Section XI of the ASME Boiler & Pressure Vessel Code, 1989 Edition; ASME OM-Code 1995 with the 1996 addenda for check valve testing, and ASME Code Case OMN-1 for motor operated valve testing.

The Inservice Inspection (ISI) Classification Boundaries are identical to the Design Classification or Quality Group Boundaries shown on the plant Piping and Instrument Diagrams (P&IDs) listed in Table 1.1. Some valves within the ISI Boundaries are identified as non-classed (NC). This IST Program was developed using the ISI Classification Boundaries and the following documents:

Title 10, Code of Federal Regulations, Part 50, Paragraph 50.55a

Standard Review Plan 3.9.6, "Inservice Testing of Pumps and Valves"

Safety Analysis Report, Wolf Creek Generating Station

Technical Specifications, Wolf Creek Generating Station

NUREG-1482, "Guidelines for Inservice Testing at Nuclear Power Plants"

The Inservice Tests identified in this program will verify the operational readiness of pumps and valves whose functions are required to mitigate the consequences of an accident or to bring the Reactor to and maintain a Cold Shutdown condition.

Table 1.1

PIPING AND INSTRUMENTATION DIAGRAMS

<u>SYSTEM</u>	<u>P&amp;ID</u>
MAIN STEAM SYSTEM	M-12AB01 M-12AB02
MAIN FEEDWATER SYSTEM	M-12AE02
AUXILIARY FEEDWATER SYSTEM	M-12AL01
CONDENSATE STORAGE AND TRANSFER SYSTEM	M-12AP01
REACTOR COOLANT SYSTEM	M-12BB01 M-12BB02 M-12BB03 M-12BB04
CHEMICAL & VOLUME CONTROL SYSTEM	M-12BG01 M-12BG02 M-12BG03 M-12BG04 M-12BG05
REACTOR MAKE-UP WATER SYSTEM	M-12BL01
STEAM GENERATOR BLOWDOWN SYSTEM	M-12BM01
BORATED REFUELING WATER STORAGE SYSTEM	M-12BN01
FUEL POOL COOLING AND CLEAN-UP SYSTEM	M-12EC01 M-12EC02
ESSENTIAL SERVICE WATER SYSTEM	M-K2EF01 M-12EF01 M-12EF02
COMPONENT COOLING WATER SYSTEM	M-12EG01 M-12EG02 M-12EG03
RESIDUAL HEAT REMOVAL SYSTEM	M-12EJ01
HIGH PRESSURE COOLANT INJECTION SYSTEM	M-12EM01 M-12EM02
CONTAINMENT SPRAY SYSTEM	M-12EN01
ACCUMULATOR SAFETY INJECTION SYSTEM	M-12EP01

Table 1.1

PIPING AND INSTRUMENTATION DIAGRAMS

<u>SYSTEM</u>	<u>P&amp;ID</u>
AUXILIARY TURBINES-AUXILIARY FEEDWATER PUMP TURBINE	M-12FC02
CONTAINMENT HYDROGEN CONTROL SYSTEM	M-12GS01
CONTAINMENT PURGE SYSTEM	M-12GT01
LIQUID RADWASTE SYSTEM	M-12HB01
DECONTAMINATION SYSTEM	M-12HD01
EMERGENCY FUEL OIL SYSTEM	M-12JE01
COMPRESSED AIR SYSTEM	M-12KA01 M-12KA02 M-12KA05
CONTAINMENT BREATHING AIR	M-12KB01
FIRE PROTECTION SYSTEM	M-12KC02
STANDBY DIESEL GENERATOR	M-12KJ01 M-12KJ02 M-12KJ03 M-12KJ04 M-12KJ05 M-12KJ06
REACTOR BUILDING AND HOT MACHINE SHOP FLOOR AND EQUIPMENT DRAIN SYSTEM	M-12LF03 M-12LF09
NUCLEAR SAMPLING SYSTEM	M-12SJ01 M-12SJ04

## **2.0        INSERVICE TESTING PROGRAM FOR PUMPS**

### **2.1        General Information**

#### **2.1.1      Applicable Code**

This testing program for ISI Class 1, 2 and 3 Pumps meets the requirements of Subsection IWP of Section XI of the ASME Boiler and Pressure Vessel Code, 1989 Edition as modified by 10 CFR 50.55a(b)(2)(viii) to reference the 1987-88a edition of ASME OM Part 6, "Inservice Testing of Pumps in Light-Water Reactor Power Plants". Where these requirements are determined to be impractical, specific requests for relief are written and included in Section 2.2. Generic Letter No. 89-04 and NUREG 1482 has been used as guidance to improve the IST Program. Certain exceptions to Section XI have been taken as allowed in the Generic Letter and the NUREG.

#### **2.1.2      Pump Program Tables**

The tables in Appendix A list all pumps included in the Wolf Creek Generating Station (WCGS) IST Program. Data contained in these tables identifies those pumps subject to Inservice Testing, the Inservice Test quantities to be measured, the Inservice Testing Frequency, and any applicable remarks. The column headings are listed and explained below:

#### **PUMP IDENTIFICATION**

**PUMP NUMBER:**      The Pump Identification Number.

**SYSTEM:**            The System of which the pump is  
a Component.

**ISI CLASS:**        The ISI Classification of the pump.

**P&ID NUMBER:**      The WCGS Drawing Number for the P&ID  
referring to the pump.

**P&ID COORD:**        The drawing coordinate location of the pump  
on the P&ID.

#### **IST REQUIREMENTS**

**PUMP SPEED, DIFFERENTIAL PRESSURE, FLOW RATE, VIBRATION:**  
When the word "YES" appears in a particular test quantity column, that quantity will be measured or observed during Inservice Testing in accordance with ASME OM Part 6 1987-88a. If a modified test is planned or a test is being waived, a request for relief number will appear in the test quantity column referencing the pump relief request.

## **IST REQUIREMENTS (continued)**

Requests for relief are identified as 2PR-X, where X is the sequential number of the relief. The requests for relief are included in Section 2.2.

### 2.1.3 Measurement of Test Quantities

**SPEED:** Per section ASME OM Part 6 1987-88a 4.6.3, rotational speed measurements of variable speed pumps shall be taken by a method which meets the requirements of section ASME OM Part 6 1987-88a 4.6.1.

**DIFFERENTIAL PRESSURE:** Differential pressure will be calculated from inlet and discharge pressure measurements or by direct differential pressure measurement.

**FLOW RATE:** Flow rate will be measured using a rate or quantity meter installed in the pump test circuit.

**VIBRATION:** Pump vibration will be measured with a digital vibration meter in accordance with the applicable sections ASME OM Part 6 1987-88a 4.6.1 and 4.6.4.

### 2.1.4 Allowable Ranges of Test Quantities

The allowable ranges specified in ASME OM Part 6 1987-88a Table 3 will be used for differential pressure, flow and vibration measurements. Should a measured test quantity fall outside the allowable range, corrective action per ASME OM Part 6 1987-88a 6.1 shall be followed and records maintained in accordance with ASME OM Part 6 1987-88a 7.4.

### 2.1.5 Instrument Accuracy

Allowable instrument accuracy's are given in ASME OM Part 6 1987-88a Table 1. If the accuracy's of the station's instruments are not acceptable, temporary instruments meeting those requirements in ASME OM Part 6 1987-88a Table 1 will be used.

### 2.1.6 Reference Value Accuracy

ASME OM Part 6 1987-88a 5.2 requires that reference conditions be established prior to the commencement of testing. ASME OM Part 6 1987-88a 4.6.1.2 states that the range of analog instruments can be up to 3 times the reference value. The allowable accuracy of the reference condition instruments is 2%. To be within Code Accuracy requirements, a variance from the reference condition up to 2% of three times the reference value minus the accuracy of the flow gauge may be allowed.



**SECTION 2.2**  
**RELIEF REQUESTS FOR PUMP TESTING PROGRAM**

RELIEF REQUEST NO. 2PR-1

PUMPS:

PJE01A and B, Emergency Fuel Oil Transfer Pumps

CLASS:

ISI Class 3

TEST REQUIREMENT:

OMa-1988 Part 6 section 4.6.4(a) On centrifugal pumps, measurements shall be taken....on each accessible pump bearing housing.

BASIS FOR RELIEF:

The Emergency Fuel Oil Transfer pumps are submerged within the Diesel Fuel Oil tanks, thus inaccessible. Therefore, a vibration measurement is impractical.

ALTERNATE TESTING:

The Emergency Fuel Oil Transfer pumps will be refurbished or replaced during the drain down and inspection of the Diesel Fuel Oil tanks on a frequency as described by USAR Table 9.5.4-3, paragraph 2.f (ref. Regulatory Guide 1.137). Given the history of reliability for these pumps, this periodic replacement will provide adequate assurance that bearing degradation will not result in pump failure.

RELIEF REQUEST NO. 2PR-2

PUMPS:

PEJ01A&B, Residual Heat Removal Pumps A and B

CLASS:

ISI Class 2

TEST REQUIREMENT:

OMa-1988 Part 6 section 4.6.1.2. The full scale range of each analog instrument shall not be greater than three times the reference value.

BASIS FOR RELIEF:

Pump discharge pressure is compared to pump suction pressure to determine pump differential pressure. Reference values for discharge pressure for these pumps are between 200 psig and 300 psig. This would require a discharge pressure gauge of 0-600 psig maximum. The accuracy required for this gauge would be 2% of 600 psig which is +/- 12 psig. The permanent discharge pressure gauges currently installed are 0-700 psig with a tolerance of less than +/- 12 psig. Although the permanent instruments are above the maximum range limits they are within the accuracy requirements and are therefore suitable for the test. Reference NUREG 1482 Section 5.5.1.

ALTERNATE TESTING:

Use the present permanently installed discharge pressure gauges

RELIEF REQUEST NO. 2PR-3

PUMPS:

PBG05A&B, Centrifugal Charging Pumps A and B

CLASS:

ISI Class 2

TEST REQUIREMENT:

OMa-1988 Part 6 section 4.6.1.2. The full scale range of each analog instrument shall not be greater than three times the reference value.

BASIS FOR RELIEF:

Reference values for suction pressures for these pumps are between 30 psig and 40 psig. This would require suction pressure gauges of 0-90 psig maximum. The accuracy required for this gauge would be 2% of 90 psig which is +/- 1.8 psig. The permanent suction pressure gauges currently installed are 0-150 psig +/- 1.0 psig. Although the permanent instruments are above the maximum range limits they are within the accuracy requirements and are therefore suitable for the test. Reference NUREG 1482 Section 5.5.1.

ALTERNATE TESTING:

Use the present permanently installed suction pressure gauges

RELIEF REQUEST NO. 2PR-4

PUMPS:

PAL01A&B; PAL02, Motor Driven and Turbine Driven Auxiliary  
Feedwater Pumps Pumps

CLASS:

ISI Class 2

TEST REQUIREMENT:

OMa-1988 Part 6 Section 4.6.1.2. The full scale range of  
each analog instrument shall not be greater than three  
times the reference value.

BASIS FOR RELIEF:

Pump discharge pressure is compared to pump suction  
pressure to determine pump differential pressure.  
Reference values for suction pressure for these pumps is  
about 15 psig. This would require a suction pressure  
gauge of 0-45 psig maximum. The accuracy required for  
this gauge would be 2% of 45 psig which is +/- 0.9 psig.  
The permanent discharge pressure gauges currently  
installed are 0-60 psig with a tolerance less than +/- 0.9  
psig. Although the permanent instruments are above the  
maximum range limits they are within the accuracy  
requirements and are therefore suitable for the test.  
Reference NUREG 1482 Section 5.5.1.

ALTERNATE TESTING:

Use the present permanently installed suction pressure  
gauges

### **3.0        INSERVICE TESTING PROGRAM FOR VALVES**

#### **3.1        General Information**

##### **3.1.1     Applicable Code**

This testing program for ISI Class 1, 2, 3, and NC Valves meets the requirements of Subsection IWV of Section XI of the ASME Boiler and Pressure Vessel Code, 1989 Edition which references the 1987-1988a edition of ASME OM Part 10, "Inservice Testing of Valves in Light-Water Reactor Power Plants". Where these requirements are determined to be impractical or an alternative method is utilized, specific requests for relief have been written and are included in Section 3.2.

##### **3.1.2     Valve Program Tables**

The tables in Appendix B list all ISI Class 1, 2, 3, and NC Valves that have been assigned Valve Categories. Valves exempt per OMA-1988 Part 10 Section 1.2 are not listed. The following information is included for each valve.

#### **VALVE IDENTIFICATION AND IST REQUIREMENTS**

**VALVE Number:**    The Valve Identification Number.

**P&ID Number:**    The Identification Number of the drawing on which the valve can be located.

**P&ID COOR.:**      The drawing coordinate location on the P&ID for the valve.

**ISI CLASS:**        The ISI Classification of the valve  
(NC = Non ASME Code Class).

**ISI CAT:**          The category(s) assigned to the valve based on the definitions per OMA-10, Section 1.4. Four (4) separate categories are defined in the Code:

**Category A** - Valves for which seat leakage is limited to a specific maximum amount in the CLOSED position for fulfillment of their function.

**Category B** - Valves for which seat leakage in the CLOSED position is inconsequential for fulfillment of their function.

**Category C** - Valves which are self-actuating in response to some System characteristic, such as Pressure (Relief Valves) or Flow Direction Check Valves).

**Category D** - Valves which are actuated by an energy source capable of only one operation, such as Rupture Disks or Explosive-Actuated Valves.

**VALVE SIZE:** The nominal size of the valve in inches.

**VALVE TYPE:** The Valve Body Design as indicated by the following abbreviations:

ANGLE	ANG
BALL	BAL
BUTTERFLY	BTF
CHECK	CK
DIAPHRAGM	DIA
GATE	GA
GLOBE	GL
RELIEF	RV
RUPTURE DIAPHRAGM	RPD
SAFETY	SV
STOP CHECK	SCK
THREE WAY	TWY

**ACT TYPE:** The type of Valve Actuator as indicated by the following abbreviations:

MOTOR OPERATION	MO
AIR OPERATOR	AO
SOLENOID OPERATOR	SO
HYDRAULIC OPERATOR	HO
MANUAL	M
SELF ACTUATED	SA

**NORM POS.:** The normal position of the valve during regular plant operation, specified as follows:

O	OPEN
C	CLOSED
L	LOCKED
T	THROTTLED

**TEST RQMT:** The test(s) that will be performed to fulfill the requirements of Part 10. The test definitions and abbreviations used are identified in Table 3.1-1.

**TEST FREQ:** The frequency at which the above mentioned tests will be performed. Test frequencies are defined in Table 3.1-2.

**RELIEF REQUEST:**

The reference to a Relief Request in Section 3.2 for valve testing. Requests for relief are identified as 2VR-XX.

**TEST PROCEDURE:**

This references the test procedure that the applicable test is performed in or verified by.

**NOTES:**

This contains any specific comments pertaining to that valve. (NOTES are located in the back of Appendix B).



TABLE 3.1-1

INSERVICE VALVE TESTS

<u>TEST</u>	<u>TEST NAME</u>	<u>TEST DESCRIPTION</u>
AT-1	Type C Leak Test	Containment Isolation Valves will be Seat Leak Tested in accordance with WCGS Technical Specification Requirements and Appendix J, 10 CFR 50.
AT-2	Pressure Isolation Valve Leak Test	Those valves so designated will be Leak Tested in accordance with WCGS Technical Specification SR 3.4.14.1.
AT-3	Accumulator Check Valve Test	Check Valves designed to maintain air-accumulator charge upon loss of normal plant service or Instrument Air will be subjected to air pressure drop.
AT-4	Other Analyzed Valves Leak Test	Valves not specified as AT-1, AT-2, or AT-3, but for which seat leakage is required to be limited to a specific maximum amount will be leak tested in accordance OMa-1988 Part 10 Section 4.2.2.

TABLE 3.1-1

**INSERVICE VALVE TESTS**  
(Continued)

<b><u>TEST</u></b>	<b><u>TEST NAME</u></b>	<b><u>TEST DESCRIPTION</u></b>
BT-O	Full-Stroke Exercise Test to the OPEN Position (OMa-1988 Part 10 Section 4.2.1.2 and 4.2.1.3)	Exercise testing in the open direction, verified by Stroke Time Measurement, will be performed to confirm the full stroke capability of each valve. The stroke direction tested and timed (OPEN) is based on the direction the Valve Disk must travel to fulfill a safety function.
BT-C	Full-Stroke Exercise Test to the CLOSED (OMa-1988 Part 10 Section 4.2.1.2 and 4.2.1.3)	Exercise testing in the CLOSED direction, verified Position by Stroke Time Measurement, will be performed to confirm the full stroke capability of each valve. The stroke direction tested and timed (CLOSE) is based on the direction the Valve Disk must travel to fulfill a safety function.
BT-E	Full Stroke Exercise (Code Case OMN-1, Section 3.6)	Exercise in both the open and closed direction will be performed to confirm the full stroke capability of each valve during the period of time between MOV Operability and Functional Margin determination tests.
BT-P	Partial-Stroke Exercise Test (OMa-1988 Part 10 Section 4.2.1.2 and 4.2.1.3)	Partial-Stroke Exercise Testing will be performed to confirm partial stroke capability of each valve. The stroke direction tested is based on the direction the Valve Disk must travel to fulfill a safety function.

TABLE 3.1-1

**INSERVICE VALVE TESTS**

(Continued)

<b><u>TEST</u></b>	<b><u>TEST NAME</u></b>	<b><u>TEST DESCRIPTION</u></b>
CVT-C	Check Valve Exercise Test to CLOSED Position (ASME OM CODE 1995-96a Section 4.5)	Demonstrates that the obturator moved to the closed position.
CVT-O	Check Valve Exercise Test to OPEN Position (ASME OM CODE 1995-96a Section 4.5)	Demonstrates that the obturator moved to the open position.
RVT 1987 Part 1	Relief Valve Setpoint Verification Test	Relief and Safety Valve Set-point will be verified OM in accordance with OM 1987 Part 1.
FST	Fail-Safe Test (OMa-1988 Part 10 Section 4.2.1.6)	Valves with Fail-Safe Actuators will be tested to verify proper fail-safe operation upon loss of Actuator power.
OMN-O	Code Case OMN-1 In- service Test in the OPEN direction (Code Case OMN-1, Section 3.3	Exercise Test in the OPEN direction used to gather information for the determination of the valve's functional margin in the OPEN direction.
OMN-C	Code Case OMN-1 In- service Test in the CLOSED direction (Code Case OMN-1, Section 3.3	Exercise Test in the CLOSED direction used to gather information for the determination of the valve's functional margin in the CLOSED direction.
PIT	Position Indication Checks (OMa-1988 Part 10 Section 4.1)	Valves with Position Indicators will be verified Remote Valve Indicators accurately reflect valve position.
PAS	Indicates Passive Valve	This is a Passive Valve requiring only Position Indication Verification on Passive Valves with Remote Indicators (except MOV).

TABLE 3.1-2

TEST FREQUENCY

<u>TEST FREQUENCY</u>	<u>OPERATIONAL CONDITION (1)</u>	<u>FREQUENCY OF TESTING</u>
Q	(3)	At least once per 92 days
M	(3)	At least once per 31 days
CS	Cold Shutdown	See (2) below
RC	(3)	Once per Refueling Cycle or Year (whichever is greater)
RR	(3)	Each Reactor Refueling Outage
APPJ	(3)	Per 10CFR50 Appendix J Option B, not to exceed 60 months
COND	(3)	Conditional, based upon the Check Valve Condition Monitoring Program, not to exceed 10 years
1.5Y	(3)	At least once per 18 months
2Y	(3)	Every two years
5Y	(3)	Every five years
10Y	(3)	Every ten years
JOG	(3)	Per the MOV Program, not to exceed 10 years
(1) Operational conditions are defined in WCGS Technical Specifications.		
(2) Inservice valve testing will commence within 48 hours of reaching the Cold Shutdown conditions as defined in the WCGS Technical Specifications. Testing not completed before Startup may be completed during subsequent Cold Shutdowns. Valve testing need not be performed more often than once every three months. In the case of extended Cold Shutdowns, the testing need not be started within the 48 hours limitation. However, in these instances, all valve testing must be completed prior to Startup.		
(3) Specific operational conditions are stated in the Surveillance Procedure directing the test.		

**SECTION 3.2**  
**RELIEF REQUESTS FOR INSERVICE VALVE TESTING PROGRAM**

**RELIEF REQUEST NO. 2VR-1**

**VALVE(S) :**

KJPV0001A, KJPV0001B, KJPV00101A and KJPV00101B

**CATEGORY:**

B

**FUNCTION:**

Provide control air for actuation of the main air start valves.

**TEST REQUIREMENT:**

ASME OMa-1988 PART 10 4.2.1.4

**BASIS FOR RELIEF:**

Valve stroke time cannot be measured. These valves are solenoid operated and are enclosed with the solenoid. The valves have no position indication devices. These air start valves are required to start the associated diesel. Diesel start time is affected by valve stroke time. Valve degradation can be detected by ensuring the diesel comes up to speed in <12 seconds and by observing approximately equal pressure drops in the starting air tanks. Therefore, diesel start time and starting air tank pressure changes will provide adequate indication of valve performance and identify significant degradation. Reference NUREG 1482 Section 3.4.

**ALTERNATE TESTING:**

Proper operation of these valves will be verified by measuring Diesel Start Times and observing Starting Air Tank Pressure changes.

**RELIEF REQUEST NO. 2VR-2**

**VALVE(S) :**

BB8010A, BB8010B and BB8010C

**CATEGORY:**

C

**FUNCTION:**

The pressurizer safety relief valves provide over-pressurization protection for the pressurizer.

**TEST REQUIREMENT:**

Valves with remote position indicators shall be observed at least once every 2 years to verify that valve operation is accurately indicated. (ASME 1987-88a OM Part 10 section 4.1).

**BASIS FOR RELIEF:**

Actuation of these valves for position indication verification. Would require retesting to ensure the Set Relief Pressure is correct. This would result in increased testing and unnecessary radiation exposure to test personnel.

**ALTERNATE TESTING:**

Each valve's lift indicating switch assembly will be detached from the valve spindle. A magnet and a lift indicating switch setting tool will be used to simulate valve open and closed positions which verifies lift indicating switch assembly position with remote position indication.

**RELIEF REQUEST NO. 2VR-3**

**VALVES:**

EGV0305 and EGV0306 - CCW Surge Tank Vacuum Relief Valves  
ENV0058 and ENV0106 - Containment Spray Additive Tank Relief  
Valves

**CATEGORY:**

C

**OM-1987, PART 1 REQUIREMENT:**

**1.4.1.2 Set Pressure Measurement Accuracy.** Test equipment and readability accuracy of same, inclusive of gages, transducers, load cells, assist devices, calibration standards, etc. used in conjunction with determination of valve set pressure, shall have an overall combined accuracy within +2% to -1% at the pressure level of interest.

The measured set pressure must comply with the tolerance limits specified in the appropriate acceptance criteria sections: paras. 1.3.3.1(d), 1.3.4.1(d), 4.1.1.9, 4.1.2.9, 4.1.3.8, 8.1.1.9, 8.1.2.9, and 8.1.3.8.

The effect of the overall combined accuracy specified above is that the limits of the actual set pressure may be 1% above to 2% below the indicated (measured) set pressure.

**FUNCTION(S):**

EGV0305 and EGV0306 - As the component cooling water surge tanks provide water storage to accommodate expansion, contraction, and leakage associated with the CCW system, these valves open to prevent an unacceptable vacuum to form inside the tank that could collapse the tanks.



**RELIEF REQUEST NO. 2VR-3 (cont.)**

**FUNCTION(S) (continued):**

ENV0058 and ENV0106 - As sodium hydroxide is removed from the Spray Additive Tank, these valves open to facilitate flow from the tank and prevent tank collapse should the vacuum condition exceed the design limits of the tank.

**BASIS FOR RELIEF:**

Characteristically, vacuum breakers are set to relieve at very low differential pressures. In these cases the set pressures are

6 psi	CCW Surge Tanks
2" Hg (0.98 psi)	Spray Additive Tanks

In order to meet the Code accuracy requirements for testing these valves the instrument accuracies would be 0.06 psig and .0098 psig, respectively. Instrumentation providing this level of accuracy is not typically maintained in a power plant facility.

The functional requirement of a vacuum breaker is only relevant in the opening direction. The closure characteristics are generally irrelevant - so long as the valve remains closed under operating conditions. There is no concern related to premature opening (e.g. inventory loss). Thus, it is possible to establish the lower limit for opening such that there is a considerable margin to the maximum opening value without affecting the required valve performance with respect to system function.

**ALTERNATE TEST:**

Instrument accuracy and "target setpoint" for these vacuum relief valves will be established such that the overall combined accuracy specified in the test procedure will limit the actual set pressure to 1% above the stamped set pressure.

**RELIEF REQUEST NO. 2VR-4**

**VALVES:**

All safety and relief valves tested used for compressible fluid services other than steam

**CATEGORY:**

C

**OM-1987, PART 1 REQUIREMENT:**

**8.1.2.2. Accumulator Volume.** There shall be a minimum accumulator volume below the valve inlet, based on the valve capacity (cu ft) and calculated from the following formula:

Minimum Volume = [valve capacity (cu ft per sec) X time open (sec)] / 10

**FUNCTION(S):**

Provide over-pressure protection for various safety-related plant systems and components.

**BASIS FOR RELIEF:**

The accumulator volume requirement is not required for simple determination of the valve set pressure. This was recognized by the Code Committee and corrected in more recent versions of the OM Code.

**ALTERNATE TEST:**

The volume of the accumulator drum and the pressure source flow rate shall be sufficient to determine the valve set-pressure. (Ref. ASME OM Code-1990, OMc-1994 Addenda, Paragraph I 8.1.2)

RELIEF REQUEST NO. 2VR-5

VALVES:

All safety and relief valves tested under ambient conditions using a test medium at ambient conditions

CATEGORY:

C

OM-1987, PART 1 REQUIREMENT:

**8.1.3.4. Temperature Stability.** The test method shall be such that the temperature of the valve body shall be known and stabilized before commencing set pressure testing, with no change in measured temperature of more than 10 deg-F (5 deg-C) in 30 minutes.

FUNCTION(S):

Provide over-pressure protection for various safety-related plant systems and components.

BASIS FOR RELIEF:

For valves tested under normal prevailing ambient conditions with test medium at approximately the same temperature the requirement for verifying temperature stability is inappropriate. There is little or no consequence of any minor changes in ambient temperature.

This has been identified by the OM-1 Code Working Group and the ASME Code Committees and is reflected in the latest version of the Code (OM Code-1995) Paragraphs I 8.1.2(d) and I 8.1.3(d). Reference NUREG 1482 Section 4.3.9.

ALTERNATE TEST:

For safety and relief valves tested under ambient conditions using a test medium at ambient conditions the test temperature will be recorded prior to each test but there will be no verification of thermal equilibrium performed.

**Relief Request NO. 2VR-7**

VALVE(S) : All Motor Operated Valves

CATEGORY: A or B

FUNCTION: System Dependent.

**TEST REQUIREMENT:**

ASME OMa 1988 Part 10 sections 4.1, "Valve Position Verification" and 4.2.1, "Valve Exercising Test"

**BASIS FOR RELIEF:**

ASME OMa 1988 Part 10 sections 4.1, "Valve Position Verification" and 4.2.1, "Valve Exercising Test" discusses position verification and exercising requirements for Motor Operated Valves (MOV's). The NRC staff has long recognized the limitations of stroke-time testing as a means of monitoring the operational readiness of MOV's. NUREG 1482 section 4.2.3 states that the staff has determined that a testing program established in accordance with the guidance of Generic Letter 89-10 can provide an acceptable level of quality and safety if the licensee has an established program of periodic testing. Generic Letter 96-05 identifies ASME OM Code Case OMN-1 "Alternative Rules for Preservice and Inservice Testing of Certain Electric Motor Operated Valve Assemblies in LWR Power Plants", with limitations, as an appropriate means of implementing a periodic MOV design-basis verification testing program as described by Generic Letter 89-10.

**ALTERNATIVE TESTING:**

MOV Testing will be performed using ASME Code Case OMN-1 with the limitations set forth in 10 CFR 50.55a(b)(3)(iii).

**Code of Federal Regulations Option  
(Formerly 2VR-6 and 2VR-8)**

**VALVES:**

All Check Valves.

**CATEGORY:**

C

**FUNCTION:**

System dependent.

**TEST REQUIREMENT:**

ASME OMa 1988 Part 10 for check valves

**BASIS FOR USE:**

Check valve testing has been upgraded to the alternative requirements as specified by 10CFR50.55a(f)(3)(v) for 10CFR50.55a(b)(3)(iv).

**ALTERNATIVE TESTING**

Check valve testing will comply with ASME OM Code 1995-96a including the limitations set forth by 10CFR50.55a(f)(3)(v) for 10CFR50.55a(b)(3)(iv).

**APPENDIX A**  
**PUMP TESTING PROGRAM**

WOLF CREEK NUCLEAR OPERATING CORPORATION  
PUMP INSERVICE TESTING PROGRAM

PUMP IDENTIFICATION					IST REQUIREMENTS				
Pump Number	System	ISI Class	P&ID Number	P&ID Coord.	Speed	Diff. Press.	Flow Rate	Vibration	Remarks
PAL01A	Aux Fd	3	M-12AL01	E-4	N/A	YES	YES	YES	
PAL01B	Aux Fd	3	M-12AL01	H-4	N/A	YES	YES	YES	
PAL02	Aux Fd	3	M-12AL01	B-4	YES	YES	YES	YES	Variable speed pump
PBG02A	CVCS	3	M-12BG05	B-6	N/A	YES	YES	YES	
PBG02B	CVCS	3	M-12BG05	A-6	N/A	YES	YES	YES	
PBG05A	CVCS	2	M-12BG03	C-5	N/A	YES	YES	YES	
PBG05B	CVCS	2	M-12BG03	B-5	N/A	YES	YES	YES	
PEC01A	SFPC	3	M-12EC01	H-6	N/A	YES	YES	YES	
PEC01B	SFPC	3	M-12EC01	E-6	N/A	YES	YES	YES	
PEF01A	ESW	3	M-K2EF01	G-6	N/A	YES	YES	YES	
PEF01B	ESW	3	M-K2EF01	C-6	N/A	YES	YES	YES	
PEG01A	CCW	3	M-12EG01	G-4	N/A	YES	YES	YES	
PEG01B	CCW	3	M-12EG01	D-4	N/A	YES	YES	YES	
PEG01C	CCW	3	M-12EG01	E-4	N/A	YES	YES	YES	
PEG01D	CCW	3	M-12EG01	B-4	N/A	YES	YES	YES	
PEJ01A	RHR	2	M-12EJ01	G-6	N/A	YES	YES	YES	
PEJ01B	RHR	2	M-12EJ01	C-6	N/A	YES	YES	YES	
PEM01A	SI	2	M-12EM01	E-6	N/A	YES	YES	YES	
PEM01B	SI	2	M-12EM01	D-6	N/A	YES	YES	YES	
PEN01A	CS	2	M-12EN01	G-6	N/A	YES	YES	YES	
PEN01B	CS	2	M-12EN01	B-6	N/A	YES	YES	YES	
PJE01A	EFOT	3	M-12JE01	E-7	N/A	YES	YES	N/A	Pump bearings are inaccessible
PJE01B	EFOT	3	M-12JE01	A-7	N/A	YES	YES	N/A	Pump bearings are inaccessible

APPENDIX B  
VALVE TESTING PROGRAM



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABHV0005	M-12AB02 (Q)	D-4	2	B	4	GL	AO	C	BT-O FST PIT	Q Q 2Y	N/A N/A N/A	STS AB-201B STS AB-201B STS AB-201B	
ABHV0006	M-12AB02 (Q)	C-4	2	B	4	GL	AO	C	BT-O FST PIT	Q Q 2Y	N/A N/A N/A	STS AB-201B STS AB-201B STS AB-201B	
ABHV0011	M-12AB02 (Q)	H-3	2	B	28	GA	HO	O	BT-C BT-P PIT	CS Q 2Y	N/A N/A N/A	STS AB-205, STS AB-206 STS AB-201A STS AB-205, STS AB-206	2
ABHV0012	M-12AB02 (Q)	G-3	2	B	2	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AB-201A STS AB-201A STS AB-201A	
ABHV0014	M-12AB02 (Q)	F-3	2	B	28	GA	HO	O	BT-C BT-P PIT	CS Q 2Y	N/A N/A N/A	STS AB-205, STS AB-206 STS AB-201A STS AB-205, STS AB-206	2
ABHV0015	M-12AB02 (Q)	F-3	2	B	2	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AB-201A STS AB-201A STS AB-201A	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABHV0017	M-12AB02 (Q)	D-3	2	B	28	GA	HO	O	BT-C BT-P PIT	CS Q 2Y	N/A N/A N/A	STS AB-205, STS AB-206 STS AB-201A STS AB-205, STS AB-206	2
ABHV0018	M-12AB02 (Q)	D-3	2	B	2	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AB-201A STS AB-201A STS AB-201A	
ABHV0020	M-12AB02 (Q)	C-3	2	B	28	GA	HO	O	BT-C BT-P PIT	CS Q 2Y	N/A N/A N/A	STS AB-205, STS AB-206 STS AB-201A STS AB-205, STS AB-206	2
ABHV0021	M-12AB02 (Q)	C-3	2	B	2	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AB-201A STS AB-201A STS AB-201A	
ABHV0048	M-12AB02 (Q)	D-4	2	B	1	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AB-201B STS AB-201B STS AB-201B	
ABHV0049	M-12AB02 (Q)	C-4	2	B	1	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AB-201B STS AB-201B STS AB-201B	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABLV0007	M-12AB02 (Q)	B-4	2	B	2	GL	AO	C	BT-C	Q	N/A	STS AB-201C	
									FST	Q	N/A	STS AB-201C	
									PIT	2Y	N/A	STS AB-201C	
ABLV0008	M-12AB02 (Q)	D-5	2	B	2	GL	AO	C	BT-C	Q	N/A	STS AB-201C	
									FST	Q	N/A	STS AB-201C	
									PIT	2Y	N/A	STS AB-201C	
ABLV0009	M-12AB02 (Q)	E-4	2	B	2	GL	AO	C	BT-C	Q	N/A	STS AB-201C	
									FST	Q	N/A	STS AB-201C	
									PIT	2Y	N/A	STS AB-201C	
ABLV0010	M-12AB02 (Q)	G-4	2	B	2	GL	AO	C	BT-C	Q	N/A	STS AB-201C	
									FST	Q	N/A	STS AB-201C	
									PIT	2Y	N/A	STS AB-201C	
ABPV0001	M-12AB01 (Q)	G-3	2	B	8	GL	AO	C	BT-O	Q	N/A	STS AB-201D	
									BT-C	Q	N/A	STS AB-201D	
									FST	Q	N/A	STS AB-201D	
									PIT	2Y	N/A	STS AB-201D	
ABPV0002	M-12AB01 (Q)	D-3	2	B	8	GL	AO	C	BT-O	Q	N/A	STS AB-201D	
									BT-C	Q	N/A	STS AB-201D	
									FST	Q	N/A	STS AB-201D	
									PIT	2Y	N/A	STS AB-201D	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABPV0003	M-12AB01 (Q)	D-6	2	B	8	GL	AO	C	BT-O	Q	N/A	STS AB-201D	
									BT-C	Q	N/A	STS AB-201D	
									FST	Q	N/A	STS AB-201D	
									PIT	2Y	N/A	STS AB-201D	
ABPV0004	M-12AB01 (Q)	G-6	2	B	8	GL	AO	C	BT-O	Q	N/A	STS AB-201D	
									BT-C	Q	N/A	STS AB-201D	
									FST	Q	N/A	STS AB-201D	
									PIT	2Y	N/A	STS AB-201D	
ABV0007	M-12AB01 (Q)	G-6	2	B	10	GA	M	LO	PAS	N/A			
ABV0018	M-12AB01 (Q)	G-3	2	B	10	GA	M	LO	PAS	N/A			
ABV0029	M-12AB01 (Q)	D-6	2	B	10	GA	M	LO	PAS	N/A			
ABV0040	M-12AB01 (Q)	D-3	2	B	10	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABV0045	M-12AB02 (Q)	H-7	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0046	M-12AB02 (Q)	H-7	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0047	M-12AB02 (Q)	H-6	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0048	M-12AB02 (Q)	H-5	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0049	M-12AB02 (Q)	H-5	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0055	M-12AB02 (Q)	F-7	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0056	M-12AB02 (Q)	F-7	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABV0057	M-12AB02 (Q)	F-6	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0058	M-12AB02 (Q)	F-5	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0059	M-12AB02 (Q)	F-5	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0065	M-12AB02 (Q)	E-7	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0066	M-12AB02 (Q)	E-7	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0067	M-12AB02 (Q)	E-6	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0068	M-12AB02 (Q)	E-5	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABV0069	M-12AB02 (Q)	E-5	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0075	M-12AB02 (Q)	C-7	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0076	M-12AB02 (Q)	C-7	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0077	M-12AB02 (Q)	C-6	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0078	M-12AB02 (Q)	C-5	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0079	M-12AB02 (Q)	C-5	2	C	6x8x8	RV	SA	C	RVT	5Y	N/A	STS MT-008	
ABV0085	M-12AB02 (Q)	D-4	2	B	4	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABV0087	M-12AB02 (Q)	C-4	2	B	4	GA	M	LO	PAS	N/A			
ABV0345	M-12AB01 (Q)	H-3	NC	A/C	0.75	CK	SA	C	AT-3 CVT-C CVT-O	2Y Q Q	N/A N/A N/A	STS KA-010 STS AB-201D STS AB-201D	46
ABV0346	M-12AB01 (Q)	E-3	NC	A/C	0.75	CK	SA	C	AT-3 CVT-C CVT-O	2Y Q Q	N/A N/A N/A	STS KA-010 STS AB-201D STS AB-201D	46
ABV0347	M-12AB01 (Q)	E-5	NC	A/C	0.75	CK	SA	C	AT-3 CVT-C CVT-O	2Y Q Q	N/A N/A N/A	STS KA-010 STS AB-201D STS AB-201D	46
ABV0348	M-12AB01 (Q)	H-5	NC	A/C	0.75	CK	SA	C	AT-3 CVT-C CVT-O	2Y Q Q	N/A N/A N/A	STS KA-010 STS AB-201D STS AB-201D	46
ABV0349	M-12AB01 (Q)	H-3	NC	C	0.75	CK	SA	C	CVT-C CVT-O	Q Q	N/A N/A	STS AB-201D STS AB-201D	46



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ABV0350	M-12AB01 (Q)	E-3	NC	C	0.75	CK	SA	C	CVT-C CVT-O	Q Q	N/A N/A	STS AB-201D STS AB-201D	46
ABV0351	M-12AB01 (Q)	E-5	NC	C	0.75	CK	SA	C	CVT-C CVT-O	Q Q	N/A N/A	STS AB-201D STS AB-201D	46
ABV0352	M-12AB01 (Q)	H-5	NC	C	0.75	CK	SA	C	CVT-C CVT-O	Q Q	N/A N/A	STS AB-201D STS AB-201D	46
AEFV0039	M-12AE02 (Q)	G-3	2	B	14	GA	HO	O	BT-C BT-P FST PIT	CS Q CS 2Y	N/A N/A N/A N/A	STS AE-205 STS AE-201 STS AE-205 STS AE-205	5
AEFV0040	M-12AE02 (Q)	C-3	2	B	14	GA	HO	O	BT-C BT-P FST PIT	CS Q CS 2Y	N/A N/A N/A N/A	STS AE-205 STS AE-201 STS AE-205 STS AE-205	5
AEFV0041	M-12AE02 (Q)	C-6	2	B	14	GA	HO	O	BT-C BT-P FST PIT	CS Q CS 2Y	N/A N/A N/A N/A	STS AE-205 STS AE-201 STS AE-205 STS AE-205	5

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
AEFV0042	M-12AE02 (Q)	G-6	2	B	14	GA	HO	O	BT-C BT-P FST PIT	CS Q CS 2Y	N/A N/A N/A N/A	STS AE-205 STS AE-201 STS AE-205 STS AE-205	5
AEFV0043	M-12AE02 (Q)	G-4	2	B	1	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AE-201 STS AE-201 STS AE-201	
AEFV0044	M-12AE02 (Q)	D-4	2	B	1	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AE-201 STS AE-201 STS AE-201	
AEFV0045	M-12AE02 (Q)	D-7	2	B	1	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AE-201 STS AE-201 STS AE-201	
AEFV0046	M-12AE02 (Q)	G-7	2	B	1	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS AE-201 STS AE-201 STS AE-201	
AEV0120	M-12AE02 (Q)	C-4	2	C	14	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	SEE NOTES STS AL-212	5,82
AEV0121	M-12AE02 (Q)	F-4	2	C	14	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	SEE NOTES STS AL-212	5,82

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
AEV0122	M-12AE02 (Q)	F-7	2	C	14	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	SEE NOTES STS AL-212	5,82
AEV0123	M-12AE02 (Q)	C-7	2	C	14	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	SEE NOTES STS AL-212	5,82
AEV0124	M-12AE02 (Q)	C-3	2	C	4	CK	SA	C	CVT-O CVT-C	CS CS	N/A N/A	STS AL-212 STS AL-212	6
AEV0125	M-12AE02 (Q)	F-3	2	C	4	CK	SA	C	CVT-O CVT-C	CS CS	N/A N/A	STS AL-212 STS AL-212	6
AEV0126	M-12AE02 (Q)	F-6	2	C	4	CK	SA	C	CVT-O CVT-C	CS CS	N/A N/A	STS AL-212 STS AL-212	6
AEV0127	M-12AE02 (Q)	C-6	2	C	4	CK	SA	C	CVT-O CVT-C	CS CS	N/A N/A	STS AL-212 STS AL-212	6
AEV0329	M-12AE02 (Q)	F-4	2	B	3	GA	M	LC	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
AEV0330	M-12AE02 (Q)	C-4	2	B	3	GA	M	LC	PAS	N/A			
AEV0331	M-12AE02 (Q)	C-7	2	B	3	GA	M	LC	PAS	N/A			
AEV0332	M-12AE02 (Q)	F-7	2	B	3	GA	M	LC	PAS	N/A			
ALHV0005	M-12AL01 (Q)	H-7	2	B	4	GL	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
ALHV0006	M-12AL01 (Q)	G-7	2	B	4	GL	AO	O	BT-C PIT	Q 2Y	N/A N/A	STS AL-201A STS AL-201A	
ALHV0007	M-12AL01 (Q)	F-7	2	B	4	GL	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
ALHV0008	M-12AL01 (Q)	E-7	2	B	4	GL	AO	O	BT-C PIT	Q 2Y	N/A N/A	STS AL-201A STS AL-201A	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALHV0009	M-12AL01 (Q)	E-7	2	B	4	GL	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
ALHV0010	M-12AL01 (Q)	D-7	2	B	4	GL	AO	O	BT-C PIT	Q 2Y	N/A N/A	STS AL-201B STS AL-201B	
ALHV0011	M-12AL01 (Q)	C-7	2	B	4	GL	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
ALHV0012	M-12AL01 (Q)	B-7	2	B	4	GL	AO	O	BT-C PIT	Q 2Y	N/A N/A	STS AL-201B STS AL-201B	
ALHV0030	M-12AL01 (Q)	F-3	3	B	6	BTF	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
ALHV0031	M-12AL01 (Q)	E-3	3	B	6	BTF	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
ALHV0032	M-12AL01 (Q)	C-3	3	B	8	BTF	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALHV0033	M-12AL01 (Q)	B-3	3	B	8	BTF	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
ALHV0034	M-12AL01 (Q)	H-4	3	B	8	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
ALHV0035	M-12AL01 (Q)	D-4	3	B	8	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
ALHV0036	M-12AL01 (Q)	B-4	3	B	10	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
ALV0001	M-12AL01 (Q)	B-4	3	C	10	CK	SA	C	CVT-O CVT-C	COND COND	N/A N/A	STS AL-210C, STS AL-211 STS AL-210C, STS AL-211	79
ALV0002	M-12AL01 (Q)	D-4	3	C	8	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS AL-210A STS AL-210A, STS AL-212	79
ALV0003	M-12AL01 (Q)	H-4	3	C	8	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS AL-210B STS AL-210B, STS AL-212	79

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALV0005	M-12AL01 (Q)	F-4	3	B	6	GA	M	LO	PAS	N/A			
ALV0006	M-12AL01 (Q)	F-4	3	C	6	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS AL-210B STS AL-210B	79
ALV0008	M-12AL01 (Q)	E-4	3	B	6	GA	M	LO	PAS	N/A			
ALV0009	M-12AL01 (Q)	E-4	3	C	6	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS AL-210A STS AL-210A	79
ALV0011	M-12AL01 (Q)	C-4	3	B	6	GA	M	LO	PAS	N/A			
ALV0012	M-12AL01 (Q)	C-4	3	C	8	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS AL-210C STS AL-210C	79
ALV0014	M-12AL01 (Q)	B-4	3	B	6	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALV0015	M-12AL01 (Q)	B-4	3	C	8	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS AL-210C STS AL-210C	79
ALV0028	M-12AL01 (Q)	G-5	3	B	2	GL	M	LO	PAS	N/A			
ALV0030	M-12AL01 (Q)	H-6	3	C	6	CK	SA	C	CVT-O CVT-C	CS 1.5Y	N/A N/A	STS AL-212 STS AL-102	6
ALV0031	M-12AL01 (Q)	H-6	3	B	6	GA	M	LO	PAS	N/A			
ALV0032	M-12AL01 (Q)	F-6	3	B	4	GA	M	LO	PAS	N/A			
ALV0033	M-12AL01 (Q)	F-7	2	C	4	CK	SA	C	CVT-O CVT-C	CS 1.5Y	N/A N/A	STS AL-212 STS AL-210B	6
ALV0034	M-12AL01 (Q)	F-7	2	B	4	GL	M	LO	PAS	N/A			



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALV0035	M-12AL01 (Q)	H-6	3	B	4	GA	M	LO	PAS	N/A			
ALV0036	M-12AL01 (Q)	H-7	2	C	4	CK	SA	C	CVT-O CVT-C	CS 1.5Y	N/A N/A	STS AL-212 STS AL-210B	6
ALV0037	M-12AL01 (Q)	H-7	2	B	4	GL	M	LO	PAS	N/A			
ALV0040	M-12AL01 (Q)	E-5	3	B	2	GL	M	LO	PAS	N/A			
ALV0042	M-12AL01 (Q)	D-5	3	C	6	CK	SA	C	CVT-O CVT-C	CS 1.5Y	N/A N/A	STS AL-212 STS AL-101	6
ALV0043	M-12AL01 (Q)	D-6	3	B	6	GA	M	LO	PAS	N/A			
ALV0044	M-12AL01 (Q)	C-6	3	B	4	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALV0045	M-12AL01 (Q)	C-7	2	C	4	CK	SA	C	CVT-O CVT-C	CS 1.5Y	N/A N/A	STS AL-212 STS AL-210A	6
ALV0046	M-12AL01 (Q)	C-7	2	B	4	GL	M	LO	PAS	N/A			
ALV0047	M-12AL01 (Q)	D-6	3	B	4	GA	M	LO	PAS	N/A			
ALV0048	M-12AL01 (Q)	D-7	2	C	4	CK	SA	C	CVT-O CVT-C	CS 1.5Y	N/A N/A	STS AL-212 STS AL-210A	6
ALV0049	M-12AL01 (Q)	D-7	2	B	4	GL	M	LO	PAS	N/A			
ALV0052	M-12AL01 (Q)	B-5	3	B	3	GL	M	LO	PAS	N/A			
ALV0054	M-12AL01 (Q)	B-5	3	C	8	CK	SA	C	CVT-O CVT-C	COND COND	N/A N/A	STS AL-211 STS AL-103	6,24

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALV0055	M-12AL01 (Q)	B-6	3	B	8	GA	M	LO	PAS	N/A			
ALV0056	M-12AL01 (Q)	E-6	3	B	4	GA	M	LO	PAS	N/A			
ALV0057	M-12AL01 (Q)	E-7	2	C	4	CK	SA	C	CVT-O CVT-C	COND COND	N/A N/A	STS AL-211 STS AL-210C	6,25
ALV0058	M-12AL01 (Q)	E-7	2	B	4	GL	M	LO	PAS	N/A			
ALV0061	M-12AL01 (Q)	G-6	3	B	4	GA	M	LO	PAS	N/A			
ALV0062	M-12AL01 (Q)	G-7	2	C	4	CK	SA	C	CVT-O CVT-C	COND COND	N/A N/A	STS AL-211 STS AL-210C	6,25
ALV0063	M-12AL01 (Q)	G-7	2	B	4	GL	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALV0066	M-12AL01 (Q)	D-6	3	B	4	GA	M	LO	PAS	N/A			
ALV0067	M-12AL01 (Q)	D-7	2	C	4	CK	SA	C	CVT-O CVT-C	COND COND	N/A N/A	STS AL-211 STS AL-210C	6,25
ALV0068	M-12AL01 (Q)	D-7	2	B	4	GL	M	LO	PAS	N/A			
ALV0071	M-12AL01 (Q)	B-6	3	B	4	GA	M	LO	PAS	N/A			
ALV0072	M-12AL01 (Q)	B-7	2	C	4	CK	SA	C	CVT-O CVT-C	COND COND	N/A N/A	STS AL-211 STS AL-210C	6,25
ALV0073	M-12AL01 (Q)	B-7	2	B	4	GL	M	LO	PAS	N/A			
ALV0076	M-12AL01 (Q)	H-6	3	B	6	GA	M	LC	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALV0077	M-12AL01 (Q)	E-6	3	B	6	GA	M	LC	PAS	N/A			
ALV0149	M-12AL01 (Q)	G-6	3	A/C		CK	SA	C	AT-3 CVT-C CVT-O	2Y Q Q	N/A N/A N/A	STS KA-010 STS AL-201A STS AL-201A	
ALV0150	M-12AL01 (Q)	F-6	3	A/C		CK	SA	C	AT-3 CVT-C CVT-O	2Y Q Q	N/A N/A N/A	STS KA-010 STS AL-201A STS AL-201A	
ALV0151	M-12AL01 (Q)	D-6	3	A/C		CK	SA	C	AT-3 CVT-C CVT-O	2Y Q Q	N/A N/A N/A	STS KA-010 STS AL-201B STS AL-201B	
ALV0152	M-12AL01 (Q)	B-6	3	A/C		CK	SA	C	AT-3 CVT-C CVT-O	2Y Q Q	N/A N/A N/A	STS KA-010 STS AL-201B STS AL-201B	
ALV0153	M-12AL01 (Q)	G-6	3	C		CK	SA	C	CVT-C CVT-O	Q Q	N/A N/A	STS AL-201A STS AL-201A	
ALV0154	M-12AL01 (Q)	G-6	3	C		CK	SA	C	CVT-C CVT-O	Q Q	N/A N/A	STS AL-201A STS AL-201A	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ALV0155	M-12AL01 (Q)	G-6	3	C		CK	SA	C	CVT-C CVT-O	Q Q	N/A N/A	STS AL-201B STS AL-201B	
ALV0156	M-12AL01 (Q)	G-6	3	C		CK	SA	C	CVT-C CVT-O	Q Q	N/A N/A	STS AL-201B STS AL-201B	
APV0001	M-12AP01	F-5	NC	B	3	GA	M	LO	PAS	N/A			
BB8010A	M-12BB02 (Q)	G-7	1	C	6	RV	SA	C	PIT RVT	5Y 5Y	2VR-2 N/A	STS MT-055A STS MT-005	
BB8010B	M-12BB02 (Q)	G-6	1	C	6	RV	SA	C	PIT RVT	5Y 5Y	2VR-2 N/A	STS MT-055B STS MT-005	
BB8010C	M-12BB02 (Q)	G-5	1	C	6	RV	SA	C	PIT RVT	5Y 5Y	2VR-2 N/A	STS MT-055C STS MT-005	
BB8378A	M-12BB01 (Q)	E-4	1	C	3	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BG-213 STS BG-213	50

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BB8378B	M-12BB01 (Q)	E-4	1	C	3	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BG-213 STS BG-213	50
BB8379A	M-12BB01 (Q)	E-6	1	C	3	CK	SA	C	CVT-C CVT-O	CS CS	N/A N/A	STS BG-213 STS BG-213	50
BB8379B	M-12BB01 (Q)	E-6	1	C	3	CK	SA	C	CVT-C CVT-O	CS CS	N/A N/A	STS BG-213 STS BG-213	50
BB8948A	M-12BB01 (Q)	E-4	1	A/C	10	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS EP-210 STS PE-019E	4,64,65,95
BB8948B	M-12BB01 (Q)	D-4	1	A/C	10	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS EP-210 STS PE-019E	4,64,65,95
BB8948C	M-12BB01 (Q)	D-6	1	A/C	10	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS EP-210 STS PE-019E	4,64,65,95
BB8948D	M-12BB01 (Q)	E-6	1	A/C	10	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y RR 1.5Y	N/A N/A N/A	STS PE-019E STS EP-210 STS PE-019E	4,64,65,95

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BB8949A	M-12BB01 (Q)	E-5	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-210A STS PE-019E	4,64,65,88
BB8949B	M-12BB01 (Q)	D-5	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-210A, STS CV-211 STS PE-019E	4,62,63,88
BB8949C	M-12BB01 (Q)	C-5	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-210A, STS CV-211 STS PE-019E	4,62,63,88
BB8949D	M-12BB01 (Q)	G-6	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-210A STS PE-019E	4,64,65,88
BBHV0013	M-12BB03 (Q)	C-2	3	B	3	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	11
BBHV0014	M-12BB03 (Q)	C-2	3	B	3	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	11



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BBHV0015	M-12BB03 (Q)	C-2	3	B	3	GA	MO	O	OMN-O	JOG	2VR7	AP 23D-001	11
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
BBHV0016	M-12BB03 (Q)	C-2	3	B	3	GA	MO	O	OMN-O	JOG	2VR7	AP 23D-001	11
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
BBHV8000A	M-12BB02 (Q)	E-7	1	B	3	GA	MO	O	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
BBHV8000B	M-12BB02 (Q)	E-7	1	B	3	GA	MO	O	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
BBHV8001A	M-12BB04 (Q)	F-4	2	B	1	GL	SO	C	BT-O	CS	N/A	STS BB-205	13,23
									BT-C	CS	N/A	STS BB-205	
									FST	CS	N/A	STS BB-205	
									PIT	2Y	N/A	STS BB-205	
BBHV8001B	M-12BB04 (Q)	F-4	2	B	1	GL	SO	C	BT-O	CS	N/A	STS BB-205	13,23
									BT-C	CS	N/A	STS BB-205	
									FST	CS	N/A	STS BB-205	
									PIT	2Y	N/A	STS BB-205	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BBHV8002A	M-12BB04 (Q)	F-3	2	B	1	GL	SO	C	BT-O	CS	N/A	STS BB-205	13,23
									BT-C	CS	N/A	STS BB-205	
									FST	CS	N/A	STS BB-205	
									PIT	2Y	N/A	STS BB-205	
BBHV8002B	M-12BB04 (Q)	F-3	2	B	1	GL	SO	C	BT-O	CS	N/A	STS BB-205	13,23
									BT-C	CS	N/A	STS BB-205	
									FST	CS	N/A	STS BB-205	
									PIT	2Y	N/A	STS BB-205	
BBHV8026	M-12BB02 (Q)	E-3	2	A	1	DIA	AO	C/O	AT-1	APPJ	N/A	STS PE-162	
									BT-C	Q	N/A	STS BB-202	
									FST	Q	N/A	STS BB-202	
									PIT	2Y	N/A	STS BB-202	
BBHV8027	M-12BB02 (Q)	E-4	2	A	1	DIA	AO	C/O	AT-1	APPJ	N/A	STS PE-162	
									BT-C	Q	N/A	STS BB-202	
									FST	Q	N/A	STS BB-202	
									PIT	2Y	N/A	STS BB-202	
BBHV8157A	M-12BB02 (Q)	E-2	2	B	1	GL	MO	C/O	OMN-O	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
BBHV8157B	M-12BB02 (Q)	E-2	2	B	1	GL	MO	C/O	OMN-O	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BBHV8351A	M-12BB03 (Q)	C-5	2	A	2	GL	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-141 AP 23D-001 AP 23D-001 STS VT-001	12
BBHV8351B	M-12BB03 (Q)	C-5	2	A	2	GL	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-122 AP 23D-001 AP 23D-001 STS VT-001	12
BBHV8351C	M-12BB03 (Q)	C-5	2	A	2	GL	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-139 AP 23D-001 AP 23D-001 STS VT-001	12
BBHV8351D	M-12BB03 (Q)	C-5	2	A	2	GL	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-140 AP 23D-001 AP 23D-001 STS VT-001	12
BBPCV0455A	M-12BB02 (Q)	E-7	1	B	3	GL	SO	C	BT-O BT-C FST PIT	CS CS CS 2Y	N/A N/A N/A N/A	STS BB-204 STS BB-204 STS BB-204 STS BB-204	7,10
BBPCV0456A	M-12BB02 (Q)	E-8	1	B	3	GL	SO	C	BT-O BT-C FST PIT	CS CS CS 2Y	N/A N/A N/A N/A	STS BB-204 STS BB-204 STS BB-204 STS BB-204	7,10

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BBPV8702A	M-12BB01 (Q)	E-4	1	A	12	GA	MO	C	AT-2	1.5	N/A	STS PE-019B, STS PE-019E OMN-O JOG 2VR7 AP 23D-001 OMN-C JOG 2VR7 AP 23D-001 BT-E RC 2VR7 STS VT-001	4, 8
BBPV8702B	M-12BB01 (Q)	H-5	1	A	12	GA	MO	C	AT-2	1.5	N/A	STS PE-019B, STS PE-019E OMN-O JOG 2VR7 AP 23D-001 OMN-C JOG 2VR7 AP 23D-001 BT-E RC 2VR7 STS VT-001	4, 8
BBV0001	M-12BB01 (Q)	D-5	1	A/C	1.5	CK	SA	C	AT-2 CVT-O	1.5Y RR	N/A N/A	STS PE-019E STS EM-003A STS CV-216 STS PE-019E	4,60,61
BBV0022	M-12BB01 (Q)	D-4	1	A/C	1.5	CK	SA	C	AT-2 CVT-O	1.5Y RR	N/A N/A	STS PE-019E STS EM-003A STS CV-216 STS PE-019E	4,60,61
BBV0040	M-12BB01 (Q)	D-6	1	A/C	1.5	CK	SA	C	AT-2 CVT-O	1.5Y RR	N/A N/A	STS PE-019E STS EM-003A STS CV-216 STS PE-019E	4,60,61

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BBV0059	M-12BB01 (Q)	E-6	1	A/C	1.5	CK	SA	C	AT-2 CVT-O  CVT-C	1.5Y RR  1.5Y	N/A N/A  N/A	STS PE-019E STS EM-003A STS CV-216 STS PE-019E	4,60,61
BBV0065	M-12BB01 (Q)	F-8	1	B	2	GL	M	LO	PAS	N/A			
BBV0084	M-12BB02 (Q)	D-4	1	C	2	CK	SA	C	PAS	N/A			9
BBV0118	M-12BB03 (Q)	C-5	2	A/C	2	CK	SA	O	AT-1 CVT-C CVT-O	APPJ COND COND	N/A N/A N/A	STS PE-141 STS PE-141 NOTE 85	56,85
BBV0120	M-12BB03 (Q)	C-4	1	C	2	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BB-207 STS BB-207	56
BBV0121	M-12BB03 (Q)	C-4	1	C	2	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BB-207 STS BB-207	56
BBV0148	M-12BB03 (Q)	C-5	2	A/C	2	CK	SA	O	AT-1 CVT-C CVT-O	APPJ COND COND	N/A N/A N/A	STS PE-122 STS PE-122 NOTE 85	56,85

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BBV0150	M-12BB03 (Q)	C-4	1	C	2	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BB-207 STS BB-207	56
BBV0151	M-12BB03 (Q)	C-4	1	C	2	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BB-207 STS BB-207	56
BBV0178	M-12BB03 (Q)	C-5	2	A/C	2	CK	SA	O	AT-1 CVT-C CVT-O	APPJ COND COND	N/A N/A N/A	STS PE-139 STS PE-139 NOTE 85	56,85
BBV0180	M-12BB03 (Q)	C-4	1	C	2	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BB-207 STS BB-207	56
BBV0181	M-12BB03 (Q)	C-4	1	C	2	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BB-207 STS BB-207	56
BBV0208	M-12BB03 (Q)	C-5	2	A/C	2	CK	SA	O	AT-1 CVT-C CVT-O	APPJ COND COND	N/A N/A N/A	STS PE-140 STS PE-140 NOTE 85	56,85
BBV0210	M-12BB03 (Q)	C-4	1	C	2	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BB-207 STS BB-207	56

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BBV0211	M-12BB03 (Q)	C-4	1	C	2	CK	SA	O	CVT-C CVT-O	CS CS	N/A N/A	STS BB-207 STS BB-207	56
BBV0261	M-12BB03 (Q)	C-2	3	B	3	GL	M	O	PAS	N/A			
BBV0262	M-12BB03 (Q)	C-2	3	B	3	GL	M	O	PAS	N/A			
BBV0263	M-12BB03 (Q)	C-2	3	B	3	GL	M	O	PAS	N/A			
BBV0264	M-12BB03 (Q)	C-2	3	B	3	GL	M	O	PAS	N/A			
BBV0410	M-12BB04 (Q)	F-4	1	B	1	GL	M	LO	PAS	N/A			
BBV0443	M-12BB03 (Q)	C-5	3	C	1.5	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	REMARKS STS EG-206	31,80

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BBV0444	M-12BB03(Q)	C-5	3	C	1.5	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	REMARKS STS EG-206	31,80
BBV0445	M-12BB03(Q)	E-6	3	C	1.5	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	REMARKS STS EG-206	31,80
BBV0446	M-12BB03(Q)	E-6	3	C	1.5	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	REMARKS STS EG-206	31,80
BBV0447	M-12BB03(Q)	E-6	3	C	1.5	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	REMARKS STS EG-206	31,80
BBV0448	M-12BB03(Q)	E-6	3	C	1.5	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	REMARKS STS EG-206	31,80
BBV0449	M-12BB03(Q)	E-6	3	C	1.5	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	REMARKS STS EG-206	31,80
BBV0450	M-12BB03(Q)	E-6	3	C	1.5	CK	SA	O	CVT-O CVT-C	Q CS	N/A N/A	REMARKS STS EG-206	31,80



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BG8117	M-12BG01	H-3	2	C	2x3	RV	SA	C	RVT	10Y	N/A	STS MT-070	
BG8121	M-12BG01	D-3	2	C	2x3	RV	SA	C	RVT	10Y	N/A	STS MT-070	
BG8123	M-12BG03	H-4	2	C	2x3	RV	SA	C	RVT	10Y	N/A	STS MT-070	
BG8124	M-12BG03	C-7	2	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
BG8341	M-12BG03	D-6	2	N/A	4	DIA	M	LO	PAS	N/A			
BG8381	M-12BG01	F-4	2	A/C	3	CK	SA	O	AT-1 CVT-C CVT-O	APPJ COND COND	N/A N/A N/A	STS PE-180 STS PE-180 Note 58	58
BG8398A	M-12BG03	G-4	2	N/A	3	DIA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BG8398B	M-12BG03	F-5	2	N/A	3	DIA	M	LO	PAS	N/A			
BG8440	M-12BG03	E-6	2	C	4	CK	SA	O	CVT-O	Q	N/A	STS BG-100A, STS BG-100B	
									CVT-C	RR	N/A	STS CV-210B	
BG8461A	M-12BG05	D-7	3	B	3	DIA	M	LO	PAS	N/A			
BG8461B	M-12BG05	D-7	3	B	3	DIA	M	LO	PAS	N/A			
BG8463	M-12BG05	B-7	3	B	3	DIA	M	LO	PAS	N/A			
BG8465A	M-12BG05	B-7	3	B	3	DIA	M	C	PAS	N/A			
BG8465B	M-12BG05	A-7	3	B	3	DIA	M	C	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BG8471A	M-12BG03	C-6	2	B	6	GA	M	LO	PAS	N/A			
BG8471B	M-12BG03	B-6	2	B	6	GA	M	LO	PAS	N/A			
BG8475	M-12BG05	A-7	3	B	3	DIA	M	LO	PAS	N/A			
BG8476	M-12BG05	C-8	3	B	3	DIA	M	C	PAS	N/A			
BG8481A	M-12BG03	C-4	2	C	4	CK	SA	O/C	CVT-C CVT-0	CS RR	N/A N/A	STS BG-212A STS CV-216, STS EM-003A	54,55
BG8481B	M-12BG03	B-4	2	C	4	CK	SA	O/C	CVT-C CVT-0	CS RR	N/A N/A	STS BG-212B STS CV-216, STS EM-003A	54,55
BG8483B	M-12BG03	D-4	2	B	3	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BG8483C	M-12BG03	B-4	2	B	3	GA	M	LO	PAS	N/A			
BG8485A	M-12BG03	C-4	2	B	4	GA	M	LO	PAS	N/A			
BG8485B	M-12BG03	B-4	2	B	4	GA	M	LO	PAS	N/A			
BG8486	M-12BG05	B-8	3	C	3	CK	SA	C	PAS	N/A			
BG8497	M-12BG03	D-4	2	C	3	CK	SA	O/C	CVT-C CVT-O	Q Q	N/A N/A	STS BG-210 NOTE 3	3
BG8546A	M-12BG03	C-7	2	C	8	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS EM-003A STS BN-206	60,61
BG8546B	M-12BG03	B-7	2	C	8	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS EM-003A STS BN-206	60,61

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGHV8100	M-12BG01	D-2	2	A	2	GL	MO	O	AT-1 OMN-C BT-E	APPJ JOG RC	N/A N/A N/A	STS PE-124 AP 23D-001 STS VT-001	14
BGHV8104	M-12BG05	A-4	2	B	2	GL	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
BGHV8105	M-12BG03	D-2	2	A	3	GA	MO	O	AT-1 OMN-C BT-E	APPJ JOG RC	N/A 2VR7 2VR7	STS PE-180 AP 23D-001 STS VT-001	17
BGHV8106	M-12BG03	D-2	2	B	3	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	17
BGHV8110	M-12BG03	E-4	2	B	2	GL	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
BGHV8111	M-12BG03	E-4	2	B	2	GL	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
BGHV8112	M-12BG01	D-2	2	A	2	GL	MO	O	AT-1 OMN-C BT-E	APPJ JOG RC	N/A 2VR7 2VR7	STS PE-141 AP 23D-001 STS VT-001	14

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGHV8145	M-12BG01	G-7	1	B	2	GL	AO	C	PIT	2Y	N/A	STS BG-205	
BGHV8152	M-12BG01	G-3	2	A	3	GL	AO	O	AT-1 BT-C FST PIT	APPJ CS CS 2Y	N/A N/A N/A N/A	STS PE-123 STS BG-205 STS BG-205 STS BG-205	15
BGHV8153A	M-12BG01	D-7	1	B	1	GL	SO	C	BT-O BT-C FST PIT	Q Q Q 2Y	N/A N/A N/A N/A	STS BG-203A STS BG-203A STS BG-203A STS BG-204A	23
BGHV8153B	M-12BG01	D-7	1	B	1	GL	SO	C	BT-O BT-C FST PIT	Q Q Q 2Y	N/A N/A N/A N/A	STS BG-203B STS BG-203B STS BG-203B STS BG-204B	23
BGHV8154A	M-12BG01	D-8	1	B	1	GL	SO	C	BT-O BT-C FST PIT	Q Q Q 2Y	N/A N/A N/A N/A	STS BG-203A STS BG-203A STS BG-203A STS BG-204A	23
BGHV8154B	M-12BG01	D-8	1	B	1	GL	SO	C	BT-O BT-C FST PIT	Q Q Q 2Y	N/A N/A N/A N/A	STS BG-203B STS BG-203B STS BG-203B STS BG-204B	23

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGHV8160	M-12BG01	F-3	2	A	3	GL	AO	O	AT-1 BT-C FST PIT	2Y CS CS 2Y	N/A N/A N/A N/A	STS PE-123 STS BG-205 STS BG-205 STS BG-205	15
BGHV8357A	M-12BG03	C-4	2	B	1	GL	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
BGHV8357B	M-12BG03	B-4	2	B	1	GL	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
BGLCV0112B	M-12BG03	F-6	2	B	4	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	18
BGLCV0112C	M-12BG03	F-6	2	B	4	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	18
BGLCV0459	M-12BG01	H-7	1	B	3	GL	AO	O	BT-C FST PIT	CS CS 2Y	N/A N/A N/A	STS BG-205 STS BG-205 STS BG-205	81
BGLCV0460	M-12BG01	H-7	1	B	3	GL	AO	O	BT-C FST PIT	CS CS 2Y	N/A N/A N/A	STS BG-205 STS BG-205 STS BG-205	81

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGV0091	M-12BG03	E-4	2	C	2	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS BG-100A STS BG-100A	
BGV0092	M-12BG03	D-4	2	B	2	GL	M	LO	PAS	N/A			
BGV0095	M-12BG03	E-4	2	C	2	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS BG-100B STS BG-100B	
BGV0096	M-12BG03	C-4	2	B	2	GL	M	LO	PAS	N/A			
BGV0100	M-12BG03	D-3	2	B	2	GL	M	LO	PAS	N/A			
BGV0101	M-12BG03	C-3	2	B	2	GL	M	O	PAS	N/A			
BGV0102	M-12BG03	C-2	2	B	2	GL	M	O	PAS	N/A			



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGV0105	M-12BG03	C-3	2	B	2	GL	M	O	PAS	N/A			
BGV0106	M-12BG03	C-2	2	B	2	DIA	M	O	PAS	N/A			
BGV0135	M-12BG01	D-2	2	A/C	0.75	CK	SA	C	AT-1 CVT-O CVT-C	APPJ COND COND	N/A N/A N/A	STS PE-124 STS PE-124 STS PE-124	74
BGV0147	M-12BG05	B-6	3	C	3	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS BG-005A STS BG-005A	
BGV0148	M-12BG05	B-6	3	B	3	DIA	M	LO	PAS	N/A			
BGV0149	M-12BG05	B-5	3	B	3	DIA	M	LO	PAS	N/A			
BGV0152	M-12BG05	B-4	3	B	3	DIA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGV0153	M-12BG05	B-4	3	B	2	DIA	M	O	PAS	N/A			
BGV0155	M-12BG05	B-6	3	C	0.75	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS BG-005A STS BG-005A	
BGV0156	M-12BG05	C-6	3	B	0.75	DIA	M	LO	PAS	N/A			
BGV0157	M-12BG05	G-4	3	B	2	DIA	M	LO	PAS	N/A			
BGV0165	M-12BG05	A-6	3	C	3	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS BG-005B STS BG-005B	
BGV0166	M-12BG05	A-6	3	B	3	DIA	M	LO	PAS	N/A			
BGV0167	M-12BG05	B-6	3	C	0.75	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS BG-005B STS BG-005B	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGV0168	M-12BG05	C-6	3	B	0.75	DIA	M	LO	PAS	N/A			
BGV0169	M-12BG05	G-4	3	B	2	DIA	M	LO	PAS	N/A			
BGV0172	M-12BG05	B-4	3	B	2	DIA	M	C	PAS	N/A			
BGV0173	M-12BG05	B-5	3	B	2	DIA	M	C	PAS	N/A			
BGV0174	M-12BG05	A-4	2	C	3	CK	SA	C	CVT-O CVT-C	CS CS	N/A N/A	STS BG-003 STS CV-210B	19
BGV0183	M-12BG05	A-4	2	B	2	DIA	M	LC	PAS	N/A			
BGV0184	M-12BG05	A-4	2	C	2	CK	SA	C	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGV0187	M-12BG05	B-2	2	B	1	DIA	M	C	PAS	N/A			
BGV0188	M-12BG05	B-2	2	C	1	CK	SA	C	PAS	N/A			
BGV0198	M-12BG01	C-7	2	B	1.5	ANG	M	LT	PAS	N/A			
BGV0199	M-12BG01	C-6	2	B	1.5	ANG	M	LT	PAS	N/A			
BGV0200	M-12BG01	C-4	2	B	1.5	ANG	M	LT	PAS	N/A			
BGV0201	M-12BG01	C-3	2	B	1.5	ANG	M	LT	PAS	N/A			
BGV0204	M-12BG01	D-7	3	B	4	GL	M	O	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGV0209	M-12BG05	B-6	3	B	0.75	GL	M	LT	PAS	N/A			
BGV0210	M-12BG05	C-6	3	B	0.75	GL	M	LT	PAS	N/A			
BGV0259	M-12BG03	C-5	3	B	2	GL	M	LO	PAS	N/A			
BGV0268	M-12BG03	A-5	3	B	2	GL	M	LO	PAS	N/A			
BGV0529	M-12BG01	D-3	2	B	0.75	DIA	M	LO	PAS	N/A			
BGV0530	M-12BG01	D-3	2	B	2	DIA	M	LO	PAS	N/A			
BGV0589	M-12BG03	B-4	2	C	1	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS BG-210 STS BG-210	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BGV0590	M-12BG03	C-4	2	C	1	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS BG-210 STS BG-210	
BGV0591	M-12BG03	D-3	2	C	2	CK	SA	O	CVT-O CVT-O	COND COND	N/A N/A	STS BG-210 STS BG-210	76
BL8046	M-12BL01 (Q)	B-3	2	A/C	3	CK	SA	O/C	AT-1 CVT-O CVT-C	APPJ Q Q	N/A N/A N/A	STS PE-125 STS BL-201 STS BL-201	
BLHV8047	M-12BL01 (Q)	B-4	2	A	3	DIA	AO	O/C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-125 STS BL-205 STS BL-205 STS BL-205	
BMHV0001	M-12BM01 (Q)	F-5	2	B	4	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS BM-205 STS BM-205 STS BM-205	
BMHV0002	M-12BM01 (Q)	D-5	2	B	4	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS BM-205 STS BM-205 STS BM-205	
BMHV0003	M-12BM01 (Q)	C-5	2	B	4	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS BM-205 STS BM-205 STS BM-205	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BMHV0004	M-12BM01 (Q)	A-5	2	B	4	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS BM-205 STS BM-205 STS BM-205	
BMV0005	M-12BM01 (Q)	F-5	2	B	2	GL	M	C	PAS	N/A			
BMV0010	M-12BM01 (Q)	F-7	2	B	1	GL	M	LC	PAS	N/A			
BMV0011	M-12BM01 (Q)	G-7	2	B	1	GL	M	C	PAS	N/A			
BMV0016	M-12BM01 (Q)	D-5	2	B	2	GL	M	C	PAS	N/A			
BMV0021	M-12BM01 (Q)	E-7	2	B	1	GL	M	LC	PAS	N/A			
BMV0022	M-12BM01 (Q)	E-7	2	B	1	GL	M	C	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BMV0027	M-12BM01 (Q)	C-5	2	B	2	GL	M	C	PAS	N/A			
BMV0032	M-12BM01 (Q)	C-7	2	B	1	GL	M	LC	PAS	N/A			
BMV0033	M-12BM01 (Q)	C-7	2	B	1	GL	M	C	PAS	N/A			
BMV0038	M-12BM01 (Q)	A-5	2	B	2	GL	M	C	PAS	N/A			
BMV0043	M-12BM01 (Q)	A-7	2	B	1	GL	M	LC	PAS	N/A			
BMV0044	M-12BM01 (Q)	B-7	2	B	1	GL	M	C	PAS	N/A			
BMV0045	M-12BM01 (Q)	A-4	2	A	3	GA	M	LC	AT-1	APPJ	N/A	STS PE-178	



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BMV0046	M-12BM01 (Q)	A-3	2	A	3	GA	M	LC	AT-1	APPJ	N/A	STS PE-178	
BMV0190	M-12BM01 (Q)	A-5	2	B	2	GL	M	LC	PAS	N/A			
BMV0191	M-12BM01 (Q)	C-5	2	B	2	GL	M	LC	PAS	N/A			
BMV0192	M-12BM01 (Q)	D-5	2	B	2	GL	M	LC	PAS	N/A			
BMV0193	M-12BM01 (Q)	F-5	2	B	2	GL	M	LC	PAS	N/A			
BN8717	M-12BN01	B-5	2	A	8	GA	M	LC	AT-4 PIT	2Y 2Y	N/A N/A	STS BN-206 STS BN-206	
BNHCV8800A	M-12BN01	E-5	2	B	3	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS BN-201A STS BN-201A STS BN-201A	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BNHCV8800B	M-12BN01	E-5	2	B	3	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS BN-201B STS BN-201B STS BN-201B	
BNHV0003	M-12BN01	C-3	2	B	12	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
BNHV0004	M-12BN01	A-3	2	B	12	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
BNHV8806A	M-12BN01	B-5	2	B	8	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
BNHV8806B	M-12BN01	D-3	2	B	8	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
BNHV8812A	M-12BN01	B-3	2	B	14	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
BNHV8812B	M-12BN01	D-3	2	B	14	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
BNHV8813	M-12BN01	B-7	2	A	2	GL	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	21
BNLCV0112D	M-12BN01	A-5	2	B	8	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	22
BNLCV0112E	M-12BN01	E-3	2	B	8	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	22
BNV0011	M-12BN01	F-4	2	B	24	GA	M	LO	PIT	2Y	N/A	STS BN-206	
BNV0013	M-12BN01	C-3	2	B	2	GL	M	LC	PAS	N/A			
BNV0014	M-12BN01	A-3	2	B	2	GL	M	LC	PAS	N/A			
BNV0017	M-12BN01	F-3	2	B	6	GA	M	LC	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ECHV0011	M-12EC01 (Q)	H-5	3	B	12	BTf	MO	O/C	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
ECHV0012	M-12EC01 (Q)	E-5	3	B	12	BTf	MO	O/C	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
ECV0001	M-12EC01 (Q)	G-7	3	B	12	GA	M	O	PAS	N/A			
ECV0004	M-12EC01 (Q)	H-6	3	C	10	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS EC-100A STS EC-100A	
ECV0009	M-12EC01 (Q)	E-4	3	B	10	GL	M	LT	PAS	N/A			
ECV0010	M-12EC01 (Q)	D-7	3	B	12	GA	M	O	PAS	N/A			
ECV0013	M-12EC01 (Q)	E-6	3	C	10	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS EC-100B STS EC-100B	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ECV0018	M-12EC01 (Q)	D-5	3	B	10	GL	M	LT	PAS	N/A			
ECV0083	M-12EC02 (Q)	C-5	2	A	6	GA	M	LC	AT-1	APPJ	N/A	STS PE-153	
ECV0084	M-12EC02 (Q)	C-6	2	A	6	GA	M	LC	AT-1	APPJ	N/A	STS PE-153	
ECV0087	M-12EC02 (Q)	D-7	2	A	6	GA	M	LC	AT-1	APPJ	N/A	STS PE-154	
ECV0088	M-12EC02 (Q)	D-7	2	A	6	GA	M	LC	AT-1	APPJ	N/A	STS PE-154	
ECV0090	M-12EC01 (Q)	G-7	3	B	6	GA	M	C	PAS	N/A			
ECV0091	M-12EC01 (Q)	E-8	3	B	6	GA	M	C	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ECV0095	M-12EC02 (Q)	B-5	2	A	3	GA	M	LC	AT-1	APPJ	N/A	STS PE-155	
ECV0096	M-12EC02 (Q)	B-5	2	A	3	GA	M	LC	AT-1	APPJ	N/A	STS PE-155	
ECV0995	M-12EC01 (Q)	C-3	2EC	N/A		GA	M	LC	PAS	N/A			
EFHV0023	M-12EF01 (Q)	F-7	3	B	30	BTF	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EFHV0024	M-12EF01 (Q)	E-6	3	B	30	BTF	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EFHV0025	M-12EF01 (Q)	F-7	3	B	30	BTF	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EFHV0026	M-12EF01 (Q)	E-7	3	B	30	BTF	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFHV0031	M-12EF02 (Q)	G-8	2	A	14	BTF	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-171 AP 23D-001 AP 23D-001 STS VT-001	
EFHV0032	M-12EF02 (Q)	C-8	2	A	14	BTF	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-128 AP 23D-001 AP 23D-001 STS VT-001	
EFHV0033	M-12EF02 (Q)	G-7	2	A	14	BTF	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-171 AP 23D-001 AP 23D-001 STS VT-001	
EFHV0034	M-12EF02 (Q)	C-7	2	A	14	BTF	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-128 AP 23D-001 AP 23D-001 STS VT-001	
EFHV0037	M-12EF02 (Q)	G-3	3	B	30	BTF	MO	O/T	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EFHV0038	M-12EF02 (Q)	C-3	3	B	30	BTF	MO	O/T	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFHV0039	M-12EF02 (Q)	F-3	3	B	30	BTf	MO	O/T	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EFHV0040	M-12EF02 (Q)	D-3	3	B	30	BTf	MO	O/T	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EFHV0041	M-12EF02 (Q)	E-3	3	B	30	BTf	MO	O/T	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EFHV0042	M-12EF02 (Q)	D-3	3	B	30	BTf	MO	O/T	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EFHV0043	M-12EF02 (Q)	E-7	3	B	2	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EF-201A STS EF-201A STS EF-201A	
EFHV0044	M-12EF01 (Q)	B-7	3	B	2	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EF-201B STS EF-201B STS EF-201B	
EFHV0045	M-12EF02 (Q)	G-6	2	A	14	BTf	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-171 AP 23D-001 AP 23D-001 STS VT-001	



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFHV0046	M-12EF02 (Q)	C-6	2	A	14	BTF	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-128 AP 23D-001 AP 23D-001 STS VT-001	
EFHV0049	M-12EF02 (Q)	G-6	2	A	14	BTF	MO	O/T	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-171 AP 23D-001 AP 23D-001 STS VT-001	
EFHV0050	M-12EF02 (Q)	C-6	2	A	14	BTF	MO	O/T	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-128 AP 23D-001 AP 23D-001 STS VT-001	
EFHV0051	M-12EF02 (Q)	G-5	3	B	24	BTF	MO	O/T	PAS	N/A			
EFHV0052	M-12EF02 (Q)	D-5	3	B	24	BTF	MO	O/T	PAS	N/A			
EFHV0059	M-12EF02 (Q)	G-3	3	B	24	BTF	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFHV0060	M-12EF02 (Q)	C-3	3	B	24	BTF	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EFHV0091	M-K2EF01 (Q)	F-6	3	B	3	GA	MO	C/O	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EFHV0092	M-K2EF01 (Q)	B-6	3	B	3	GA	MO	C/O	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EFHV0097	M-K2EF01 (Q)	E-5	3	B	3	GA	MO	O	OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EFHV0098	M-K2EF01 (Q)	B-5	3	B	3	GA	MO	O	OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EFPDV0019	M-K2EF01 (Q)	E-4	3	B	3	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EFPDV0020	M-K2EF01 (Q)	B-4	3	B	3	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0001	M-K2EF01 (Q)	F-4	3	C	30	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS EF-100A STS EF-100A	
EFV0002	M-K2EF01 (Q)	F-3	3	B	30	BTF	M	LO	PAS	N/A			
EFV0003	M-K2EF01 (Q)	F-4	3	B	3	GL	M	LT	PAS	N/A			
EFV0004	M-K2EF01 (Q)	C-4	3	C	30	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS EF-100B STS EF-100B	
EFV0005	M-K2EF01 (Q)	C-3	3	B	30	BTF	M	LO	PAS	N/A			
EFV0006	M-K2EF01 (Q)	B-4	3	B	3	GL	M	LT	PAS	N/A			
EFV0029	M-12EF01 (Q)	G-5	3	B	4	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0030	M-12EF01 (Q)	G-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0032	M-12EF01 (Q)	F-5	3	B	4	GA	M	LO	PAS	N/A			
EFV0033	M-12EF01 (Q)	F-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0035	M-12EF01 (Q)	E-5	3	B	4	GA	M	LO	PAS	N/A			
EFV0036	M-12EF01 (Q)	E-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0037	M-12EF01 (Q)	E-5	3	B	4	GA	M	LO	PAS	N/A			
EFV0038	M-12EF01 (Q)	E-4	3	B	4	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION  
INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0039	M-12EF02 (Q)	F-7	3	B	4	GA	M	LO	PAS	N/A			
EFV0040	M-12EF02 (Q)	F-6	3	B	4	GA	M	LT	PAS	N/A			
EFV0041	M-12EF02 (Q)	F-7	3	B	2.5	GA	M	LO	PAS	N/A			
EFV0042	M-12EF02 (Q)	F-6	3	B	2.5	GA	M	LO	PAS	N/A			
EFV0046	M-12EF02 (Q)	E-6	3	C	2.5	CK	SA	O	CVT-O CVT-C	Q Q	N/A N/A	NOTE 26 STS EF-210A	26
EFV0047	M-12EF02 (Q)	D-7	3	B	4	GA	M	LO	PAS	N/A			
EFV0048	M-12EF02 (Q)	D-6	3	B	4	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0052	M-12EF02 (Q)	F-7	3	B	8	BTF	M	LO	PAS	N/A			
EFV0053	M-12EF01 (Q)	F-6	3	B	8	BTF	M	LO	PAS	N/A			
EFV0054	M-12EF01 (Q)	G-7	3	B	4	GA	M	LO	PAS	N/A			
EFV0055	M-12EF01 (Q)	G-6	3	B	4	GA	M	LO	PAS	N/A			
EFV0056	M-12EF02 (Q)	F-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0057	M-12EF02 (Q)	F-3	3	B	4	GA	M	LO	PAS	N/A			
EFV0058	M-12EF02 (Q)	G-3	3	B	16	BTF	M	LT	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0061	M-12EF01 (Q)	D-5	3	B	4	GA	M	LO	PAS	N/A			
EFV0062	M-12EF01 (Q)	D-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0063	M-12EF01 (Q)	D-5	3	B	4	GA	M	LO	PAS	N/A			
EFV0064	M-12EF01 (Q)	D-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0065	M-12EF01 (Q)	B-5	3	B	4	GA	M	LO	PAS	N/A			
EFV0066	M-12EF01 (Q)	B-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0068	M-12EF01 (Q)	C-5	3	B	4	GA	M	LO	PAS	N/A			

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VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0069	M-12EF01(Q)	C-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0071	M-12EF01(Q)	C-7	3	B	4	GA	M	LO	PAS	N/A			
EFV0072	M-12EF01(Q)	C-6	3	B	4	GA	M	LT	PAS	N/A			
EFV0076	M-12EF01(Q)	B-6	3	C	2.5	CK	SA	O	CVT-O CVT-C	Q Q	N/A N/A	NOTE 26 STS EF-210B	26
EFV0077	M-12EF01(Q)	B-7	3	B	4	GA	M	LO	PAS	N/A			
EFV0078	M-12EF01(Q)	B-6	3	B	4	GA	M	LO	PAS	N/A			
EFV0079	M-12EF01(Q)	D-7	3	B	8	BTF	M	LO	PAS	N/A			



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EFV0080	M-12EF01 (Q)	D-6	3	B	8	BTF	M	LO	PAS	N/A			
EFV0081	M-12EF01 (Q)	D-7	3	B	4	GA	M	LO	PAS	N/A			
EFV0082	M-12EF01 (Q)	D-6	3	B	4	GA	M	LO	PAS	N/A			
EFV0083	M-12EF02 (Q)	C-7	3	B	2.5	GA	M	LO	PAS	N/A			
EFV0084	M-12EF02 (Q)	C-6	3	B	2.5	GA	M	LO	PAS	N/A			
EFV0088	M-12EF02 (Q)	B-4	3	B	4	GA	M	LO	PAS	N/A			
EFV0089	M-12EF02 (Q)	B-3	3	B	4	GA	M	LO	PAS	N/A			

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VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0090	M-12EF02 (Q)	C-3	3	B	16	BTf	M	LT	PAS	N/A			
EFV0093	M-K2EF01 (Q)	E-3	3	B	30	BTf	M	LC	PAS	N/A			
EFV0094	M-K2EF01 (Q)	D-3	3	B	30	BTf	M	LC	PAS	N/A			
EFV0104	M-12EF01 (Q)	G-8	3	B	30	BTf	M	LO	PAS	N/A			
EFV0107	M-12EF01 (Q)	G-8	3	B	30	BTf	M	LO	PAS	N/A			
EFV0108	M-12EF02 (Q)	G-2	3	B	30	BTf	M	LO	PAS	N/A			
EFV0113	M-12EF01 (Q)	D-8	3	B	30	BTf	M	LO	PAS	N/A			

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VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0116	M-12EF01 (Q)	D-8	3	B	30	BTF	M	LO	PAS	N/A			
EFV0117	M-12EF02 (Q)	C-2	3	B	30	BTF	M	LO	PAS	N/A			
EFV0146	M-12EF02 (Q)	F-7	3	B	2	GA	M	LO	PAS	N/A			
EFV0147	M-12EF02 (Q)	F-6	3	B	2	GA	M	LO	PAS	N/A			
EFV0148	M-12EF02 (Q)	C-7	3	B	2	GA	M	LO	PAS	N/A			
EFV0149	M-12EF02 (Q)	C-6	3	B	2	GA	M	LO	PAS	N/A			
EFV0162	M-K2EF01 (Q)	G-6	3	B	1	GA	M	LC	PAS	N/A			

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EFV0163	M-K2EF01 (Q)	D-6	3	B	1	GA	M	LC	PAS	N/A			
EFV0245	M-K2EF01 (Q)	H-5	3	B	1	GL	M	LT	PAS	N/A			
EFV0246	M-K2EF01 (Q)	D-5	3	B	1	GL	M	LT	PAS	N/A			
EFV0247	M-K2EF01 (Q)	G-6	3	B	2	GA	M	O	PAS	N/A			
EFV0272	M-12EF01 (Q)	F-7	3	B	8	BTF	M	LO	PAS	N/A			
EFV0273	M-12EF01 (Q)	F-6	3	B	8	BTF	M	LO	PAS	N/A			
EFV0274	M-12EF01 (Q)	D-7	3	B	8	BTF	M	LO	PAS	N/A			

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VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EFV0275	M-12EF01 (Q)	D-6	3	B	8	BTF	M	LO	PAS	N/A			
EFV0336	M-K2EF01 (Q)	G-3	3	B	1.5	GA	M	LC	PAS	N/A			
EFV0337	M-K2EF01 (Q)	B-3	3	B	1.5	GA	M	LC	PAS	N/A			
EFV0339	M-K2EF01 (Q)	F-3	3	B	2	GL	M	LC	PAS	N/A			
EFV0340	M-K2EF01 (Q)	F-3	3	B	2	GL	M	LC	PAS	N/A			
EFV0343	M-K2EF01 (Q)	E-3	3	B	2	GL	M	LC	PAS	N/A			
EFV0344	M-K2EF01 (Q)	D-3	3	B	2	GL	M	LC	PAS	N/A			

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EGHV0011	M-12EG01 (Q)	F-8	3	B	1.5	GL	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EGHV0012	M-12EG01 (Q)	C-8	3	B	1.5	GL	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EGHV0013	M-12EG01 (Q)	F-7	3	B	1.5	GL	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EGHV0014	M-12EG01 (Q)	C-7	3	B	1.5	GL	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EGHV0015	M-12EG01 (Q)	D-6	3	B	18	BTF	MO	O/C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EGHV0016	M-12EG01 (Q)	C-6	3	B	18	BTF	MO	O/C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EGHV0053	M-12EG02 (Q)	G-5	3	B	18	BTF	MO	O/C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	

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VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EGHV0054	M-12EG02(Q)	E-5	3	B	18	BTF	MO	O/C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
EGHV0058	M-12EG03(Q)	H-5	2	A	12	GA	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-174 AP 23D-001 AP 23D-001 STS VT-001	
EGHV0059	M-12EG03(Q)	C-5	2	A	12	GA	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-175 AP 23D-001 AP 23D-001 STS VT-001	
EGHV0060	M-12EG03(Q)	B-5	2	A	12	GA	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-175 AP 23D-001 AP 23D-001 STS VT-001	
EGHV0061	M-12EG03(Q)	C-4	2	A	4	GA	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-176 AP 23D-001 AP 23D-001 STS VT-001	
EGHV0062	M-12EG03(Q)	B-4	2	A	4	GA	MO	O	AT-1 OMN-O OMN-C BT-E	APPJ JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-176 AP 23D-001 AP 23D-001 STS VT-001	

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EGHV0069A	M-12EG03(Q)	G-8	3	B	14	BTf	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EG-205A STS EG-205A STS EG-205A	
EGHV0069B	M-12EG03(Q)	G-6	3	B	14	BTf	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EG-205A STS EG-205A STS EG-205A	
EGHV0070A	M-12EG03(Q)	F-8	3	B	14	BTf	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EG-205B STS EG-205B STS EG-205B	
EGHV0070B	M-12EG03(Q)	F-6	3	B	14	BTf	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EG-205B STS EG-205B STS EG-205B	
EGHV0071	M-12EG03(Q)	H-5	3	B	12	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
EGHV0072	M-12EG02(Q)	G-2	3	B	2	GL	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EGHV0073	M-12EG02(Q)	G-2	3	B	2	GL	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	



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EGHV0074	M-12EG02 (Q)	G-1	3	B	2	GL	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EGHV0075	M-12EG02 (Q)	G-1	3	B	2	GL	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EGHV0101	M-12EG02 (Q)	G-4	3	B	18	BTF	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EGHV0102	M-12EG02 (Q)	C-4	3	B	18	BTF	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EGHV0126	M-12EG03 (Q)	G-5	3	B	12	GA	MO	LC	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EGHV0127	M-12EG03 (Q)	G-5	2	A	12	GA	MO	LC	AT-1 OMN-O BT-E	APPJ JOG RC	N/A 2VR7 2VR7	STS PE-174 AP 23D-001 STS VT-001	
EGHV0130	M-12EG03 (Q)	B-5	2	A	12	GA	MO	LC	AT-1 OMN-O BT-E	APPJ JOG RC	N/A 2VR7 2VR7	STS PE-175 AP 23D-001 STS VT-001	

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EGHV0131	M-12EG03 (Q)	C-5	2	A	12	GA	MO	LC	AT-1 OMN-O BT-E	APPJ JOG RC	N/A 2VR7 2VR7	STS PE-175 AP 23D-001 STS VT-001	
EGHV0132	M-12EG03 (Q)	B-4	2	A	4	GA	MO	LC	AT-1 OMN-O BT-E	APPJ JOG RC	N/A 2VR7 2VR7	STS PE-176 AP 23D-001 STS VT-001	
EGHV0133	M-12EG03 (Q)	C-5	2	A	4	GA	MO	LC	AT-1 OMN-O BT-E	APPJ JOG RC	N/A 2VR7 2VR7	STS PE-176 AP 23D-001 STS VT-001	
EGRV0009	M-12EG01 (Q)	G-6	3	B	2	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EG-201A STS EG-201A STS EG-201A	
EGRV0010	M-12EG01 (Q)	C-6	3	B	2	GL	AO	O	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EG-201B STS EG-201B STS EG-201B	
EGV0003	M-12EG01 (Q)	G-3	3	C	20	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS EG-100A STS EG-100A	
EGV0004	M-12EG01 (Q)	G-3	3	B	20	BTF	M	LO	PAS	N/A			

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EGV0007	M-12EG01 (Q)	E-3	3	C	20	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS EG-100A STS EG-100A	
EGV0008	M-12EG01 (Q)	E-3	3	B	20	BTf	M	LO	PAS	N/A			
EGV0009	M-12EG01 (Q)	E-2	3	B	2	GL	M	LC	PAS	N/A			
EGV0012	M-12EG01 (Q)	D-3	3	C	20	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS EG-100B STS EG-100B	
EGV0013	M-12EG01 (Q)	D-3	3	B	20	BTf	M	LO	PAS	N/A			
EGV0016	M-12EG01 (Q)	B-3	3	C	20	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	STS EG-100B STS EG-100B	
EGV0017	M-12EG01 (Q)	B-3	3	B	20	BTf	M	LO	PAS	N/A			

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EGV0018	M-12EG01 (Q)	D-2	3	B	2	GL	M	LC	PAS	N/A			
EGV0019	M-12EG02 (Q)	G-7	3	B	20	BTF	M	LO	PAS	N/A			
EGV0035	M-12EG02 (Q)	G-6	3	B	20	BTF	M	LO	PAS	N/A			
EGV0036	M-12EG02 (Q)	G-5	3	C	18	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	NOTE 80 NOTE 36	36,80
EGV0038	M-12EG02 (Q)	F-4	3	B	3	GA	M	LO	PAS	N/A			
EGV0039	M-12EG02 (Q)	E-4	3	B	2.5	GA	M	LO	PAS	N/A			
EGV0040	M-12EG02 (Q)	F-4	3	B	2	GA	M	LO	PAS	N/A			

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EGV0042	M-12EG02 (Q)	E-4	3	B	1	GA	M	LO	PAS	N/A			
EGV0043	M-12EG02 (Q)	F-2	3	B	3	GA	M	LO	PAS	N/A			
EGV0044	M-12EG02 (Q)	C-7	3	B	20	BTF	M	LO	PAS	N/A			
EGV0060	M-12EG02 (Q)	C-6	3	B	20	BTF	M	LO	PAS	N/A			
EGV0061	M-12EG02 (Q)	F-5	3	C	18	CK	SA	O/C	CVT-O CVT-C	Q Q	N/A N/A	NOTE 80 NOTE 36	36,80
EGV0063	M-12EG02 (Q)	C-4	3	B	3	GA	M	LO	PAS	N/A			
EGV0064	M-12EG02 (Q)	B-4	3	B	2.5	GA	M	LO	PAS	N/A			

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EGV0065	M-12EG02 (Q)	B-4	3	B	2	GA	M	LO	PAS	N/A			
EGV0067	M-12EG02 (Q)	A-4	3	B	1	GA	M	LO	PAS	N/A			
EGV0068	M-12EG02 (Q)	C-2	3	B	3	GA	M	LO	PAS	N/A			
EGV0088	M-12EG03 (Q)	H-5	3	B	12	GA	M	LO	PAS	N/A			
EGV0092	M-12EG03 (Q)	H-4	3	B	12	GA	M	LO	PAS	N/A			
EGV0093	M-12EG03 (Q)	D-3	3	B	4	GA	M	O	PAS	N/A			
EGV0094	M-12EG03 (Q)	C-3	3	B	4	GA	M	O	PAS	N/A			

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EGV0095	M-12EG03(Q)	G-2	3	B	6	GA	M	O	PAS	N/A			
EGV0096	M-12EG03(Q)	C-3	3	B	4	GA	M	LO	PAS	N/A			
EGV0097	M-12EG03(Q)	D-3	3	B	1	GA	M	LO	PAS	N/A			
EGV0099	M-12EG03(Q)	E-3	3	B	4	GA	M	O	PAS	N/A			
EGV0100	M-12EG03(Q)	E-3	3	B	4	GA	M	O	PAS	N/A			
EGV0101	M-12EG03(Q)	G-2	3	B	6	GA	M	O	PAS	N/A			
EGV0102	M-12EG03(Q)	E-3	3	B	4	GA	M	LO	PAS	N/A			

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EGV0103	M-12EG03 (Q)	E-3	3	B	1	GA	M	LO	PAS	N/A			
EGV0105	M-12EG03 (Q)	A-3	3	B	4	GA	M	LO	PAS	N/A			
EGV0108	M-12EG03 (Q)	G-3	3	B	4	GA	M	O	PAS	N/A			
EGV0109	M-12EG03 (Q)	F-3	3	B	4	GA	M	O	PAS	N/A			
EGV0110	M-12EG03 (Q)	G-2	3	B	6	GA	M	O	PAS	N/A			
EGV0111	M-12EG03 (Q)	G-3	3	B	4	GA	M	LO	PAS	N/A			
EGV0112	M-12EG03 (Q)	G-3	3	B	1	GA	M	LO	PAS	N/A			



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VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EGV0114	M-12EG03(Q)	B-3	3	B	4	GA	M	O	PAS	N/A			
EGV0115	M-12EG03(Q)	B-3	3	B	4	GA	M	O	PAS	N/A			
EGV0116	M-12EG03(Q)	G-2	3	B	6	GA	M	O	PAS	N/A			
EGV0117	M-12EG03(Q)	B-3	3	B	4	GA	M	LO	PAS	N/A			
EGV0118	M-12EG03(Q)	A-3	3	B	1	GA	M	LO	PAS	N/A			
EGV0123	M-12EG03(Q)	D-4	3	B	4	GA	M	LO	PAS	N/A			
EGV0124	M-12EG03(Q)	D-4	3	C	4	CK	SA	O	CVT-O CVT-C	COND COND	N/A N/A	NOTE 80 STS PE-176	45,80

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EGV0125	M-12EG03 (Q)	A-5	3	B	12	GA	M	LO	PAS	N/A			
EGV0128	M-12EG03 (Q)	D-5	3	B	12	GA	M	LO	PAS	N/A			
EGV0129	M-12EG03 (Q)	D-5	3	C	12	CK	SA	O	CVT-O CVT-C	Q COND	N/A N/A	NOTE 80 STS PE-175	47,80
EGV0130	M-12EG01 (Q)	D-6	3	C	18	CK	SA	O/C	CVT-O CVT-C	Q RR	N/A N/A	NOTE 80 STS MT-077	48,80
EGV0131	M-12EG01 (Q)	D-6	3	C	18	CK	SA	O/C	CVT-O CVT-C	Q RR	N/A N/A	NOTE 80 STS MT-077	48,80
EGV0132	M-12EG01 (Q)	G-5	3	B	20	BTF	M	LO	PAS	N/A			
EGV0135	M-12EG01 (Q)	E-5	3	B	20	BTF	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EGV0138	M-12EG01 (Q)	D-5	3	B	20	BTF	M	LO	PAS	N/A			
EGV0141	M-12EG01 (Q)	B-5	3	B	20	BTF	M	LO	PAS	N/A			
EGV0158	M-12EG01 (Q)	D-7	3	B	2	GL	M	LC	PAS	N/A			
EGV0159	M-12EG01 (Q)	G-6	3	C	2x3	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EGV0169	M-12EG01 (Q)	D-7	3	B	2	GL	M	LC	PAS	N/A			
EGV0170	M-12EG01 (Q)	C-6	3	C	2x3	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EGV0182	M-12EG01 (Q)	F-7	3	B	3	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EGV0185	M-12EG01 (Q)	C-7	3	B	3	GA	M	LO	PAS	N/A			
EGV0200	M-12EG02 (Q)	H-4	3	B	12	BTf	M	LO	PAS	N/A			
EGV0201	M-12EG02 (Q)	D-4	3	B	12	BTf	M	LO	PAS	N/A			
EGV0204	M-12EG03 (Q)	H-4	2	A/C	12	CK	SA	O/C	AT-1 CVT-O CVT-C	APPJ Q COND	N/A N/A N/A	STS PE-174 NOTE 80 STS PE-174	59,80
EGV0305	M-12EG01 (Q)	G-6	3	C	1x1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EGV0306	M-12EG01 (Q)	C-6	3	C	1x1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EGV0331	M-12EG03 (Q)	G-3	3	B	3	GA	M	O	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EGV0332	M-12EG03 (Q)	F-3	3	B	3	GA	M	O	PAS	N/A			
EGV0333	M-12EG03 (Q)	D-3	3	B	3	GA	M	O	PAS	N/A			
EGV0334	M-12EG03 (Q)	C-3	3	B	3	GA	M	O	PAS	N/A			
EGV0370	M-12EG03 (Q)	A-4	3	B	4	GA	M	O	PAS	N/A			
EJ8708A	M-12EJ01 (Q)	G-8	2	C	3x4	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EJ8708B	M-12EJ01 (Q)	C-8	2	C	3x4	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EJ8724A	M-12EJ01 (Q)	G-6	2	B	10	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EJ8724B	M-12EJ01 (Q)	C-6	2	B	10	GA	M	LO	PAS	N/A			
EJ8730A	M-12EJ01 (Q)	G-4	2	C	10	CK	SA	C	CVT-C CVP-O CVT-C	COND Q COND	N/A N/A N/A	STS CV-211 STS EJ-100A STS CV-211	33,84
EJ8730B	M-12EJ01 (Q)	C-4	2	C	10	CK	SA	C	CVT-C CVP-O CVT-C	COND Q COND	N/A N/A N/A	STS CV-211 STS EJ-100B STS CV-211	33,84
EJ8841A	M-12EJ01 (Q)	E-2	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-211 STS PE-019E	4,62,63,87
EJ8841B	M-12EJ01 (Q)	D-2	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-211 STS PE-019E	4,62,63,87
EJ8842	M-12EJ01 (Q)	D-3	2	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EJ8856A	M-12EJ01 (Q)	G-3	2	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EJ8856B	M-12EJ01 (Q)	B-3	2	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EJ8958A	M-12EJ01 (Q)	F-6	2	C	14	CK	SA	C	CVT-C CVP-O CVT-O	COND COND COND	N/A N/A N/A	STS BN-206 STS EJ-100A STS CV-210B	72,92
EJ8958B	M-12EJ01 (Q)	B-6	2	C	14	CK	SA	C	CVT-C CVP-O CVT-O	COND COND COND	N/A N/A N/A	STS BN-206 STS EJ-100B STS CV-210B	72,92
EJ8969A	M-12EJ01 (Q)	G-4	2	C	8	CK	SA	C	CVT-O CVT-C	COND COND	N/A N/A	STS CV-210B STS EJ-210	71,93
EJ8969B	M-12EJ01 (Q)	A-4	2	C	8	CK	SA	C	CVT-O CVT-C	COND COND	N/A N/A	STS CV-210B STS EJ-210	71,93
EJFCV0610	M-12EJ01 (Q)	H-6	2	B	3	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
EJFCV0611	M-12EJ01 (Q)	A-6	2	B	3	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EJFCV0618	M-12EJ01 (Q)	F-5	2	B	8	BTf	AO	C	PIT	2Y	N/A	STS EJ-209A	
EJFCV0619	M-12EJ01 (Q)	B-5	2	B	8	BTf	AO	C	PIT	2Y	N/A	STS EJ-209B	
EJHCV0606	M-12EJ01 (Q)	G-4	2	B	10	BTf	AO	O	PIT	2Y	N/A	STS EJ-209A	
EJHCV0607	M-12EJ01 (Q)	C-4	2	B	10	BTf	AO	O	PIT	2Y	N/A	STS EJ-209B	
EJHCV8825	M-12EJ01 (Q)	E-2	2	B	0.75	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EJ-201A STS EJ-201A STS EJ-201A	
EJHCV8890A	M-12EJ01 (Q)	F-3	2	B	0.75	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EJ-201A STS EJ-201A STS EJ-201A	
EJHCV8890B	M-12EJ01 (Q)	C-2	2	B	0.75	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EJ-201B STS EJ-201B STS EJ-201B	



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EJHV0014	M-12EJ01 (Q)	H-5	2	B	1	GL	SO	C	PIT	2Y	N/A	STS EJ-208A	
EJHV0015	M-12EJ01 (Q)	A-5	2	B	1	GL	SO	C	PIT	2Y	N/A	STS EJ-208B	
EJHV0021	M-12EJ01 (Q)	E-7	2	N/A	1	GL	SO	C	PAS	N/A			
EJHV0022	M-12EJ01 (Q)	D-7	2	N/A	1	GL	SO	C	PAS	N/A			
EJHV0023	M-12EJ01 (Q)	F-7	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-115 STS EJ-201A STS EJ-201A STS EJ-207A	
EJHV0024	M-12EJ01 (Q)	D-6	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-114 STS EJ-201B STS EJ-201B STS EJ-207B	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EJHV0025	M-12EJ01 (Q)	F-6	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-115 STS EJ-201A STS EJ-201A STS EJ-207A	
EJHV0026	M-12EJ01 (Q)	D-6	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-114 STS EJ-201B STS EJ-201B STS EJ-207B	
EJHV8701A	M-12EJ01 (Q)	F-8	1	A	12	GA	MO	C	AT-2 OMN-O OMN-C BT-E	1.5Y JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-019B AP 23D-001 AP 23D-001 STS VT-001	4, 8
EJHV8701B	M-12EJ01 (Q)	F-8	1	A	12	GA	MO	C	AT-2 OMN-O OMN-C BT-E	1.5Y JOG JOG RC	N/A 2VR7 2VR7 2VR7	STS PE-019B AP 23D-001 AP 23D-001 STS VT-001	4, 8
EJHV8716A	M-12EJ01 (Q)	E-3	2	B	10	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	20
EJHV8716B	M-12EJ01 (Q)	D-4	2	B	10	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	20

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EJHV8804A	M-12EJ01 (Q)	G-4	2	B	8	GA	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	27
EJHV8804B	M-12EJ01 (Q)	A-4	2	B	8	GA	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	27
EJHV8809A	M-12EJ01 (Q)	G-3	2	B	10	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	28
EJHV8809B	M-12EJ01 (Q)	C-3	2	B	10	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	28
EJHV8811A	M-12EJ01 (Q)	E-7	2	B	14	GA	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	34
EJHV8811B	M-12EJ01 (Q)	D-7	2	B	14	GA	MO	C	OMN-O BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	34
EJHV8840	M-12EJ01 (Q)	E-3	2	B	10	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	28

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EJV0001	M-12EJ01 (Q)	F-4	2	B	2	GL	M	C	PAS	N/A			
EJV0002	M-12EJ01 (Q)	C-4	2	B	2	GL	M	C	PAS	N/A			
EJV0033	M-12EJ01 (Q)	G-5	3	B	18	BTF	M	O	PAS	N/A			
EJV0038	M-12EJ01 (Q)	D-5	3	B	18	BTF	M	O	PAS	N/A			
EJV0070	M-12EJ01 (Q)	G-6	2	B	0.75	GL	M	LT	PAS	N/A			
EJV0071	M-12EJ01 (Q)	D-6	2	B	0.75	GL	M	LT	PAS	N/A			
EM8815	M-12EM02 (Q)	D-3	1	A/C	3	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y RR 1.5Y	N/A N/A N/A	STS PE-019E STS EM-003A STS PE-019E	4,60,61

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EM8851	M-12EM01 (Q)	C-4	2	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EM8853A	M-12EM01 (Q)	F-5	2	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EM8853B	M-12EM01 (Q)	E-5	2	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EM8858A	M-12EM01 (Q)	E-7	2	C	.75x1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EM8858B	M-12EM01 (Q)	D-7	2	C	.75x1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EM8921A	M-12EM01 (Q)	E-5	2	B	4	GA	M	LO	PAS	N/A			
EM8921B	M-12EM01 (Q)	D-5	2	B	4	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EM8922A	M-12EM01 (Q)	E-6	2	C	4	CK	SA	C	CVT-C	RR	N/A	STS BG-210A, STS EM-003B, STS CV-210B	68,77
									CVT-0	RR	N/A	STS CV-210A, STS EM-003B, STS CV-210B	
EM8922B	M-12EM01 (Q)	D-5	2	C	4	CK	SA	C	CVT-C	RR	N/A	STS BG-210A, STS EM-003B, STS CV-210B	68,77
									CVT-0	RR	N/A	STS CV-210A, STS EM-003B, STS CV-210B	
EM8926A	M-12EM01 (Q)	E-7	2	C	8	CK	SA	C	CVT-C	COND	N/A	STS BN-206	68,90
									CVT-0	COND	N/A	STS CV-210A, STS EM-003B, STS EM-100A	
EM8926B	M-12EM01 (Q)	D-7	2	C	8	CK	SA	C	CVT-C	COND	N/A	STS BN-206	68,90
									CVT-0	COND	N/A	STS CV-210A, STS EM-003B, STS EM-100B	
EMHV8801A	M-12EM02 (Q)	D-4	2	B	4	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EMHV8801B	M-12EM02 (Q)	D-4	2	B	4	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EMHV8802A	M-12EM01 (Q)	E-4	2	B	4	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EMHV8802B	M-12EM01 (Q)	D-4	2	B	4	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EMHV8803A	M-12EM02 (Q)	C-7	2	B	4	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EMHV8803B	M-12EM02 (Q)	A-7	2	B	4	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									OMN-C	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EMHV8807A	M-12EM01 (Q)	G-7	2	B	6	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	
EMHV8807B	M-12EM01 (Q)	F-7	2	B	6	GA	MO	C	OMN-O	JOG	2VR7	AP 23D-001	
									BT-E	RC	2VR7	STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EMHV8814A	M-12EM01 (Q)	B-6	2	A	1.5	GL	MO	O	AT-4 OMN-C BT-E	2Y JOG RC	N/A 2VR7 2VR7	STS CV-210A AP 23D-001 STS VT-001	
EMHV8814B	M-12EM01 (Q)	B-5	2	A	1.5	GL	MO	O	AT-4 OMN-C BT-E	2Y JOG RC	N/A 2VR7 2VR7	STS CV-210A AP 23D-001 STS VT-001	
EMHV8821A	M-12EM01 (Q)	E-4	2	B	4	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EMHV8821B	M-12EM01 (Q)	D-4	2	B	4	GA	MO	O	OMN-C BT-E	JOG RC	2VR7 2VR7	AP 23D-001 STS VT-001	
EMHV8823	M-12EM01 (Q)	C-4	2	B	0.75	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EM-201A STS EM-201A STS EM-201A	
EMHV8824	M-12EM01 (Q)	D-3	2	B	0.75	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EM-201A STS EM-201A STS EM-201A	
EMHV8835	M-12EM01 (Q)	B-4	2	B	4	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	30



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EMHV8843	M-12EM02 (Q)	C-4	2	B	0.75	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EM-201B STS EM-201B STS EM-201B	
EMHV8871	M-12EM01 (Q)	H-5	2	A	0.75	GL	AO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-192 STS EM-201B STS EM-201B STS EM-201B	
EMHV8881	M-12EM01 (Q)	G-4	2	B	0.75	GL	AO	C	BT-C FST PIT	Q Q 2Y	N/A N/A N/A	STS EM-201A STS EM-201A STS EM-201A	
EMHV8882	M-12EM02 (Q)	C-3	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EM-203A	
EMHV8888	M-12EM01 (Q)	F-6	2	A	1	GL	AO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-158 STS EM-201B STS EM-201B STS EM-201B	
EMHV8889A	M-12EM01 (Q)	G-2	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EM-203B	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EMHV8889B	M-12EM01 (Q)	G-3	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EM-203A	
EMHV8889C	M-12EM01 (Q)	G-2	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EM-203A	
EMHV8889D	M-12EM01 (Q)	G-2	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EM-203B	
EMHV8923A	M-12EM01 (Q)	E-7	2	B	6	GA	MO	O	PIT	2Y	N/A	STS EM-203A	
EMHV8923B	M-12EM01 (Q)	D-7	2	B	6	GA	MO	O	PIT	2Y	N/A	STS EM-203B	
EMHV8924	M-12EM01 (Q)	F-8	2	B	6	GA	MO	O	PAS	N/A			
EMHV8964	M-12EM01 (Q)	H-5	2	A	0.75	GL	AO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-192 STS EM-201A STS EM-201A STS EM-201A	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EMV0001	M-12EM01 (Q)	F-3	1	A/C	2	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y RR 1.5Y	N/A N/A N/A	STS PE-019E STS CV-104 STS PE-019E	4,64,65,89
EMV0002	M-12EM01 (Q)	E-3	1	A/C	2	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y RR 1.5Y	N/A N/A N/A	STS PE-019E STS CV-104 STS PE-019E	4,64,65,89
EMV0003	M-12EM01 (Q)	D-3	1	A/C	2	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y RR 1.5Y	N/A N/A N/A	STS PE-019E STS CV-104 STS PE-019E	4,64,65,89
EMV0004	M-12EM01 (Q)	C-3	1	A/C	2	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y RR 1.5Y	N/A N/A N/A	STS PE-019E STS CV-104 STS PE-019E	4,64,65,89
EMV0005	M-12EM01 (Q)	A-6	2	C	1.5	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS EM-100A STS EM-100B	
EMV0006	M-12EM01 (Q)	F-6	2	A/C	1	CK	SA	C	AT-1 CVT-O CVT-C	APPJ RR Q	N/A N/A N/A	STS PE-158 NOTE 37 STS EM-100A	37
EMV0007	M-12EM01 (Q)	A-5	2	C	1.5	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS EM-100B STS EM-100A	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EMV0019	M-12EM02 (Q)	D-6	2	B	1	GL	M	LC	PAS	N/A			
EMV0089	M-12EM01 (Q)	F-3	2	B	1.5	ANG	M	LT	PAS	N/A			
EMV0090	M-12EM01 (Q)	E-3	2	B	1.5	ANG	M	LT	PAS	N/A			
EMV0091	M-12EM01 (Q)	D-3	2	B	1.5	ANG	M	LT	PAS	N/A			
EMV0092	M-12EM01 (Q)	C-3	2	B	1.5	ANG	M	LT	PAS	N/A			
EMV0095	M-12EM01 (Q)	C-3	2	B	1.5	ANG	M	LT	PAS	N/A			
EMV0096	M-12EM01 (Q)	C-3	2	B	1.5	ANG	M	LT	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EMV0097	M-12EM01 (Q)	B-3	2	B	1.5	ANG	M	LT	PAS	N/A			
EMV0098	M-12EM01 (Q)	B-3	2	B	1.5	ANG	M	LT	PAS	N/A			
EMV0099	M-12EM01 (Q)	F-6	3	B	2	GL	M	LT	PAS	N/A			
EMV0103	M-12EM01 (Q)	D-6	3	B	2	GL	M	LT	PAS	N/A			
EMV0107	M-12EM02 (Q)	E-3	1	B	1.5	ANG	M	LT	PAS	N/A			
EMV0108	M-12EM02 (Q)	G-3	1	B	1.5	ANG	M	LT	PAS	N/A			
EMV0109	M-12EM02 (Q)	F-3	1	B	1.5	ANG	M	LT	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EMV0110	M-12EM02 (Q)	D-3	1	B	1.5	ANG	M	LT	PAS	N/A			
EMV0151	M-12EM02 (Q)	B-5	2	B	1	GL	M	LC	PAS	N/A			
EMV0251	M-12EM01 (Q)	H-4	3	C	.75x1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
ENHV0001	M-12EN01	G-7	2	B	12	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	N/A N/A N/A	AP 23D-001 AP 23D-001 STS VT-001	35
ENHV0006	M-12EN01	G-4	2	B	10	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	N/A N/A N/A	AP 23D-001 AP 23D-001 STS VT-001	
ENHV0007	M-12EN01	B-7	2	B	12	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	35
ENHV0012	M-12EN01	B-4	2	B	10	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ENHV0015	M-12EN01	E-6	2	B	3	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
ENHV0016	M-12EN01	D-6	2	B	3	GA	MO	C	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	
ENV0002	M-12EN01	G-7	2	C	12	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS MT-050 STS MT-050	1
ENV0003	M-12EN01	G-7	2	C	12	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS MT-050 STS MT-050	1
ENV0004	M-12EN01	G-5	2	C	10	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS MT-050 STS MT-050	1
ENV0005	M-12EN01	F-6	2	B	3	GA	M	LO	PAS	N/A			
ENV0008	M-12EN01	B-7	2	C	12	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS MT-050 STS MT-050	1

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ENV0009	M-12EN01	B-7	2	C	12	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS MT-050 STS MT-050	1
ENV0010	M-12EN01	B-5	2	C	10	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS MT-050 STS MT-050	1
ENV0011	M-12EN01	B-6	2	B	3	GA	M	LO	PAS	N/A			
ENV0013	M-12EN01	G-4	2	C	10	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS MT-050 STS MT-050	1
ENV0014	M-12EN01	G-3	2	B	10	GA	M	LO	PAS	N/A			
ENV0017	M-12EN01	B-4	2	C	10	CK	SA	C	CVT-O CVT-C	RR RR	N/A N/A	STS MT-050 STS MT-050	1
ENV0018	M-12EN01	B-3	2	B	10	GA	M	LO	PAS	N/A			



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ENV0024	M-12EN01	F-4	2	B	4	GA	M	LC	PAS	N/A			
ENV0025	M-12EN01	C-4	2	B	4	GA	M	LC	PAS	N/A			
ENV0057	M-12EN01	F-5	2	C	0.75	RV	SA	C	RVT	10Y	N/A	STS MT-070	
ENV0058	M-12EN01	F-5	2	C	1x1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
ENV0076	M-12EN01	G-4	2	B	1	GL	M	LC	PAS	N/A			
ENV0080	M-12EN01	B-4	2	B	1	GL	M	LC	PAS	N/A			
ENV0097	M-12EN01	D-5	2	B	3	GA	M	LO	PIT	2Y	N/A	STS EN-205	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
ENV0098	M-12EN01	F-6	2	B	3	GA	M	LO	PAS	N/A			
ENV0099	M-12EN01	F-6	2	C	3	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS EN-100A STS EN-100A	
ENV0100	M-12EN01	C-6	2	B	3	GA	M	LO	PAS	N/A			
ENV0101	M-12EN01	C-6	2	C	3	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS EN-100B STS EN-100B	
ENV0106	M-12EN01	F-5	2	C	1x1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EP8818A	M-12EP01(Q)	G-3	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-211 STS PE-019E	4,62,63,83
EP8818B	M-12EP01(Q)	F-3	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-211 STS PE-019E	4,62,63,83

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EP8818C	M-12EP01 (Q)	D-3	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-211 STS PE-019E	4,62,63,83
EP8818D	M-12EP01 (Q)	C-3	1	A/C	6	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS CV-211 STS PE-019E	4,62,63,83
EP8855A	M-12EP01 (Q)	H-7	2	C	1x2	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EP8855B	M-12EP01 (Q)	F-7	2	C	1x2	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EP8855C	M-12EP01 (Q)	D-7	2	C	1x2	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EP8855D	M-12EP01 (Q)	C-7	2	C	1x2	RV	SA	C	RVT	10Y	N/A	STS MT-070	
EP8857	M-12EP01 (Q)	A-5	NC	C	1X2	RV	SA	C	RVT	10Y	N/A	STS MT-070	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EP8956A	M-12EP01 (Q)	G-4	1	A/C	10	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS EP-210 STS PE-019E	4,66,67,94
EP8956B	M-12EP01 (Q)	E-4	1	A/C	10	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS EP-210 STS PE-019E	4,66,67,94
EP8956C	M-12EP01 (Q)	C-4	1	A/C	10	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS EP-210 STS PE-019E	4,66,67,94
EP8956D	M-12EP01 (Q)	B-4	1	A/C	10	CK	SA	C	AT-2 CVT-O CVT-C	1.5Y COND COND	N/A N/A N/A	STS PE-019E STS EP-210 STS PE-019E	4,66,67,94
EPHV8808A	M-12EP01 (Q)	G-5	1	B	10	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	29
EPHV8808B	M-12EP01 (Q)	E-5	1	B	10	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	29
EPHV8808C	M-12EP01 (Q)	C-5	1	B	10	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	29

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EPHV8808D	M-12EP01 (Q)	B-5	1	B	10	GA	MO	O	OMN-O OMN-C BT-E	JOG JOG RC	2VR7 2VR7 2VR7	AP 23D-001 AP 23D-001 STS VT-001	29
EPHV8875A	M-12EP01 (Q)	H-6	2	B	1	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8875B	M-12EP01 (Q)	F-6	2	B	1	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8875C	M-12EP01 (Q)	D-6	2	B	1	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8875D	M-12EP01 (Q)	C-6	2	B	1	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8877A	M-12EP01 (Q)	F-4	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8877B	M-12EP01 (Q)	E-4	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EP-207	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
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VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EPHV8877C	M-12EP01(Q)	C-4	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8877D	M-12EP01(Q)	B-4	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8878A	M-12EP01(Q)	G-5	2	B	1	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8878B	M-12EP01(Q)	E-5	2	B	1	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8878C	M-12EP01(Q)	D-5	2	B	1	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8878D	M-12EP01(Q)	B-5	2	B	1	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8879A	M-12EP01(Q)	G-4	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EP-207	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
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VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EPHV8879B	M-12EP01 (Q)	E-4	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8879C	M-12EP01 (Q)	D-4	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8879D	M-12EP01 (Q)	C-2	2	B	0.75	GL	AO	C	PIT	2Y	N/A	STS EP-207	
EPHV8880	M-12EP01 (Q)	A-4	2	A	1	GL	AO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-145 STS EP-201 STS EP-201 STS EP-201	
EPHV8950A	M-12EP01 (Q)	H-7	2	B	1	GL	SO	C	BT-O BT-C FST PIT	CS CS CS 2Y	N/A N/A N/A N/A	STS EP-206 STS EP-206 STS EP-206 STS EP-206	7,39
EPHV8950B	M-12EP01 (Q)	F-8	2	B	1	GL	SO	C	BT-O BT-C FST PIT	CS CS CS 2Y	N/A N/A N/A N/A	STS EP-206 STS EP-206 STS EP-206 STS EP-206	7,39

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EPHV8950C	M-12EP01 (Q)	F-7	2	B	1	GL	SO	C	BT-O	CS	N/A	STS EP-206	7,39
									BT-C	CS	N/A	STS EP-206	
									FST	CS	N/A	STS EP-206	
									PIT	2Y	N/A	STS EP-206	
EPHV8950D	M-12EP01 (Q)	D-8	2	B	1	GL	SO	C	BT-O	CS	N/A	STS EP-206	7,39
									BT-C	CS	N/A	STS EP-206	
									FST	CS	N/A	STS EP-206	
									PIT	2Y	N/A	STS EP-206	
EPHV8950E	M-12EP01 (Q)	D-7	2	B	1	GL	SO	C	BT-O	CS	N/A	STS EP-206	7,39
									BT-C	CS	N/A	STS EP-206	
									FST	CS	N/A	STS EP-206	
									PIT	2Y	N/A	STS EP-206	
EPHV8950F	M-12EP01 (Q)	C-8	2	B	1	GL	SO	C	BT-O	CS	N/A	STS EP-206	7,39
									BT-C	CS	N/A	STS EP-206	
									FST	CS	N/A	STS EP-206	
									PIT	2Y	N/A	STS EP-206	
EPV0001	M-12EP01 (Q)	G-7	2	B	2	GL	M	LC	PAS	N/A			
EPV0010	M-12EP01 (Q)	G-3	1	A/C	2	CK	SA	C	AT-2	1.5Y	N/A	STS PE-019E	4,64,65,91
									CVT-O	COND	N/A	STS CV-210A, STS EM-003B	
									CVT-C	COND	N/A	STS PE-019E	



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EPV0011	M-12EP01 (Q)	E-7	2	B	2	GL	M	LC	PAS	N/A			
EPV0020	M-12EP01 (Q)	F-3	1	A/C	2	CK	SA	C	AT-2 CVT-O  CVT-C	1.5Y COND  COND	N/A N/A N/A	STS PE-019E STS CV-210A, STS EM-003B STS PE-019E	4,64,65,91
EPV0021	M-12EP01 (Q)	C-7	2	B	2	GL	M	LC	PAS	N/A			
EPV0030	M-12EP01 (Q)	D-3	1	A/C	2	CK	SA	C	AT-2 CVT-O  CVT-C	1.5Y COND  COND	N/A N/A N/A	STS PE-019E STS CV-210A, STS EM-003B STS PE-019E	4,64,65,91
EPV0031	M-12EP01 (Q)	B-7	2	B	2	GL	M	LC	PAS	N/A			
EPV0040	M-12EP01 (Q)	C-3	1	A/C	2	CK	SA	C	AT-2 CVT-O  CVT-C	1.5Y COND  COND	N/A N/A N/A	STS PE-019E STS CV-210A, STS EM-003B STS PE-019E	4,64,65,91

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
EPV0046	M-12EP01 (Q)	A-5	2	A/C	1	CK	SA	C	AT-1 CVT-O CVT-C	APPJ RR Q	N/A N/A N/A	STS PE-145 NOTE 37 STS EP-201	37
FCHV0312	M-12FC02 (Q)	F-5	3	B	4	GA	MO	C	OMN-O BT-E	JOG RC	N/A N/A	AP 23D-001 STS VT-001	
FCV0001	M-12FC02 (Q)	G-6	2	C	4	CK	SA	C	CVT-C CVT-0	COND COND	N/A N/A	STS MT-061 STS AL-103, STS AL-104 STS AL-211	16
FCV0002	M-12FC02 (Q)	G-6	2	C	4	CK	SA	C	CVT-C CVT-0	COND COND	N/A N/A	STS MT-061 STS AL-103, STS AL-104 STS AL-211	16
FCV0003	M-12FC02 (Q)	F-6	3	C	4	CK	SA	C	PAS	N/A			
FCV0004	M-12FC02 (Q)	F-7	3	B	4	GA	M	LC	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
FCV0024	M-12FC02 (Q)	G-6	2	C	4	CK	SA	C	CVT-C CVT-0	COND COND	N/A N/A	STS MT-061 STS AL-103, STS AL-104 STS AL-211	16
FCV0025	M-12FC02 (Q)	G-6	2	C	4	CK	SA	C	CVT-C CVT-0	COND COND	N/A N/A	STS MT-061 STS AL-103, STS AL-104 STS AL-211	16
GKPSV0004A	M-12GK01 (Q)	2GK	3	C	3/4X1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
GKPSV0004B	M-12GK01 (Q)	2GK	3	C	3/4X1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
GKPSV0005A	M-12GK01 (Q)	2GK	3	C	3/4X1	RV	SA	C	RVT	10Y	N/A	STS MT-070	
GKPSV0005B	M-12GK01 (Q)	2GK	3	C	3/4X1	RV	SA	C	RVT	10Y	N/A	STS MT-070	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
GNV0001	M-12GN01 (Q)	E-7	3	B	10	BTF	M	LT	PAS	N/A			
GNV0002	M-12GN01 (Q)	D-3	3	B	10	BTF	M	LT	PAS	N/A			
GNV0003	M-12GN01 (Q)	D-7	3	B	10	BTF	M	LT	PAS	N/A			
GNV0004	M-12GN01 (Q)	E-3	3	B	10	BTF	M	LT	PAS	N/A			
GNV0039	M-12GN01 (Q)	E-7	3	B	10	GA	M	LO	PAS	N/A			
GNV0040	M-12GN01 (Q)	D-3	3	B	10	GA	M	LO	PAS	N/A			
GNV0041	M-12GN01 (Q)	D-7	3	B	10	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
GNV0042	M-12GN01 (Q)	E-3	3	B	10	GA	M	LO	PAS	N/A			
GSHV0003	M-12GS01 (Q)	E-6	2	A	1	GA	SO	C	AT-1	APPJ	N/A	STS PE-199	7
									BT-O	Q	N/A	STS GS-201B	
									BT-C	Q	N/A	STS GS-201B	
									FST	Q	N/A	STS GS-201B	
									PIT	2Y	N/A	STS GS-202	
GSHV0004	M-12GS01 (Q)	E-6	2	A	1	GA	SO	C	AT-1	APPJ	N/A	STS PE-199	7
									BT-O	Q	N/A	STS GS-201B	
									BT-C	Q	N/A	STS GS-201B	
									FST	Q	N/A	STS GS-201B	
									PIT	2Y	N/A	STS GS-202	
GSHV0005	M-12GS01 (Q)	D-6	2	A	1	GA	SO	C	AT-1	APPJ	N/A	STS PE-199	7
									BT-O	Q	N/A	STS GS-201B	
									BT-C	Q	N/A	STS GS-201B	
									FST	Q	N/A	STS GS-201B	
									PIT	2Y	N/A	STS GS-202	
GSHV0008	M-12GS01 (Q)	B-6	2	A	1	GA	SO	C	AT-1	APPJ	N/A	STS PE-156	7
									BT-O	Q	N/A	STS GS-201B	
									BT-C	Q	N/A	STS GS-201B	
									FST	Q	N/A	STS GS-201B	
									PIT	2Y	N/A	STS GS-202	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
GSHV0009	M-12GS01 (Q)	B-6	2	A	1	GA	SO	C	AT-1 BT-O BT-C FST PIT	APPJ Q Q Q 2Y	N/A N/A N/A N/A N/A	STS PE-156 STS GS-201B STS GS-201B STS GS-201B STS GS-202	7
GSHV0012	M-12GS01 (Q)	E-4	2	A	1	GA	SO	C	AT-1 BT-O BT-C FST PIT	APPJ Q Q Q 2Y	N/A N/A N/A N/A N/A	STS PE-201 STS GS-201A STS GS-201A STS GS-201A STS GS-202	7
GSHV0013	M-12GS01 (Q)	E-5	2	A	1	GA	SO	C	AT-1 BT-O BT-C FST PIT	APPJ Q Q Q 2Y	N/A N/A N/A N/A N/A	STS PE-201 STS GS-201A STS GS-201A STS GS-201A STS GS-202	7
GSHV0014	M-12GS01 (Q)	D-5	2	A	1	GA	SO	C	AT-1 BT-O BT-C FST PIT	APPJ Q Q Q 2Y	N/A N/A N/A N/A N/A	STS PE-201 STS GS-201A STS GS-201A STS GS-201A STS GS-202	7
GSHV0017	M-12GS01 (Q)	B-4	2	A	1	GA	SO	C	AT-1 BT-O BT-C FST PIT	APPJ Q Q Q 2Y	N/A N/A N/A N/A N/A	STS PE-197 STS GS-201A STS GS-201A STS GS-201A STS GS-202	7

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
GSHV0018	M-12GS01 (Q)	B-5	2	A	1	GA	SO	C	AT-1 BT-O BT-C FST PIT	APPJ Q Q Q 2Y	N/A N/A N/A N/A N/A	STS PE-197 STS GS-201A STS GS-201A STS GS-201A STS GS-202	7
GSHV0020	M-12GS01 (Q)	F-4	2	A	6	BTF	MO	C	PAS	N/A			
GSHV0021	M-12GS01 (Q)	F-4	2	A	6	BTF	MO	C	PAS	N/A			
GSHV0030	M-12GS01 (Q)	E-3	2	B	1	GA	SO	C	PIT	2Y	N/A	STS GS-202	
GSHV0031	M-12GS01 (Q)	D-4	2	A	1	GA	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-201 STS GS-203A STS GS-203A STS GS-202	7
GSHV0032	M-12GS01 (Q)	D-3	2	A	1	GA	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-201 STS GS-203A STS GS-203A STS GS-202	7

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
GSHV0033	M-12GS01 (Q)	C-4	2	A	1	GA	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-197 STS GS-203A STS GS-203A STS GS-202	7
GSHV0034	M-12GS01 (Q)	C-4	2	A	1	GA	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-197 STS GS-203A STS GS-203A STS GS-202	7
GSHV0035	M-12GS01 (Q)	E-8	2	B	1	GA	SO	C	PIT	2Y	N/A	STS GS-202	
GSHV0036	M-12GS01 (Q)	D-6	2	A	1	GA	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-199 STS GS-203B STS GS-203B STS GS-202	7
GSHV0037	M-12GS01 (Q)	D-7	2	A	1	GA	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-199 STS GS-203B STS GS-203B STS GS-202	7
GSHV0038	M-12GS01 (Q)	C-6	2	A	1	GA	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-156 STS GS-203B STS GS-203B STS GS-202	7



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
GSHV0039	M-12GS01 (Q)	C-6	2	A	1	GA	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-156 STS GS-203B STS GS-203B STS GS-202	7
GSV0001	M-12GS01 (Q)	E-7	2	B	0.375	GA	M	O	PAS	N/A			
GSV0004	M-12GS01 (Q)	B-7	2	B	0.375	GA	M	O	PAS	N/A			
GSV0007	M-12GS01 (Q)	E-3	2	B	0.375	GA	M	O	PAS	N/A			
GSV0010	M-12GS01 (Q)	B-3	2	B	0.375	GA	M	O	PAS	N/A			
GSV0054	M-12GS01 (Q)	B-3	2	N/A	0.75	CK	SA	C	CVT-C CVT-O	Q COND	N/A N/A	STS GS-203A STS MT-078	
GSV0059	M-12GS01 (Q)	B-8	2	N/A	0.75	CK	SA	C	CVT-C CVT-O	Q COND	N/A N/A	STS GS-203B STS MT-078	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
GTHZ0004	M-12GT01 (Q)	D-4	2	A	18	BTF	AO	C	AT-1 BT-C FST PIT	Q Q Q 2Y	N/A N/A N/A N/A	STS PE-015 STS GT-201 STS GT-201 STS GT-201	32
GTHZ0005	M-12GT01 (Q)	A-5	2	A	18	BTF	AO	C	AT-1 BT-C FST PIT	Q Q Q 2Y	N/A N/A N/A N/A	STS PE-015 STS GT-201 STS GT-201 STS GT-201	32
GTHZ0006	M-12GT01 (Q)	C-4	2	A	36	BTF	AO	C	AT-1 BT-C FST PIT	APPJ 1.5Y 1.5Y 2Y	N/A N/A N/A N/A	STS PE-261 STS GP-001 STS GP-001 STS GP-001	
GTHZ0007	M-12GT01 (Q)	C-5	2	A	36	BTF	AO	C	AT-1 BT-C FST PIT	APPJ 1.5Y 1.5Y 2Y	N/A N/A N/A N/A	STS PE-261 STS GP-001 STS GP-001 STS GP-001	
GTHZ0008	M-12GT01 (Q)	C-6	2	A	36	BTF	AO	C	AT-1 BT-C FST PIT	APPJ 1.5Y 1.5Y 2Y	N/A N/A N/A N/A	STS PE-260 STS GP-001 STS GP-001 STS GP-001	
GTHZ0009	M-12GT01 (Q)	C-7	2	A	36	BTF	AO	C	AT-1 BT-C FST PIT	APPJ 1.5Y 1.5Y 2Y	N/A N/A N/A N/A	STS PE-260 STS GP-001 STS GP-001 STS GP-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
GTHZ0011	M-12GT01 (Q)	A-6	2	A	18	BTF	AO	C	AT-1 BT-C FST PIT	Q Q Q 2Y	N/A N/A N/A N/A	STS PE-015 STS GT-201 STS GT-201 STS GT-201	32
GTHZ0012	M-12GT01 (Q)	A-7	2	A	18	BTF	AO	C	AT-1 BT-C FST PIT	Q Q Q 2Y	N/A N/A N/A N/A	STS PE-015 STS GT-201 STS GT-201 STS GT-201	32
HBHV7126	M-12HB01 (Q)	H-7	2	A	0.75	DIA	AO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-144 STS HB-201 STS HB-201 STS HB-201	
HBHV7136	M-12HB01 (Q)	F-3	2	A	3	DIA	AO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-126 STS HB-201 STS HB-201 STS HB-201	
HBHV7150	M-12HB01 (Q)	H-6	2	A	0.75	DIA	AO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-144 STS HB-201 STS HB-201 STS HB-201	
HBHV7176	M-12HB01 (Q)	E-3	2	A	3	DIA	AO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-126 STS HB-201 STS HB-201 STS HB-201	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
HDV0016	M-12HD01 (Q)	B-7	2	A	2	GL	M	LC	AT-1	APPJ	N/A	STS PE-143	
HDV0017	M-12HD01 (Q)	B-7	2	A	2	GL	M	LC	AT-1	APPJ	N/A	STS PE-143	
JEV0001	M-12JE01 (Q)	G-6	3	B	2	GA	M	LC	PAS	N/A			
JEV0002	M-12JE01 (Q)	C-6	3	B	2	GA	M	LC	PAS	N/A			
JEV0007	M-12JE01 (Q)	H-6	3	B	2	GA	M	LC	PAS	N/A			
JEV0008	M-12JE01 (Q)	D-6	3	B	2	GA	M	LC	PAS	N/A			
JEV0011	M-12JE01 (Q)	H-6	3	B	2	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
JEV0012	M-12JE01 (Q)	D-6	3	B	2	GA	M	LO	PAS	N/A			
JEV0015	M-12JE01 (Q)	H-5	3	B	2	GA	M	LO	PAS	N/A			
JEV0016	M-12JE01 (Q)	D-5	3	B	2	GA	M	LO	PAS	N/A			
JEV0033	M-12JE01 (Q)	F-5	3	B	0.75	GA	M	LC	PAS	N/A			
JEV0034	M-12JE01 (Q)	C-5	3	B	0.75	GA	M	LC	PAS	N/A			
JEV0059	M-12JE01 (Q)	H-6	3	B	2	GA	M	LO*	PAS	N/A			
JEV0060	M-12JE01 (Q)	D-6	3	B	2	GA	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
JEV0061	M-12JE01 (Q)	H-5	3	B	2	GA	M	LO	PAS	N/A			
JEV0062	M-12JE01 (Q)	D-5	3	B	2	GA	M	LO	PAS	N/A			
JEV0069	M-12JE01 (Q)	F-4	3	B	2	GA	M	LO	PAS	N/A			
JEV0070	M-12JE01 (Q)	C-4	3	B	2	GA	M	LO	PAS	N/A			
JEV0075	M-12JE01 (Q)	G-6	3	B	2	GA	M	LO	PAS	N/A			
JEV0076	M-12JE01 (Q)	D-6	3	B	2	GA	M	LO	PAS	N/A			
JEV0085	M-12JE01 (Q)	H-5	3	C	2	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS KJ-005A NOTE 38	38

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
JEV0086	M-12JE01 (Q)	D-5	3	C	2	CK	SA	C	CVT-O CVT-C	Q Q	N/A N/A	STS KJ-005B NOTE 38	38
KAFV0029	M-12KA01 (Q)	D-2	2	A	2	GL	AO	O	AT-1 BT-C FST PIT	APPJ CS CS 2Y	N/A N/A N/A N/A	STS PE-130 STS KA-205 STS KA-205 STS KA-205	40
KAV0039	M-12KA02 (Q)	C-6	2	A/C	4	CK	SA	C	AT-1	APPJ	N/A	STS PE-163	
KAV0118	M-12KA02 (Q)	D-6	2	A	4	GL	M	LC	AT-1	APPJ	N/A	STS PE-163	
KAV0204	M-12KA01 (Q)	C-2	2	A	1.5	CK	SA	O	AT-1 CVT-O CVT-C	APPJ COND COND	N/A N/A N/A	STS PE-130 NOTE 41 STS PE-130	40,41,86
KAV0635	M-12KA05 (Q)	G-7	3	B	0.75	GA	M	O	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KAV0637	M-12KA05 (Q)	F-7	3	B	0.75	GA	M	O	PAS	N/A			
KAV0639	M-12KA05 (Q)	D-7	3	B	0.75	GA	M	O	PAS	N/A			
KAV0641	M-12KA05 (Q)	B-7	3	B	0.75	GA	M	O	PAS	N/A			
KAV0648	M-12KA05 (Q)	G-6	3	A/C	0.75	CK	SA	C	AT-3 CVT-O CVT-C	2Y Q Q	N/A N/A N/A	STS KA-010 NOTE 42 STS KA-010	
KAV0649	M-12KA05 (Q)	F-5	3	A/C	0.75	CK	SA	C	AT-3 CVT-O CVT-C	2Y Q Q	N/A N/A N/A	STS KA-010 NOTE 42 STS KA-010	
KAV0650	M-12KA05 (Q)	D-6	3	A/C	0.75	CK	SA	C	AT-3 CVT-O CVT-C	2Y Q Q	N/A N/A N/A	STS KA-010 NOTE 42 STS KA-010	



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KAV0651	M-12KA05 (Q)	B-5	3	A/C	0.75	CK	SA	C	AT-3 CVT-O CVT-C	2Y Q Q	N/A N/A N/A	STS KA-010 NOTE 42 STS KA-010	
KAV0662	M-12KA05 (Q)	G-8	3	B	0.75	GA	M	O	PAS	N/A			
KAV0663	M-12KA05 (Q)	F-7	3	B	0.75	GA	M	O	PAS	N/A			
KAV0664	M-12KA05 (Q)	D-8	3	B	0.75	GA	M	O	PAS	N/A			
KAV0665	M-12KA05 (Q)	B-7	3	B	0.75	GA	M	O	PAS	N/A			
KAV0703	M-12KA05 (Q)	H-7	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KAV0704	M-12KA05 (Q)	F-6	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KAV0705	M-12KA05 (Q)	D-7	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KAV0706	M-12KA05 (Q)	C-6	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KAV0710	M-12KA05 (Q)	H-8	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KAV0711	M-12KA05 (Q)	F-7	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KAV0712	M-12KA05 (Q)	D-8	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KAV0713	M-12KA05 (Q)	B-7	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KAV1364	M-12KA05 (Q)	G-8	3	B	0.75	GL	M	LO	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KAV1365	M-12KA05 (Q)	B-7	3	B	0.75	GL	M	LO	PAS	N/A			
KAV1366	M-12KA05 (Q)	E-7	3	B	0.75	GL	M	LO	PAS	N/A			
KAV1367	M-12KA05 (Q)	C-8	3	B	0.75	GL	M	LO	PAS	N/A			
KBV0001	M-12KB01 (Q)	E-6	2	A	2	GL	M	LC	AT-1	APPJ	N/A	STS PE-198	
KBV0002	M-12KB01 (Q)	E-6	2	A	2	GL	M	LC	AT-1	APPJ	N/A	STS PE-198	
KCHV0253	M-12KC02 (Q)	B-6	2	A	4	GA	MO	C	AT-1 OMN-C BT-E	APPJ JOG RC	N/A N/A N/A	STS PE-167 AP 23D-001 STS VT-001	
KCV0478	M-12KC02 (Q)	B-6	2	A/C	4	CK	SA	C	AT-1	APPJ	N/A	STS PE-167	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KJHV0001	M-12KJ01 (Q)	A-6	3	B	1	GA	NA	C	PAS	N/A			
KJHV0002	M-12KJ03 (Q)	A-6	3	B	1	GA	NA	C	PAS	N/A			
KJHV0101	M-12KJ04 (Q)	A-6	3	B	1	GA	NA	C	PAS	N/A			
KJHV0102	M-12KJ06 (Q)	A-6	3	B	1	GA	NA	C	PAS	N/A			
KJPV0001A	M-12KJ02 (Q)	F-3	3	B	0.375	TWY	SO	C	BT-O	Q	N/A	STS KJ-005A	
KJPV0001B	M-12KJ02 (Q)	F-3	3	B	0.375	TWY	SO	C	BT-O	Q	N/A	STS KJ-005A	
KJPV0008	M-12KJ02 (Q)	F-4	3	B	0.375	TWY	SO	C	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KJPV0101A	M-12KJ05 (Q)	F-3	3	B	0.375	TWY	SO	C	BT-O	Q	N/A	STS KJ-005B	
KJPV0101B	M-12KJ05 (Q)	F-3	3	B	0.375	TWY	SO	C	BT-O	Q	N/A	STS KJ-005B	
KJPV0108	M-12KJ05 (Q)	F-4	3	B	0.375	TWY	SO	C	PAS	N/A			
KJV0711A	M-12KJ02 (Q)	B-2	3	A/C	0.75	CK	SA	C	AT-4 CVT-O CVT-C	2Y Q Q	N/A N/A N/A	STS KJ-002A STS KJ-005A STS KJ-002A	
KJV0711B	M-12KJ05 (Q)	B-2	3	A/C	0.75	CK	SA	C	AT-4 CVT-O CVT-C	2Y Q Q	N/A N/A N/A	STS KJ-002B STS KJ-005B STS KJ-002B	
KJV0712A	M-12KJ02 (Q)	D-5	3	A/C	0.75	CK	SA	C	AT-4 CVT-O CVT-C	2Y Q Q	N/A N/A N/A	STS KJ-002A STS KJ-005A STS KJ-002A	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KJV0712B	M-12KJ05 (Q)	D-5	3	A/C	0.75	CK	SA	C	AT-4 CVT-O CVT-C	2Y Q Q	N/A N/A N/A	STS KJ-002B STS KJ-005B STS KJ-002B	
KJV0716A	M-12KJ02 (Q)	C-2	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KJV0716B	M-12KJ05 (Q)	C-2	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KJV0717A	M-12KJ02 (Q)	C-4	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KJV0717B	M-12KJ05 (Q)	C-4	3	C	0.75x	RV	SA	C	RVT	10Y	N/A	STS MT-070	
KJV0724A	M-12KJ02 (Q)	C-2	3	B	2	PL	M	O	PAS	N/A			
KJV0724B	M-12KJ05 (Q)	C-2	3	B	2	PL	M	O	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KJV0725A	M-12KJ02 (Q)	C-3	3	B	2	PL	M	O	PAS	N/A			
KJV0725B	M-12KJ05 (Q)	C-3	3	B	2	PL	M	O	PAS	N/A			
KJV0726A	M-12KJ02 (Q)	D-2	3	B	2	PL	M	O	PAS	N/A			
KJV0726B	M-12KJ05 (Q)	D-2	3	B	2	PL	M	O	PAS	N/A			
KJV0727A	M-12KJ02 (Q)	D-3	3	B	2	PL	M	O	PAS	N/A			
KJV0727B	M-12KJ05 (Q)	D-3	3	B	2	PL	M	O	PAS	N/A			
KJV0760A	M-12KJ02 (Q)	D-3	3	B	2	PL	M	C	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KJV0760B	M-12KJ05 (Q)	D-3	3	B	2	PL	M	C	PAS	N/A			
KJV0774A	M-12KJ01 (Q)	F-4	3	B	1.5	PL	M	O	PAS	N/A			
KJV0774B	M-12KJ04 (Q)	F-4	3	B	1.5	PL	M	O	PAS	N/A			
KJV0779A	M-12KJ01 (Q)	F-6	3	C	6	CK	SA	C	CVT-O CVT-C	Q RR	N/A N/A	STS KJ-005A STS MT-076	43
KJV0779B	M-12KJ04 (Q)	F-6	3	C	6	CK	SA	C	CVT-O CVT-C	Q RR	N/A N/A	STS KJ-005B STS MT-076	43
KJV0785A	M-12KJ01 (Q)	D-4	3	B	1.5	PL	M	O	PAS	N/A			
KJV0785B	M-12KJ04 (Q)	D-4	3	B	1.5	PL	M	O	PAS	N/A			



**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KJV0794A	M-12KJ01 (Q)	D-7	3	B	0.75	PL	M	O	PAS	N/A			
KJV0794B	M-12KJ04 (Q)	D-7	3	B	0.75	PL	M	O	PAS	N/A			
KJV0795A	M-12KJ01 (Q)	D-7	3	B	0.75	PL	M	O	PAS	N/A			
KJV0795B	M-12KJ04 (Q)	D-7	3	B	0.75	PL	M	O	PAS	N/A			
KJV0808A	M-12KJ03 (Q)	C-5	3	B	3	PL	M	O	PAS	N/A			
KJV0808B	M-12KJ06 (Q)	C-5	3	B	3	PL	M	O	PAS	N/A			
KJV0809A	M-12KJ03 (Q)	C-4	3	B	3	PL	M	O	PAS	N/A			

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KJV0809B	M-12KJ06 (Q)	C-4	3	B	3	PL	M	O	PAS	N/A			
KJV0812A	M-12KJ03 (Q)	E-7	3	B	3/8	PL	M	O	PAS	N/A			
KJV0812B	M-12KJ06 (Q)	E-7	3	B	3/8	PL	M	O	PAS	N/A			
KJV0817A	M-12KJ03 (Q)	C-3	3	B	2	PL	M	O	PAS	N/A			
KJV0817B	M-12KJ06 (Q)	C-3	3	B	2	PL	M	O	PAS	N/A			
KJV0818A	M-12KJ03 (Q)	C-3	3	C	2	CK	SA	O	CVT-O CVT-C	RR Q	N/A N/A	STS MT-076 STS KJ-005A	44
KJV0818B	M-12KJ06 (Q)	C-3	3	C	2	CK	SA	O	CVT-O CVT-C	RR Q	N/A N/A	STS MT-076 STS KJ-005B	44

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
KJV0828A	M-12KJ03(Q)	D-3	3	B	2	PL	M	O	PAS	N/A			
KJV0828B	M-12KJ06(Q)	D-3	3	B	2	PL	M	O	PAS	N/A			
LFFV0095	M-12LF09(Q)	F-2	2	A	6	GA	MO	O	AT-1 OMN-C BT-E	APPJ JOG RC	N/A N/A N/A	STS PE-132 AP 23D-001 STS VT-001	
LFFV0096	M-12LF09(Q)	F-1	2	A	6	GA	AO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-132 STS LF-201B STS LF-201B STS LF-201B	
LFHV0105	M-12LF03(Q)	C-5	3	B	6	GA	MO	O	OMN-C BT-E	JOG RC	N/A N/A	AP 23D-001 STS VT-001	
LFHV0106	M-12LF03(Q)	C-4	3	B	6	GA	MO	O	OMN-C BT-E	JOG RC	N/A N/A	AP 23D-001 STS VT-001	

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
SJHV0005	M-12SJ04 (Q)	F-7	2	A	1	GL	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-193 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0006	M-12SJ04 (Q)	G-6	2	A	1	GL	SO	O	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-193 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0012	M-12SJ01 (Q)	F-7	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-169 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0013	M-12SJ01 (Q)	E-7	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-169 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0018	M-12SJ01 (Q)	F-3	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-195 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0019	M-12SJ01 (Q)	E-3	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-195 STS SJ-201 STS SJ-201 STS SJ-206	23

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
SJHV0127	M-12SJ04 (Q)	F-6	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-193 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0128	M-12SJ04 (Q)	H-6	2	A	1	GL	SO	c	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-164 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0129	M-12SJ04 (Q)	H-5	2	A	1	GL	SO	c	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-164 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0130	M-12SJ04 (Q)	G-5	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-164 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0131	M-12SJ04 (Q)	B-6	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-157 STS SJ-201 STS SJ-201 STS SJ-206	23
SJHV0132	M-12SJ04 (Q)	A-6	2	A	1	GL	SO	C	AT-1 BT-C FST PIT	APPJ Q Q 2Y	N/A N/A N/A N/A	STS PE-157 STS SJ-201 STS SJ-201 STS SJ-206	23

**WOLF CREEK NUCLEAR OPERATING CORPORATION**  
**INSERVICE VALVE TESTING PROGRAM**

VALVE NUMBER	P&ID NUMBER	P&ID COORD	ISI CLASS	ISI CAT	VALVE SIZE	VALVE TYPE	ACT TYPE	NORM POS	TEST RQMT	TEST FREQ	RELIEF REQUEST	TEST PROCEDURE	NOTES
SJV0111	M-12SJ04 (Q)	A-7	2	A/C	1	CK	SA	C	AT-1	APPJ	N/A	STS PE-157	

## NOTES

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1. Sample Disassembly Examination ENV0002/3/4/8/9/10/13/17: For ENV0002/8/13/17, stroke open testing of these valves would require installing temporary piping and flooding the containment recirculation sump with contaminated water. It is not practical to test these valves except during refueling outages. The potential radiation exposure is high and the amount of time necessary to perform this testing would not be allowed by Technical Specifications. Valves ENV0003/4/9/10 are partial flow tested during pump tests. Close testing of these valves is impractical due to system design, which provides no means to perform reverse flow or leak testing. For all four valves, the minimum full flow is 3615 GPM based on one train operational during post-LOCA recirculation with a Sump temperature of 240 F. It is not practical to achieve these flows without spraying down containment with contaminated water. These check valves will be disassembled, inspected, and manually full stroked during each refueling outage in accordance with ASME requirements. A different valve will be disassembled, inspected, and manually full stroked during each refueling. If the full stroke capability of the disassembled valve is in question, the other valves will be disassembled, inspected and manually full stroked during the same outage per ASME requirements. Valves ENV0002/3/8/9 comprise one sample group and valves ENV0004/10/13/17 comprise the other sample group for this system.
2. Test Deferral: Closure of the main steam isolation valves during unit operation could result in reactor trip and safety injection actuation which would introduce a severe transient in the main steam lines which is unacceptable from an operational viewpoint. Testing by isolating each main steam header is also possible but would cause a power reduction which is also unacceptable from an operational viewpoint. These valves will be partially stroked quarterly and full-stroke tested during cold shutdown.
3. BG8497 is normally open to allow flow from the non-safety related high pressure charging pump within the code specified testing period and proper operation is documented by control room logs. Therefore, per ASME requirements, no additional open testing is required.
4. The required ASME Section XI test frequency is every two years. These valves are leak rate tested once per 18 months to satisfy Technical Specification SR 3.4.14.1.
5. Test Deferral: During NORMAL operation, exercising these valves would be impractical. CLOSING these valves during operation would isolate feedwater to the steam generators which could result in a severe transient, possibly causing a unit trip. Valves AEFV0039, AEFV0040, AEFV0041 and AEFV0042 will be partial stroke tested during NORMAL operation while the remaining full stroke testing on all the valves pertaining to this NOTE will be performed during cold shutdown.

## NOTES

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6. Test Deferral: Exercising these valves during normal operation on a quarterly basis would introduce cold auxiliary feedwater into the steam generators and therefore would cause an unnecessary thermal shock and stratification to the feedwater piping. Valve testing will be done during cold shutdown.
7. These are solenoid valves of a hermetically enclosed, seal welded design, with internally mounted reed switches for position indication. Visual verification of valve position is not possible unless the valve is removed from service and disassembled. Valve position will be verified by observation of level or pressure changes in an associated tank or pressure changes in the associated piping.
8. Test Deferral: These valves have an interlock which prevents their opening when reactor coolant system pressure is above 360 psig. Valve testing will be performed during cold shutdown.
9. This valve is passive since it is in series with a NORMALLY CLOSED, Air Operated Valve (BGHV8145) and does not have to change positions to perform a safety-related function (flow through the check valve is blocked). Per the guidance of NUREG 1482 section 4.1 paragraph 1, check valve flow is blocked by any condition precluding flow through the system.
10. Test Deferral: The power-operated relief valves have a history of failures and should not be challenged at full power. If the PORV block valves are closed, there is not enough pressure to open the PORVs. Opening these valves can cause a rapid depressurization transient of the RCS. Valve testing will be performed during cold shutdown.
11. Test Deferral: Failure of these valves in the CLOSED position during NORMAL operation would inhibit flow to the reactor coolant pump thermal barriers. This is not desirable during pump operation. Valve testing will be performed during cold shutdown.
12. Test Deferral: Failure of these valves in the CLOSED position during NORMAL operation would inhibit flow to the reactor coolant pump seals which could damage the reactor coolant pump seals. Valve testing will be performed during cold shutdown.
13. Test Deferral: Stroking these valves during NORMAL operation is impractical. Exercising these valves would allow discharge of uncontrolled radiological releases since the system is vented to containment atmosphere. Also, exercising the "inside" valve at power tends to burp the system, which could possibly unseat the CLOSED valve. This would limit maintenance activity if problems occur with the valves. Furthermore, failure of any one of these valves in the OPEN direction would reduce the system to single-valve-protection between RCS and containment atmosphere. Failure would also put the reactor in a small break LOCA situation. Valve testing



## NOTES

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will be performed during cold shutdown.

14. Test Deferral: Failure of one of these valves in the CLOSED position during normal operation would result in a loss of seal water flow to the reactor coolant pumps and could cause pump seal damage. Valve testing will be performed during cold shutdown.
15. Test Deferral: Failure of one of these valves in the CLOSED position during NORMAL operation would result in loss of pressurizer level control and may cause plant shutdown. Valve testing will be performed during cold shutdown.
16. Condition Monitoring Program: Valves FCV0001;2;24;25 are under the Condition Monitoring Program in group FC-1. Full stroke exercising these valves requires full flow from the Turbine Driven Auxiliary Feedwater pump. Obtaining full flow with this pump during normal operation on a quarterly basis operations would cause thermal shocking and stratification of the steam generator feedwater piping due to the injection of cold water. This is highly undesirable. The valves will be partial stroked quarterly and full stroked once per fuel cycle.  
  
One of these valves is disassembled and inspected each refueling outage. If one of the valves is found in a degraded condition, all valves will be disassembled and inspected.
17. Test Deferral: CLOSURE of one of these valves during NORMAL operation would isolate charging flow to the reactor coolant system which could result in loss of pressurizer level control and cause plant shutdown. Valve testing will be performed during cold shutdown.
18. Test Deferral: The NORMAL charging pumps' suction would be isolated upon closure of one of these valves during normal operation. Alternate suction flow paths (e.g. Aligned with the refueling water storage tank) would cause a sudden increase in reactor coolant system boron inventory, thereby a plant transient. Also, seal water injection to the reactor coolant pumps would be inhibited which could result in damage to the seals. Valve testing will be performed during cold shutdown.
19. Test Deferral: Testing this valve during NORMAL operation would introduce boric acid to the primary side causing unwanted negative reactivity addition. Valve testing will be performed during cold shutdown.
20. Test Deferral: CLOSURE or failure of either EJHV8716A or B would render both trains of the RHR system inoperable and would require plant shutdown. The valves will be full stroke exercised during cold shutdowns.

## NOTES

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21. Test Deferral: Failure of this valve in the CLOSED Position during NORMAL Operation could render both safety injection pumps inoperable by isolating the miniflow recirculation path for both pumps. Valve testing will be performed during cold shutdown.
22. Not used.
23. These are solenoid valves of a hermetically enclosed, seal welded design with internally mounted reed switches for position indication. Visual verification of valve position is not possible unless the valve is removed from service and disassembled. Valve position will be verified by observation of flow.
24. Condition Monitoring Program: Valve ALV0054 is not in a group under the Check Valve Condition Monitoring Program. This valve is exercised open and closed once per fuel cycle.
25. Condition Monitoring Program: Valves ALV0057;62;67;72 are not grouped under the Check Valve Condition Monitoring Program. These valves are exercised open and closed once per fuel cycle.
26. EFV0046 and EFV0076 are normally open to provide cooling to the safety related air compressors and is verified via monitoring of air compressor temperature alarms within the code specified testing period. Proper operation is documented by control room logs. Therefore, per ASME requirements, no additional open testing is required.
27. Test Deferral: EJHV8804A and B have control interlocks with BNHV8813 which is required per technical specifications to remain OPEN during power operations. CLOSING this valve would render both ECCS trains inoperable and would require initiation of shutdown. These valves will be exercised during cold shutdowns.
28. Test Deferral: These valves have their power removed during NORMAL operation so that the ECCS flowpath can be maintained operable per technical specifications. Valve testing will be performed during cold shutdown.
29. Test Deferral: These valves are locked open with power removed during NORMAL operation with RCS Pressure above 1000 PSIG as required by technical specifications. Valve Testing will be performed during cold shutdown.
30. Test Deferral: Failure of this valve in the CLOSED position during NORMAL operation could inhibit a portion of the emergency core cooling system. CLOSING EMHV8835 would render both safety injection trains inoperable. This valve is required to remain OPEN, with power removed from the operator, per plant Technical Specifications SR 3.5.2.1. Exercising the valve would violate Technical Specifications SR 3.5.2.1. Valve testing will be performed during cold shutdown.

## NOTES

(Continued)

31. Test Deferral: Exercising of these valves during NORMAL operation would result in interruption of component cooling water flow to the reactor coolant pump's thermal barrier cooling coil. Valve testing will be performed during cold shutdown.
32. The required ASME test frequency is every 2 years. Valves GTHZ0004/05/11/12 are leak tested quarterly to satisfy Technical Specification SR 3.6.3. Note, even though the frequency associated with SR 3.6.3.7 is given as, "184 days AND within 92 days after opening", as a result of quarterly stroke time and fail safe testing, this valve is opened quarterly, requiring SR 3.6.3.7 to be performed quarterly.
33. Test Deferral: A full stroke exercise of these valves during normal operations is not possible since these valves cannot open against RCS pressure. The flowpath back to the RWST would require opening BN8717. Opening this valve and throttling a RHR pump discharge valve would make both trains of the RHR system inoperable since the RHR system could not provide adequate emergency core cooling flow upon initiation of a safety injection signal. Valves will be partial stroked quarterly and full stroke exercised during cold shutdowns.
34. Test Deferral: Testing of these valves during normal operation is impractical. Opening the valves during normal operation would drain the RHR suction header into the containment sump rendering the associated RHR Train inoperable. Failure of either EJHV8811A or B in the open position would violate Technical Specifications which would require initiation of plant shutdown. Furthermore, access to these valves is limited due to the valves being located inside an encapsulation tank. Maintenance on these valves would require the plant go to cold shutdown. The additional risks encountered to perform testing do not justify the small amount of added assurance gained by the testing. Valve testing will be performed during cold shutdown.
35. Test Deferral: Valves will be open tested during cold shutdowns. OPENING valve during operation would run the risk of draining the containment spray pumps suction headers into the containment sump which could cause severe damage to the pumps and render them inoperable. The RWST must be isolated to prevent flooding containment should the single check valve not hold when these valves are stroked open. The additional risks encountered to perform testing do not justify the small amount of added assurance gained by the testing.

## NOTES

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36. EGV0036 and EGV0061 must close to prevent flow diversion during normal operation and pump testing. Failure to close would result in CCW surge tank level alarms and would be documented in control room logs. Therefore, per ASME requirements, no additional testing is required.
37. EMV0006 and EPV0046 are exercised open during refueling outages to refill accumulator tanks. Normal operation is documented in control room logs. Therefore, per ASME requirements, no additional testing is required.
38. JEV0085 and JEV0086 perform a close function to prevent the associated fuel oil day tank from draining. This function is performed and monitored continuously. Normal operation is documented in control room logs. Therefore, per ASME requirements, no additional close testing is required.
39. Test Deferral: Valve testing during NORMAL operation is impractical. Failure of these valves in the OPEN position would represent a major loss of safety equipment which would force the plant into shutdown. There is no MANUAL back-up valve for these valves and if the valve failed OPEN it would render the associated accumulator inoperable which would put the plant into a one hour action statement. The Technical Specification may not allow adequate time to test and restore an accumulator Testing will be performed during cold shutdown.
40. Test Deferral: KAV0204/KAFV0029. Failure of either valve in the CLOSED position or exercising either valve, during NORMAL plant operation, would interrupt the supply of instrument air to valves and equipment necessary for system control and operation. Interruption of air supply would cause loss of NORMAL letdown capability, loss of pressurizer pressure and level control, loss of spray control capability and NORMAL charging capability, which could result in reactor trip, safety injection initiation, over-pressurization of the RCS, thermal shock of RCS piping, plant transients and consequently plant shutdown. Testing will be performed during cold shutdown.
41. KAV0204 is normally open to supply air to loads in containment. Normal operation is documented in control room logs. Therefore, per ASME requirements, no additional open verification is required.
42. KAV0648, KAV0649, KAV0650 and KAV0651 are normally open to maintain air pressure in the associated accumulator air tanks. Normal operation is documented in control room logs. Therefore, per ASME requirements, no additional open verification is required.

## NOTES

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43. Sample Disassembly Examination KJV0779A/KJV0779B: It is not practical to verify the close function of these valves by any means except disassembly and inspection. One valve will be disassembled and full stroked each outage as allowed by ASME sample plan requirements. If the full stroke capability of one valve is in question, the other valve will be disassembled and inspected during the same refueling outage.
  44. Sample Disassembly Examination KJV0818A/KJV0818B: It is not practical to verify the open function of these valves by any means except disassembly and inspection. One valve will be disassembled and full stroked each outage as allowed by ASME sample plan requirements. If the full stroke capability of one valve is in question, the other valve will be disassembled and inspected during the same refueling outage.
  45. Condition Monitoring Program: Valve EGV0124 is under the Check Valve Condition Monitoring Program. This valve is not in a group. Procedure STS PE-176 performs close verification utilizing the Appendix J Option B perscribed test frequency. Normal operation is credited for demonstrating open capabilities (see Note 80).
  46. These valves are included in the WCGS IST Program as a response to NRC Violation 8827-04.
  47. Condition Monitoring Program: Valve EGV0129 is under the Check Valve Condition Monitoring Program. This valve is not in a group. Procedure STS PE-175 performs close verification utilizing the Appendix J Option B perscribed test frequency. Normal operation is credited for demonstrating open capabilities (see Note 80).
  48. Test Deferral: Valves EGV0130 and EGV0131 will be close tested during refueling outages. As described in note 80, flow exists through these valves at all times during normal operation. Plant configuration does not allow close verification of these valves except during shutdowns for refueling outages.
  49. Not Used.
  50. Test Deferral: Exercising these valves during power operation cannot be done due to thermal transients induced on the auxiliary charging nozzle and on the auxiliary charging piping during switchover from NORMAL to alternate charging. Valve testing will be performed during cold shutdown.

Nonintrusive sampling plan: All four valves were tested using non-intrusive acoustic and magnetic test equipment during Refueling Outage 11. One valve is nonintrusively tested on a rotating basis in a sampling plan and all valves are exercised with flow as described by NUREG 1482 section 4.1.2.

## NOTES

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51. Not used.
52. Not used.
53. Not used.
54. Test Deferral: BG8481A/B. These valves will be partial stroke exercised quarterly and full stroke exercised during refueling outages. Full stroke exercising during normal operation would require injecting borated water into the RCS which could cause a power transient. Furthermore, full flow exercising of these valves cannot be performed during power operations or cold shutdown due to the existence of insufficient volume expansion to accommodate the flow required for testing. Full stroke exercising during cold shutdown could cause cold over-pressurization of the RCS. Full flow testing of these valves requires reactor head removal.
55. Test Deferral: BG-8481A/B. These valves will be close tested during refueling outages. Testing of these valves requires cross tying both trains of charging. This is not allowed in modes 1, 2, or 3 per Technical Specification 3.5.2. A credible test cannot be performed at cold shutdown due to back flow through the charging pump (HPSI) and the inability to isolate the pump due to suction line overpressurization concerns. The test will be performed when full safety injection flow conditions can be obtained with one charging pump running during refueling outages.
56. Test deferral: BBV0118, BBV0120, BBV0121, BBV0148, BBV0150, BBV0151, BBV0178, BBV0180, BBV0181, BBV0208, BBV0210 and BBV0211. These valves will be close tested during cold shutdowns. Testing these valves quarterly would be burdensome since this would require securing RCP seal water flow which could damage pump seals and increase the probability of a LOCA.

Nonintrusive sampling plan: All eight valves were tested using non-intrusive acoustic and magnetic test equipment during Refueling Outage 11. One pair of valves is nonintrusively tested on a rotating basis in a sampling plan and all valves are exercised with flow as described by NUREG 1482 section 4.1.2.

57. Not used.
58. Condition Monitoring Program: Valve BG8381 is under the Check Valve Condition Monitoring Program in group BG-2. Valve BG8381 is normally open to provide flow to the Regenerative Heat Exchanger for RCS filtration. Failure to perform this function would be documented in control room logs. STS PE-180 is the procedure that implements the Check Valve Condition Monitoring activities.

## NOTES

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59. Condition Monitoring Program: Valve EGV0204 is under the Check Valve Condition Monitoring Program in group EG-1. STS PE-017 is the procedure that implements the Check Valve Condition Monitoring activities.
60. Test Deferral: BBV0001/22/40/59, EM8815, EMV0240/241, BG8546A/B. These valves will be full stroke open tested during refueling outages. Full stroke exercising during normal operation would require injecting borated water into the RCS which could cause a power decrease. Furthermore, partial or full flow exercising of these valves cannot be performed during power operations or cold shutdown due to the existence of insufficient volume expansion to accommodate the flow required for testing. Full stroke exercising during cold shutdown could also cause cold over-pressurization of the RCS. Full flow testing of these valves requires reactor head removal.
61. Test Deferral: BBV0001/22/40/59, EM8815, BG8546A/B. These valves have will be close tested during cold shutdowns. It is not practical to exercise these valves from the open to the closed position due to the reasons stated in note 60. Assurance of valve closure is provided by monitoring of RCS leakage in accordance with Technical Specification 3.4.14. Additionally, these valves are close tested in accordance with the guidelines of Technical Specification SR 3.4.14.1.
62. Test Deferral: EP8818A/B/C/D, EJ8841A/B, BB8949B/C. These valves will be full stroke open tested during cold shutdowns. These valves cannot be exercised open during power operation due to system pressure not being able to overcome RCS pressure.
63. Test Deferral: EP8818A/B/C/D, EJ8841A/B, BB8949B/C. These valves will be close tested during cold shutdowns. It is not practical to exercise these valves from the open to the closed position due to the reasons stated in note 62. Assurance of valve closure is provided by monitoring of RCS leakage in accordance with Technical Specification 3.4.14. Additionally, these valves are close tested in accordance with the guidelines of Technical Specification SR 3.4.14.1.
64. Test Deferral: BB8948A/B/C/D, EMV0001/2/3/4, BB8949A/D, EPV0010/20/30/40. These valves will be full stroke open tested during refueling outages. These valves cannot be exercised open during power operation due to system pressure not being able to overcome RCS pressure. In cold shutdown, Technical Specification 3.4.12 requires both safety injection pumps to isolated from the RCS, therefore there is no practical method for testing these valves during cold shutdowns.

## NOTES

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65. Test Deferral: BB8948A/B/C/D, EMV0001/2/3/4, BB8949A/D, EPV0010/20/30/40. These valves have will be close tested during refueling outages. It is not practical to exercise these valves from the open to the closed position due to the reasons stated in note 64. Assurance of valve closure is provided by monitoring of RCS leakage in accordance with Technical Specification 3.4.14. Additionally, these valves are closed tested in accordance with the guidelines of Technical Specificaiton SR 3.4.14.1.
66. Test Deferral: EP8956A/B/C/D. These valves will be full stroke open tested during refueling outages. These valves cannot be open exercised open during power operation due to system pressure not being able to overcome RCS pressure. These valves cannot be partial or full stroke open exercised during cold shutdown due to cold over- pressurization concerns.
67. Test Deferral: EP8956A/B/C/D. These valves have will be close tested during refueling outages. It is not practical to exercise these valves from the open to the closed position due to the reasons stated in note 66. Assurance of valve closure is provided by monitoring of RCS leakage in accordance with Technical Specification 3.4.14. Additionally, these valves are close tested in accordance with the guidelines of Technical Specification SR 3.4.14.1.
68. Test Deferral: EM8922A/B, EM8926A/B. These valves are partial stroke open exercised quarterly. These valves cannot be full stroke exercised open during power operation due to system pressure not being able to overcome RCS pressure. In cold shutdown, Technical Specification 3.4.12 requires both safety injection pumps to be isolated from the RCS, therefore there is no practical method for testing these valves during cold shutdowns.
69. Not used.
70. Not Used
71. Test Deferral: EJ8969A/B. These valves will be full stroke open tested during refueling outages. Full or partial stroke opening of these valves during normal operations would require stroking of EJHV8804A/B. Valves EJHV8804A/B have a control interlock with BNHV8813 which is required per technical specifications to remain open during power operations. Closing BNHV8813 would require voluntarily entering Technical Specification 3.0.3. Full or partial stroke testing these valves during cold shutdowns is impractical because it requires reactor head removal.
72. Test Deferral: EJ8958A/B. These valves will be partial stroke exercised quarterly and be full stroke exercised during refueling outages. These valves cannot be full flow exercised open during power operation due to system pressure not being able to overcome RCS pressure. Furthermore, full flow exercising of these valves cannot be performed during cold shutdown due to the existence of insufficient volume expansion to accommodate the flow required for testing.



**NOTES**  
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73. Test Deferral: EJ8958A and EJ8958B. These valves will be closed tested during cold shutdowns. Testing these valves closed during power requires isolating the RWST which would require voluntarily entering Technical Specification 3.0.3.
74. Condition Monitoring Program: Valve BGV0135 is under the Check Valve Condition Monitoring Program in group BG-1. STS PE-017 is the procedure that implements the Check Valve Condition Monitoring activities.
75. Not Used.
76. Condition Monitoring Program: Valve BGV0591 is under the Check Valve Condition Monitoring Program (procedure AI 29B-002). STS BG-210 is the procedure that implements the Check Valve Condition Monitoring activities.
77. Test Deferral: EM8922A/B. These valves will be closed tested during refueling outages. Reference PIR 93-1237, it is not practical to close test these valves at power. Check valve testing during cold shutdown could result in low temperature over-pressurization of the reactor coolant system.
78. Not used.
79. Condition Monitoring Program: This valve is not in a group under the Check Valve Condition Monitoring Program. This valve is exercised open and closed quarterly using an external handle. Partial exercising occurs quarterly as well during pump testing. Full stroke exercising with flow is also performed once each fuel cycle.
80. EGV0036/061/124/129/130/131/204 AND BBV0443/444/445/446/447/448/449/450. These valves achieve accident condition flow during normal plant operation within the code specified testing period and proper operation is documented by normal control room logs. Therefore, per ASME requirements, no additional testing is required. Refer to PIR 95-1080 for more information.
81. Test Deferral: BGLCV0459/460. These valves will be tested during cold shutdowns. These valves isolate letdown flow through the regenerative heat exchanger. Closing these valves at power results in a significant thermal cycling of the normal charging line. Isolation of charging flow before testing would stop cooling of letdown flow and cause a steam environment resulting in water hammer. These valves are located behind the bioshield wall. Failure of either of these valves closed at power would result in plant shutdown to allow access for repairs. The degradation in plant equipment caused by testing and risks associated with valve failure at power do not justify the small amount of added assurance gained by the testing.

## NOTES

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82. The feedwater flow at power is greater than that required in an accident scenario. Actual feedwater flow is documented in real time by computer point records.

83. Condition Monitoring Program: Valves EP8818A, EP8818B, EP8818C and EP8818D are under the Check Valve Condition Monitoring Program in group EP-1. STS CV-100 is the procedure that implements the Check Valve Condition Monitoring activities.

See notes 62 and 63 for open and closed test limitations

84. Condition Monitoring Program: Valves EJ8730A&B are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group EJ-1 with no other valves. STS CV-101 is the procedure that implements the Check Valve Condition Monitoring activities.

85. Condition Monitoring Program: Valves BBV0118, BBV0148, BBV0178, and BBV0208 are under the Check Valve Condition Monitoring Program in group BB-1. These valves are normally open to provide RCP seal injection and failure to perform this function would be documented in control room logs. STS PE-122, STS PE-139, STS PE-140 and STS PE-141 are the procedures that implement the Check Valve Condition Monitoring activities.

86. Condition Monitoring Program: Valve KAV0204 is under the Check Valve Condition Monitoring Program in group KA-1. STS PE-017 is the procedure that implements the Check Valve Condition Monitoring activities.

87. Condition Monitoring Program: Valves EJ8841A&B are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group EJ-2 with no other valves. STS CV-102 is the procedure that implements the Check Valve Condition Monitoring activities.

88. Condition Monitoring Program: Valves BB8949A/B/C/D are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group BB-2 with no other valves. STS CV-103 is the procedure that implements the Check Valve Condition Monitoring activities.

89. Condition Monitoring Program: Valves EMV0001/2/3/4 are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group EM-1 with no other valves. STS CV-104 is the procedure that implements the Check Valve Condition Monitoring activities.

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90. Condition Monitoring Program: Valves EM8926A&B are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group EM-2 with no other valves. STS EM-100A&B with STS BN-206 are the procedures that implement the Check Valve Condition Monitoring activities. Procedure STS BN-206 test performance frequency may be extended according to the following table:

Test Number	Refueling outage
1	Refuel 11
2	Refuel 13
3	Refuel 16
4	Refuel 20
5	Refuel 25
6	Refuel 31
7 and above	Limited to every 6 Refuel Outages

91. Condition Monitoring Program: Valves EPV0010/20/30/40 are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group EP-2 with no other valves. STS CV-105 is the procedure that implements the Check Valve Condition Monitoring activities.
92. Condition Monitoring Program: Valves EJ8958A&B are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group EJ-3 with no other valves. STS CV-105 is the procedure that implements the Check Valve Condition Monitoring activities.
93. Condition Monitoring Program: Valves EJ8969A&B are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group EJ-4 with no other valves. STS CV-210B and STS EJ-210 are the procedures that implement the Check Valve Condition Monitoring activities.
94. Condition Monitoring Program: Valves EP8956A/B/C/D are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group EP-2 with no other valves. STS EP-210 and STS PE-19E are the procedures that implement the Check Valve Condition Monitoring activities.
95. Condition Monitoring Program: Valves BB8948A/B/C/D are under the Check Valve Condition Monitoring Program (procedure AI 29B-002) in group BB-3 with no other valves. STS EP-210 and STS PE-19E are the procedures that implement the Check Valve Condition Monitoring activities.