



10 CFR 50.55a

LG-20-010

January 8, 2020

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-001

Limerick Generating Station, Units 1 and 2
Renewed Facility Operating License Nos. NPF-39 and NPF-85
NRC Docket Nos. 50-352 and 50-353

Subject: Submittal of the Program for the Fourth Ten-Year Interval for the Limerick
Inservice Testing Program

In accordance with the ASME Code (ISTA-3200(a)), attached for your information is a copy of the Fourth Ten-Year Interval Inservice Testing (IST) Program for Limerick Generating Station (LGS), Units 1 and 2. The fourth interval of the LGS, Units 1 and 2, IST program complies with the ASME OM Code, 2012 Edition.

There are no regulatory commitments contained in this letter.

If you have any questions or require additional information, please contact Ted Ryan at 610-718-3530.

Respectfully,

A handwritten signature in black ink, appearing to read "F. Sturniolo", written over a light blue horizontal line.

Frank Sturniolo
Site Vice President – Limerick Generating Station
Exelon Generation Co., LLC

cc: USNRC Region I, Regional Administrator
S. Rutenkroger, USNRC Senior Resident Inspector, LGS
USNRC Project Manager, LGS
R. R. Janati, Bureau of Radiation Protection



Exelon Nuclear Generation, LLC
200 Exelon Way
Kennett Square, PA 19348

Limerick Generating Station
Units 1 & 2
Docket Numbers 50-352 and 50-353
3146 Sanatoga Road
Pottstown, PA 19464

Commercial Service Dates:
Unit 1 – February 1, 1986
Unit 2 – January 8, 1990

Inservice Testing (IST) Program Program Plan

Fourth Ten-Year Interval
January 8, 2020 – January 7, 2030

**ER-LG-321-1002
Revision 23
January 8, 2020**

REVISION RECORD

Effective Date	Revision Description	Sign & Date		
		Prepared: Site IST Engineer	Reviewed: Corporate IST Engineer	Approved; Engr. Programs Manager
01/08/2020	Revision 23. Document revised in its entirety for the Fourth Inservice Testing Interval using the template provided in ER-AA-321-1002, Rev. 8.	<i>Brian Day</i> 12/16/2019	<i>[Signature]</i> 12/18/2019	<i>[Signature]</i> 12/18/19

TABLE OF CONTENTS

SECTION

1.0 INTRODUCTION

- 1.1 Purpose
- 1.2 Scope
- 1.3 Discussion
- 1.4 References

2.0 INSERVICE TESTING PLAN FOR PUMPS

- 2.1 Pump Inservice Testing Plan
- 2.2 IST Plan Pump Table Description

3.0 INSERVICE TESTING PLAN FOR VALVES

- 3.1 Valve Inservice Testing Plan
- 3.2 IST Plan Valve Table Description

4.0 ATTACHMENTS

- 1. System and P&ID Listing
- 2. Pump Relief Request Index
- 3. Pump Relief Requests
- 4. Valve Relief Request Index
- 5. Valve Relief Requests
- 6. Relief Request RAIs and SER
- 7. Code Case Index
- 8. Cold Shutdown Justification Index
- 9. Cold Shutdown Justifications
- 10. Refueling Outage Justification Index
- 11. Refueling Outage Justifications
- 12. Technical Position Index
- 13. Technical Positions
- 14. Inservice Testing Pump Table
- 15. Inservice Testing Valve Table
- 16. Check Valve Condition Monitoring Plan Index

1.0 INTRODUCTION

1.1 Purpose

The purpose of this Inservice Testing (IST) Program Plan is to provide a summary description of the Limerick Generating Station (LGS) Units 1 and 2 IST Program in order to document its compliance with the requirements of 10 CFR 50.55a(f) for the 4th 10-year IST interval.

1.2 Scope

This Inservice Testing Program Plan identifies all of the testing performed on the components included in the LGS Inservice Testing (IST) Program for the 4th ten-year IST interval, which began on January 8, 2020 and is scheduled to end on January 7, 2030.

The Code of Federal Regulations, 10 CFR 50.55a(f)(4), requires that throughout the service life of a boiling or pressurized water-cooled nuclear power facility, pumps and valves that are within the scope of the ASME OM Code must meet the inservice test requirements set forth in the ASME OM Code and addenda that are incorporated by reference in paragraph 10 CFR 50.55a(a)(1)(iv) for the initial and each subsequent 120-month interval.

Based on the start date identified above, the IST Program for the 4th ten-year interval is required by 10 CFR 50.55a(f)(4)(ii) to comply with the requirements of the ASME OM Code-2012, Operation and Maintenance of Nuclear Power Plants, with no addenda, except where relief from such requirements has been granted in writing by the NRC.

The scope of the OM Code is defined in paragraph ISTA-1100 as applying to:

- (a) pumps and valves that are required to perform a specific function in shutting down a reactor to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident;
- (b) pressure relief devices that protect systems or portions of systems that perform on or more of the functions listed in (a), above; and
- (c) dynamic restraints (snubbers) used in systems that perform one or more of the functions listed in (a), or that ensure the integrity of the reactor coolant pressure boundary.

NOTE: This IST Program Plan addresses only those components included in (a) and (b) above. Dynamic restraints (snubbers) are addressed in a separate test program.

In order to determine the scope of the IST Program at LGS, an extensive scope evaluation was performed. This scope evaluation determined all of the functions required to be performed by all ASME Class 1, 2 and 3 systems in shutting down the reactor to the safe shutdown condition, in maintaining the safe shutdown condition or in mitigating the consequences of an accident. The determination of those functions was accomplished by a thorough review of licensing bases documents such as the UFSAR/FSAR, Plant Technical Specifications and Technical Specification Bases documents, etc. Next, a component-by-component review was performed to

determine what function each pump and valve in the system was required to perform in order to support the safety function(s) of the system or subsystem. The results of these efforts are documented in the Station's IST Bases Document. In addition to a description of each component's safety function(s), the Bases Document identifies the tests and examinations that are performed on each component to provide assurance that they will be operationally ready to perform those safety function(s). The Bases Document identifies those ASME Class 1, 2, and 3 pumps and valves that are in the scope of the IST Program, including those that do and those that do not have required testing. It also identifies those ASME Class 1, 2 and 3 pumps and valves that are outside the scope of the IST Program on the basis that they are not required to perform any specific safety function.

As stated at the beginning of this Section, the scope of this IST Program Plan is to identify all of the testing performed on those components within the scope of the IST Program. This is accomplished primarily by means of the IST Pump and IST Valve Tables contained in Attachments 14 and 15. The remaining Sections and Attachments of this document provide support information to that contained in the Tables. Components that do not require testing are not included in the IST Program Plan document.

In addition to those components that are required to perform specific safety function(s), the scope evaluation often determines that there are other components that are not required to perform a licensing-based safety function but which, nonetheless, may be relied upon to operate to perform a function with some significance to safety.

The inservice test requirements for pumps and valves that are within the scope of the ASME OM Code but are not classified as ASME Boiler Pressure Vessel Code Class 1, Class 2, or Class 3 may be satisfied as an augmented IST program. This use of an augmented IST program may be acceptable provided the basis for deviations from the ASME OM Code demonstrates an acceptable level of quality and safety, or that implementing the Code provisions would result in hardship or unusual difficulty without a compensating increase in the level of quality and safety. This information must be clearly documented in applicable Program Plan and Basis documents.

Components that may be relied upon to operate to perform a function with some significance to safety but are not required to perform a licensing-based safety function, are not required by 10 CFR 50.55a to be included in the IST Program. However, such components may require testing in a manner which demonstrates their ability to perform their functions commensurate with their importance to safety per the applicable portions of 10 CFR 50, Appendix A or B. One option is to include pumps or valves that fit these conditions in the IST Program as augmented components.

Limerick Generating Station is licensed with Cold Shutdown as the safe shutdown condition. Therefore, the scope of the IST Program must include, as a minimum, all of those ASME Class 1, 2, and 3 pumps and valves which are required to shut down

the Reactor to the Cold Shutdown condition, maintain the Cold Shutdown condition, or mitigate the consequences of an accident.

1.3 Discussion

A summary listing of all the pumps and valves that are tested in accordance with the IST Program is provided in the IST Pump and IST Valve Tables contained in Attachments 14 and 15. The Pump and Valve Tables also identify each test that is performed on each component, the frequency at which the test is performed, and any Relief Request or Technical Position applicable to the test. For valves, the Valve Table also identifies any Cold Shutdown Justification or Refueling Outage Justification that is applicable to the required exercise tests. Additional information is provided for both pumps and valves. All of the data fields included in the IST Pump and Valve Tables are listed and described in Sections 2 and 3 of this document.

Following Sections 2 and 3 are several Attachments which provide information referenced in the Pump and Valve Tables.

Attachment 1 includes a listing of Piping & Instrumentation Diagrams (P&IDs) on which a depiction of the pump or valve may be located.

Attachment 2 provides an index of the Pump Relief Requests that apply to any of the pumps in the IST Program for this ten-year interval. Attachment 3 includes a copy of each of those Relief Requests.

Attachment 4 provides an index of the Valve Relief Requests that apply to any of the valves in the IST Program for this ten-year interval. Attachment 5 includes a copy of each of those Relief Requests.

Attachment 6 contains the Safety Evaluation Report(s) (SER) that document approval of the Relief Requests contained in Attachments 3 and 5. It also includes Requests for Additional Information (RAIs), if any, received from the NRC regarding the Relief Requests and the responses provided by Exelon.

Attachment 7 includes a list of the ASME OM Code Cases that are being invoked for this ten-year interval.

Attachment 8 provides an index of Cold Shutdown Justifications that apply to the exercise testing of any valves in the IST Program for this ten-year interval. Attachment 9 includes a copy of each of those Cold Shutdown Justifications.

Attachment 10 provides an index of Refueling Outage Justifications that apply to the exercise testing of any valves in the IST Program for this ten-year interval. Attachment 11 includes a copy of each of those Refueling Outage Justifications.

Attachment 12 provides an index of Technical Positions that apply to the IST Program for this ten-year interval. Technical Positions provide detailed information regarding how Exelon satisfies certain ASME OM Code requirements, particularly when the Code requirement may be ambiguous or when multiple options for implementation may be available. Technical Positions do not take exception to or

provide alternatives to Code requirements. Attachment 13 includes a copy of each Technical Position listed in Attachment 12.

As described previously, Attachments 14 and 15 include the IST Pump and Valve Tables.

Attachment 16 provides a listing of Check Valve Condition Monitoring (CVCM) Program Plans. The CVCM Plans are maintained by the LGS IST Engineer in accordance with the requirements of ER-AA-321-1005 and Mandatory Appendix II of the ASME OM Code.

This IST Program Plan is a quality-related document and is controlled and maintained in accordance with approved Exelon Corporate Engineering and Records Management procedures.

1.4 References

- 1.4.1 Title 10, Code of Federal Regulations, Part 50, Section 55a (10 CFR 50.55a)
- 1.4.2 ASME OM Code-2012, Operation and Maintenance of Nuclear Power Plant Components (with no Addenda).
- 1.4.3 LGS Units 1 & 2 Technical Specification 4.0.5
- 1.4.4 Exelon Corporation Administrative Procedure ER-AA-321, Administrative Requirements for Inservice Testing

2.0 INSERVICE TESTING PLAN FOR PUMPS

2.1 Pump Inservice Testing Plan

The Limerick Generating Station Inservice Testing Program for Pumps meets the requirements of Subsections ISTA and ISTB of the ASME OM Code-2012 with no addenda, with the exception of those specific applications identified in the Relief Requests contained in Attachment 3.

2.2 IST Plan Pump Table Description

The pumps included in the Limerick Generating Station Inservice Testing Program are listed in Attachment 14. The information contained in that table identifies those pumps required to be tested to the requirements of the ASME OM Code, the parameters measured, associated Relief Requests and comments, and other applicable information. The column headings for the Pump Table are listed below with an explanation of the content of each column.

<u>Pump Name/ Description</u>	The descriptive name for the pump.
<u>Pump ID#</u>	The unique identification number for the pump, as designated on the System P&ID
<u>Code Class</u>	The ASME Safety Class (i.e., 1, 2 or 3) of the pump. Non-ASME Safety Class pumps are designated "NC". Non-Safety-Related pumps are designated "NS".
<u>Grp</u>	A, B, or N/A (skid mounted) as defined in Reference 1.4.2.
<u>P&ID</u>	The Piping and Instrumentation Diagram, including the sheet number, on which the pump is shown
<u>Coord.</u>	The coordinates of the pump location on the P&ID.
<u>Pump Type</u>	An abbreviation used to designate the type of pump: C Centrifugal PDN Positive Displacement - Non-Reciprocating PDR Positive Displacement - Reciprocating VLS Vertical Line Shaft
<u>Driver</u>	The type of driver with which the pump is equipped. A Air-motor D Diesel M Motor (electric) T Turbine (steam)

ENG Combustion Engine (diesel)

<u>Test Parameters</u>	<p>Lists each of the test parameters which are required to be measured for the specific pump. These include:</p> <ul style="list-style-type: none">N Speed (for variable speed pumps, only)dP Differential PressureDIS-P Discharge Pressure (positive displacement pumps)Q Flow RateV_d Vibration (displacement)V_v Vibration (velocity)SKID Skid mounted
<u>Relief Request</u>	Identifies the number of the Relief Request applicable to the specified test.
<u>Remarks</u>	Any appropriate reference or explanatory information (e.g., technical positions, etc.)

Test frequencies are not listed in Attachment 14 since:

- All pumps are tested Quarterly and
- Comprehensive and Periodic Pump Verification Tests are performed Biennially.

3.0 INSERVICE TESTING PLAN FOR VALVES

3.1 Valve Inservice Testing Plan

The Limerick Generating Station Inservice Testing Program for Valves meets the requirements of Subsections ISTA and ISTC of the ASME OM Code-2012 with no addenda, with the exception of those specific applications identified in the Relief Requests contained in Attachment 5.

3.2 IST Plan Valve Table Description

The valves included in the Limerick Generating Station Inservice Testing Program are listed in Attachment 15. The information contained in that table identifies those valves required to be tested to the requirements of the ASME OM Code, the testing methods and frequency of testing, associated Relief Requests, comments, and other applicable information. The column headings for the Valve Table are delineated below with an explanation of the content of each column.

<u>Valve Number</u>	The unique identification number for the valve, as designated on the System P&ID.
<u>Class</u>	The ASME Safety Class (i.e., 1, 2 or 3) of the valve. Non-ASME Safety Class valves are designated "NC". Non- Safety-Related valves are designated "NS". Augmented valves are designated as "0".
<u>P&ID</u>	The Piping and Instrumentation Diagram, including the sheet number, on which the valve is shown.
<u>Coord</u>	The coordinates on the P&ID where the valve is shown.
<u>Valve Cat</u>	The ASME Code category or categories of the valve as defined in Reference 1.4.2.
<u>Actv/Pas</u>	"A" or "P", used to designate whether the valve is active or passive in fulfillment of its safety function. The terms "active valves" and "passive valves" are defined in Reference 1.4.2.
<u>Size</u>	The nominal size of the valve in inches.

<u>Valve Type</u>	An abbreviation used to designate the body style of the valve:
3W	3-Way
4W	4-Way
ANG	Angle
BAL	Ball
BTF	Butterfly
CK	Check
DAM	Damper
DIA	Diaphragm
GA	Gate
GL	Globe
NDL	Needle
PLT	Pilot
PLG	Plug
PPT	Poppet Valve
PCV	Pressure Control Valve
RV	Relief
RPD	Rupture Disk
SV	Safety
SCK	Stop-Check
SHR	Shear (SQUIB)
TC	Testable Check
VB	Vacuum Breaker
XFC	Excess Flow Check

<u>Act Type</u>	An abbreviation which designates the type of actuator on the valve. Abbreviations used are:
AO	Air Operator
DF	Dual Function (Self and Power)
EXP	Explosive
HO	Hydraulic Operator
M	Manual
MO	Motor Operator
SA	Self-Actuating
SAP	Self-Actuating Pilot
SO	Solenoid Operator

Positions
Nrm/Saf/ Fal

Abbreviations used to identify the normal, safety-related, and fail positions for the valve. Abbreviations used are:

AI	As Is
C	Closed
CKL	Closed/Actuator Key Locked
D	De-energized
D/E	De-energized or Energized
E	Energized
LC	Locked Closed
LO	Locked Open
LT	Locked Throttled
N/A	No Safety Related Position
O	Open
O/C	Open or Closed
OKL	Open/Actuator Key Locked
SYS	System Condition Dependent
T	Throttled

Test Type-Frequency

• Type

A listing of abbreviations used to designate the types of testing which are required to be performed on the valve based on its category and functional requirements. Abbreviations used are:

BDC	Bidirectional Check Valve test (non-safety related closure test)
BDO	Bidirectional Check Valve test (non-safety related open test)
CC ²	Check Valve Exercise Test - Closed
CO ²	Check Valve Exercise Test - Open
CP ²	Check Valve Partial Exercise Test
DIAG	Diagnostic Test
DT	Category D Test
D&I	Disassembly and Inspection
EC	Exercise Test – Closed (manual valve)
EO	Exercise Test – Open (manual valve)
FC	Fail-Safe Exercise Test - Closed
FO	Fail-Safe Exercise Test - Open
LT ¹	Leak Rate Test
OMN-C	OMN-1 Criteria Closed Test
OMN-O	OMN-1 Criteria Open Test
PI	Position Indication Verification Test
TRV	Replace Thermal Relief Valves
RT	Relief Valve Test

SC	Exercise Closed (without stroke-timing)
SD	Solenoid De-energize
SE	Solenoid Energize
SKID	Skid-Mounted
SO	Exercise Open (without stroke-timing)
SPO	Partial Exercise Open (Cat. A or B)
SPC	Partial Exercise Close (Cat. A or B)
STC	Exercise/Stroke-Time Closed
STO	Exercise/Stroke-Time Open

¹ A third letter, following the “LT” designation for leakage rate test, may be used to differentiate between the tests. For example, Appendix J leak tests will be designated as “LTJ”, low pressure (non-Appendix J) leak tests as “LTL”, high pressure leak tests as “LTH”, and leak test other than containment isolation valves and high or low (i.e. ISTC 3630) “LTP”.

² Three letter designations should be used for check valve tests to differentiate between the various methods of exercising check valves. The letter following “CC”, “CO” or “CP” should be “A” for acoustics, “D” for disassembly and inspection, “F” for flow indication, “M” for magnetics, “R” for radiography, “U” for ultrasonics, “T” for temperature, or “X” for manual exercise.

- Frequency An abbreviation which designates the frequency at which the associated test is performed. Abbreviations used are:

AJ	Per Appendix J
CM	Per Check Valve Condition Monitoring Program
CS	Cold Shutdown
M[n]	Once Every <i>n</i> Months
MOV	Per MOV Program
OP	Normal Operation
Q	Quarterly
RC	At least once per fuel cycle, not to exceed 24months
RR	Refuel Outage
R[n]	Once Every <i>n</i> Refuel Outages
SA	Sample Disassemble & Inspect
S2	1 Squibb 24 months / 100% in 120 months

TS	Per Technical Specification Requirements
TS1	50% each Refueling Outage per TS
Y[n]	Once Every <i>n</i> Years

VRR/VCS/ROJ

A relief request number is listed when the NRC has approved a request to deviate from a specific code requirement. Attachment 4 contains an index of all valve relief requests included in Attachment 5.

A Cold Shutdown Justification number is listed when the testing frequency coincides with Cold Shutdowns instead of being performed quarterly. Cold Shutdown Justification numbers for valves are prefixed with "VCS". Attachment 8 contains an index of all the Cold Shutdown Justifications included in Attachment 9.

A Refuel Outage Justification number is listed when the testing frequency coincides with Refuel Outages instead of being performed quarterly or during Cold Shutdowns. Refuel Outage Justification numbers for valves are prefixed with "ROJ". Attachment 10 contains an index of all the Refueling Justifications included in Attachment 11.

Remarks

Provides additional information for the associated valve. A technical position number is listed when the requirements of the Code are not easily interpreted and clarifying information is needed. A technical position is used to document how Code requirements are being implemented at the station. Technical Positions are prefixed with "TP". Attachment 12 contains an index of all the Station Technical Positions included in Attachment 13. The Remarks column may also be used to identify other pertinent information such as HSSC/LSSC classifications for MOVs, Containment penetration numbers for CIVs, applicable Technical Specifications, etc.

SECTION 4.0
ATTACHMENTS

ATTACHMENT 1
SYSTEM AND P&ID LISTING

<u>SYS NO.</u>	<u>SYSTEM NAME</u>	<u>P&ID NO</u>
01	Main Steam	8031-M-01
11	Emergency Service Water	8031-M-11
12	Residual Heat Removal Service Water	8031-M-12
13	Reactor Enclosure Cooling Water	8031-M-13
15	Compressed Air	8031-M-15
20	Fuel & Diesel Oil Storage & Transfer & Starting Air	8031-M-20
26	Plant Process Radiation Monitoring	8031-M-26
41	Nuclear Boiler	8031-M-41
42	Nuclear Boiler Vessel Instrumentation	8031-M-42
43	Reactor Recirculation Pump	8031-M-43
44	Reactor Water Clean-up	8031-M-44
46	Control Rod Drive Hydraulic - Part A	8031-M-46
47	Control Rod Drive Hydraulic - Part B	8031-M-47
48	Standby Liquid Control	8031-M-48
49	Reactor Core Isolation Cooling	8031-M-49
50	Reactor Core Isolation Cooling Pump/Turbine	8031-M-50
51	Residual Heat Removal	8031-M-51
52	Core Spray	8031-M-52
53	Fuel Pool Cooling and Cleanup	8031-M-53
55	High Pressure Coolant Injection	8031-M-55
56	High Pressure Coolant Injection Pump/Turbine	8031-M-56
57	Containment Atmosphere Control	8031-M-57
58	Hydrogen Recombiners	8031-M-58
59	Primary Containment Instrument Gas	8031-M-59
60	Primary Containment Leak Testing	8031-M-60
61	Liquid Radwaste Collection	8031-M-61
87	Drywell Chilled Water	8031-M-87
90	Control Structure Chilled Water	8031-M-90

ATTACHMENT 2
PUMP RELIEF REQUEST INDEX

<u>RELIEF REQUEST NUMBER</u>	<u>RELIEF REQUEST TITLE</u>	<u>APPROVAL DATE</u>
11-PRR-1 Rev.2	Use of Code Case OMN-16, ESW Pump Test Using Pump Curves	[Add When Approved]
90-PRR-1 Rev.2	Installed Pump Flow Instrumentation Accuracy Greater than 2%	[Add When Approved]

ATTACHMENT 3
PUMP RELIEF REQUESTS

[Insert copies of approved Pump Relief Requests in place of this page]

ATTACHMENT 4
VALVE RELIEF REQUEST INDEX

<u>RELIEF REQUEST NUMBER</u>	<u>RELIEF REQUEST TITLE</u>	<u>APPROVAL DATE</u>
GVRR-8, Rev. 1	Pressure Isolation Valve Leakage Test Frequency	[Add When Approved]
47-VRR-2, Rev.1	Control Rod Drive Scram Valves	[Add When Approved]

ATTACHMENT 5
VALVE RELIEF REQUESTS

[Insert copies of approved Valve Relief Requests in place of this page]

ATTACHMENT 6
RELIEF REQUEST RAIs AND SERs

[Insert copies of Relief Request RAls (as applicable) and SERs in place of this page]

ATTACHMENT 7
CODE CASE INDEX

<u>CODE CASE NUMBER</u>	<u>TITLE</u>
OMN-16 ¹	Use of a Pump Curve for Testing
OMN-20 ²	Inservice Test Frequency

¹ Refer to Pump Relief Request 11-PRR-1

² OMN-20 relief request was processed as a multisite request – PROPOSED ALTERNATIVE TO USE ASME OM CODE CASE OMN-20 (CAC NOS. MF8226-MF8237). NRC relief to utilize Code Case OMN-20 was requested in conjunction with request to adopt Technical Specification Task Force (TSTF) Traveler TSTF-545 (CAC NOS. MF8193 and MF8194)

ATTACHMENT 8
COLD SHUTDOWN JUSTIFICATION INDEX

<u>CSJ NUMBER</u>	<u>REV #</u>	<u>TITLE</u>
41-VCS-1	2	Feedwater System outside primary containment isolation valves
41-VCS-2	5	Main steam line inside/outside primary containment isolation valves
41-VCS-4	2	Safeguard Piping Fill System seal water injection to feedwater primary containment isolation valves
41-VCS-5	2	Outboard MSIV accumulator inlet check valves
44-VCS-1	3	Reactor Water Cleanup System primary containment isolation valves
44-VCS-2	1	Reactor Water Cleanup System primary containment isolation testable check valves
46-VCS-1	4	Containment isolation of CRD cooling, charging, drive and exhaust water supply headers
47-VCS-1	3	Scram accumulator charging water line check valves
49-VCS-1	3	RCIC steam supply; inboard primary containment isolation valve
49-VCS-3	2	RCIC Turbine Vacuum Pump discharge to the Suppression Pool and containment isolation check valves
49-VCS-4	2	Condensate transfer to RCIC Pump discharge stay - fill check valves
51-VCS-1	4	Low Pressure Coolant Injection and Shutdown Cooling return containment isolation valves and Reactor Coolant Pressure Boundary (RCPB) isolation valves
52-VCS-1	3	Primary containment isolation, Reactor Coolant Pressure Boundary isolation
55-VCS-1	4	HPCI steam supply; inboard primary containment isolation valve
55-VCS-3	1	HPCI Turbine Exhaust Line Stop/Check Valve
59-VCS-1	2	PCIG Compressor suction outside containment isolation valves

ATTACHMENT 9

COLD SHUTDOWN JUSTIFICATIONS

COLD SHUTDOWN TEST JUSTIFICATION 41-VCS-1, REVISION 2

System: Nuclear Boiler

Valve(s): HV-41-1F074A, B HV-41-2F074A, B

Category: A/C

Function: Feedwater System outside primary containment isolation valves.

Deferred Testing: ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position.

Cold Shutdown

Test Justification: Valves HV-41-1(2)F074A,B function as check valves in fulfillment of their safety function (i.e., containment isolation). In order to test these valves during power operation, the feedwater loop in which they are located would need to be isolated. Because both feedwater loops are required for full power operation, isolation of one loop for testing would require a significant reduction in power and could result in a reactor scram due to low feedwater flow. NUREG 1482, Section 2.4.5 recognizes these conditions as proper justification for testing deferral. Furthermore, the elevated temperature and pressure of the feedwater in this part of the system pose significant personnel safety concerns. Finally, isolation of the loop and subsequent restarting could result in thermal shock and crud burst situations.

Cold

Shutdown Testing: Exercise to the closed position in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown except as specified in ISTC-3522(e).

COLD SHUTDOWN TEST JUSTIFICATION 41-VCS-2, REVISION 5

System: Nuclear Boiler

Valve(s): HV-41-1F022A, B, C, D HV-41-2F022A, B, C, D
HV-41-1F028A, B, C, D HV-41-2F028A, B, C, D

Category: A

Type: Air Operated

Function: The Main Steam Isolation Valves (MSIVs) are normally open, air-operated valves which are in the Main Steam lines and perform active safety functions in the closed position. These valves are identified in UFSAR Table 6.2.17 as containment isolation valves for Penetrations X-7A,B,C & D. As such, the valves must be capable of automatic closure upon receipt of Group IA containment isolation signals.

Closure of the MSIVs is required to accomplish the following safety related functions:

- 1) prevent damage to the fuel barrier by limiting the loss of Reactor cooling water in case of a major leak from the steam piping outside the primary containment,
- 2) limit release of radioactive materials by closing the nuclear system process barrier in case of gross release of radioactive materials from the Reactor fuel to the Reactor cooling water and steam, and
- 3) limit the release of radioactive materials by closing the primary containment barrier in case of a major leak from the Nuclear Steam System inside the primary containment.

Deferred Testing: ISTC-3510, 3560 & 5131: Quarterly exercise, stroke time, and fail-safe test to the closed position.

Cold Shutdown

Test Justification: Full stroke exercising of these valves during normal operation requires isolating one of the four main steam lines. Isolation of these lines results in reactor power fluctuations, primary system pressure spikes, and increased flow in the non-isolated steam lines. This unstable operating condition could lead to reactor scram or increase the chances of main steam relief valve actuation as discussed in NUREG- 0626. Industry experience also indicates that closing the MSIVs under high steam flow conditions may be a contributing factor in observed seat degradation. Seat degradation occurring during valve exercising could result in a loss of primary containment integrity. Therefore, it is impractical to full-stroke exercise these valves to the closed position on a quarterly frequency during plant operation.

Quarterly Partial

Stroke Testing: The MSIVs have the capability of being partial stroked. Partial stroke testing will not be performed quarterly in accordance with ISTC-3521(b). Partial stroke exercise testing

increases the risk of a valve closure when the unit is generating power. This concern was realized on LGS Unit-1 on 5/21/96 when performing a partial closure test of the 'B' inboard MSIV (HV-041-1F022B) in accordance with ST-2-041-619-1 resulted in a full closure of the MSIV and a reactor trip on high pressure.

NUREG-1482 "Guidelines for Inservice Testing at Nuclear Power Plants", Section 2.4.5, "Deferring Valve Testing to Cold Shutdown or Refueling Outages" identifies "impractical conditions justifying test deferrals" as those conditions that could result in an unnecessary plant shutdown, causes unnecessary challenges to safety systems, place undue stress on components, cause unnecessary cycling of equipment, or unnecessarily reduce the life expectancy of the plant systems and components. As such, it is impractical to partially exercise MSIVs on a quarterly frequency during plant operation.

Cold

Shutdown Testing: Exercise, stroke time, and fail-safe test to the closed position in accordance with ISTC-3521(c), (f) & ISTC-5131 during cold shutdowns.

Fleet Additional Information

On November 1, 2017, Exelon Generation Company, LLC (Exelon) submitted a relief request associated with the Inservice Testing (IST) programs for Clinton Power Station, Unit 1; Dresden Power Station, Units 2 and 3; James A. FitzPatrick Nuclear Power Plant; LaSalle County Station, Units 1 and 2; Nine Mile Point Nuclear Station, Units 1 and 2; Oyster Creek Nuclear Generating Station; and Quad Cities Nuclear Power Station, Units 1 and 2.

Although LGS was not a part of the formal RR and subsequent RR withdrawal, LGS is within the Exelon BWR fleet. Therefore, the following information will be included in this cold shutdown justification for informational fleet purposes only.

The relief request submitted on November 1, 2017 proposed an authorization to continue to partial stroke exercise MSIVs on a limited basis with a Cold Shutdown Justification currently in place for MSIVs. Exelon proposed that the partial stroke exercise of MSIVs would be performed in accordance with the Surveillance Frequency Control Program (SFCP) and would partially stroke exercise MSIVs at variant test intervals until the final refueling outage testing interval was achieved. Exelon's relief request was submitted due to the belief that ISTC-3521(b) and ISTC-3521(c) prohibited any type of exercising of MSIVs with a cold shutdown in place.

On February 26, 2018, the NRC held a public meeting to discuss the relief request. The NRC staff stated that the alternative is not needed, since the ASME OM Code does not prevent the continued exercising of MSIVs at power if a CSJ documented in the IST Program Plan document for each site demonstrates that exercising at power is not practicable. In particular, the NRC staff noted that paragraph ISTC-3521 (c) of the ASME OM Code states that exercising "may" be limited to full-stroke exercising during cold shutdown. Thus, paragraph ISTC-3521 (c) does not prevent the partial-stroke testing of the MSIVs at power. Exelon will utilize paragraph ISTC-3521 (c) for full stroke exercising of the MSIVs during cold shutdown under the IST program while continuing to partially stroke exercise the MSIVs during power operation under the SFCP at various intervals commensurate with the SFCP frequencies.

The following documents can be referenced in support of the above information:

- NRC Summary of 022618 mtg ML18058A523
- 2018_0327 Fleet IST RR for MSIV Stroke Frequency Withdrawal letter
- NRC withdrawal documentation ML 18100A015

COLD SHUTDOWN TEST JUSTIFICATION 41-VCS-4, REVISION 2

System:	Nuclear Boiler		
Valve(s):	41-1036A, B	41-2036A, B	
Category:	A/C		
Function:	Safeguard Piping Fill System (SPFS) seal water injection to feedwater primary containment isolation valves.		
Deferred Testing:	ISTC-3510 & 5221(a)(1): Quarterly exercise to the open and closed positions		
Cold Shutdown Test Justification:	<p>Forward flow operability is verified by injecting water from the Safeguard Piping Fill System into the Feedwater System. During power operation, the SPFS pumps are incapable of overcoming the pressure in the Feedwater System. Exercising in the forward direction can only be performed when Feedwater System pressure is low enough to allow injection from the Safeguard Piping Fill System.</p> <p>Exercising in the reverse direction is accomplished by venting off the upstream side of the valve with pressure applied to the downstream side. At power, the downstream side of the check valve is exposed to high energy and radioactive feedwater. Venting the upstream side with a subsequent failure of the check valve to close would pose a safety hazard to personnel and a possible release of radioactivity. In addition, entry into the steam tunnel would be required for venting the upstream side. During normal operation the steam tunnel is a high temperature/high radiation area, limiting access to emergencies only. Therefore, exercising in the reverse direction will be performed when conditions are less hostile.</p>		
Cold Shutdown Testing:	Exercise to the open and closed positions in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown except as specified in ISTC-3522(e).		

COLD SHUTDOWN TEST JUSTIFICATION 41-VCS-5, REVISION 2

System: Nuclear Boiler

Valve(s): 41-2F029A, B, C, D

Category: C

Function: Outboard MSIV accumulator inlet check valves.

Deferred Testing: ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position and bidirectional test open

Cold Shutdown

Test Justification: Reverse exercising of these valves would require isolating and venting the associated compressed air supply header and observing the accumulator pressure. Since pressure indication is not provided for the accumulators, a temporary pressure gauge must be installed on a test connection which is located inside the steam tunnel. The steam tunnel is a high temperature and high radiation area during power operation, limiting access to emergencies only.

Cold

Shutdown Testing: Exercise to the closed position and bidirectional test open in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown except as specified in ISTC-3522(e)..

COLD SHUTDOWN TEST JUSTIFICATION 44-VCS-1, REVISION 3

System: Reactor Water Cleanup (RWCU)

Valve(s): HV-44-1F001 HV-44-2F001
HV-44-1F004 HV-44-2F004

Category: A

Type: Motor Operated

Function: Reactor Water Cleanup System primary containment isolation valves.

Deferred Testing: III-3600, MOV Exercising Requirements
III-3721, HSSC MOVs

Cold Shutdown

Test Justification: The RWCU system is required during all normal operating modes in order to maintain water chemistry within the limits specified in Technical Specification 3.4.4.

The RWCU pumps are interlocked to trip upon the closure of either F001 or F004. A pump trip causes a loss in cooling water to the mechanical seal resulting in a high seal temperature and possible failure. A seal failure would delay RWCU system start-up and would limit the ability of the system to maintain plant chemistry within the required limits.

HV-44-1(2)F001 are located inside the primary containment and are inaccessible during power operation due to high radiation levels and the inerted atmosphere. Failure in the closed position would result in a complete loss of the RWCU system. Interruption in the operation of the RWCU system has been known to result in resin breakdown and intrusion into the Reactor Vessel at other BWR facilities.

Cold Shutdown

Testing: Full stroke exercise test in accordance with III-3600 and verification of technical specification stroke time requirements to the closed position in accordance with 10 CFR 50.55a(b)(3)(ii)(D), MOV stroke time.

COLD SHUTDOWN JUSTIFICATION NO. 44-VCS-2, REVISION 1

System:	Reactor Water Cleanup (RWCU)
Valves:	HV-44-1F039 HV-44-2F039
Category:	A/C
Function:	Reactor Water Cleanup System primary containment isolation testable check valves.
Deferred Testing:	ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position.
Cold Shutdown Justification:	<p>Reactor coolant water chemistry control is provided in part by the RWCU system and is required during all normal operating modes. Failure to maintain water chemistry would violate Technical Specification 3.4.4 resulting in a forced shutdown of the reactor.</p> <p>Reverse exercising of HV-44-1(2)F039 during normal operation would require closing of F001 or F004 since the assisting air operator is not designed for valve closure against normal RWCU Pump discharge pressure. Closing either F001 or F004 would result in an RWCU Pump trip which would cause a loss of cooling water to the mechanical seal which in turn could result in high seal temperature and possible failure. A seal failure would delay RWCU system start-up and would significantly reduce the ability to maintain plant chemistry within the required Technical Specification limits. In addition, HV-44-1(2)F001 are located inside the primary containment which is inaccessible during power operation due to high radiation levels and the inerted atmosphere. Failure in the closed position would result in a complete loss of the RWCU system. Primary containment must be de-inerted in order to perform the lineup for performance of the full-closure test.</p>
Cold Shutdown Testing:	Exercise to the closed position in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown when primary containment is de-inerted except as specified in ISTC-3522(e).

COLD SHUTDOWN TEST JUSTIFICATION 46-VCS-1, REVISION 4

System: Control Rod Drive Hydraulic - Part A

Valve(s):	46-1101	46-1115	46-2101	46-2115
	46-1102	46-1116	46-2102	46-2116
	46-1108	46-1122	46-2108	46-2122
	46-1109	46-1123	46-2109	46-2123

Category: A/C

Function: Containment isolation of CRD cooling, charging, drive and exhaust water supply headers.

Deferred Testing: ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position(all valves) and bidirectional test open(except 46-*115 & 46-*116).

Cold Shutdown

Test Justification: Verification of reverse flow closure requires securing the CRD system Drive Water pumps which would result in an interruption in flow to CRD system loads. These include cooling water to the CRD's, drive water to the CRD's, charging water to the CRD accumulators, purge and sealing water to the Reactor Recirc pumps, and backfill to the Reactor Vessel level instrumentation reference leg. Testing of these valves at power involves several risks including plant trips, ECCS/ESF system initiation, and component damage.

Cold

Shutdown Testing: Exercise to the closed position and bidirectional test open in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown when securing the CRD pumps except as specified in ISTC-3522(e).

COLD SHUTDOWN TEST JUSTIFICATION 47-VCS-1, REVISION 3

System:	Control Rod Drive Hydraulic - Part B
Valve(s):	47-1-15 (all 185 HCUs) 47-2-15 (all 185 HCUs)
Category:	A/C
Function:	Scram accumulator charging water line check valves.
Deferred Testing:	ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position and bidirectional test open.
Cold Shutdown Test Justification:	Verification of reverse flow closure requires securing the CRD system Drive Water pumps and monitoring each individual accumulator pressure and alarm to verify that the valves have closed on reverse flow. Stopping the pumps during operation would result in an interruption of flow to CRD system loads, including cooling water to the CRD's, drive water to the CRD's, charging water to the CRD accumulators, purge and sealing water to the Reactor Recirc pumps, and backfill to the Reactor Vessel level instrumentation reference leg. Testing of these valves at power involves several risks including plant trips, ECCS/ESF system initiation, and component damage.
Cold Shutdown Testing:	Exercise to the closed position and bidirectional test open in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown when securing the CRD pumps except as specified in ISTC-3522(e).

COLD SHUTDOWN TEST JUSTIFICATION 49-VCS-1, REVISION 3

System: Reactor Core Isolation Cooling

Valve(s): HV-49-1F007, HV-49-2F007

Category: A

Type: Motor Operated

Function: RCIC steam supply; inboard primary containment isolation valve.

Deferred Testing: III-3600, MOV Exercising Requirements
III-3721, HSSC MOVs

Cold Shutdown

Test Justification: These valves are normally open during power operation to provide a flow path for supply steam to the RCIC Pump turbine. They are located inside primary containment and are therefore not accessible during operation, since it is inerted with nitrogen and is a high radiation area. If the valve failed in the closed position during exercise testing, a complete loss of system function would result. Plant shutdown, to restore the valve to an operable status per T.S. 3.7.3a would be required.

Cold

Shutdown Testing: Full stroke exercise test in accordance with III-3600 and verification of technical specification stroke time requirements to the closed position in accordance with 10 CFR 50.55a(b)(3)(ii)(D), MOV stroke time.

COLD SHUTDOWN TEST JUSTIFICATION 49-VCS-3, REVISION 2

System: Reactor Core Isolation Cooling (RCIC)

Valve(s): 49-1F028 49-2F028

Category: A/C

Function: RCIC Turbine Vacuum Pump discharge to the Suppression Pool and containment isolation check valves.

Deferred Testing: ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position.

**Cold Shutdown
Test Justification:** Testing of these valves requires closing downstream containment isolation valves HV-49-1(2)F002 and applying pressure between HV-49-1(2)F002 and the check valves via a test connection. Opening of the test connection establishes a bypass flowpath, thus negating the containment isolation function of valves 49-1(2)F028. This alignment would be equivalent to operating with an inoperable containment isolation valve, which is recognized in NUREG-1482, Section 3.1.1, as adequate justification for deferral of testing.

**Cold
Shutdown Testing:** Exercise to the closed position in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown except as specified in ISTC-3522(e).

COLD SHUTDOWN TEST JUSTIFICATION 49-VCS-4, REVISION 2

System:	Reactor Core Isolation Cooling (RCIC)	
Valve(s):	49-1F064 49-1F065	49-2F064 49-2F065
Category:	C	
Function:	Condensate transfer to RCIC Pump discharge stay - fill check valves.	
Deferred Testing:	ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position and bidirectional test open.	
Cold Shutdown Test Justification:	The above stay-fill check valves are tested in series by applying pressure downstream and observing an upstream drain connection for leakage. The upstream drain connections utilized during testing are located inside the steam tunnel. During normal operation the steam tunnel is a high temperature/high radiation area, with access limited to emergencies only. Therefore, exercising in the reverse direction will be performed at cold shutdown when access to the steam tunnel is permitted.	
Cold Shutdown Testing:	Exercise to the closed position and bidirectional test open in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown except as specified in ISTC-3522(e).	

COLD SHUTDOWN TEST JUSTIFICATION 51-VCS-1, REVISION 4

System:	Residual Heat Removal (RHR)
Valve(s):	HV-51-1F017A,B,C,D HV-51-2F017A,B,C,D HV-51-1F041A,B,C,D HV-51-2F041A,B,C,D
Category:	A [HV-51-1(2)F017A,B,C,D]
Type:	Motor Operated
Category:	A/C [HV-51-1(2)F041A,B,C,D]
Function:	Low Pressure Coolant Injection and Shutdown Cooling return containment isolation valves and Reactor Coolant Pressure Boundary (RCPB) isolation valves.
Deferred Testing:	III-3600, III-3720: Full stroke exercise testing of HV-51-1(2)F017A,B,C,D. ISTC-3510 & 5221(a)(1): Exercise Category A/C valves to the open and closed positions.
Cold Shutdown Test Justification:	<p>The above valves provide the only isolation between Reactor Vessel pressure and the lower pressure RHR system piping. In each case two valves are provided, a downstream testable check valve located inside the primary containment and a motor operated valve located outside the containment. System configuration does not provide a method to ensure the downstream check valve is fully closed, therefore opening of the MOV could result in an over pressurization of the low pressure RHR piping.</p> <p>The testable check valve has been provided with an equalization valve to allow testing during power using the air operator. Since the check valve is located inside the primary containment, it is inaccessible for maintenance in the event the valve fails to reclose during testing. Because Technical Specification 3.4.3.2, requires all RCPB valves be within their individual leakage limits during power operation, failure of the check valve to close would require the plant to be shutdown.</p>
Cold Shutdown Testing:	<p>Full stroke exercise test in accordance with III-3600 and verification of technical specification stroke time requirements to the closed position in accordance with 10 CFR 50.55a(b)(3)(ii)(D), MOV stroke time.</p> <p>Exercise the Category A/C valves to the open and closed positions in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown except as specified in ISTC-3522(e).</p>

COLD SHUTDOWN TEST JUSTIFICATION 52-VCS-1, REVISION 3

System: Core Spray

Valve(s): HV-52-1F006A,B HV-52-2F006A,B

Category: A/C

Function: Primary containment isolation, Reactor Coolant Pressure Boundary isolation.

Deferred Testing: ISTC-3510 & 5221(a)(1): Quarterly exercise Category A/C valves to the open and closed positions.

Cold Shutdown

Test Justification: These valves function as both primary containment isolation valves and as Reactor Coolant Pressure Boundary isolation valves. During power operation these valves protect the Core Spray System from being over pressurized by the Reactor Coolant System. Exercising these valves to the open position, with simultaneous failure of the other valve to perform its pressure isolation function, could cause the Core Spray System to be over pressurized resulting in a possible loss of the Core Spray System function.

Cold

Shutdown Testing: Exercise the Category A/C valves to the open and closed positions in accordance with ISTC-3522(b) & ISTC-5221 during each cold shutdown except as specified in ISTC-3522(e).

COLD SHUTDOWN TEST JUSTIFICATION 55-VCS-1, REVISION 4

System: High Pressure Coolant Injection

Valve(s): HV-55-1F002
HV-55-2F002

Category: A

Type: Motor Operated

Function: HPCI steam supply; inboard primary containment isolation valve.

Deferred Testing: III-3600, MOV Exercising Requirements
III-3721, HSSC MOVs

Cold Shutdown

Test Justification: These valves are normally open during power operation to provide a flow path for supply steam to the HPCI Pump turbine. They are located inside primary containment and are therefore not accessible during operation, since it is inerted with nitrogen and is a high radiation area. If the valve failed in the closed position during exercise testing, a complete loss of system function would result. Plant shutdown, to restore the valve to an operable status would be required.

Cold

Shutdown Testing: Full stroke exercise test in accordance with III-3600 and verification of technical specification stroke time requirements to the closed position in accordance with 10 CFR 50.55a(b)(3)(ii)(D), MOV stroke time.

COLD SHUTDOWN JUSTIFICATION NO. 55-VCS-3, REVISION 1

System: High Pressure Coolant Injection (HPCI)

Valves: 55-1F021, 55-2F021

Category: C

Function: The HPCI Turbine Exhaust Line Stop/Check Valve performs an active safety function in the open position to allow sufficient flow to pass to the Suppression Pool when the HPCI pump is operating at rated flow.

Deferred Testing: ISTC-3510 & 5221(a)(2): Quarterly bidirectional test closed.

Justification: Because of the system configuration, these valves cannot be verified closed using visual verification or system parameters. The Stop Check manual operation as described in NUREG 1482 Rev 2 Section 4.1.5.4 will be required to verify the closed position. Closure of these valves with steam available to the turbine would pose a safety hazard to personnel and a possible release of radioactivity. The valves are located on a platform high in the HPCI room. Steam admission to the turbine with the valve closed would burst rupture discs in the exhaust line, filling the area/room with steam. Closure of these valves is limited to Cold Shutdown outages.

Test Frequency: Bidirectional test closed in accordance with ISTC-3522(b) & ISTC-5221(a)(2) during each cold shutdown except as specified in ISTC-3522(e).

COLD SHUTDOWN TEST JUSTIFICATION 59-VCS-1, REVISION 2

System:	Primary Containment Instrument Gas (PCIG)	
Valve(s):	HV-59-102	HV-59-202
Category:	A	
Type:	Air Operated	
Function:	PCIG Compressor suction outside containment isolation valves.	
Deferred Testing:	ISTC-3510, 3560 & 5131: Quarterly exercise, fail-safe test and stroke time to the closed position.	
Cold Shutdown Test Justification:	<p>The PCIG system is supplied by compressors which take suction directly from the drywell atmosphere. This prevents a potential buildup of pressure in the primary containment due to pneumatic operator leakage, and helps to maintain oxygen concentration in the inerted containment within Technical Specification limits.</p> <p>There is only one PCIG suction line installed on each Unit. Therefore, testing these valves during operation would require shutting down the associated compressors. Failure in the closed position during testing would result in a loss of PCIG system supply to various safety-related loads, including the MSIV's. A prolonged lack of supply pressure could result in the MSIV's starting to drift shut which in turn would cause a plant trip.</p>	
Quarterly Partial Stroke Testing:	Valve actuator design does not include provisions for partial stroke testing. Partial stroke testing will not be performed.	
Cold Shutdown Testing:	Exercise, fail-safe test and stroke time to the closed position in accordance with ISTC-3521(c) & ISTC-5131 during each cold shutdown except as specified in ISTC-3521(g).	

ATTACHMENT 10
REFUELING OUTAGE JUSTIFICATION INDEX

<u>ROJ NUMBER</u>	<u>REV #</u>	<u>TITLE</u>
15-ROJ-1	1	Check valves for compressed air supply to secondary containment inflatable seals nos. 1, 2, 7 and 10
41-ROJ-1	1	Feedwater inboard and outboard primary containment isolation check valves
41-ROJ-2	1	ADS Valve accumulator inlet check valves
41-ROJ-3	1	Inboard MSIV accumulator check valves
41-ROJ-4	1	Unit 1 Outboard MSIV accumulator check valves
41-ROJ-6	1	Main Steam Line C Inboard sample valves
42-ROJ-1	1	Reactor level instrumentation reference leg backfill system check valves
43-ROJ-1	2	Reactor Recirculation Pump seals purge supply primary containment isolation check valves
43-ROJ-2	0	Recirc Loop Sample PCIV (Inboard)
48-ROJ-1	2	SLC injection inboard and outboard primary containment isolation check valves
51-ROJ-1	1	Shutdown Cooling return containment isolation valves
51-ROJ-3	1	RHR Shutdown Cooling Injection Header Testable Check Valves
52-ROJ-1	2	Core spray injection check valves; containment isolation and RCS pressure boundary isolation valves
59-ROJ-1	1	ADS Accumulator Nitrogen Supply check valves

ATTACHMENT 11
REFUELING OUTAGE JUSTIFICATIONS

REFUELING OUTAGE JUSTIFICATION NO. 15-ROJ-1, REVISION 1

System:	Compressed Air		
Valves:	15-1412 A, B, G, K	15-2412 A, B, G, K	
	15-1886 A, B, G, K	15-2886 A, B, G, K	
Category:	A/C		
Function:	Check valves for compressed air supply to secondary containment inflatable seals nos. 1, 2, 7 and 10.		
Deferred Testing:	ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position.		
Justification:	Exercise testing of these valves during plant operation or cold shutdown would require closing normal and backup air supply valves which would render the secondary containment inflatable seals nos. 1, 2, 7 and 10 inoperable. Refuel floor inflatable seals nos. 1, 2, 7 and 10 are required during normal plant operation and cold shutdown as a secondary containment boundary. Loss of secondary containment would require a plant shutdown. During refueling outages, the seals are disabled and the secondary containment zones are tied together, therefore, this pneumatic system is not required. Testing will be done after refueling outages prior to requiring the pneumatic system for secondary containment.		
Test Frequency:	Exercise to the closed position in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages, after re-establishing the seals and pneumatic system and prior to requiring seals 1, 2, 7, and 10 for secondary containment. If seals are not required for secondary containment during a cycle, the check valves will be tested prior to crediting the seals if testing was not completed within the previous 92 days.		

REFUELING OUTAGE JUSTIFICATION NO. 41-ROJ-1, REVISION 1

System: Nuclear Boiler

Valves: 41-1F010A, B 41-2F010A, B
HV-41-1F032A, B HV-41-2F032A, B

Category: A/C

Function: Feedwater inboard and outboard primary containment isolation check valves.

Deferred Testing: ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position.

Justification: Since these valves are required to be open continuously during power operation, there is no practical means to reverse-flow test them quarterly.

Based on the configuration and operating conditions of the Feedwater system, the only practical means to reverse-flow test these valves is by measuring pressure drop or leakage across the valve seats. Since they are containment isolation valves, they are leak rate tested during refueling outages in accordance with 10CFR50, Appendix J. Performance of the leak rate testing requires access into primary containment in order to manipulate valves and install test equipment.

During power operation and normally during cold shutdowns, the primary containment atmosphere is inerted with nitrogen, limiting access to emergencies only. NUREG 1482, Section 3.1.1.3, recognizes de-inerting of containment for the purpose of conducting cold shutdown testing as impractical

Because leak testing at power is not possible, and is impractical at cold shutdown, these valves will be leak tested at refueling. Reverse flow closure will be verified during Appendix J, Type C testing.

Test Frequency: Exercise to the closed position in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages.

REFUELING OUTAGE JUSTIFICATION NO. 41-ROJ-2, REVISION 1

System: Nuclear Boiler

Valves: 41-1F036E, H, K, M, S 41-2F036E, H, K, M, S

Category: C

Function: ADS Valve accumulator inlet check valves.

Deferred Testing: ISTC-3510 & 5221(a)(1): Exercise to the open and closed positions.

Justification: Verification of reverse exercising requires isolating the associated instrument gas header and venting the upstream side through a test connection located inside primary containment. To verify forward exercising requires lowering the pressure in the associated ADS accumulator with the gas supply isolated, then opening the gas supply and observing that ADS accumulator pressure increases. Since installed pressure indication is not provided for the ADS accumulators a temporary test gauge must be installed on a pressure tap located inside the primary containment. During power operation and cold shutdown, the containment atmosphere is normally inerted with nitrogen, limiting access to emergencies only. NUREG 1482, Section 3.1.1.3, recognizes de-inerting of containment for the purpose of conducting cold shutdown testing as impractical.

Test Frequency: Exercise to the open and closed positions in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages.

REFUELING OUTAGE JUSTIFICATION NO. 41-ROJ-3, REVISION 1

System: Nuclear Boiler

Valves: 41-1F024A, B, C, D 41-2F024A, B, C, D

Category: C

Function: Inboard MSIV accumulator check valves.

Deferred Testing: ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position and .bidirectional test open.

Justification: Verification of reverse exercising requires isolating the associated instrument nitrogen header, venting the upstream side of the check valve and observing accumulator pressure. These valves are located inside the primary containment and testing requires entering the containment for the installation of a temporary pressure gauge and to vent the upstream piping. During power operation and cold shutdown, the containment atmosphere is normally inerted with nitrogen limiting access to emergencies only. NUREG 1482, Section 3.1.1.3, recognizes de-inerting of containment for the purpose of conducting cold shutdown testing as impractical.

Test Frequency: Exercise to the closed position and bidirectional test open in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages.

REFUELING OUTAGE JUSTIFICATION NO. 41-ROJ-4, REVISION 1

System: Nuclear Boiler

Valves: 41-1F029A, B, C, D

Category: C

Function: Unit 1 Outboard MSIV accumulator check valves.

Deferred Testing: ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position and bidirectional test open.

Justification: Unlike Unit 2 (refer to 41-VCS-5 in Attachment 7), the system configuration for Unit 1 does not include test connections to perform the required testing. Therefore, testing must be performed by disassembling mechanical connections and installing the necessary test equipment. During normal operation this method would require a reduction in power and closing the associated MSIV. In addition, the valves are located in a high temperature and high radiation area. During Cold Shutdowns, the disassembly of the mechanical joints required to perform the test would prevent operation of the associated MSIV and could cause a delay in plant restart.

Test Frequency: Exercise to the closed position and bidirectional test open in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages.

REFUELING OUTAGE JUSTIFICATION NO. 41-ROJ-6, REVISION 1

System:	Nuclear Boiler
Valves:	HV-041-1F084, HV-041-2F084
Category:	A
Function	Main Steam inboard primary containment isolation valves.
Deferred Testing:	ISTC-3510, 3560 & 5131: Quarterly exercise, fail-safe test and stroke time to the closed position.
Justification:	<p>These normally closed, air-operated valves are located in a sample line which connects to Main Steam Line "C" upstream of the inboard MSIV. They perform an active safety function in the closed position. They are identified in UFSAR Table 6.2.17 as containment isolation valves for Penetration X-43B.</p> <p>Although these valves are capable of being exercise tested at power, operating experience at other Exelon and non-Exelon plants has demonstrated a potential for similar valves to fail as a result of cycling at power (Reference ICES# 314808, and #313128). Common failure modes have included severe packing leakage and a loss of containment isolation function. Due to the fact that these valves are located inside the drywell and are inaccessible at power, significant packing leakage associated with Main Steam pressures could result in an unnecessary plant shutdown and unnecessary challenges to safety systems. In addition the containment would require de-inerting in order to perform repair.</p> <p>These valves are closed and maintained closed when the plant is at power. Sampling procedures specifically prohibit their operation during power operations. These valves have no required safety function in the open position. Cycling them at power takes them out of their safety-related position. Failure of the valve to return to the fully closed position could result in increased leakage rates through the associated penetration, increasing total dose release to the environment. In addition, failure of the valve to return to the fully closed position would result in the necessity to declare a Containment Isolation Valve inoperable and would require entry into Technical Specification LCO 3.6.3.a.2. Conversely, the inability to open these valves during plant operation would have no adverse impact on reactor safety. Thus the "Test-Caused Risks" tend to outweigh the benefits of testing and provides a basis for deferring from a quarterly frequency as noted in NUREG 1482, section 2.4.5 "Deferring Valve Testing to Cold Shutdown or Refueling Outages".</p> <p>Because these valves are inaccessible during Cold Shutdown, they will be exercise tested on a refueling outage frequency when the Containment is de-inerted.</p>

Test

Frequency: Exercise, fail-safe test and stroke time to the closed position in accordance with ISTC-3521(e), ISTC-3560 & ISTC-5131 during refueling outages.

REFUELING OUTAGE JUSTIFICATION NO. 42-ROJ-1, REVISION 1

System:	Nuclear Boiler Vessel Instrumentation System		
Valves:	42-1044A/B/C/D	42-2044A/B/C/D	
	42-1046A/B/C/D	42-2046A/B/C/D	
Category:	A/C		
Function:	Reactor level instrumentation reference leg backfill system check valves.		
Deferred Testing:	ISTC-3510 & 5221(a)(3): Quarterly exercise to the open and closed position.		
Justification:	<p>Exercise testing of these check valves requires isolation of the Reactor Vessel level instrumentation reference leg backfill supply and the use of a test rig to introduce flow toward the check valve in the reverse direction. Failure to maintain a steady supply of fill water may result in a low level in the reference leg, which could cause erroneous high level indication. This, in turn, could initiate transients such as reduction of feedwater flow, MSIV closure or turbine trip. Isolation of the fill lines and use of the test rig also increases the possibility of air infiltration into the system which could result in ECCS or RPS safety system actuation.</p> <p>During cold shutdowns, spurious level indications could interrupt the operation of systems required for decay heat removal, thereby placing the reactor in an unsafe condition. During refueling outages, sufficient time exists for decay heat to be reduced to a level which minimizes the impact of temporary interruption in the operation of systems required for decay heat removal such that testing can be performed.</p> <p>In addition to plant safety concerns, personnel safety concerns must be considered since the process side of these valves is normally high energy (>500 psig) during power operation. Personnel safety risks are considerably reduced when testing is performed during refueling outages.</p>		
Test Frequency:	Exercise to the open and closed position in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages.		

REFUELING OUTAGE JUSTIFICATION NO. 43-ROJ-1, REVISION 2

System:	Reactor Recirculation Pump System	
Valves:	43-1004A,B	43-2004A,B
Category:	A/C	
Function:	Reactor Recirculation Pump seals purge supply primary containment isolation check valves.	
Deferred Testing:	ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position.	
Justification:	<p>These check valves are located inside primary containment in the Reactor Recirculation Pump seal purge water supply lines and are open during power operation. Exercising the valves to the closed position during operation would require interruption of flow to the pump seals.</p> <p>Due to system configuration the most practical method to verify reverse flow closure of these valves is by leak testing. In order to leak test the valves, manual valves located inside the primary containment must be repositioned. During power operation and Cold Shutdown, the containment atmosphere is normally inerted with nitrogen, limiting access to emergencies only. NUREG 1482, Section 3.1.1.3, recognizes de-inerting of containment for the purpose of conducting cold shutdown testing as impractical.</p> <p>Leak testing is not possible at power and is impractical during Cold Shutdowns, when containment is inerted, due to the possibility of delaying plant start-up.</p> <p>Reverse flow exercising of these valves will be verified during 10CFR50 Appendix J Type C leak rate testing during refueling outages.</p>	
Test Frequency:	Exercise to the closed position in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages.	

REFUELING OUTAGE JUSTIFICATION NO. 43-ROJ-2, REVISION 0

System:	Reactor Recirculation Pump System
Valves:	HV-043-1F019, HV-043-2F019
Category:	A
Function	Recirc Loop Sample PCIV (Inboard).
Deferred Testing:	ISTC-3510, 3560 & 5131: Quarterly exercise, fail-safe test and stroke time to the closed position.
Justification:	<p>Safety Function(s): These normally closed, fail-closed, air operated valves perform an active safety function in the closed position to maintain primary containment and Reactor Coolant System pressure boundary integrity. They are located in process sample lines from the Reactor Recirculation loops and are identified in UFSAR Table 6.2.17 as containment isolation valves for Penetration X-28A-1.</p>

Although these valves are capable of being exercise tested at power, operating experience at other Exelon and non-Exelon plants has demonstrated a potential for similar valves to fail as a result of cycling at power (Reference ICES# 136169, 235071, 314808, and 313128). Common failure modes have included severe packing leakage and a loss of containment isolation function. Due to the fact that these valves are located inside the drywell and are inaccessible at power, significant packing leakage associated with the Reactor Recirculation Pump discharge pressure could result in an unnecessary plant shutdown and unnecessary challenges to safety systems. In addition the containment would require de-inerting in order to perform repair.

These valves are closed and maintained closed when the plant is at power. Sampling procedures specifically prohibit their operation during power operations unless RCWU isolates and their use is necessary to satisfy Technical Requirements Manual (TRM) Surveillance Requirement 4.4.4.c. These valves have no required safety function in the open position. Cycling them at power takes them out of their safety-related position. Failure of the valve to return to the fully closed position could result in increased leakage rates through the associated penetration, increasing total dose release to the environment. In addition, failure of the valve to return to the fully closed position would result in the necessity to declare a Containment Isolation Valve inoperable and would require entry into Technical Specification LCO 3.6.3.a.2. Conversely, the inability to open these valves during plant operation would have no adverse impact on reactor safety. Thus the "Test-Caused Risks" outweigh the benefits of testing and provides a basis for deferring from a quarterly frequency as noted in NUREG 1482, section 2.4.5 "Deferring Valve Testing to Cold Shutdown or Refueling Outages".

Because these valves are inaccessible during Cold Shutdown, they will be exercise tested on a refueling outage frequency when the Containment is de-inerted.

Test**Frequency:**

Exercise, fail-safe test and stroke time to the closed position in accordance with ISTC-3521(e), ISTC-3560 & ISTC-5131 during refueling outages.

REFUELING OUTAGE JUSTIFICATION NO. 48-ROJ-1, REVISION 2

System: Standby Liquid Control (SLC)

Valves: HV-48-1F006A,B HV-48-2F006A,B
48-1F007 48-2F007
48-1027 48-2027

Category: A/C [HV-48-1(2)F006A,B and 48-1(2)F007]
C 48-1(2)027

Function: SLC injection inboard and outboard primary containment isolation check valves [HV-48-1(2)F006A,B and 48-1(2)F007]. 48-1(2)027 has no function identified. It must pass injection flow only.

Deferred Testing: ISTC-3510, ISTC 3522 & 5221(a)(1): Quarterly exercise stop check valves HV-48-1(2)F006A,B to the open position and check valves 48-1(2)F007 and 48-1(2)027 to the open & closed positions.

Justification: Verifying forward flow operability requires firing a squib valve and injecting relatively cold water into the Reactor Coolant System using the standby liquid control pumps. This would result in an excessive number of thermal cycles to SLC piping and components and could result in a reactivity transient caused by an increase in moderator (i.e., Reactor Coolant) density.
Since the firing of a squib valve requires valve disassembly to replace internals, firing should be minimized. Therefore, forward flow testing of the check valves will be performed during SLC injection testing as required by Technical Specifications 4.1.5.d.1.
Check valves 48-1(2)027 are tested in the forward direction similar to 48-1(2)007, and reverse flow tested during a refueling outage. Obturator movement is demonstrated during reverse flow testing, and this requires drywell access. During power operation and normally during Cold Shutdowns, the primary containment atmosphere is inerted with nitrogen, limiting access to emergencies only. Because testing at power is not possible, and is impractical during cold shutdowns, closure of this valve will be verified during each refueling outage.

REFUELING OUTAGE JUSTIFICATION NO. 48-ROJ-1, REVISION 2(cont.)**Test****Frequency:**

Exercise to the open and closed positions 48-1(2)F007 in accordance with ISTC-3522(c) & ISTC-5221(a)(1) during refueling outages.

Exercise to the open and closed position HV-48-1(2)F006A,B in accordance with ISTC-3522(c) & ISTC-5221(a)(1) during refueling outages.

Exercise to the open and closed position 48-1(2)027 in accordance with ISTC-3522(c) & ISTC-5221(a)(2) during refueling outages.

REFUELING OUTAGE JUSTIFICATION NO. 51-ROJ-1, REVISION 1

System: Residual Heat Removal (RHR)

Valves: HV-51-1F050A,B HV-51-2F050A,B

Category: A/C

Function: Shutdown Cooling return containment isolation valves

Deferred Testing: ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position and bidirectional test open.

Justification: Section 4.1.6 of NUREG 1482 Extension of Test Interval to Refueling Outage for Check Valves Verified Closed by Leak Testing. These valves cannot be verified in the closed position quarterly because they do not have remote position indication and are located inside containment. These valves lack design provisions for system testing to verify closure capability at any plant condition. Recognizing that the setup and performance limitations may render leak testing impractical during power operation and cold shutdown, the NUREG (Section 4.1.6) allows implementation, of this extension in test frequency, as acceptable.

Test Frequency: Exercise to the closed position and bidirectional test open in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages.

REFUELING OUTAGE JUSTIFICATION NO. 51-ROJ-3, REVISION 1

System:	Residual Heat Removal (RHR)
Valves:	51-1200A,B, 51-2200A,B
Category:	A/C
Function:	These check valves relieve pressure on the upstream side of the RHR Shutdown Cooling Injection Header Testable Check Valves (F050s) to the Recirc System pump suction, thus maintaining differential pressure to seat the F050s. They have safety functions as primary containment isolation valves as well as Reactor Coolant System Pressure Isolation Valves.
Deferred Testing:	ISTC-3510 & 5221(a)(3): Quarterly exercise to the closed position and bidirectional test open.
Justification:	These valves are located inside the primary containment. Testing of these valves requires the installation of test equipment and manipulation of valves which are also located inside the primary containment. During power operation and Cold Shutdown, the containment atmosphere is normally inerted with nitrogen limiting access to emergencies only. NUREG 1482, Section 3.1.1.3, recognizes de-inerting the containment for the purpose of conducting cold shutdown testing as impractical. In addition, high radiation levels during power operations prohibit containment entry.
Test Frequency:	Exercise to the closed position and bidirectional test open in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages

REFUELING OUTAGE JUSTIFICATION NO. 52-ROJ-1, REVISION 2

System:	Core Spray
Valves:	HV-52-108 HV-52-208
Category:	A/C
Function:	Core spray injection check valves; containment isolation and RCS pressure boundary isolation valves.
Deferred Testing:	ISTC-3510 & 5221(a)(1): Quarterly exercise to the open and closed positions..
Justification:	<p>The above valves are equipped with air actuators that are designed to assist in valve closure only. Therefore, flow exercising in the forward direction can only be accomplished by injection into the vessel, which cannot be performed during normal operation because the Core Spray pump is not capable of overcoming reactor pressure.</p> <p>The HPCI system also injects through this valve. However, this would require the injection of cold water from the Condensate Storage Tank into the reactor vessel via the HPCI pump. This would result in an excessive number of thermal cycles to system piping and components and could result in a reactivity transient caused by an increase in moderator (i.e., Reactor Coolant) density.</p> <p>Furthermore, HPCI injection would not constitute a full-stroke test, since Core Spray minimum flow requirements are beyond the capacity of the HPCI Pump. Therefore, full-stroke exercising of these valves will be performed manually, using a mechanical exerciser in accordance with ISTC-5221(b).</p> <p>Manual exercising of these valves cannot be performed during normal operation because they isolate the Reactor Coolant system from the lower pressure Core Spray system components. Testing during Cold Shutdowns would require equalizing pressure across the valve, which would require injection of Condensate into the vessel through a stagnant leg of the Core Spray system. Use of this injection path would introduce crud into the reactor vessel and most likely delay unit restart. Crud removal from this leg of piping can only be performed during refuel by flushing the Core Spray header into the Reactor and using the Reactor Water Cleanup system to reduce crud levels to within Technical Specification 3/4.4.4 chemistry requirements. Additionally, manually forward exercising requires partial disassembly of the actuator, which if attempted during Cold Shutdown, could result in a delayed plant start-up.</p>

REFUELING OUTAGE JUSTIFICATION NO. 52-ROJ-1, REVISION 2 (cont.)**Test**

Frequency: Exercise to the open and closed positions in accordance with ISTC-3522(c) & ISTC-5221 during refueling outages. Manual exercising to the open position will be performed in accordance with ISTC-5221(b) and closure will be verified by leak rate testing in accordance with 10CFR50, Appendix J.

REFUELING OUTAGE JUSTIFICATION NO. 59-ROJ-1, REVISION 1

System:	Primary Containment Instrument Gas		
Valves:	59-1001	59-2001	
	59-1005A,B	59-2005A,B	
	59-1023E,H,K,M,S	59-2023E,H,K,M,S	
	59-1024E,H,K,M,S	59-2024E,H,K,M,S	
	59-1056	59-2056	
	59-1112	59-2112	
	59-1128	59-2128	
	59-1131E,H,K,M,S	59-2131E,H,K,M,S	
Category:	A/C	59-1(2)001; 59-1(2)005A,B; 59-1(2)023E,H,K,M,S; 59-1(2)056; 59-1(2)112; 59-1(2)128; 59-1(2)131E,H,K,M,S	
	C	59-1(2)024E,H,K,M,S	
Function:	ADS Accumulator Nitrogen Supply check valves		
Deferred Testing:	ISTC-3510 & 5221(a)(1): Quarterly exercise 59-1(2)023E/H/K/M/S, 59-1(2)112, 59-1(2)128 to the open and closed position		
	ISTC-3510 & 5221(a)(3): Quarterly exercise all other Valves to the closed position and bidirectional test open.		
Justification:	These valves are all located inside the primary containment. Testing of these valves requires the installation of test equipment and manipulation of valves which are also located inside the primary containment. During power operation and Cold Shutdown, the containment atmosphere is normally inerted with nitrogen limiting access to emergencies only. NUREG 1482, Section 3.1.1.3, recognizes de-inerting of containment for the purpose of conducting cold shutdown testing as impractical. In addition, high radiation levels during power operations prohibit containment entry.		
Test Frequency:	Exercise to the open and closed positions 59-1(2)023E/H/K/M/S, 59-1(2)112, 59-1(2)128 in accordance with ISTC-3522(c) & ISTC-5221(a)(1) during refueling outages.		
	Exercise to the closed position and bidirectional test open all other Valves in accordance with ISTC-3522(c) & ISTC-5221(a)(3) during refueling outages		

ATTACHMENT 12
TECHNICAL POSITION INDEX

<u>TECHNICAL POSITION NUMBER</u>	<u>REV #</u>	<u>TITLE</u>
CTP-IST-007	2	Skid-Mounted Components

ATTACHMENT 13
TECHNICAL POSITIONS

Exelon Confidential/Proprietary

ER-AA-321-1007
Revision 2
Page 15 of 36

Number: CTP-IST-007, Rev. 2

Title: Skid-Mounted Components

Applicability: All Exelon IST Programs

Background: The term "skid-mounted component" was coined to describe support components, such as pumps and valves for the purposes of IST, that function in the operation of a supported component in such a way that their proper functioning is confirmed by the operation of the supported component. For example, the successful operation of an emergency diesel-generator set confirms that essential support equipment, such as cooling water and lube oil pumps and valves, are functioning as required. The concept of "skid-mounted" is actually irrespective of physical location.

Position: Components that are required to perform a specific function in shutting down a reactor to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident are required to be tested in accordance with the ASME Code-in-effect for the station's IST Program. It is not the intent of the skid-mounted exemption that it be used in cases where the specific testing requirements of the Code for testing of pumps and valves can be met. For example, if adequate instrumentation is provided to measure a pump's flow and differential pressure, and if required points for vibration measurement can be accessed, then invoking the skid-mounted exemption would be inappropriate.

The "skid-mounted" exclusion as stated in references 2 and 3, below, may be applied to pumps or valves classified as "skid-mounted" in the IST Program provided that they are tested as part of the major component and are justified to be adequately tested. Such components **SHALL** be listed in the Program Plan document and identified as skid-mounted. Pump or Valve Data Sheets which contain the justification regarding the adequacy of their testing **SHALL** be provided in the IST Bases Document.

References:

1. NUREG-1482 Rev. 2, Section 3.4, Skid-Mounted Components and Component Subassemblies
2. ASME OM Code, Code for Operation and Maintenance of Nuclear Power Plants, 1995 Edition OMa-1996 Addenda, ISTA 1.7, ISTC 1.2.
3. ASME OM Code, Code for Operation and Maintenance of Nuclear Power Plants, 1998 Edition and later, ISTA-2000 and ISTC-1200.

ATTACHMENT 14
INSERVICE TESTING PUMP TABLE

INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	DRIVER	TEST PARAMETERS	RELIEF REQUEST	REMARKS
CONTROL STRUCTURE CHILLED WATER (CSCW)	0A-P162	3	A	M-90 (SHT1)	E-4	C	M	dP. Q, V	90-PRR-1	
CONTROL STRUCTURE CHILLED WATER (GSCW)	0B-P162	3	A	M-90 (SHT1)	F-2	C	M	dP. Q, V	90-PRR-1	
EMERGENCY SERVICE WATER (ESW)	0A-P548	3	A	M-11 (SHT1)	H-8	VLS	M	dP. Q, V	11-PRR-1	CALCULATED TDH USED FOR PRESSURE MEASUREMENT
EMERGENCY SERVICE WATER (ESW)	0B-P548	3	A	M-11 (SHT1)	H-4	VLS	M	dP. Q, V	11-PRR-1	CALCULATED TDH USED FOR PRESSURE MEASUREMENT
EMERGENCY SERVICE WATER (ESW)	0C-P548	3	A	M-11 (SHT1)	H-6	VLS	M	dP. Q, V	11-PRR-1	CALCULATED TDH USED FOR PRESSURE MEASUREMENT
EMERGENCY SERVICE WATER (ESW)	0D-P548	3	A	M-11 (SHT1)	H-2	VLS	M	dP. Q, V	11-PRR-1	CALCULATED TDH USED FOR PRESSURE MEASUREMENT
RHR SERVICE WATER (RHRSW0)	0A-P506	3	A	M-12 (SHT1)	E-6	VLS	M	dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
RHR SERVICE WATER (RHRSW0)	0B-P506	3	A	M-12 (SHT1)	E-4	VLS	M	dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT

INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	DRIVER	TEST PARAMETERS	RELIEF REQUEST	REMARKS
RHR SERVICE WATER (RHRSW0)	0C-P506	3	A	M-12 (SHT1)	E-5	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
RHR SERVICE WATER (RHRSW0)	0D-P506	3	A	M-12 (SHT1)	E-2	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
CORE SPRAY (CS)	1A-P206	2	B	M-52 (SHT2)	C-7	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
CORE SPRAY (CS)	1B-P206	2	B	M-52 (SHT2)	C-3	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
CORE SPRAY (CS)	1C-P206	2	B	M-52 (SHT2)	C-5	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
CORE SPRAY (CS)	1D-P206	2	B	M-52 (SHT2)	C-2	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
DIESEL FUEL OIL TRANSFER (EDG)	1A-P514	3		M-20 (SHT3)	D-4	VLS	M	SKID		SKID MOUNTED CTP-IST-007
DIESEL FUEL OIL TRANSFER (EDG)	1B-P514	3		M-20 (SHT3)	D-4	VLS	M	SKID		SKID MOUNTED CTP-IST-007
DIESEL FUEL OIL TRANSFER (EDG)	1C-P514	3		M-20 (SHT3)	D-4	VLS	M	SKID		SKID MOUNTED CTP-IST-007

INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	DRIVER	TEST PARAMETERS	RELIEF REQUEST	REMARKS
DIESEL FUEL OIL TRANSFER (EDG)	1D-P514	3		M-20 (SHT3)	D-4	VLS	M	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN FUEL PUMP (EDG)	1A-P537	3		M-20 (SHT3)	G-7	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN FUEL PUMP (EDG)	1B-P537	3		M-20 (SHT3)	G-7	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN FUEL PUMP (EDG)	1C-P537	3		M-20 (SHT3)	G-7	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN FUEL PUMP (EDG)	1D-P537	3		M-20 (SHT3)	G-7	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN JACKET WATER (EDG)	1A-P536	3		M-20 (SHT4)	D-6	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN JACKET WATER (EDG)	1B-P536	3		M-20 (SHT4)	D-6	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN JACKET WATER (EDG)	1C-P536	3		M-20 (SHT4)	D-6	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN JACKET WATER (EDG)	1D-P536	3		M-20 (SHT4)	D-6	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN AIR COOLER (EDG)	1A-P569	3		M-20 (SHT5)	E-5	C	D	SKID		SKID MOUNTED CTP-IST-007

INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	DRIVER	TEST PARAMETERS	RELIEF REQUEST	REMARKS
DIESEL ENGINE DRIVEN AIR COOLER (EDG)	1B-P569	3		M-20 (SHT5)	E-5	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN AIR COOLER (EDG)	1C-P569	3		M-20 (SHT5)	E-5	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN AIR COOLER (EDG)	1D-P569	3		M-20 (SHT5)	E-5	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN MAIN LUBE OIL (EDG)	1A-P581	3		M-20 (SHT7)	F-5	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN MAIN LUBE OIL (EDG)	1B-P581	3		M-20 (SHT7)	F-5	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN MAIN LUBE OIL (EDG)	1C-P581	3		M-20 (SHT7)	F-5	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN MAIN LUBE OIL (EDG)	1D-P581	3		M-20 (SHT7)	F-5	PDN	D	SKID		SKID MOUNTED CTP-IST-007
HIGH PRESSURE COOLANT INJECTION (HPCI)	1O-P204	2	B	M-56 (SHT1)	F-5	C	T	N. dP. Q, V		VARIABLE SPEED PUMP
REACTOR CORE ISOLATION COOLING (RCIC)	1O-P203	2	B	M-50 (SHT1)	E-6	C	T	N. dP. Q, V		VARIABLE SPEED PUMP
RESIDUAL HEAT REMOVAL (RHR)	1A-P202	2	A	M-51 (SHT1)	B-4	VLS	M	dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT

INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	DRIVER	TEST PARAMETERS	RELIEF REQUEST	REMARKS
RESIDUAL HEAT REMOVAL (RHR)	1B-P202	2	A	M-51 (SHT3)	B-5	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
RESIDUAL HEAT REMOVAL (RHR)	1C-P202	2	B	M-51 (SHT1)	B-3	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
RESIDUAL HEAT REMOVAL (RHR)	1D-P202	2	B	M-51 (SHT3)	B-6	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
SAFEGUARD PIPING FILL (SPF)	1A-P256	2	B	M-52 (SHT2)	G-2	C	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
SAFEGUARD PIPING FILL (SPF)	1B-P256	2	B	M-52 (SHT2)	F-2	C	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
STANDBY LIQUID CONTROL (SLC)	1A-P208	2	B	M-48 (SHT1)	E-5	PDR	M	DIS-P, Q, V		
STANDBY LIQUID CONTROL (SLC)	1B-P208	2	B	M-48 (SHT1)	C-5	PDR	M	DIS-P, Q, V		
STANDBY LIQUID CONTROL (SLC)	1C-P208	2	B	M-48 (SHT1)	B-5	PDR	M	DIS-P, Q, V		

**INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 2**

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	TEST PARAMETERS DRIVER	RELIEF REQUEST	REMARKS
CORE SPRAY (CS)	2A-P206	2	B	M-52 (SHT4)	C-7	VLS	M dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
CORE SPRAY (CS)	2B-P206	2	B	M-52 (SHT4)	C-3	VLS	M dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
CORE SPRAY (CS)	2C-P206	2	B	M-52 (SHT4)	C-5	VLS	M dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
CORE SPRAY (CS)	2D-P206	2	B	M-52 (SHT4)	C-2	VLS	M dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
DIESEL FUEL OIL TRANSFER (EDG)	2A-P514	3		M-20 (SHT9)	D-4	VLS	M SKID		SKID MOUNTED CTP-IST-007
DIESEL FUEL OIL TRANSFER (EDG)	2B-P514	3		M-20 (SHT9)	D-4	VLS	M SKID		SKID MOUNTED CTP-IST-007
DIESEL FUEL OIL TRANSFER (EDG)	2C-P514	3		M-20 (SHT9)	D-4	VLS	M SKID		SKID MOUNTED CTP-IST-007
DIESEL FUEL OIL TRANSFER (EDG)	2D-P514	3		M-20 (SHT9)	D-4	VLS	M SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN FUEL PUMP (EDG)	2A-P537	3		M-20 (SHT9)	G-7	PDN	D SKID		SKID MOUNTED CTP-IST-007

**INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 2**

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	DRIVER	TEST PARAMETERS	RELIEF REQUEST	REMARKS
DIESEL ENGINE DRIVEN FUEL PUMP (EDG)	2B-P537	3		M-20 (SHT9)	G-7	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN FUEL PUMP (EDG)	2C-P537	3		M-20 (SHT9)	G-7	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN FUEL PUMP (EDG)	2D-P537	3		M-20 (SHT9)	G-7	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN JACKET WATER (EDG)	2A-P536	3		M-20 (SHT10)	D-6	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN JACKET WATER (EDG)	2B-P536	3		M-20 (SHT10)	D-6	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN JACKET WATER (EDG)	2C-P536	3		M-20 (SHT10)	D-6	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN JACKET WATER (EDG)	2D-P536	3		M-20 (SHT10)	D-6	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN AIR COOLER (EDG)	2A-P569	3		M-20 (SHT11)	E-5	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN AIR COOLER (EDG)	2B-P569	3		M-20 (SHT11)	E-5	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN AIR COOLER (EDG)	2C-P569	3		M-20 (SHT11)	E-5	C	D	SKID		SKID MOUNTED CTP-IST-007

**INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 2**

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	DRIVER	TEST PARAMETERS	RELIEF REQUEST	REMARKS
DIESEL ENGINE DRIVEN AIR COOLER (EDG)	2D-P569	3		M-20 (SHT11)	E-5	C	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN MAIN LUBE OIL (EDG)	2A-P581	3		M-20 (SHT13)	F-5	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN MAIN LUBE OIL (EDG)	2B-P581	3		M-20 (SHT13)	F-5	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN MAIN LUBE OIL (EDG)	2C-P581	3		M-20 (SHT13)	F-5	PDN	D	SKID		SKID MOUNTED CTP-IST-007
DIESEL ENGINE DRIVEN MAIN LUBE OIL (EDG)	2D-P581	3		M-20 (SHT13)	F-5	PDN	D	SKID		SKID MOUNTED CTP-IST-007
HIGH PRESSURE COOLANT INJECTION (HPCI)	2O-P204	2	B	M-56 (SHT2)	F-5	C	T	N. dP. Q, V		VARIABLE SPEED PUMP
REACTOR CORE ISOLATION COOLING (RCIC)	2O-P203	2	B	M-50 (SHT5)	E-6	C	T	N. dP. Q, V		VARIABLE SPEED PUMP
RESIDUAL HEAT REMOVAL (RHR)	2A-P202	2	A	M-51 (SHT5)	B-4	VLS	M	dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
RESIDUAL HEAT REMOVAL (RHR)	2B-P202	2	A	M-51 (SHT7)	B-5	VLS	M	dP. Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT

**INSERVICE TESTING PUMP TABLE
LIMERICK GENERATING STATION – UNIT 2**

PUMP NAME/ DESCRIPTION	PUMP ID#	CODE CLASS	GRP	P&ID	COORD.	PUMP TYPE	DRIVER	TEST PARAMETERS	RELIEF REQUEST	REMARKS
RESIDUAL HEAT REMOVAL (RHR)	2C-P202	2	B	M-51 (SHT5)	B-3	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
RESIDUAL HEAT REMOVAL (RHR)	2D-P202	2	B	M-51 (SHT7)	B-6	VLS	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
SAFEGUARD PIPING FILL (SPF)	2A-P256	2	B	M-52 (SHT4)	G-2	C	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
SAFEGUARD PIPING FILL (SPF)	2B-P256	2	B	M-52 (SHT4)	F-2	C	M	dP, Q, V		CALCULATED TDH USED FOR PRESSURE MEASUREMENT
STANDBY LIQUID CONTROL (SLC)	2A-P208	2	B	M-48 (SHT2)	E-5	PDR	M	DIS-P, Q, V		
STANDBY LIQUID CONTROL (SLC)	2B-P208	2	B	M-48 (SHT2)	C-5	PDR	M	DIS-P, Q, V		
STANDBY LIQUID CONTROL (SLC)	2C-P208	2	B	M-48 (SHT2)	B-5	PDR	M	DIS-P, Q, V		

ATTACHMENT 15
INSERVICE TESTING VALVE TABLE

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON**

SYSTEM: 01 MAIN STEAM

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	POSITION SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-01-108	2	M-01 (SHT 1)	D-8	B	A	6.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-01-109	2	M-01 (SHT 1)	C-8	B	A	6.00	GA	MO	C	C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-01-111	2	M-01 (SHT 1)	H-8	B	A	8.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-01-150	2	M-01 (SHT 1)	G-8	B	A	4.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC	LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
11-0001A	3	M-11 (SHT 1)	G-7	C	A	20.00	CK	SA	C	O/C	-	N	CC-Q, CO-Q		
11-0001B	3	M-11 (SHT 1)	G-4	C	A	20.00	CK	SA	C	O/C	-	N	CC-Q, CO-Q		
11-0001C	3	M-11 (SHT 1)	G-6	C	A	20.00	CK	SA	C	O/C	-	N	CC-Q, CO-Q		
11-0001D	3	M-11 (SHT 1)	G-3	C	A	20.00	CK	SA	C	O/C	-	N	CC-Q, CO-Q		
11-0062	3	M-11 (SHT 2)	E-7	A/C	A	3.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q, LTP-Y2		
11-0063	3	M-11 (SHT 5)	D-3	A/C	A	3.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q, LTP-Y2		
11-0064A	3	M-11 (SHT 1)	E-7	C	A	20.00	CK	SA	C	O	-	N	CO-Q, BDC-CM		Condition Monitoring
11-0064B	3	M-11 (SHT 1)	E-7	C	A	20.00	CK	SA	C	O	-	N	CO-Q, BDC-CM		Condition Monitoring
11-0065A	3	M-11 (SHT 1)	E-2	C	A	20.00	CK	SA	C	O	-	N	CO-Q, BDC-CM		Condition Monitoring
11-0065B	3	M-11 (SHT 1)	E-2	C	A	20.00	CK	SA	C	O	-	N	CO-Q, BDC-CM		Condition Monitoring

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
11-1007	3	M-11 (SHT 2)	B-6	C	A	8.00	CK	SA	C	O	-	N	CO-Q, BDC-CM		Condition Monitoring
11-1009	3	M-11 (SHT 3)	D-4	C	A	8.00	CK	SA	C	O	-	N	CO-Q, BDC-CM		Condition Monitoring
11-1011	3	M-11 (SHT 2)	C-7	A/C	A	8.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q, LTP-Y2		
11-1012	3	M-11 (SHT 3)	E-3	A/C	A	8.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q, LTP-Y2		
HV-11-011A	3	M-11 (SHT 1)	E-8	B	P	20.00	BTF	MO	O	O	AI	N	PI-Y2		
HV-11-011B	3	M-11 (SHT 1)	E-8	B	P	20.00	BTF	MO	O	O	AI	N	PI-Y2		
HV-11-015A	3	M-11 (SHT 1)	E-2	B	P	20.00	BTF	MO	O	O	AI	N	PI-Y2		
HV-11-015B	3	M-11 (SHT 1)	E-1	B	P	20.00	BTF	MO	O	O	AI	N	PI-Y2		
HV-11-041	3	M-11 (SHT 2)	A-6	B	A	8.00	GA	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
HV-11-043	3	M-11 (SHT 2)	E-8	B	A	3.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-044	3	M-11 (SHT 3)	C-4	B	A	8.00	GA	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
HV-11-046	3	M-11 (SHT 4)	B-7	B	A	6.00	GA	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
HV-11-047	3	M-11 (SHT 5)	B-4	B	A	6.00	GA	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
HV-11-048	3	M-11 (SHT 5)	C-3	B	A	2.00	GL	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-071	3	M-11 (SHT 2)	A-5	B	A	8.00	GA	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
HV-11-073	3	M-11 (SHT 2)	D-8	B	A	3.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-074	3	M-11 (SHT 3)	C-4	B	A	8.00	GA	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
HV-11-076	3	M-11 (SHT 4)	B-6	B	A	6.00	GA	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
HV-11-077	3	M-11 (SHT 5)	B-4	B	A	6.00	GA	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
HV-11-078	3	M-11 (SHT 5)	C-3	B	A	2.00	GL	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-101A	3	M-11 (SHT 2)	F-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-101B	3	M-11 (SHT 3)	F-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-101C	3	M-11 (SHT 2)	G-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-101D	3	M-11 (SHT 3)	G-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-101E	3	M-11 (SHT 2)	G-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-101F	3	M-11 (SHT 3)	F-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-101G	3	M-11 (SHT 2)	H-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-101H	3	M-11 (SHT 3)	G-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-104A	3	M-11 (SHT 2)	C-5	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-104B	3	M-11 (SHT 3)	C-5	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-104C	3	M-11 (SHT 2)	C-3	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-104D	3	M-11 (SHT 3)	C-7	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-104E	3	M-11 (SHT 2)	B-5	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-104F	3	M-11 (SHT 3)	B-5	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-104G	3	M-11 (SHT 2)	B-3	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-104H	3	M-11 (SHT 3)	B-7	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-107	3	M-11 (SHT 1)	G-8	B	P	4.00	GA	MO	C	C	AI	N	PI-Y2		
HV-11-121	3	M-11 (SHT 2)	A-7	B	A	8.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-123	3	M-11 (SHT 2)	A-7	B	A	8.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-125	3	M-11 (SHT 3)	C-3	B	A	8.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-126	3	M-11 (SHT 3)	C-3	B	A	8.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-127	3	M-11 (SHT 3)	B-3	B	P	10.00	GA	AO	C	C	C	N	PI-Y2		
HV-11-128	3	M-11 (SHT 3)	D-3	B	P	10.00	GA	AO	C	C	C	N	PI-Y2		
HV-11-131B <u>Disabled</u>	3	M-11 (SHT 1)	D-5	B	P	6.00	SCK	MO	LC	C	AI	N	N/A (See Bases Doc)		Alt Supply valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-131D <u>Disabled</u>	3	M-11 (SHT 1)	D-5	B	P	6.00	SCK	MO	LC	C	AI	N	N/A (See Bases Doc)		Alt Supply valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-132A	3	M-11 (SHT 1)	D-7	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		
HV-11-132B <u>Disabled</u>	3	M-11 (SHT 1)	D-5	B	P	6.00	GA	MO	LC	C	AI	N	N/A (See Bases Doc)		Alt Return valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-132C	3	M-11 (SHT 1)	D-6	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-132D <u>Disabled</u>	3	M-11 (SHT 1)	D-5	B	P	6.00	GA	MO	LC	C	AI	N	N/A (See Bases Doc)		Alt Return valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-133A <u>Disabled</u>	3	M-11 (SHT 1)	D-6	B	P	6.00	SCK	MO	C	C	AI	N	N/A (See Bases Doc)		Alt Supply valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-133C <u>Disabled</u>	3	M-11 (SHT 1)	D-6	B	P	6.00	SCK	MO	C	C	AI	N	N/A (See Bases Doc)		Alt Supply valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-134A <u>Disabled</u>	3	M-11 (SHT 1)	D-7	B	P	6.00	GA	MO	C	C	AI	N	N/A (See Bases Doc)		Alt Return valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-134B	3	M-11 (SHT 1)	D-5	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		
HV-11-134C <u>Disabled</u>	3	M-11 (SHT 1)	D-6	B	P	6.00	GA	MO	LC	C	AI	N	N/A (See Bases Doc)		Alt Return valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-134D	3	M-11 (SHT 1)	D-5	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		
PSV-11-051A	3	M-11 (SHT 2)	G-3	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		
PSV-11-051B	3	M-11 (SHT 2)	E-3	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		
PSV-11-107A	3	M-11 (SHT 1)	C-6	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		
PSV-11-107B	3	M-11 (SHT 1)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		
PSV-11-107C	3	M-11 (SHT 1)	C-6	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		
PSV-11-107D	3	M-11 (SHT 1)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 12 RHR SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
12-0001A	3	M-12 (SHT 1)	E-6	C	A	20.00	CK	SA	C	O/C	-	N	CO-Q, CC-Q		
12-0001B	3	M-12 (SHT 1)	E-4	C	A	20.00	CK	SA	C	O/C	-	N	CO-Q, CC-Q		
12-0001C	3	M-12 (SHT 1)	E-5	C	A	20.00	CK	SA	C	O/C	-	N	CO-Q, CC-Q		
12-0001D	3	M-12 (SHT 1)	E-3	C	A	20.00	CK	SA	C	O/C	-	N	CO-Q, CC-Q		
12-1011	3	M-12 (SHT 1)	C-8	B	A	6.00	GA	M	O/C	C	AI	N	EC-Y2, EO-Y2		
HV-12-031A	3	M-12 (SHT 1)	B-6	B	A	30.00	BTF	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-031B	3	M-12 (SHT 1)	B-3	B	A	30.00	BTF	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-031C	3	M-12 (SHT 1)	B-6	B	A	30.00	BTF	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-031D	3	M-12 (SHT 1)	B-3	B	A	30.00	BTF	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-032A	3	M-12 (SHT 1)	A-6	B	A	30.00	BTF	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 12 RHR SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-12-032B	3	M-12 (SHT 1)	B-4	B	A	30.00	BTF	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-032C	3	M-12 (SHT 1)	B-5	B	A	30.00	BTF	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-032D	3	M-12 (SHT 1)	A-3	B	A	30.00	BTF	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-110	3	M-12 (SHT 1)	E-8	B	P	4.00	GA	MO	C	C	AI	N	PI-Y2		
HV-12-111	3	M-12 (SHT 1)	A-6	B	A	30.00	BTF	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-112	3	M-12 (SHT 1)	D-7	B	A	36.00	BTF	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-113	3	M-12 (SHT 1)	A-6	B	A	30.00	BTF	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-114	3	M-12 (SHT 1)	D-7	B	A	36.00	BTF	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
PSV-12-001A	3	M-12 (SHT 1)	F-6	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y6		
PSV-12-001B	3	M-12 (SHT 1)	F-3	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y6		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 13 REACTOR ENCLOSURE COOLING WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
HV-13-106	2	M-13 (SHT 1)	G-5	A	A	4.00	GA	MO	O	C	AI	Y	DIAG-MOV, SC/SO-RC, STC-RC, LTJ-AJ		PENT. X-23, LSSC
HV-13-107	2	M-13 (SHT 1)	H-7	A	A	4.00	GA	MO	O	C	AI	Y	DIAG-MOV, SC/SO-RC, STC-RC, LTJ-AJ		PENT. X-24, LSSC
HV-13-108	2	M-13 (SHT 1)	G-5	A	A	3.00	GA	MO	O	C	AI	Y	DIAG-MOV, SC/SO-RC, STC-RC, LTJ-AJ		PENT. X-23, LSSC
HV-13-109	2	M-13 (SHT 1)	G-5	A	P	3.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-23, Electrically disconnected.
HV-13-110	2	M-13 (SHT 1)	G-8	A	P	3.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-24, Electrically disconnected.
HV-13-111	2	M-13 (SHT 1)	G-7	A	A	3.00	GA	MO	O	C	AI	Y	DIAG-MOV, SC/SO-RC, STC-RC, LTJ-AJ		PENT. X-24, LSSC
PSV-13-102	3	M-13 (SHT 1)	H-7	C	A	1.00	RV	SA	C	O	-	N	TRT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 15 COMPRESSED AIR

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
15-1139	2	M-15 (SHT 15)	F-4	A	P	3.00	GA	M	LC	C	AI	Y	LTJ-AJ	PENT X-21
15-1140	2	M-15 (SHT 15)	F-4	A	P	3.00	GA	M	LC	C	AI	Y	LTJ-AJ	PENT X-21
15-1412A	NC	M-15 (SHT 15)	A-5	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1 INFLATABLE SEAL NO. 1
15-1412B	NC	M-15 (SHT 16)	G-2	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1 INFLATABLE SEAL NO. 2
15-1412C	NC	M-15 (SHT 16)	E-2	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-Q, CC-Q	INFLATABLE SEAL NO. 3
15-1412D	NC	M-15 (SHT 16)	C-2	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-Q, CC-Q	INFLATABLE SEAL NO. 4
15-1412G	NC	M-15 (SHT 15)	C-5	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1 INFLATABLE SEAL NO. 7
15-1412K	NC	M-15 (SHT 16)	C-4	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1 INFLATABLE SEAL NO. 10
15-1413A	NC	M-15 (SHT 15)	A-6	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2	INFLATABLE SEAL NO. 1
15-1413B	NC	M-15 (SHT 16)	G-1	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2	INFLATABLE SEAL NO. 2

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 15 COMPRESSED AIR

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
15-1413C	NC	M-15 (SHT 16)	E-1	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 3
15-1413D	NC	M-15 (SHT 16)	C-1	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 4
15-1413G	NC	M-15 (SHT 15)	D-5	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 7
15-1413K	NC	M-15 (SHT 16)	C-4	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 10
15-1886A	NC	M-15 (SHT 15)	B-6	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 1
15-1886B	NC	M-15 (SHT 16)	G-1	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 2
15-1886C	NC	M-15 (SHT 16)	E-1	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-Q, CC-Q		INFLATABLE SEAL NO. 3
15-1886D	NC	M-15 (SHT 16)	C-1	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-Q, CC-Q		INFLATABLE SEAL NO. 4
15-1886G	NC	M-15 (SHT 15)	D-6	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 7
15-1886K	NC	M-15 (SHT 16)	C-4	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 10

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 15 COMPRESSED AIR

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-15-149A	NC	M-15 (SHT 15)	B-6	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10	INFLATABLE SEAL NO. 1
PSV-15-149B	NC	M-15 (SHT 16)	G-1	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10	INFLATABLE SEAL NO. 2
PSV-15-149C	NC	M-15 (SHT 16)	F-2	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10	INFLATABLE SEAL NO. 3
PSV-15-149D	NC	M-15 (SHT 16)	C-2	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10	INFLATABLE SEAL NO. 4
PSV-15-149G	NC	M-15 (SHT 15)	D-5	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10	INFLATABLE SEAL NO. 7
PSV-15-149K	NC	M-15 (SHT 16)	C-4	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10	INFLATABLE SEAL NO. 10

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
20-1046A	3	M-20 (SHT 3)	D-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1046B	3	M-20 (SHT 3)	D-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1046C	3	M-20 (SHT 3)	D-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1046D	3	M-20 (SHT 3)	D-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1054A	3	M-20 (SHT 3)	F-6		A	0.75	CK	SA	O/C	C	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1054B	3	M-20 (SHT 3)	F-6		A	0.75	CK	SA	O/C	C	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1054C	3	M-20 (SHT 3)	F-6		A	0.75	CK	SA	O/C	C	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1054D	3	M-20 (SHT 3)	F-6		A	0.75	CK	SA	O/C	C	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1055A	3	M-20 (SHT 3)	G-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1055B	3	M-20 (SHT 3)	G-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
20-1055C	3	M-20 (SHT 3)	G-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1055D	3	M-20 (SHT 3)	G-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1118A	3	M-20 (SHT 6)	B-5	C	A	1.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q		
20-1118B	3	M-20 (SHT 6)	B-5	C	A	1.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q		
20-1118C	3	M-20 (SHT 6)	B-5	C	A	1.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q		
20-1118D	3	M-20 (SHT 6)	B-5	C	A	1.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q		
20-1122A	3	M-20 (SHT 6)	B-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q		
20-1122B	3	M-20 (SHT 6)	B-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q		
20-1122C	3	M-20 (SHT 6)	B-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q		
20-1122D	3	M-20 (SHT 6)	B-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-Q, CC-Q		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
20-1162A	3	M-20 (SHT 3)	H-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1162B	3	M-20 (SHT 3)	H-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1162C	3	M-20 (SHT 3)	H-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-1162D	3	M-20 (SHT 3)	H-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
92-1302A	3	M-20 (SHT 6)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-1302B	3	M-20 (SHT 6)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-1302C	3	M-20 (SHT 6)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-1302D	3	M-20 (SHT 6)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-1303A	3	M-20 (SHT 6)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
92-1303B	3	M-20 (SHT 6)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-1303C	3	M-20 (SHT 6)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-1303D	3	M-20 (SHT 6)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
PSV-020-128A-1	3	M-20 (SHT 6)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-128A-2	3	M-20 (SHT 6)	C-3	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-128B-1	3	M-20 (SHT 6)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-128B-2	3	M-20 (SHT 6)	C-3	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-128C-1	3	M-20 (SHT 6)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-128C-2	3	M-20 (SHT 6)	C-3	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
PSV-020-128D-1	3	M-20 (SHT 6)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-128D-2	3	M-20 (SHT 6)	C-3	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 26 PLANT PROCESS RADIATION MONITORING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
SV-26-190A	2	M-26 (SHT 2)	G-3	A	A	1.00	GL	SO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-117B-1
SV-26-190B	2	M-26 (SHT 2)	F-3	A	A	1.00	GL	SO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-117B-1
SV-26-190C	2	M-26 (SHT 2)	G-4	A	A	1.00	GL	SO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-117B-2
SV-26-190D	2	M-26 (SHT 2)	F-4	A	A	1.00	GL	SO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-117B-2

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
41-1016	1	M-41 (SHT 1)	F-4	A	P	4.00	GL	M	LC	C	AI	Y	LTJ-AJ		PENT. X-44
41-1017	1	M-41 (SHT 1)	F-4	A	P	4.00	GL	M	LC	C	AI	Y	LTJ-AJ		PENT. X-44
41-1036A	1	M-41 (SHT 1)	D-5	A/C	A	1.00	CK	SA	C	O/C	-	Y	LTJ-AJ, CC-CS, CO-CS	41-VCS-4	PENT. X-9A
41-1036B	1	M-41 (SHT 1)	B-4	A/C	A	1.00	CK	SA	C	O/C	-	Y	LTJ-AJ, CC-CS, CO-CS	41-VCS-4	PENT. X-9B
41-1F010A	1	M-41 (SHT 1)	D-4	A/C	A	24.00	CK	SA	O	O/C	-	Y	LTJ-AJ, CC-RR, CO-Q	41-ROJ-1	PENT. X-9A
41-1F010B	1	M-41 (SHT 1)	C-4	A/C	A	24.00	CK	SA	O	O/C	-	Y	LTJ-AJ, CC-RR, CO-Q	41-ROJ-1	PENT. X-9B
41-1F024A	3	M-41 (SHT 2)	G-5	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-3	
41-1F024B	3	M-41 (SHT 2)	G-5	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-3	
41-1F024C	3	M-41 (SHT 2)	G-5	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-3	
41-1F024D	3	M-41 (SHT 2)	G-5	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-3	

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON**

SYSTEM: 41 NUCLEAR BOILER															
VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION		APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS	
41-1F029A	3	M-41 (SHT 2)	G-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-4	
41-1F029B	3	M-41 (SHT 2)	G-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-4	
41-1F029C	3	M-41 (SHT 2)	G-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-4	
41-1F029D	3	M-41 (SHT 2)	G-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-4	
41-1F036E	3	M-41 (SHT 2)	G-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
41-1F036H	3	M-41 (SHT 2)	G-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
41-1F036K	3	M-41 (SHT 2)	G-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
41-1F036M	3	M-41 (SHT 2)	G-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
41-1F036S	3	M-41 (SHT 2)	G-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
HV-41-109A	2	M-41 (SHT 1)	D-7	A	P	16.00	GA	MO	LC	C	AI	Y	LTJ-AJ, PI-Y2		PENT. X-9A LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-41-109B	2	M-41 (SHT 1)	D-7	A	P	16.00	GA	MO	LC C	AI Y	LTJ-AJ, PI-Y2		PENT. X-9B LSSC
HV-41-130A	1	M-41 (SHT 1)	B-5	A	A	1.50	GL	MO	C O/C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9B LSSC
HV-41-130B	1	M-41 (SHT 1)	C-5	A	A	1.50	GL	MO	C O/C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9A LSSC
HV-41-133A	1	M-41 (SHT 1)	B-5	A	A	1.50	GL	MO	C O/C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9A LSSC
HV-41-133B	1	M-41 (SHT 1)	B-5	A	A	1.50	GL	MO	C O/C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9B LSSC
HV-41-140	SR	M-41 (SHT 2)	D-3	B	A	1.00	GL	MO	C O	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-141	SR	M-41 (SHT 2)	D-2	B	A	1.00	GL	MO	C O	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-142	SR	M-41 (SHT 2)	D-2	B	A	3.00	GA	MO	O C	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-143	SR	M-41 (SHT 2)	D-2	B	A	3.00	GA	MO	O C	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-1F001	1	M-41 (SHT 1)	H-3	B	P	2.00	GL	MO	C C	AI N	PI-Y2		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-41-1F002	1	M-41 (SHT 1)	H-3	B	P	2.00	GL	MO	C	C	AI	N	PI-Y2		LSSC
HV-41-1F016	1	M-41 (SHT 2)	D-5	A	A	3.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-8 LSSC
HV-41-1F019	1	M-41 (SHT 2)	D-5	A	A	3.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-8 LSSC
HV-41-1F021	SR	M-41 (SHT 2)	D-1	B	A	3.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-1F022A	1	M-41 (SHT 2)	F-5	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7A
HV-41-1F022B	1	M-41 (SHT 2)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7B
HV-41-1F022C	1	M-41 (SHT 2)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7C
HV-41-1F022D	1	M-41 (SHT 2)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7D
HV-41-1F028A	1	M-41 (SHT 2)	F-5	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7A
HV-41-1F028B	1	M-41 (SHT 2)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-41-1F028C	1	M-41 (SHT 2)	C-6	A	A	26.00	GL	AO	O C C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7C
HV-41-1F028D	1	M-41 (SHT 2)	C-6	A	A	26.00	GL	AO	O C C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7D
HV-41-1F032A	2	M-41 (SHT 1)	D-7	A/C	A	24.00	SCK	SA	O C -	Y	LTJ-AJ, BDO-Q, CC-RR, PI-Y2	41-ROJ-1	PENT. X-9A
HV-41-1F032B	2	M-41 (SHT 1)	C-8	A/C	A	24.00	SCK	SA	O C -	Y	LTJ-AJ, BDO-Q, CC-RR, PI-Y2	41-ROJ-1	PENT. X-9B
HV-41-1F074A	1	M-41 (SHT 1)	D-4	A/C	A	24.00	TC	SA	O O/C -	Y	LTJ-AJ, CO-Q, CC-CS, PI-Y2	41-VCS-1	PENT. X-9A
HV-41-1F074B	1	M-41 (SHT 1)	C-4	A/C	A	24.00	TC	SA	O O/C -	Y	LTJ-AJ, CO-Q, CC-CS, PI-Y2	41-VCS-1	PENT. X-9B
HV-41-1F084	1	M-41 (SHT 2)	B-5	A	A	1.00	GL	AO	O/C C C	Y	LTJ-AJ, SC/SO-RR, STC-RR, FC-RR, PI-Y2	41-ROJ-6	PENT. X-43B
HV-41-1F085	1	M-41 (SHT 2)	B-4	A	A	1.00	GL	AO	O/C C C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-43B
HV-C-41-1F020	2	M-41 (SHT 2)	D-3	B	A	2.00	GL	MO	O O AI	N	DIAG-MOV, SC/SO-RC		
PSV-41-112	1	M-41 (SHT 1)	E-5	A/C	A	0.75	RV	SA	C O/C -	Y	LTJ-AJ, RT-Y5		PENT. X-44

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-134A	2	M-41 (SHT 1)	B-6	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-41-134B	2	M-41 (SHT 1)	C-5	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F013A	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013B	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013C	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013D	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013E	1	M-41 (SHT 2)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		
PSV-41-1F013F	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013G	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013H	1	M-41 (SHT 2)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-1F013J	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013K	1	M-41 (SHT 2)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		
PSV-41-1F013L	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013M	1	M-41 (SHT 2)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		
PSV-41-1F013N	1	M-41 (SHT 2)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-1F013S	1	M-41 (SHT 2)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		
PSV-41-1F037A	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037B	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037C	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037D	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-1F037E	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037F	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037G	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037H	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037J	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037K	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037L	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037M	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037N	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F037S	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-1F097A	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097B	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097C	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097D	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097E	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097F	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097G	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097H	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097J	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-1F097K	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-1F097L	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-1F097M	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-1F097N	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-1F097S	3	M-41 (SHT 2)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 42 NUCLEAR BOILER VESSEL INSTRUMENTATION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
								NRM	SAF	FAL				
42-1044A	2	M-42 (SHT 5)	C-6	A/C	A	0.50	CK SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-67B
42-1044B	2	M-42 (SHT 5)	E-6	A/C	A	0.50	CK SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-65A
42-1044C	2	M-42 (SHT 5)	F-6	A/C	A	0.50	CK SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-65B
42-1044D	2	M-42 (SHT 5)	G-6	A/C	A	0.50	CK SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-67A
42-1046A	2	M-42 (SHT 5)	C-5	A/C	A	0.50	CK SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-67B
42-1046B	2	M-42 (SHT 5)	E-5	A/C	A	0.50	CK SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-65A
42-1046C	2	M-42 (SHT 5)	F-5	A/C	A	0.50	CK SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-65B
42-1046D	2	M-42 (SHT 5)	G-5	A/C	A	0.50	CK SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-67A
HV-42-147A	1	M-42 (SHT 1)	B-6	B	A	1.50	GL MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-30B-1 LSSC
HV-42-147B	1	M-42 (SHT 1)	B-4	B	A	1.50	GL MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-50A-1 LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 42 NUCLEAR BOILER VESSEL INSTRUMENTATION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-42-147C	1	M-42 (SHT 1)	A-6	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-22 LSSC
HV-42-147D	1	M-42 (SHT 1)	A-4	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-40E LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 43 REACTOR RECIRCULATION PUMP															
VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
43-1004A	1	M-43 (SHT 1)	C-7	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-RR	43-ROJ-1	PENT. X-61-1
43-1004B	1	M-43 (SHT 1)	B-7	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-RR	43-ROJ-1	PENT. X-61-2
HV-43-1F019	1	M-43 (SHT 1)	G-4	A	A	1.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-RR, STC-RR, FC-RR, PI-Y2	43-ROJ-2	PENT. X-28A-1
HV-43-1F020	1	M-43 (SHT 1)	G-2	A	A	1.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-28A-1

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 44 REACTOR WATER CLEANUP

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
HV-44-1F001	1	M-44 (SHT 1)	E-7	A	A	6.00	GA	MO	O	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-CS, STC-CS	44-VCS-1	PENT. X-14 HSSC
HV-44-1F004	1	M-44 (SHT 1)	E-6	A	A	6.00	GA	MO	O	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-CS, STC-CS	44-VCS-1	PENT. X-14 HSSC
HV-44-1F039	2	M-44 (SHT 2)	H-7	A/C	A	4.00	TC	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-CS	44-VCS-2	PENT. X-9A, X-9B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 46 CONTROL ROD DRIVE HYDRAULIC – PART A

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
46-1101	2	M-46 (SHT 1)	E-2	A/C	A	2.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-37A
46-1102	2	M-46 (SHT 1)	E-2	A/C	A	2.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-37B
46-1108	2	M-46 (SHT 1)	F-5	A/C	A	2.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-37C
46-1109	2	M-46 (SHT 1)	F-5	A/C	A	2.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-37D
46-1115	2	M-46 (SHT 1)	F-2	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-CS	46-VCS-1	PENT. X-38A
46-1116	2	M-46 (SHT 1)	F-2	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-CS	46-VCS-1	PENT. X-38B
46-1122	2	M-46 (SHT 1)	G-7	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-38C
46-1123	2	M-46 (SHT 1)	G-6	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-38D
HV-46-125	NC	M-46 (SHT 1)	C-3	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-46-126	NC	M-46 (SHT 1)	C-3	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 46 CONTROL ROD DRIVE HYDRAULIC – PART A													
VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-46-127	NC	M-46 (SHT 1)	C-4	B	A	1.00	GL	MO	O C	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-46-128	NC	M-46 (SHT 1)	C-4	B	A	1.00	GL	MO	O C	AI N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 47 CONTROL ROD DRIVE HYDRAULIC – PART B

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
47-1-14(x-y)	2	M-47 (SHT-1)	D-6	C	A	0.75	CK	SA	C	O	-	N	BDC-TS, CO-TS	47-VRR-2	Typ. of 185. GL 89-04, Pos. 7
47-1-15(x-y)	2	M-47 (SHT-1)	B-4	A/C	A	0.50	CK	SA	O/C	C	-	N	LTP-Y2, BDO-CS, CC-CS	47-VCS-1	Typ. of 185.
47-1-38(x-y)	2	M-47 (SHT-1)	B-6	C	A	0.50	CK	SA	O	C	-	N	BDO-Q, CC-Q		Typ. of 185.
XV-47-1-26(x-y)	2	M-47 (SHT-1)	B-5	B	A	0.50	GL	AO	C	O	O	N	SC/SO-TS, STO-TS, FO-TS, PI-Y2	47-VRR-2	Typ. of 185. GL 89-04, Pos. 7
XV-47-1-27(x-y)	2	M-47 (SHT-1)	D-6	B	A	0.75	GL	AO	C	O	O	N	SC/SO-TS, STO-TS, FO-TS, PI-Y2	47-VRR-2	Typ. of 185. GL 89-04, Pos. 7
XV-47-1F010	2	M-47 (SHT-1)	H-4	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q PI-Y2		PENT. X-38
XV-47-1F011	2	M-47 (SHT-1)	D-6	A	A	2.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q PI-Y2		PENT. X-38
XV-47-1F180	2	M-47 (SHT-1)	H-4	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q PI-Y2		PENT. X-38
XV-47-1F181	2	M-47 (SHT-1)	D-6	A	A	2.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q PI-Y2		PENT. X-38

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 48 STANDBY LIQUID CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
48-1027	1	M-48 (SHT 1)	G-8	C	A	2.00	CK	SA	C	O	-	-	N	BDC-RR, CO-RR	48-ROJ-1	
48-1F007	1	M-48 (SHT 1)	F-8	A/C	A	2.00	CK	SA	C	O/C	-	-	Y	LTJ-AJ, CC-RR, CO-RR	48-ROJ-1	PENT. X-42 & 116
48-1F033A	2	M-48 (SHT 1)	E-6	C	A	1.50	CK	SA	C	O/C	-	-	N	CC-Q, CO-Q		
48-1F033B	2	M-48 (SHT 1)	C-6	C	A	1.50	CK	SA	C	O/C	-	-	N	CC-Q, CO-Q		
48-1F033C	2	M-48 (SHT 1)	B-6	C	A	1.50	CK	SA	C	O/C	-	-	N	CC-Q, CO-Q		
48-1F036	1	M-48 (SHT 1)	F-8	B	P	2.00	GL	M	LO	O	AI	-	N	PI-Y2		
HV-48-1F006A	1	M-48 (SHT 1)	E-8	A/C	A	2.00	SCK	MO	C*	O/C	AI	-	Y	LTJ-AJ, CC-Q, CO-RR, DIAG-MOV, SC/SO-RC, STC-RC	48-ROJ-1	PENT. X-42 MO normally open. LSSC
HV-48-1F006B	1	M-48 (SHT 1)	D-8	A/C	A	2.00	SCK	MO	C*	O/C	AI	-	Y	LTJ-AJ, CC-Q, CO-RR, DIAG-MOV, SC/SO-RC, STC-RC	48-ROJ-1	PENT. X-116 MO normally open. LSSC
PSV-48-1F029A	2	M-48 (SHT 1)	E-6	C	A	0.75	RV	SA	C	O/C	-	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 48 STANDBY LIQUID CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-48-1F029B	2	M-48 (SHT 1)	D-6	C	A	0.75	RV	SA	C O/C -	N	RT-Y10		
PSV-48-1F029C	2	M-48 (SHT 1)	B-6	C	A	0.75	RV	SA	C O/C -	N	RT-Y10		
XV-48-1F004A	2	M-48 (SHT 1)	E-7	D	A	1.50	SHR	EXP	C O AI	N	DT-TS		
XV-48-1F004B	2	M-48 (SHT 1)	C-7	D	A	1.50	SHR	EXP	C O AI	N	DT-TS		
XV-48-1F004C	2	M-48 (SHT 1)	B-7	D	A	1.50	SHR	EXP	C O AI	N	DT-TS		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 49 & 50 REACTOR CORE ISOLATION COOLING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
49-1017	2	M-49 (SHT 1)	A-8	C	A	3.00	CK	SA	O/C	-	N	CC-Q, CO-Q, D&I-CM		Condition Monitoring
49-1018	2	M-49 (SHT 1)	A-8	C	A	3.00	CK	SA	O/C	-	N	CC-Q, CO-Q, D&I-CM		Condition Monitoring
49-1032	2	M-49 (SHT 1)	C-3	C	A	1.50	CK	SA	C	O/C	-	CC-Q, CO-Q		
49-1033	2	M-49 (SHT 1)	C-3	C	A	1.50	CK	SA	C	O/C	-	CC-Q, CO-Q		
49-1F001	2	M-49 (SHT 1)	B-4	C	A	8.00	SCK	SA	O/C	O	-	BDC-CM, CO-Q		Condition Monitoring
49-1F011	2	M-49 (SHT 1)	E-2	C	A	6.00	CK	SA	O/C	O	-	BDC-CM, CO-Q		Condition Monitoring
49-1F014	2	M-49 (SHT 1)	D-3	C	A	6.00	CK	SA	O/C	O	-	BDC-Q, CO-Q		
49-1F028	2	M-49 (SHT 1)	B-2	C	A	1.00	CK	SA	C	C	-	BDO-Q, CC-CS	49-VCS-3	PENT. X-217
49-1F030	2	M-49 (SHT 1)	A-6	C	A	6.00	CK	SA	C	O	-	BDC-CM, CO-Q		Condition Monitoring
49-1F064	2	M-49 (SHT 1)	B-4	C	A	2.00	CK	SA	O/C	C	-	BDO-CS, CC-CS	49-VCS-4	

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 49 & 50 REACTOR CORE ISOLATION COOLING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
49-1F065	2	M-49 (SHT 1)	B-4	C	A	2.00	CK	SA	O/C	C	-	N	BDO-CS, CC-CS	49-VCS-4	Condition Monitoring
49-1F068	2	M-49 (SHT 1)	A-8	C	A	3.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM		
49-1F081	2	M-49 (SHT 1)	A-8	C	A	3.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM		
HV-49-1F002	2	M-49 (SHT 1)	B-5	C	A	2.00	SCK	MO	O/C	C	AI	N	BDO-Q, CC-Q, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-217 LSSC
HV-49-1F007	1	M-49 (SHT 1)	F-6	A	A	3.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- CS, STC-CS	49-VCS-1	PENT. X-10 HSSC
HV-49-1F008	1	M-49 (SHT 1)	F-5	A	A	3.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- Q, STC-Q		PENT. X-10 HSSC
HV-49-1F010	2	M-49 (SHT 1)	E-2	B	A	6.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-49-1F012	2	M-49 (SHT 1)	D-4	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		LSSC
HV-49-1F013	2	M-49 (SHT 1)	D-4	A	A	6.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-Q, STC-Q		PENT. X-9B HSSC
HV-49-1F019	2	M-49 (SHT 1)	C-5	B	A	2.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-216 LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 49 & 50 REACTOR CORE ISOLATION COOLING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
HV-49-1F022	2	M-49 (SHT 1)	E-4	B	A	4.00	GL	MO	O/C C	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-49-1F025	2	M-49 (SHT 1)	C-2	B	A	1.00	GL	AO	O C	C N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		
HV-49-1F026	2	M-49 (SHT 1)	B-2	B	A	1.00	GL	AO	O C	C N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		
HV-49-1F029	2	M-49 (SHT 1)	A-5	B	A	6.00	GA	MO	C O	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-49-1F031	2	M-49 (SHT 1)	A-6	B	A	6.00	GA	MO	C O/C	AI N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-214 LSSC
HV-49-1F060	2	M-49 (SHT 1)	C-5	B	A	8.00	GA	MO	O O/C	AI N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-215 LSSC
HV-49-1F076	1	M-49 (SHT 1)	E-5	A	A	1.50	GL	MO	O/C C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-10 LSSC
HV-49-1F080	2	M-49 (SHT 1)	A-7	A	A	3.00	GA	MO	O O/C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-241 LSSC
HV-49-1F084	2	M-49 (SHT 1)	C-8	A	A	3.00	GA	MO	O O/C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-241 LSSC
50-1F047	2	M-50 (SHT 1)	B-5	C	A	2.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 49 & 50 REACTOR CORE ISOLATION COOLING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
FV-50-113	2	M-50 (SHT 1)	F-4		A	4.00	GL	HO	O/C O O	N	SKID		SKID MOUNTED CTP-IST-007
HV-50-112	2	M-50 (SHT 1)	F-3		P	4.00	GL	MO	O/C O -	N	SKID		SKID MOUNTED CTP-IST-007
HV-50-1F045	2	M-50 (SHT 1)	F-2	B	A	6.00	GL	MO	C O/C AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-50-1F046	2	M-50 (SHT 1)	D-7	B	A	2.00	GL	MO	C O/C AI	N	DIAG-MOV, SC/SO-Q		HSSC
PSE-50-1D001	2	M-50 (SHT 1)	F-5	D	A	8.00	RPD	SA	C O -	N	DT-Y5		
PSE-50-1D002	2	M-50 (SHT 1)	H-5	D	A	8.00	RPD	SA	C O -	N	DT-Y5		
PSV-50-1F018	2	M-50 (SHT 1)	C-6	C	A	1.00	RV	SA	C O/C -	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
51-1032A	2	M-51 (SHT 1)	G-5	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-1032B	2	M-51 (SHT 3)	G-4	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-1115A	2	M-51 (SHT 1)	A-7	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
51-1115B	2	M-51 (SHT 3)	A-2	C	A	1.50	CK	SA	C	C	-	N	D&I-CM		Condition Monitoring
51-1115C	2	M-51 (SHT 1)	A-6	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
51-1115D	2	M-51 (SHT 3)	A-3	C	A	1.50	CK	SA	C	C	-	N	D&I-CM		Condition Monitoring
51-1116A	2	M-51 (SHT 1)	A-7	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
51-1116C	2	M-51 (SHT 1)	A-6	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
51-1200A	1	M-51 (SHT 1)	E-3	A/C	A	0.75	CK	SA	C	C	-	N	LTP-AJ, BDO-RR, CC-RR	GVRR-8, 51-ROJ-3	
51-1200B	1	M-51 (SHT 3)	E-6	A/C	A	0.75	CK	SA	C	C	-	N	LTP-AJ, BDO-RR, CC-RR	GVRR-8, 51-ROJ-3	

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
51-1F031A	2	M-51 (SHT 1)	B-6	C	A	18.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
51-1F031B	2	M-51 (SHT 3)	C-3	C	A	18.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
51-1F031C	2	M-51 (SHT 1)	B-6	C	A	18.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
51-1F031D	2	M-51 (SHT 3)	B-4	C	A	18.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
51-1F046A	2	M-51 (SHT 1)	C-5	C	A	4.00	CK	SA	O/C	O	-	N	D&I-CM		Condition Monitoring
51-1F046B	2	M-51 (SHT 3)	D-5	C	A	4.00	CK	SA	O/C	O	-	N	D&I-CM		Condition Monitoring
51-1F046C	2	M-51 (SHT 1)	C-5	C	A	4.00	CK	SA	O/C	O	-	N	D&I-CM		Condition Monitoring
51-1F046D	2	M-51 (SHT 3)	D-4	C	A	4.00	CK	SA	O/C	O	-	N	D&I-CM		Condition Monitoring
51-1F065A	1	M-51 (SHT 1)	F-1	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
51-1F065B	1	M-51 (SHT 3)	F-8	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
51-1F065C	1	M-51 (SHT 1)	F-1	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
51-1F065D	1	M-51 (SHT 3)	G-8	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
51-1F090A	2	M-51 (SHT 1)	G-4	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-1F090B	2	M-51 (SHT 3)	G-4	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-1F090C	2	M-51 (SHT 1)	G-5	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-1F090D	2	M-51 (SHT 3)	G-4	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
HV-51-105A	2	M-51 (SHT 1)	D-3	B	A	4.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-226A LSSC
HV-51-105B	2	M-51 (SHT 3)	D-6	B	A	4.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-226B LSSC
HV-51-125A	2	M-51 (SHT 1)	D-3	B	A	18.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-204A LSSC
HV-51-125B	2	M-51 (SHT 3)	D-6	B	A	18.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-204B LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-142A	1	M-51 (SHT 1)	F-2	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-45A
HV-51-142B	1	M-51 (SHT 3)	F-7	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-45B
HV-51-142C	1	M-51 (SHT 1)	F-2	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-45C
HV-51-142D	1	M-51 (SHT 3)	F-7	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-45D
HV-51-151A	1	M-51 (SHT 1)	E-3	A	P	1.50	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-13A
HV-51-151B	1	M-51 (SHT 3)	E-6	A	P	1.50	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-13B
HV-51-1F003A	2	M-51 (SHT 2)	F-5	B	P	18.00	GA	MO	O	O	AI	N	PI-Y2		
HV-51-1F003B	2	M-51 (SHT 4)	F-6	B	P	18.00	GA	MO	O	O	AI	N	PI-Y2		
HV-51-1F004A	2	M-51 (SHT 1)	C-3	B	A	24.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-203A LSSC
HV-51-1F004B	2	M-51 (SHT 3)	C-6	B	A	24.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-203B LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-1F004C	2	M-51 (SHT 1)	C-2	B	A	24.00	GA	MO	O C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC	PENT. X-203C LSSC
HV-51-1F004D	2	M-51 (SHT 3)	C-7	B	A	24.00	GA	MO	O C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC	PENT. X-203D LSSC
HV-51-1F006A	2	M-51 (SHT 1)	B-2	B	A	20.00	GA	MO	O/C C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-51-1F006B	2	M-51 (SHT 3)	B-7	B	A	20.00	GA	MO	O/C C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-51-1F007A	2	M-51 (SHT 1)	C-5	B	A	4.00	GA	MO	O/C O/C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-51-1F007B	2	M-51 (SHT 3)	C-5	B	A	4.00	GA	MO	O/C O/C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-51-1F007C	2	M-51 (SHT 1)	C-5	B	A	4.00	GA	MO	O/C O/C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-51-1F007D	2	M-51 (SHT 3)	C-4	B	A	4.00	GA	MO	O/C O/C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-51-1F008	1	M-51 (SHT 1)	E-3	A	A	20.00	GA	MO	O/C C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-RC, STC- RC	PENT. X-12 LSSC
HV-51-1F009	1	M-51 (SHT 3)	E-8	A	A	20.00	GA	MO	O/C C	AI	N	LTP-AJ, DIAG-MOV, SC/SO-RC, STC-RC	PENT. X-12 LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-1F010A	2	M-51 (SHT 1)	D-6	B	A	18.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-1F010B	2	M-51 (SHT 3)	D-4	B	A	18.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-1F014A	3	M-51 (SHT 2)	C-7	B	A	20.00	GA	MO	O/C	O	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-1F014B	3	M-51 (SHT 4)	D-4	B	A	20.00	GA	MO	O/C	O	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-1F015A	1	M-51 (SHT 1)	E-3	A	A	12.00	GL	MO	O/C	C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-RC, STC- RC	GVR-8	PENT. X-13A LSSC
HV-51-1F015B	1	M-51 (SHT 3)	F-6	A	A	12.00	GL	MO	O/C	C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-RC, STC- RC	GVR-8	PENT. X-13B LSSC
HV-51-1F016A	2	M-51 (SHT 1)	G-7	B	A	16.00	GA	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-39A LSSC
HV-51-1F016B	2	M-51 (SHT 3)	G-3	B	A	16.00	GA	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-39B LSSC
HV-51-1F017A	1	M-51 (SHT 1)	F-3	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-CS, STC- CS	GVR-8, 51-VCS-1	PENT. X-45A HSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-1F017B	1	M-51 (SHT 3)	F-6	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-CS, STC- CS	GVRR-8, 51-VCS-1	PENT. X-45B HSSC
HV-51-1F017C	1	M-51 (SHT 1)	F-3	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-CS, STC- CS	GVRR-8, 51-VCS-1	PENT. X-45C HSSC
HV-51-1F017D	1	M-51 (SHT 3)	G-6	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-CS, STC- CS	GVRR-8, 51-VCS-1	PENT. X-45D HSSC
HV-51-1F021A	2	M-51 (SHT 1)	G-3	A	A	16.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-39A LSSC
HV-51-1F021B	2	M-51 (SHT 3)	G-6	A	A	16.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-39B LSSC
HV-51-1F024A	2	M-51 (SHT 1)	D-4	B	A	18.00	GL	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-1F024B	2	M-51 (SHT 3)	D-5	B	A	18.00	GL	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-1F027A	2	M-51 (SHT 1)	D-3	A	A	6.00	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-205A LSSC
HV-51-1F027B	2	M-51 (SHT 3)	E-6	A	A	6.00	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-205B LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-1F040	2	M-51 (SHT 2)	F-3	B	A	4.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-1F041A	1	M-51 (SHT 1)	F-2	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVRR-8, 51-VCS-1	PENT. X-45A
HV-51-1F041B	1	M-51 (SHT 3)	F-7	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVRR-8, 51-VCS-1	PENT. X-45B
HV-51-1F041C	1	M-51 (SHT 1)	F-2	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVRR-8, 51-VCS-1	PENT. X-45C
HV-51-1F041D	1	M-51 (SHT 3)	G-7	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVRR-8, 51-VCS-1	PENT. X-45D
HV-51-1F047A	2	M-51 (SHT 1)	C-7	B	P	18.00	GA	MO	O	O	AI	N	PI-Y2		
HV-51-1F047B	2	M-51 (SHT 3)	D-2	B	P	18.00	GA	MO	O	O	AI	N	PI-Y2		
HV-51-1F049	2	M-51 (SHT 2)	F-4	B	A	4.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-1F050A	1	M-51 (SHT 1)	E-3	A/C	A	12.00	TC	SA	O/C	C	-	N	LTP-AJ, BDO-RR, CC- RR	GVRR-8, 51-ROJ-1	PENT. X-13A
HV-51-1F050B	1	M-51 (SHT 3)	F-6	A/C	A	12.00	TC	SA	O/C	C	-	N	LTP-AJ, BDO-RR, CC- RR	GVRR-8, 51-ROJ-1	PENT. X-13B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-1F068A	3	M-51 (SHT 2)	B-4	B	A	20.00	GL	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-1F068B	3	M-51 (SHT 4)	C-6	B	A	20.00	GL	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-1F075	2	M-51 (SHT 4)	G-5	B	P	18.00	GA	MO	C	C	AI	N	PI-Y2		
HV-51-1F079A	2	M-51 (SHT 2)	E-6	B	A	1.00	GL	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-51-1F079B	2	M-51 (SHT 4)	F-4	B	A	1.00	GL	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-51-1F080A	2	M-51 (SHT 2)	E-7	B	A	1.00	GL	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-51-1F080B	2	M-51 (SHT 4)	F-3	B	A	1.00	GL	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-C-51-1F048A	2	M-51 (SHT 1)	E-7	B	A	18.00	BTF	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-C-51-1F048B	2	M-51 (SHT 3)	E-2	B	A	18.00	BTF	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
PSV-51-105A	3	M-51 (SHT 2)	B-5	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-51-105B	3	M-51 (SHT 4)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6	
PSV-51-106A	2	M-51 (SHT 2)	D-6	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10	
PSV-51-106B	2	M-51 (SHT 4)	D-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10	
PSV-51-155	1	M-51 (SHT 1)	E-2	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y5	
PSV-51-1F025A	2	M-51 (SHT 1)	G-5	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10	
PSV-51-1F025B	2	M-51 (SHT 3)	G-4	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10	
PSV-51-1F025C	2	M-51 (SHT 1)	G-4	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10	
PSV-51-1F025D	2	M-51 (SHT 3)	G-5	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10	
PSV-51-1F029	2	M-51 (SHT 1)	C-4	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10	
PSV-51-1F030A	2	M-51 (SHT 1)	C-3	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10	PENT. X-203A

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-51-1F030B	2	M-51 (SHT 3)	C-6	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		PENT. X-203B
PSV-51-1F030C	2	M-51 (SHT 1)	C-2	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		PENT. X-203C
PSV-51-1F030D	2	M-51 (SHT 3)	C-7	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		PENT. X-203D

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	POSITION SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
52-1045A	2	M-52 (SHT 2)	E-6	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q	Condition Monitoring
52-1045B	2	M-52 (SHT 2)	E-2	C	A	1.50	CK	SA	C	C	-	N	D&I-CM	
52-1046A	2	M-52 (SHT 2)	E-5	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q	
52-1048A	2	M-52 (SHT 2)	A-5	C	A	1.00	CK	SA	C	O/C	-	N	CO-Q, D&I-CM	Condition Monitoring
52-1048B	2	M-52 (SHT 2)	B-3	C	A	1.00	CK	SA	C	O/C	-	N	CO-Q, D&I-CM	Condition Monitoring
52-1051A	2	M-52 (SHT 2)	G-2	C	A	1.50	CK	SA	O/C	O	-	N	BDC-Q, CO-Q	Condition Monitoring
52-1051B	2	M-52 (SHT 2)	F-2	C	A	1.50	CK	SA	O/C	O	-	N	BDC-Q, CO-Q	
52-1F003A	2	M-52 (SHT 2)	D-6	C	A	12.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q	
52-1F003B	2	M-52 (SHT 2)	D-3	C	A	12.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q	Condition Monitoring
52-1F003C	2	M-52 (SHT 2)	D-5	C	A	12.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q	

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
52-1F003D	2	M-52 (SHT 2)	D-1	C	A	12.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q		
52-1F007A	1	M-52 (SHT 1)	E-7	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
52-1F007B	1	M-52 (SHT 1)	F-7	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
52-1F030A	2	M-52 (SHT 1)	G-4	C	A	2.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
52-1F030B	2	M-52 (SHT 1)	H-4	C	A	2.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
52-1F036A	2	M-52 (SHT 2)	D-7	C	A	3.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
52-1F036B	2	M-52 (SHT 2)	D-3	C	A	3.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
52-1F036C	2	M-52 (SHT 2)	D-5	C	A	3.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
52-1F036D	2	M-52 (SHT 2)	D-1	C	A	3.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
HV-52-108	1	M-52 (SHT 1)	F-6	A/C	A	12.00	TC	SA	C	O/C	-	Y	LTJ-AJ, LTP-AJ, CC-RR, CO-RR, PI-Y2	GVRR-8, 52-ROJ-1	PENT. X-16B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
HV-52-127	2	M-52 (SHT 2)	G-7	B	A	6.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-237, LSSC
HV-52-128	2	M-52 (SHT 2)	G-7	B	A	6.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-237, LSSC
HV-52-139	2	M-52 (SHT 1)	A-7	B	A	1.00	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-237, LSSC
HV-52-1F001A	2	M-52 (SHT 1)	B-6	B	A	16.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-206A, LSSC
HV-52-1F001B	2	M-52 (SHT 1)	B-8	B	A	16.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-206B, LSSC
HV-52-1F001C	2	M-52 (SHT 1)	B-6	B	A	16.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-206C, LSSC
HV-52-1F001D	2	M-52 (SHT 1)	B-8	B	A	16.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-206D, LSSC
HV-52-1F004A	2	M-52 (SHT 1)	E-5	B	A	12.00	GA	MO	O/C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-52-1F004B	2	M-52 (SHT 1)	D-4	B	A	12.00	GA	MO	O/C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-52-1F005	1	M-52 (SHT 1)	E-6	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG-MOV, SC/SO-RC, STC-RC	GVRR-8	PENT. X-16A, LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
HV-52-1F006A	1	M-52 (SHT 1)	E-6	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVERR-8, 52-VCS-1	PENT. X-16A
HV-52-1F006B	1	M-52 (SHT 1)	F-6	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVERR-8 52-VCS-1	PENT. X-16B
HV-52-1F015A	2	M-52 (SHT 1)	D-6	B	A	10.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-207A, LSSC
HV-52-1F015B	2	M-52 (SHT 1)	D-6	B	A	10.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-207B, LSSC
HV-52-1F031A	2	M-52 (SHT 1)	C-6	B	A	4.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-235, LSSC
HV-52-1F031B	2	M-52 (SHT 1)	C-6	B	A	4.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-208B, LSSC
HV-52-1F037	2	M-52 (SHT 1)	F-5	B	A	12.00	GA	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-52-1F039A	1	M-52 (SHT 1)	E-6	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVERR-8	PENT. X-16A
HV-52-1F039B	1	M-52 (SHT 1)	F-6	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVERR-8	PENT. X-16B
PSV-52-1F012A	2	M-52 (SHT 2)	F-7	C	A	2.00	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
PSV-52-1F012B	2	M-52 (SHT 2)	F-3	C	A	2.00	RV	SA	C	O/C	-	N	RT-Y10		
SV-52-139	2	M-52 (SHT 1)	A-7	B	A	1.00	GL	SO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-237

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 53 FUEL POOL COOLING AND CLEANUP

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
53-1093	3	M-53 (SHT 1)	G-2	B	A	2.00	GL	M	C O	N	EC-Y2, EO-Y2		FSAR 9.1.1.3
53-1094	3	M-53 (SHT 1)	G-2	B	A	2.00	GL	M	C O	N	EC-Y2, EO-Y2		FSAR 9.1.1.3

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
55-1025	2	M-55 (SHT 1)	A-8	C	A	4.00	CK	SA	O/C O/C	- N	CC-Q, CO-Q, D&I-CM		Condition Monitoring
55-1026	2	M-55 (SHT 1)	A-7	C	A	4.00	CK	SA	O/C O/C	- N	CC-Q, CO-Q, D&I-CM		Condition Monitoring
55-1048	2	M-55 (SHT 1)	D-4	C	A	1.50	CK	SA	O/C O/C	- N	D&I-CM		Condition Monitoring
55-1049	2	M-55 (SHT 1)	C-4	C	A	1.50	CK	SA	O/C O/C	- N	D&I-CM		Condition Monitoring
55-1058	2	M-55 (SHT 1)	F-4	C	A	8.00	CK	SA	C O	- N	D&I-CM		Condition Monitoring
55-1059	2	M-55 (SHT 1)	D-5	C	A	12.00	CK	SA	C O	- N	D&I-CM		Condition Monitoring
55-1F005	2	M-55 (SHT 1)	D-4	C	A	14.00	CK	SA	O/C O	- N	BDC-Q, CO-Q		
55-1F019	2	M-55 (SHT 1)	F-3	C	A	16.00	CK	SA	O/C O	- N	D&I-CM		Condition Monitoring
55-1F021	2	M-55 (SHT 1)	C-4	C	A	12.00	SCK	SA	O/C O	- N	BDC-CS, CO-Q	55-VCS-3	
55-1F045	2	M-55 (SHT 1)	B-6	C	A	16.00	CK	SA	O/C O	- N	D&I-CM, CPF-Q		Condition Monitoring

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
55-1F078	2	M-55 (SHT 1)	B-5	C	A	2.00	CK	SA	O/C C -	N	D&I-CM		Condition Monitoring
55-1F080	2	M-55 (SHT 1)	A-8	C	A	4.00	CK	SA	O/C O/C -	N	CC-Q, CO-Q, D&I-CM		Condition Monitoring
55-1F094	2	M-55 (SHT 1)	A-7	C	A	4.00	CK	SA	O/C O/C -	N	CC-Q, CO-Q, D&I-CM		Condition Monitoring
HV-55-120	2	M-55 (SHT 1)	B-6	B	A	2.00	GL	MO	O O/C AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-219B, LSSC
HV-55-121	2	M-55 (SHT 1)	B-6	B	A	0.75	GL	MO	O O/C AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-219A, LSSC
HV-55-126	2	M-55 (SHT 1)	A-6	B	A	0.75	GL	MO	O O/C AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-219A, LSSC
HV-55-1F001	2	M-55 (SHT 1)	D-2	B	A	12.00	GA	MO	C O AI	N	DIAG-MOV, SC/SO-Q, STO- Q		HSSC
HV-55-1F002	1	M-55 (SHT 1)	F-6	A	A	10.00	GL	MO	O O/C AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-CS, STC-CS	55-VCS-1	PENT. X-11, HSSC
HV-55-1F003	1	M-55 (SHT 1)	F-6	A	A	10.00	GL	MO	O O/C AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-Q, STC-Q		PENT. X-11, HSSC
HV-55-1F004	2	M-55 (SHT 1)	F-3	B	A	16.00	GA	MO	O/C O/C AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-55-1F006	2	M-55 (SHT 1)	D-5	B	A	12.00	GA	MO	C O/C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-55-1F007	2	M-55 (SHT 1)	D-4	B	P	14.00	GA	MO	O O	AI	N	PI-Y2	
HV-55-1F008	2	M-55 (SHT 1)	E-4	B	A	10.00	GL	MO	O/C C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-55-1F011	2	M-55 (SHT 1)	G-4	B	A	10.00	GA	MO	O/C C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-55-1F012	2	M-55 (SHT 1)	C-6	B	A	4.00	GL	MO	O/C C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC	PENT. X-236, LSSC
HV-55-1F028	2	M-55 (SHT 1)	C-2	B	A	1.00	GL	AO	O C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2	
HV-55-1F029	2	M-55 (SHT 1)	B-2	B	A	1.00	GL	AO	O C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2	
HV-55-1F041	2	M-55 (SHT 1)	E-3	B	A	16.00	BTF	MO	C O	AI	N	DIAG-MOV, SC/SO-RC, STC-RC	LSSC
HV-55-1F042	2	M-55 (SHT 1)	B-7	B	A	16.00	GA	MO	O O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC	PENT. X-209, LSSC
HV-55-1F071	2	M-55 (SHT 1)	C-6	B	A	4.00	GA	MO	O/C C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC	PENT. X-212, LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-55-1F072	2	M-55 (SHT 1)	C-6	B	A	12.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC		PENT. X-210, LSSC
HV-55-1F093	2	M-55 (SHT 1)	A-6	A	A	4.00	GA	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-228D, LSSC
HV-55-1F095	2	M-55 (SHT 1)	C-8	A	A	4.00	GA	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-228D, LSSC
HV-55-1F100	1	M-55 (SHT 1)	F-6	A	A	1.50	GL	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-11, LSSC
HV-55-1F105	2	M-55 (SHT 1)	F-4	A	A	8.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9A, LSSC
56-1F048	2	M-56 (SHT 1)	B-5	C	A	2.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q		
56-1F057	2	M-56 (SHT 1)	B-4		A	2.00	CK	SA	O/C	O	-	N	SKID		SKID MOUNTED CTP-IST-007
FV-56-111	2	M-56 (SHT 1)	G-3		A	10.00	GL	HO	C	O	C	N	SKID		SKID MOUNTED CTP-IST-007
FV-56-112	2	M-56 (SHT 1)	G-3		A	10.00	GL	HO	C	O/C	C	N	SKID		SKID MOUNTED CTP-IST-007
HV-56-1F059	2	M-56 (SHT 1)	D-6	B	A	2.00	GL	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSE-56-1D003	2	M-56 (SHT 1)	F-4	D	A	16.00	RPD	SA	C	O	-	N	DT-Y5		
PSE-56-1D004	2	M-56 (SHT 1)	H-4	D	A	16.00	RPD	SA	C	O	-	N	DT-Y5		
PSV-56-1F020	2	M-56 (SHT 1)	G-6	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-56-1F050	2	M-56 (SHT 1)	C-5	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
FV-DO-101A	2	M-57 (SHT 1)	C-7	A	A	4.00	GL	MO	C	O/C	AI		Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-26, LSSC
FV-DO-101B	2	M-57 (SHT 2)	C-7	A	A	4.00	GL	MO	C	O/C	AI		Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-25, LSSC
HV-57-104	2	M-57 (SHT 2)	E-7	A	A	18.00	BTF	AO	O/C	C	C		Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-202
HV-57-105	2	M-57 (SHT 2)	D-6	A	A	2.00	GL	MO	O/C	C	AI		Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-202, LSSC
HV-57-109	2	M-57 (SHT 1)	E-5	A	A	6.00	BTF	MO	O/C	C	AI		Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-25, X-201A, LSSC
HV-57-110A	2	M-57 (SHT 2)	E-8	B	A	1.00	GL	MO	C	O	AI		N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-110B	2	M-57 (SHT 1)	F-2	B	A	1.00	GL	MO	C	O	AI		N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-111	2	M-57 (SHT 2)	G-5	A	A	2.00	GL	MO	O/C	C	AI		Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-26, LSSC
HV-57-112	2	M-57 (SHT 2)	F-7	A	A	18.00	BTF	MO	O/C	C	AI		Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-202, LSSC
HV-57-114	2	M-57 (SHT 2)	F-6	A	A	24.00	BTF	AO	O/C	C	C		Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-26

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
HV-57-115	2	M-57 (SHT 2)	G-6	A	A	24.00	BTF	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-26, LSSC
HV-57-116	2	M-57 (SHT 1)	F-5	A	A	1.50	GL	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-62, LSSC
HV-57-117	2	M-57 (SHT 2)	G-5	A	A	2.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-26
HV-57-118	2	M-57 (SHT 2)	E-6	A	A	2.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-202
HV-57-121	2	M-57 (SHT 1)	D-5	A	A	6.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-25, X-201A
HV-57-123	2	M-57 (SHT 1)	D-4	A	A	24.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-25
HV-57-124	2	M-57 (SHT 1)	D-4	A	A	24.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-201A
HV-57-131	2	M-57 (SHT 1)	D-5	A	A	6.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-25, X-201A
HV-57-135	2	M-57 (SHT 1)	D-4	A	A	24.00	BTF	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-25 LSSC
HV-57-147	2	M-57 (SHT 1)	D-3	A	A	24.00	BTF	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-201A LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
HV-57-160A	3	M-57 (SHT 1)	G-5	B	A	6.00	GA	MO	O C AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-160B	3	M-57 (SHT 1)	G-5	B	A	6.00	GA	MO	O C AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-161	2	M-57 (SHT 2)	E-7	A	A	4.00	BTF	MO	C O/C AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-26 LSSC
HV-57-162	2	M-57 (SHT 2)	C-6	A	A	6.00	BTF	MO	C O/C AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-202 LSSC
HV-57-163	2	M-57 (SHT 1)	D-3	A	A	4.00	BTF	MO	C O/C AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-25 LSSC
HV-57-164	2	M-57 (SHT 1)	C-3	A	A	6.00	BTF	MO	C O/C AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-201A LSSC
HV-57-165	3	M-57 (SHT 1)	G-6	B	A	1.00	GL	MO	C O AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-166	2	M-57 (SHT 2)	C-7	A	A	6.00	BTF	MO	C O/C AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-202 LSSC
HV-57-167	3	M-57 (SHT 1)	F-6	B	A	1.00	GL	MO	C O AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-168A	2	M-57 (SHT 2)	E-8	B	A	1.50	GL	MO	C O AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
HV-57-168B	2	M-57 (SHT 1)	F-2	B	A	1.50	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-169	2	M-57 (SHT 1)	B-3	A	A	6.00	BTF	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-201A LSSC
PSV-57-137A-1	2	M-57 (SHT 2)	G-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-137A-2	2	M-57 (SHT 2)	G-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-137B-1	2	M-57 (SHT 2)	E-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-137B-2	2	M-57 (SHT 2)	E-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-137C-1	2	M-57 (SHT 2)	C-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-137C-2	2	M-57 (SHT 2)	C-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-137D-1	2	M-57 (SHT 2)	A-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-137D-2	2	M-57 (SHT 2)	A-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-57-162	2	M-57 (SHT 2)	C-7	C	A	1.00	RV	SA	C O/C -	N	RT-Y10		
PSV-57-164	2	M-57 (SHT 1)	A-3	C	A	1.00	RV	SA	C O/C -	N	RT-Y10		
SV-57-101	2	M-57 (SHT 1)	B-6	B	A	2.00	GL	SO	O O/C C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-220B
SV-57-132	2	M-57 (SHT 1)	E-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28A-2
SV-57-133	2	M-57 (SHT 1)	E-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28B
SV-57-134	2	M-57 (SHT 1)	E-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28A-3
SV-57-139	2	M-57 (SHT 2)	G-6	B	A	0.50	GL	SO	O C C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-26
SV-57-141	2	M-57 (SHT 1)	A-5	A	A	0.50	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-221A
SV-57-142	2	M-57 (SHT 1)	A-4	A	A	0.50	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28A-2
SV-57-143	2	M-57 (SHT 1)	A-4	A	A	0.50	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
SV-57-144	2	M-57 (SHT 1)	A-4	A	A	0.50	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28A-3
SV-57-145	2	M-57 (SHT 1)	B-3	A	A	0.50	GL	SO	O C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-26
SV-57-146A	2	M-57 (SHT 2)	A-6	B	P	0.50	GL	SO	C C C	N	PI-Y2		
SV-57-146B	2	M-57 (SHT 1)	A-5	B	P	0.50	GL	SO	C C C	N	PI-Y2		
SV-57-147A	2	M-57 (SHT 2)	A-6	B	P	0.50	GL	SO	C C C	N	PI-Y2		
SV-57-147B	2	M-57 (SHT 1)	A-5	B	P	0.50	GL	SO	C C C	N	PI-Y2		
SV-57-150	2	M-57 (SHT 1)	D-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-62
SV-57-159	2	M-58 (SHT 1)	A-5	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-62
SV-57-181	2	M-58 (SHT 1)	C-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-221A
SV-57-183	2	M-58 (SHT 2)	C-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-221B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
SV-57-184	2	M-58 (SHT 2)	B-7	A	A	0.50	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-221A
SV-57-185	2	M-58 (SHT 2)	B-7	A	A	0.50	GL	SO	O	C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-202
SV-57-186	2	M-58 (SHT 2)	B-7	A	A	0.50	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-221B
SV-57-190	2	M-58 (SHT 2)	B-6	A	A	1.00	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-220A
SV-57-191	2	M-58 (SHT 2)	C-6	A	A	2.00	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-220A
SV-57-195	2	M-58 (SHT 2)	B-6	A	A	0.50	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28B
HV-57V-180	2	M-58 (SHT 8)	E-7	A	P	12.00	BTF	AO	C	C	C	Y	LTJ-AJ		PENT. X-201B
HV-57V-181	2	M-58 (SHT 8)	E-6	A	P	12.00	BTF	AO	C	C	C	Y	LTJ-AJ		PENT. X-201B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
59-1001	2	M-59 (SHT 1)	B-5	A/C	A	1.00	CK	SA	O/C	C	-	Y	LTJ-AJ, BDO-RR, CC-RR	59-ROJ-1 PENT. X-218
59-1005A	2	M-59 (SHT 1)	E-5	A/C	A	1.00	CK	SA	O/C	C	-	Y	LTJ-AJ, BDO-RR, CC-RR	59-ROJ-1 PENT. X-40H-1
59-1005B	2	M-59 (SHT 1)	F-5	A/C	A	1.00	CK	SA	O/C	C	-	Y	LTJ-AJ, BDO-RR, CC-RR	59-ROJ-1 PENT. X-3B
59-1023E	3	M-59 (SHT 1)	H-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1 As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min
59-1023H	3	M-59 (SHT 1)	G-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1 As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min
59-1023K	3	M-59 (SHT 1)	H-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1 As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min
59-1023M	3	M-59 (SHT 1)	G-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1 As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID (SHT 1)	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
59-1023S	3	M-59 (SHT 1)	G-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1	As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min
59-1024E	3	M-59 (SHT 1)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-1024H	3	M-59 (SHT 1)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-1024K	3	M-59 (SHT 1)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-1024M	3	M-59 (SHT 1)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-1024S	3	M-59 (SHT 1)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-1056	2	M-59 (SHT 1)	D-5	A/C	A	1.00	CK	SA	O/C	C	-	Y	LTJ-AJ, BDO-RR, CC-RR	59-ROJ-1	PENT. X-35B
59-1112	2	M-59 (SHT 1)	H-4	A/C	A	1.00	CK	SA	O/C	O/C	-	Y	LTJ-AJ, CC-RR, CO-RR	59-ROJ-1	PENT. X-3D-2
59-1128	2	M-59 (SHT 1)	G-4	A/C	A	1.00	CK	SA	O/C	O/C	-	Y	LTJ-AJ, CC-RR, CO-RR	59-ROJ-1	PENT. X-27A
59-1131E	3	M-59 (SHT 1)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
59-1131H	3	M-59 (SHT 1)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	
59-1131K	3	M-59 (SHT 1)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	
59-1131M	3	M-59 (SHT 1)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	
59-1131S	3	M-59 (SHT 1)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	
HV-59-101	2	M-59 (SHT 1)	C-5	A	A	1.50	GL	MO	O	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-40F-2 LSSC
HV-59-102	2	M-59 (SHT 1)	C-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	59-VCS-1	PENT. X-40F-2
HV-59-129A	2	M-59 (SHT 1)	E-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-40H-1
HV-59-129B	2	M-59 (SHT 1)	F-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-3B
HV-59-131	2	M-59 (SHT 1)	D-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35B
HV-59-135	2	M-59 (SHT 1)	B-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-218

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-59-140	SR	M-59 (SHT 2)	G-5	B	A	1.00	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-59-141	SR	M-59 (SHT 2)	G-4	B	A	1.00	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-59-142	SR	M-59 (SHT 2)	H-5	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-59-143	SR	M-59 (SHT 2)	H-6	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-59-151A	2	M-59 (SHT 1)	G-5	A	A	1.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-27A LSSC
HV-59-151B	2	M-59 (SHT 1)	H-5	A	A	1.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-3D-2 LSSC
PSV-59-152A	3	M-59 (SHT 1)	F-7	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-59-152B	3	M-59 (SHT 1)	H-7	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-59-153A	3	M-59 (SHT 1)	F-7	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-59-153B	3	M-59 (SHT 1)	H-7	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
SV-59-150A	3	M-59 (SHT 1)	G-6	B	A	1.00	GL	SO	O	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
SV-59-150B	3	M-59 (SHT 1)	H-6	B	A	1.00	GL	SO	O	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
SV-59-152A	3	M-59 (SHT 1)	F-6	B	A	1.00	GL	SO	C	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
SV-59-152B	3	M-59 (SHT 1)	H-6	B	A	1.00	GL	SO	C	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2		
XV-59-140A	2	M-59 (SHT 1)	D-6	D	A	.375	SHR	EXP	O	C	AI	DT-TS		PENT. X-35C
XV-59-140B	2	M-59 (SHT 1)	D-6	D	A	.375	SHR	EXP	O	C	AI	DT-TS		PENT. X-35D
XV-59-140C	2	M-59 (SHT 1)	D-6	D	A	.375	SHR	EXP	O	C	AI	DT-TS		PENT. X-35E
XV-59-140D	2	M-59 (SHT 1)	D-6	D	A	.375	SHR	EXP	O	C	AI	DT-TS		PENT. X-35F
XV-59-140E	2	M-59 (SHT 1)	D-6	D	A	.375	SHR	EXP	O	C	AI	DT-TS		PENT. X-35G
XV-59-141A	2	M-59 (SHT 1)	D-6	A	A	.375	BAL	SO	O/C	C	C	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35C

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
XV-59-141B	2	M-59 (SHT 1)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35D
XV-59-141C	2	M-59 (SHT 1)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35E
XV-59-141D	2	M-59 (SHT 1)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35F
XV-59-141E	2	M-59 (SHT 1)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35G

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 60 PRIMARY CONTAINMENT LEAK TESTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
60-1057	2	M-60 (SHT 1)	F-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-40G-1
60-1058	2	M-60 (SHT 1)	F-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-40G-1
60-1070	2	M-60 (SHT 1)	D-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-40G-2
60-1071	2	M-60 (SHT 1)	D-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-40G-2
60-1073	2	M-60 (SHT 1)	C-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-227
60-1074	2	M-60 (SHT 1)	C-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-227

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 61 LIQUID RADWASTE COLLECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
HV-61-110	2	M-61 (SHT 1)	F-5	B	A	4.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		PENT. X-231A
HV-61-111	2	M-61 (SHT 1)	F-4	B	A	4.00	GA	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		PENT. X-231A
HV-61-112	2	M-61 (SHT 1)	G-4	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-230B LSSC
HV-61-130	2	M-61 (SHT 1)	B-5	B	A	4.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		PENT. X-231B
HV-61-131	2	M-61 (SHT 1)	B-4	B	A	4.00	GA	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		PENT. X-231B
HV-61-132	2	M-61 (SHT 1)	C-4	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-230B LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 87 DRYWELL CHILLED WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
HV-87-120A	NC	M-87 (SHT 4)	C-4	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-53. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-120B	NC	M-87 (SHT 4)	B-4	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-55. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-121A	NC	M-87 (SHT 4)	C-4	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-54. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-121B	NC	M-87 (SHT 4)	A-4	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-56. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-122	2	M-87 (SHT 4)	B-5	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-55. LSSC
HV-87-123	2	M-87 (SHT 4)	A-5	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-56. LSSC
HV-87-124A	NC	M-87 (SHT 4)	B-4	A	P	8.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-54. Class 2 equivalent per FSAR 3.2.2.g. LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 87 DRYWELL CHILLED WATER

VALVE NUMBER	CODE CLASS	P&ID COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-87-124B	NC	M-87 (SHT 4)	A-4	A	P	8.00	GA	MO	LC	C	AI	Y	LTJ-AJ	PENT. X-56. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-125A	NC	M-87 (SHT 4)	C-4	A	P	8.00	GA	MO	LC	C	AI	Y	LTJ-AJ	PENT. X-53. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-125B	NC	M-87 (SHT 4)	B-4	A	P	8.00	GA	MO	LC	C	AI	Y	LTJ-AJ	PENT. X-55. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-128	2	M-87 (SHT 4)	C-5	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC	PENT. X-53. LSSC
HV-87-129	2	M-87 (SHT 4)	C-5	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC	PENT. X-54. LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 1 AND COMMON

SYSTEM: 90 CONTROL STRUCTURE CHILLED WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
90-0013A	NC	M-90 (SHT 1)	F-3	C	A	6.00	CK	SA	O/C O	- N	BDC-Q, CO-Q		
90-0013B	NC	M-90 (SHT 1)	F-2	C	A	6.00	CK	SA	O/C O	- N	BDC-Q, CO-Q		
PSV-90-048A	NC	M-90 (SHT 1)	B-8	C	A	1.00	RV	SA	C O/C	- N	RT-Y10		
PSV-90-048B	NC	M-90 (SHT 1)	B-5	C	A	1.00	RV	SA	C O/C	- N	RT-Y10		
PSV-90-049A	NC	M-90 (SHT 1)	B-8	C	A	0.50	RV	SA	C O/C	- N	RT-Y10		
PSV-90-049B	NC	M-90 (SHT 1)	B-5	C	A	0.50	RV	SA	C O/C	- N	RT-Y10		
SV-90-045A	NC	M-90 (SHT 2)	G-3	B	A	1.50	GL	SO	O/C O/C	C N	SC/SO-Q, STC-Q, STO-Q, FC-Q		
SV-90-045B	NC	M-90 (SHT 2)	G-2	B	A	1.50	GL	SO	O/C O/C	C N	SC/SO-Q, STC-Q, STO-Q, FC-Q		
SV-90-047A	NC	M-90 (SHT 2)	E-3	B	A	1.00	GL	SO	O/C O/C	C N	SC/SO-Q, STC-Q, STO-Q, FC-Q		
SV-90-047B	NC	M-90 (SHT 2)	E-2	B	A	1.00	GL	SO	O/C O/C	C N	SC/SO-Q, STC-Q, STO-Q, FC-Q		

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 01 MAIN STEAM

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
HV-01-208	2	M-01 (SHT 3)	H-7	B	A	6.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-01-209	2	M-01 (SHT 3)	C-8	B	A	6.00	GA	MO	C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-01-211	2	M-01 (SHT 3)	D-7	B	A	8.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-01-250	2	M-01 (SHT 3)	D-8	B	A	4.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
11-2007	3	M-11 (SHT 4)	E-7	C	A	6.00	CK	SA	C O	- N	CO-Q, BDC-CM		Condition Monitoring
11-2009	3	M-11 (SHT 5)	C-4	C	A	6.00	CK	SA	C O	- N	CO-Q, BDC-CM		Condition Monitoring
11-2011	3	M-11 (SHT 4)	E-7	A/C	A	8.00	CK	SA	O/C C	- N	BDO-Q, CC-Q, LTP-Y2		
11-2012	3	M-11 (SHT 5)	C-3	A/C	A	8.00	CK	SA	O/C C	- N	BDO-Q, CC-Q, LTP-Y2		
HV-11-201A	3	M-11 (SHT 4)	F-5	B	A	2.00	BAL	AO	C O	O N	SC/SO-Q, STO-Q, FO-Q		
HV-11-201B	3	M-11 (SHT 5)	F-6	B	A	2.00	BAL	AO	C O	O N	SC/SO-Q, STO-Q, FO-Q		
HV-11-201C	3	M-11 (SHT 4)	G-5	B	A	2.00	BAL	AO	C O	O N	SC/SO-Q, STO-Q, FO-Q		
HV-11-201D	3	M-11 (SHT 5)	G-6	B	A	2.00	BAL	AO	C O	O N	SC/SO-Q, STO-Q, FO-Q		
HV-11-201E	3	M-11 (SHT 4)	G-5	B	A	2.00	BAL	AO	C O	O N	SC/SO-Q, STO-Q, FO-Q		
HV-11-201F	3	M-11 (SHT 5)	G-6	B	A	2.00	BAL	AO	C O	O N	SC/SO-Q, STO-Q, FO-Q		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-201G	3	M-11 (SHT 4)	H-5	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-201H	3	M-11 (SHT 5)	H-6	B	A	2.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-204A	3	M-11 (SHT 4)	E-5	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-204B	3	M-11 (SHT 5)	C-5	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-204C	3	M-11 (SHT 4)	E-3	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-204D	3	M-11 (SHT 5)	C-7	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-204E	3	M-11 (SHT 4)	D-5	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-204F	3	M-11 (SHT 5)	C-5	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-204G	3	M-11 (SHT 4)	D-3	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		
HV-11-204H	3	M-11 (SHT 5)	C-7	B	A	4.00	BAL	AO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	SAF	POSITION	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-207	3	M-11 (SHT 1)	G-1	B	P	4.00	GA	MO	C	C	AI	N	N	PI-Y2		
HV-11-221	3	M-11 (SHT 4)	C-7	B	A	8.00	GA	AO	O	C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-223	3	M-11 (SHT 4)	C-7	B	A	8.00	GA	AO	O	C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-225	3	M-11 (SHT 5)	C-3	B	A	8.00	GA	AO	O	C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-226	3	M-11 (SHT 5)	C-3	B	A	8.00	GA	AO	O	C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-11-227	3	M-11 (SHT 4)	B-6	B	P	10.00	GA	AO	C	C	C	C	N	PI-Y2		
HV-11-228	3	M-11 (SHT 4)	D-5	B	P	10.00	GA	AO	C	C	C	C	N	PI-Y2		
HV-11-231B <u>Disabled</u>	3	M-11 (SHT 1)	D-3	B	P	6.00	SCK	MO	C	C	AI	N	N/A (See Bases Doc)			<u>Alt Supply valve</u> If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-231D <u>Disabled</u>	3	M-11 (SHT 1)	D-2	B	P	6.00	SCK	MO	C	C	AI	N	N/A (See Bases Doc)			<u>Alt Supply valve</u> If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-232A	3	M-11 (SHT 1)	D-4	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		
HV-11-232B <u>Disabled</u>	3	M-11 (SHT 1)	D-3	B	P	6.00	GA	MO	C	C	AI	N	N/A (See Bases Doc)		<u>Alt Return valve</u> If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-232C	3	M-11 (SHT 1)	D-4	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		
HV-11-232D <u>Disabled</u>	3	M-11 (SHT 1)	D-3	B	P	6.00	GA	MO	C	C	AI	N	N/A (See Bases Doc)		<u>Alt Return valve</u> If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-233A <u>Disabled</u>	3	M-11 (SHT 1)	D-4	B	P	6.00	SCK	MO	C	C	AI	N	N/A (See Bases Doc)		<u>Alt Supply valve</u> If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-233C <u>Disabled</u>	3	M-11 (SHT 1)	D-4	B	P	6.00	SCK	MO	C	C	AI	N	N/A (See Bases Doc)		<u>Alt Supply valve</u> If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 11 EMERGENCY SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-11-234A <u>Disabled</u>	3	M-11 (SHT 1)	D-4	B	P	6.00	GA	MO	C	C	AI	N	N/A (See Bases Doc)		Alt Return valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-234B	3	M-11 (SHT 1)	D-3	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		
HV-11-234C <u>Disabled</u>	3	M-11 (SHT 1)	D-4	B	P	6.00	GA	MO	C	C	AI	N	N/A (See Bases Doc)		Alt Return valve If placed in service, ET and PIV required. See ECR 01-00816 and A1328163-03.
HV-11-234D	3	M-11 (SHT 1)	D-3	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		
PSV-11-207A	3	M-11 (SHT 1)	C-4	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		
PSV-11-207B	3	M-11 (SHT 1)	C-3	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		
PSV-11-207C	3	M-11 (SHT 1)	C-4	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		
PSV-11-207D	3	M-11 (SHT 1)	C-2	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 12 RHR SERVICE WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-12-210	3	M-12 (SHT 1)	E-1	B	P	4.00	GA	MO	C	C	AI	N	PI-Y2		
HV-12-211	3	M-12 (SHT 1)	A-3	B	A	30.00	BTF	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-212	3	M-12 (SHT 1)	D-2	B	A	36.00	BTF	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-213	3	M-12 (SHT 1)	A-3	B	A	30.00	BTF	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-12-214	3	M-12 (SHT 1)	D-2	B	A	36.00	BTF	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 13 REACTOR ENCLOSURE COOLING WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-13-206	2	M-13 (SHT 2)	G-5	A	A	4.00	GA	MO	O	C	AI	Y	DIAG-MOV, SC/SO-RC, STC-RC, LTJ-AJ		PENT. X-23, LSSC
HV-13-207	2	M-13 (SHT 2)	H-7	A	A	4.00	GA	MO	O	C	AI	Y	DIAG-MOV, SC/SO-RC, STC-RC, LTJ-AJ		PENT. X-24, LSSC
HV-13-208	2	M-13 (SHT 2)	G-5	A	A	3.00	GA	MO	O	C	AI	Y	DIAG-MOV, SC/SO-RC, STC-RC, LTJ-AJ		PENT. X-23, LSSC
HV-13-209	2	M-13 (SHT 2)	G-5	A	P	3.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-23, Electrically disconnected.
HV-13-210	2	M-13 (SHT 2)	G-8	A	P	3.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-24, Electrically disconnected.
HV-13-211	2	M-13 (SHT 2)	G-7	A	A	3.00	GA	MO	O	C	AI	Y	DIAG-MOV, SC/SO-RC, STC-RC, LTJ-AJ		PENT. X-24, LSSC
PSV-13-202	3	M-13 (SHT 2)	H-7	C	A	1.00	RV	SA	C	O	-	N	TRT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 15 COMPRESSED AIR

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
15-2139	2	M-15 (SHT 29)	H-5	A	P	3.00	GA	M	LC	C	AI	Y	LTJ-AJ		PENT X-21
15-2140	2	M-15 (SHT 29)	H-5	A	P	3.00	GA	M	LC	C	AI	Y	LTJ-AJ		PENT X-21
15-2412A	NC	M-15 (SHT 29)	A-6	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 1
15-2412B	NC	M-15 (SHT 30)	G-2	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 2
15-2412C	NC	M-15 (SHT 30)	E-2	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-Q, CC-Q		INFLATABLE SEAL NO. 3
15-2412D	NC	M-15 (SHT 30)	B-2	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-Q, CC-Q		INFLATABLE SEAL NO. 4
15-2412G	NC	M-15 (SHT 29)	C-6	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 7
15-2412K	NC	M-15 (SHT 30)	C-4	A/C	A	0.75	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 10
15-2413A	NC	M-15 (SHT 29)	A-6	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 1
15-2413B	NC	M-15 (SHT 30)	G-1	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 2

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 15 COMPRESSED AIR

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
15-2413C	NC	M-15 (SHT 30)	E-1	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 3
15-2413D	NC	M-15 (SHT 30)	B-1	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 4
15-2413G	NC	M-15 (SHT 29)	D-6	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 7
15-2413K	NC	M-15 (SHT 30)	C-4	A	P	0.75	3W	M	O	O	AI	N	LTP-Y2		INFLATABLE SEAL NO. 10
15-2886A	NC	M-15 (SHT 29)	B-7	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 1
15-2886B	NC	M-15 (SHT 30)	G-1	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 2
15-2886C	NC	M-15 (SHT 30)	E-1	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-Q, CC-Q		INFLATABLE SEAL NO. 3
15-2886D	NC	M-15 (SHT 30)	C-1	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-Q, CC-Q		INFLATABLE SEAL NO. 4
15-2886G	NC	M-15 (SHT 29)	D-6	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 7
15-2886K	NC	M-15 (SHT 30)	C-4	A/C	A	0.50	CK	SA	C	C	-	N	LTP-Y2, BDO-RR, CC-RR	15-ROJ-1	INFLATABLE SEAL NO. 10

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 15 COMPRESSED AIR

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-15-249A	NC	M-15 (SHT 29)	B-6	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10		INFLATABLE SEAL NO. 1
PSV-15-249B	NC	M-15 (SHT 30)	G-2	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10		INFLATABLE SEAL NO. 2
PSV-15-249C	NC	M-15 (SHT 30)	F-2	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10		INFLATABLE SEAL NO. 3
PSV-15-249D	NC	M-15 (SHT 30)	C-2	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10		INFLATABLE SEAL NO. 4
PSV-15-249G	NC	M-15 (SHT 29)	D-6	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10		INFLATABLE SEAL NO. 7
PSV-15-249K	NC	M-15 (SHT 30)	C-4	A/C	A	0.50	RV	SA	C	O/C	-	N	LTP-Y2, RT-Y10		INFLATABLE SEAL NO. 10

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
20-2046A	3	M-20 (SHT 9)	D-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2046B	3	M-20 (SHT 9)	D-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2046C	3	M-20 (SHT 9)	D-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2046D	3	M-20 (SHT 9)	D-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2054A	3	M-20 (SHT 9)	F-6		A	0.75	CK	SA	O/C	C	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2054B	3	M-20 (SHT 9)	F-6		A	0.75	CK	SA	O/C	C	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2054C	3	M-20 (SHT 9)	F-6		A	0.75	CK	SA	O/C	C	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2054D	3	M-20 (SHT 9)	F-6		A	0.75	CK	SA	O/C	C	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2055A	3	M-20 (SHT 9)	G-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2055B	3	M-20 (SHT 9)	G-6		A	0.75	CK	SA	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
20-2055C	3	M-20 (SHT 9)	G-6		A	0.75	CK	SA	O/C O	- N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2055D	3	M-20 (SHT 9)	G-6		A	0.75	CK	SA	O/C O	- N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2118A	3	M-20 (SHT 12)	B-5	C	A	1.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		
20-2118B	3	M-20 (SHT 12)	B-5	C	A	1.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		
20-2118C	3	M-20 (SHT 12)	B-5	C	A	1.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		
20-2118D	3	M-20 (SHT 12)	B-5	C	A	1.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		
20-2122A	3	M-20 (SHT 12)	B-4	C	A	1.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		
20-2122B	3	M-20 (SHT 12)	B-4	C	A	1.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		
20-2122C	3	M-20 (SHT 12)	B-4	C	A	1.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		
20-2122D	3	M-20 (SHT 12)	B-4	C	A	1.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
20-2162A	3	M-20 (SHT 9)	H-6		A	0.75	CK	SA	O/C O -	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2162B	3	M-20 (SHT 9)	H-6		A	0.75	CK	SA	O/C O -	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2162C	3	M-20 (SHT 9)	H-6		A	0.75	CK	SA	O/C O -	N	SKID-Q		SKID MOUNTED CTP-IST-007
20-2162D	3	M-20 (SHT 9)	H-6		A	0.75	CK	SA	O/C O -	N	SKID-Q		SKID MOUNTED CTP-IST-007
92-2302A	3	M-20 (SHT 12)	F-5		A	1.5	DIA	AO	C O O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-2302B	3	M-20 (SHT 12)	F-5		A	1.5	DIA	AO	C O O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-2302C	3	M-20 (SHT 12)	F-5		A	1.5	DIA	AO	C O O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-2302D	3	M-20 (SHT 12)	F-5		A	1.5	DIA	AO	C O O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-2303A	3	M-20 (SHT 12)	F-5		A	1.5	DIA	AO	C O O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	ACT NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
92-2303B	3	M-20 (SHT 12)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-2303C	3	M-20 (SHT 12)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
92-2303D	3	M-20 (SHT 12)	F-5		A	1.5	DIA	AO	C	O	O	N	SKID-Q		A1498736-08 SKID MOUNTED CTP-IST-007
PSV-020-228A-1	3	M-20 (SHT 12)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-228A-2	3	M-20 (SHT 12)	C-3	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-228B-1	3	M-20 (SHT 12)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-228B-2	3	M-20 (SHT 12)	C-3	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-228C-1	3	M-20 (SHT 12)	C-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-020-228C-2	3	M-20 (SHT 12)	C-3	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 20 FUEL & DIESEL OIL STORAGE, TRANSFER & AIR STARTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-020-228D-1	3	M-20 (SHT 12)	C-5	C	A	0.75	RV	SA	C O/C -	N	RT-Y10		
PSV-020-228D-2	3	M-20 (SHT 12)	C-3	C	A	0.75	RV	SA	C O/C -	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION –UNIT 2

SYSTEM: 26 PLANT PROCESS RADIATION MONITORING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	POSITION SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
SV-26-290A	2	M-26 (SHT 8)	G-3	A	A	1.00	GL	SO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2	PENT. X-117B-1
SV-26-290B	2	M-26 (SHT 8)	F-3	A	A	1.00	GL	SO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2	PENT. X-117B-1
SV-26-290C	2	M-26 (SHT 8)	G-4	A	A	1.00	GL	SO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2	PENT. X-117B-2
SV-26-290D	2	M-26 (SHT 8)	F-4	A	A	1.00	GL	SO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2	PENT. X-117B-2

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
41-2016	1	M-41 (SHT 4)	F-4	A	P	4.00	GL	M	LC	C	AI	Y	LTJ-AJ		PENT. X-44
41-2017	1	M-41 (SHT 4)	F-4	A	P	4.00	GL	M	LC	C	AI	Y	LTJ-AJ		PENT. X-44
41-2036A	1	M-41 (SHT 4)	D-5	A/C	A	1.00	CK	SA	C	O/C	-	Y	LTJ-AJ, CC-CS, CO-CS	41-VCS-4	PENT. X-9A
41-2036B	1	M-41 (SHT 4)	B-4	A/C	A	1.00	CK	SA	C	O/C	-	Y	LTJ-AJ, CC-CS, CO-CS	41-VCS-4	PENT. X-9B
41-2F010A	1	M-41 (SHT 4)	D-4	A/C	A	24.00	CK	SA	O	O/C	-	Y	LTJ-AJ, CC-RR, CO-Q	41-ROJ-1	PENT. X-9A
41-2F010B	1	M-41 (SHT 4)	C-4	A/C	A	24.00	CK	SA	O	O/C	-	Y	LTJ-AJ, CC-RR, CO-Q	41-ROJ-1	PENT. X-9B
41-2F024A	3	M-41 (SHT 5)	G-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-3	
41-2F024B	3	M-41 (SHT 5)	G-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-3	
41-2F024C	3	M-41 (SHT 5)	G-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-3	
41-2F024D	3	M-41 (SHT 5)	G-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	41-ROJ-3	

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
41-2F029A	3	M-41 (SHT 5)	H-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-CS, CC-CS	41-VCS-5	
41-2F029B	3	M-41 (SHT 5)	H-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-CS, CC-CS	41- VCS-5	
41-2F029C	3	M-41 (SHT 5)	H-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-CS, CC-CS	41- VCS-5	
41-2F029D	3	M-41 (SHT 5)	H-4	C	A	1.50	CK	SA	O/C	C	-	N	BDO-CS, CC-CS	41- VCS-5	
41-2F036E	3	M-41 (SHT 5)	H-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
41-2F036H	3	M-41 (SHT 5)	H-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
41-2F036K	3	M-41 (SHT 5)	G-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
41-2F036M	3	M-41 (SHT 5)	G-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
41-2F036S	3	M-41 (SHT 5)	G-8	C	A	1.50	CK	SA	O/C	O/C	-	N	CC-RR, CO-RR	41-ROJ-2	
HV-41-209A	2	M-41 (SHT 4)	D-7	A	P	16.00	GA	MO	LC	C	AI	Y	LTJ-AJ, PI-Y2		PENT. X-9A LSSC

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-41-209B	2	M-41 (SHT 4)	D-7	A	P	16.00	GA	MO	LC	C	AI	Y	LTJ-AJ, PI-Y2		PENT. X-9B LSSC
HV-41-230A	1	M-41 (SHT 4)	B-5	A	A	1.50	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9B LSSC
HV-41-230B	1	M-41 (SHT 4)	C-5	A	A	1.50	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9A LSSC
HV-41-233A	1	M-41 (SHT 4)	B-5	A	A	1.50	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9A LSSC
HV-41-233B	1	M-41 (SHT 4)	B-5	A	A	1.50	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-9B LSSC
HV-41-240	NC	M-41 (SHT 2)	D-3	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-241	NC	M-41 (SHT 2)	D-3	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-242	NC	M-41 (SHT 5)	D-2	B	A	3.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-243	NC	M-41 (SHT 5)	D-2	B	A	3.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-2F001	1	M-41 (SHT 4)	H-3	B	P	2.00	GL	MO	C	C	AI	N	PI-Y2		LSSC

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-41-2F002	1	M-41 (SHT 4)	H-3	B	P	2.00	GL	MO	C	C	AI	N	PI-Y2		LSSC
HV-41-2F016	1	M-41 (SHT 5)	D-5	A	A	3.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-8 LSSC
HV-41-2F019	1	M-41 (SHT 5)	D-5	A	A	3.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-8 LSSC
HV-41-2F021	NC	M-41 (SHT 5)	D-1	B	A	3.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-41-2F022A	1	M-41 (SHT 5)	F-5	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7A
HV-41-2F022B	1	M-41 (SHT 5)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7B
HV-41-2F022C	1	M-41 (SHT 5)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7C
HV-41-2F022D	1	M-41 (SHT 5)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7D
HV-41-2F028A	1	M-41 (SHT 5)	F-5	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7A
HV-41-2F028B	1	M-41 (SHT 5)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7B

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-41-2F028C	1	M-41 (SHT 5)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7C
HV-41-2F028D	1	M-41 (SHT 5)	C-6	A	A	26.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	41-VCS-2	PENT. X-7D
HV-41-2F032A	2	M-41 (SHT 4)	D-7	A/C	A	24.00	SCK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-RR, PI-Y2	41-ROJ-1	PENT. X-9A
HV-41-2F032B	2	M-41 (SHT 4)	C-8	A/C	A	24.00	SCK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-RR, PI-Y2	41-ROJ-1	PENT. X-9B
HV-41-2F074A	1	M-41 (SHT 4)	D-4	A/C	A	24.00	TC	SA	O	O/C	-	Y	LTJ-AJ, CO-Q, CC-CS, PI-Y2	41-VCS-1	PENT. X-9A
HV-41-2F074B	1	M-41 (SHT 4)	C-4	A/C	A	24.00	TC	SA	O	O/C	-	Y	LTJ-AJ, CO-Q, CC-CS, PI-Y2	41-VCS-1	PENT. X-9B
HV-41-2F084	1	M-41 (SHT 5)	B-5	A	A	1.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-RR, STC-RR, FC-RR, PI-Y2	41-ROJ-6	PENT. X-43B
HV-41-2F085	1	M-41 (SHT 5)	B-4	A	A	1.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-43B
HV-C-41-2F020	2	M-41 (SHT 5)	D-3	B	A	2.00	GL	MO	O	O	AI	N	DIAG-MOV, SC-RC, SO-RC		
PSV-41-212	1	M-41 (SHT 4)	E-5	A/C	A	0.75	RV	SA	C	O/C	-	Y	LTJ-AJ, RT-Y5		PENT. X-44

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-234A	2	M-41 (SHT 4)	B-6	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-41-234B	2	M-41 (SHT 4)	C-5	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F013A	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013B	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013C	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013D	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013E	1	M-41 (SHT 5)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		
PSV-41-2F013F	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013G	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013H	1	M-41 (SHT 5)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-2F013J	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013K	1	M-41 (SHT 5)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		
PSV-41-2F013L	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013M	1	M-41 (SHT 5)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		
PSV-41-2F013N	1	M-41 (SHT 5)	F-7	C	A	6.00	SV	SA	C	O/C	-	N	RT-TS		
PSV-41-2F013S	1	M-41 (SHT 5)	G-7	C	A	6.00	SV	DF	C	O/C	-	N	RT-TS		
PSV-41-2F037A	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F037B	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F037C	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F037D	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-2F037E	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037F	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037G	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037H	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037J	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037K	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037L	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037M	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037N	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F037S	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-2F097A	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097B	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097C	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097D	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097E	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097F	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097G	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097H	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097J	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		
PSV-41-2F097K	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 41 NUCLEAR BOILER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-41-2F097L	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F097M	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F097N	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		
PSV-41-2F097S	3	M-41 (SHT 5)	B-6	C	A	6.00	VB	SA	C O/C -	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 42 NUCLEAR BOILER VESSEL INSTRUMENTATION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
42-2044A	2	M-42 (SHT 6)	C-6	A/C	A	0.50	CK	SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-67B
42-2044B	2	M-42 (SHT 6)	E-6	A/C	A	0.50	CK	SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-65A
42-2044C	2	M-42 (SHT 6)	F-6	A/C	A	0.50	CK	SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-65B
42-2044D	2	M-42 (SHT 6)	G-6	A/C	A	0.50	CK	SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-67A
42-2046A	2	M-42 (SHT 6)	C-5	A/C	A	0.50	CK	SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-67B
42-2046B	2	M-42 (SHT 6)	E-5	A/C	A	0.50	CK	SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-65A
42-2046C	2	M-42 (SHT 6)	F-5	A/C	A	0.50	CK	SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-65B
42-2046D	2	M-42 (SHT 6)	G-5	A/C	A	0.50	CK	SA	O	C	-	N	LTP-Y2, BDO-RR, CC-RR	42-ROJ-1	PENT. X-67A
HV-42-247A	1	M-42 (SHT 3)	B-6	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-30B-1 LSSC
HV-42-247B	1	M-42 (SHT 3)	B-3	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-50A LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 42 NUCLEAR BOILER VESSEL INSTRUMENTATION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-42-247C	1	M-42 (SHT 3)	A-6	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-22 LSSC
HV-42-247D	1	M-42 (SHT 3)	A-3	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-40E LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 43 REACTOR RECIRCULATION PUMP															
VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
43-2004A	1	M-43 (SHT 3)	C-7	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-RR	43-ROJ-1	PENT. X-61-1
43-2004B	1	M-43 (SHT 3)	B-7	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-RR	43-ROJ-1	PENT. X-61-2
HV-43-2F019	1	M-43 (SHT 3)	G-4	A	A	1.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-RR, STC-RR, FC-RR, PI-Y2	43-ROJ-2	PENT. X-28A-1
HV-43-2F020	1	M-43 (SHT 3)	G-2	A	A	1.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-28A-1

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 44 REACTOR WATER CLEANUP

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
HV-44-2F001	1	M-44 (SHT 3)	E-7	A	A	6.00	GA	MO	O	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-CS, STC-CS	44-VCS-1	PENT. X-14 HSSC
HV-44-2F004	1	M-44 (SHT 3)	E-6	A	A	6.00	GA	MO	O	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-CS, STC-CS	44-VCS-1	PENT. X-14 HSSC
HV-44-2F039	2	M-44 (SHT 4)	H-7	A/C	A	4.00	TCK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-CS	44-VCS-2	PENT. X-9A, X-9B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 46 CONTROL ROD DRIVE HYDRAULIC – PART A

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
46-2101	2	M-46 (SHT 2)	E-2	A/C	A	2.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-37A
46-2102	2	M-46 (SHT 2)	E-2	A/C	A	2.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-37B
46-2108	2	M-46 (SHT 2)	F-6	A/C	A	2.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-37C
46-2109	2	M-46 (SHT 2)	F-5	A/C	A	2.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-37D
46-2115	2	M-46 (SHT 2)	F-2	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-CS	46-VCS-1	PENT. X-38A
46-2116	2	M-46 (SHT 2)	F-3	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-Q, CC-CS	46-VCS-1	PENT. X-38B
46-2122	2	M-46 (SHT 2)	G-6	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-38C
46-2123	2	M-46 (SHT 2)	G-6	A/C	A	1.00	CK	SA	O	C	-	Y	LTJ-AJ, BDO-CS, CC-CS	46-VCS-1	PENT. X-38D
HV-46-225	NC	M-46 (SHT 2)	C-3	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-46-226	NC	M-46 (SHT 2)	C-3	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 46 CONTROL ROD DRIVE HYDRAULIC – PART A

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-46-227	NC	M-46 (SHT 2)	C-4	B	A	1.00	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-46-228	NC	M-46 (SHT 2)	C-4	B	A	1.00	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 47 CONTROL ROD DRIVE HYDRAULIC – PART B

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
47-2-14(x-y)	2	M-47 (SHT 2)	D-6	C	A	0.75	CK	SA	C	O	-	N	BDC-TS, CO-TS	47-VRR-2	Typ. of 185. GL 89-04, Pos. 7
47-2-15(x-y)	2	M-47 (SHT 2)	B-4	A/C	A	0.50	CK	SA	O/C	C	-	N	LTP-Y2, BDO-CS, CC-CS	47-VCS-1	Typ. of 185.
47-2-38(x-y)	2	M-47 (SHT 2)	B-6	C	A	0.50	CK	SA	O	C	-	N	BDO-Q, CC-Q		Typ. of 185.
XV-47-2-26(x-y)	2	M-47 (SHT 2)	B-5	B	A	0.50	GL	AO	C	O	O	N	SC/SO-TS, STO-TS, FO-TS, PI-Y2	47-VRR-2	Typ. of 185. GL 89-04, Pos. 7
XV-47-2-27(x-y)	2	M-47 (SHT 2)	D-6	B	A	0.75	GL	AO	C	O	O	N	SC/SO-TS, STO-TS, FO-TS, PI-Y2	47-VRR-2	Typ. of 185. GL 89-04, Pos. 7
XV-47-2F010	2	M-47 (SHT 2)	H-4	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q PI-Y2		PENT. X-38
XV-47-2F011	2	M-47 (SHT 2)	D-6	A	A	2.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q PI-Y2		PENT. X-38
XV-47-2F180	2	M-47 (SHT 2)	H-4	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q PI-Y2		PENT. X-38
XV-47-2F181	2	M-47 (SHT 2)	D-6	A	A	2.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q PI-Y2		PENT. X-38

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 48 STANDBY LIQUID CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
48-2027	1	M-48 (SHT 2)	G-8	C	A	2.00	CK	SA	C	O	-	N BDC-RR, CO-RR	48-ROJ-1	
48-2F007	1	M-48 (SHT 2)	F-8	A/C	A	2.00	CK	SA	C	O/C	-	Y LTJ-AJ, CC-RR, CO-RR	48-ROJ-1	PENT. X-42 & 116
48-2F033A	2	M-48 (SHT 2)	E-6	C	A	1.50	CK	SA	C	O/C	-	N CC-Q, CO-Q		
48-2F033B	2	M-48 (SHT 2)	C-6	C	A	1.50	CK	SA	C	O/C	-	N CC-Q, CO-Q		
48-2F033C	2	M-48 (SHT 2)	B-6	C	A	1.50	CK	SA	C	O/C	-	N CC-Q, CO-Q		
48-2F036	1	M-48 (SHT 2)	F-8	B	P	2.00	GL	M	LO	O	AI	N PI-Y2		
HV-48-2F006A	1	M-48 (SHT 2)	E-8	A/C	A	2.00	SCK	MO	C	O/C	AI	Y LTJ-AJ, CC-Q, CO-RR, DIAG-MOV, SC/ISO-RC, STC-RC	48-ROJ-1	PENT. X-42 MO normally open. LSSC
HV-48-2F006B	1	M-48 (SHT 2)	D-8	A/C	A	2.00	SCK	MO	C	O/C	AI	Y LTJ-AJ, CC-Q, CO-RR, DIAG-MOV, SC/ISO-RC, STC-RC	48-ROJ-1	PENT. X-116 MO normally open. LSSC
PSV-48-2F029A	2	M-48 (SHT 2)	E-6	C	A	0.75	RV	SA	C	O/C	-	N RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 48 STANDBY LIQUID CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-48-2F029B	2	M-48 (SHT 2)	D-6	C	A	0.75	RV	SA	C O/C -	N	RT-Y10		
PSV-48-2F029C	2	M-48 (SHT 2)	B-6	C	A	0.75	RV	SA	C O/C -	N	RT-Y10		
XV-48-2F004A	2	M-48 (SHT 2)	E-7	D	A	1.50	SHR	EXP	C O AI	N	DT-TS		
XV-48-2F004B	2	M-48 (SHT 2)	C-7	D	A	1.50	SHR	EXP	C O AI	N	DT-TS		
XV-48-2F004C	2	M-48 (SHT 2)	B-7	D	A	1.50	SHR	EXP	C O AI	N	DT-TS		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 49 & 50 REACTOR CORE ISOLATION COOLING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
49-2017	2	M-49 (SHT 2)	A-8	C	A	3.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM		Condition Monitoring
49-2018	2	M-49 (SHT 2)	A-8	C	A	3.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM		Condition Monitoring
49-2032	2	M-49 (SHT 2)	C-3	C	A	1.50	CK	SA	C	O/C	-	N	CC-Q, CO-Q		
49-2033	2	M-49 (SHT 2)	C-3	C	A	1.50	CK	SA	C	O/C	-	N	CC-Q, CO-Q		
49-2F001	2	M-49 (SHT 2)	B-4	C	A	8.00	SCK	SA	O/C	O	-	N	BDC-CM, CO-Q, D&I-CM		Condition Monitoring
49-2F011	2	M-49 (SHT 2)	E-2	C	A	6.00	CK	SA	O/C	O	-	N	BDC-CM, CO-Q, D&I-CM		Condition Monitoring
49-2F014	2	M-49 (SHT 2)	D-3	C	A	6.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
49-2F028	2	M-49 (SHT 2)	B-2	C	A	1.00	CK	SA	C	C	-	N	BDO-Q, CC-CS	49-VCS-3	PENT. X-217
49-2F030	2	M-49 (SHT 2)	A-6	C	A	6.00	CK	SA	C	O	-	N	BDC-CM, CO-Q		Condition Monitoring
49-2F064	2	M-49 (SHT 2)	B-4	C	A	2.00	CK	SA	O/C	C	-	N	BDO-CS, CC-CS	49-VCS-4	

INSERTICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 49 & 50 REACTOR CORE ISOLATION COOLING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
49-2F065	2	M-49 (SHT 2)	B-4	C	A	2.00	CK	SA	O/C	C	-	N	BDO-CS, CC-CS	49-VCS-4	Condition Monitoring
49-2F068	2	M-49 (SHT 2)	A-8	C	A	3.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM		
49-2F081	2	M-49 (SHT 2)	A-8	C	A	3.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM		
HV-49-2F002	2	M-49 (SHT 2)	B-5	C	A	2.00	SCK	MO	O/C	C	AI	N	BDO-Q, CC-Q, DIAG-MOV, SC-RC, SO-RC, STC-RC		PENT. X-217 LSSC
HV-49-2F007	1	M-49 (SHT 2)	F-6	A	A	3.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- CS, STC-CS	49-VCS-1	PENT. X-10 HSSC
HV-49-2F008	1	M-49 (SHT 2)	F-5	A	A	3.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- Q, STC-Q		PENT. X-10 HSSC
HV-49-2F010	2	M-49 (SHT 2)	E-2	B	A	6.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-49-2F012	2	M-49 (SHT 2)	D-4	B	P	6.00	GA	MO	O	O	AI	N	PI-Y2		LSSC
HV-49-2F013	2	M-49 (SHT 2)	D-4	A	A	6.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-Q, STC-Q		PENT. X-9B HSSC
HV-49-2F019	2	M-49 (SHT 2)	C-5	B	A	2.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-216 LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 49 & 50 REACTOR CORE ISOLATION COOLING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
HV-49-2F022	2	M-49 (SHT 2)	E-4	B	A	4.00	GL	MO	O/C C	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-49-2F025	2	M-49 (SHT 2)	C-2	B	A	1.00	GL	AO	O C	C N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		
HV-49-2F026	2	M-49 (SHT 2)	B-2	B	A	1.00	GL	AO	O C	C N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		
HV-49-2F029	2	M-49 (SHT 2)	A-5	B	A	6.00	GA	MO	C O	AI N	DIAG-MOV, SC/SO-RC		LSSC
HV-49-2F031	2	M-49 (SHT 2)	A-6	B	A	6.00	GA	MO	C O/C	AI N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-214 LSSC
HV-49-2F060	2	M-49 (SHT 2)	C-5	B	A	8.00	GA	MO	O O/C	AI N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-215 LSSC
HV-49-2F076	1	M-49 (SHT 2)	E-5	A	A	1.50	GL	MO	O/C C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-10 LSSC
HV-49-2F080	2	M-49 (SHT 2)	A-7	A	A	3.00	GA	MO	O O/C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-241 LSSC
HV-49-2F084	2	M-49 (SHT 2)	C-8	A	A	3.00	GA	MO	O O/C	AI Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-241 LSSC
50-2F047	2	M-50 (SHT 2)	B-5	C	A	2.00	CK	SA	O/C C	- N	BDO-Q, CC-Q		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 49 & 50 REACTOR CORE ISOLATION COOLING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
FV-50-213	2	M-50 (SHT 2)	F-4		A	4.00	GL	HO	O/C	O	O	N	SKID-Q		SKID MOUNTED CTP-IST-007
HV-50-212	2	M-50 (SHT 2)	F-3		P	4.00	GL	MO	O/C	O	-	N	SKID-Q		SKID MOUNTED CTP-IST-007
HV-50-2F045	2	M-50 (SHT 2)	F-2	B	A	6.00	GL	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-50-2F046	2	M-50 (SHT 2)	D-7	B	A	2.00	GL	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
PSE-50-2D001	2	M-50 (SHT 2)	F-5	D	A	8.00	RPD	SA	C	O	-	N	DT-Y5		
PSE-50-2D002	2	M-50 (SHT 2)	H-5	D	A	8.00	RPD	SA	C	O	-	N	DT-Y5		
PSV-50-2F018	2	M-50 (SHT 2)	C-6	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
51-2032A	2	M-51 (SHT 5)	G-5	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-2032B	2	M-51 (SHT 7)	G-4	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-2115A	2	M-51 (SHT 5)	A-7	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
51-2115B	2	M-51 (SHT 7)	A-2	C	A	1.50	CK	SA	C	C	-	N	D&I-CM		Condition Monitoring
51-2115C	2	M-51 (SHT 5)	A-6	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
51-2115D	2	M-51 (SHT 7)	A-3	C	A	1.50	CK	SA	C	C	-	N	D&I-CM		Condition Monitoring
51-2116A	2	M-51 (SHT 5)	A-7	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
51-2116C	2	M-51 (SHT 5)	A-6	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
51-2200A	1	M-51 (SHT 5)	E-3	A/C	A	0.75	CK	SA	C	C	-	N	LTP-AJ, BDO-RR, CC-RR	GVR-8, 51-ROJ-3	
51-2200B	1	M-51 (SHT 7)	E-7	A/C	A	0.75	CK	SA	C	C	-	N	LTP-AJ, BDO-RR, CC-RR	GVR-8, 51-ROJ-3	

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
51-2F031A	2	M-51 (SHT 5)	B-6	C	A	18.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
51-2F031B	2	M-51 (SHT 7)	C-3	C	A	18.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
51-2F031C	2	M-51 (SHT 5)	B-6	C	A	18.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
51-2F031D	2	M-51 (SHT 7)	B-4	C	A	18.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
51-2F046A	2	M-51 (SHT 5)	C-5	C	A	4.00	CK	SA	O/C	O	-	N	D&I-CM		Condition Monitoring
51-2F046B	2	M-51 (SHT 7)	C-5	C	A	4.00	CK	SA	O/C	O	-	N	D&I-CM		Condition Monitoring
51-2F046C	2	M-51 (SHT 5)	C-5	C	A	4.00	CK	SA	O/C	O	-	N	D&I-CM		Condition Monitoring
51-2F046D	2	M-51 (SHT 7)	C-4	C	A	4.00	CK	SA	O/C	O	-	N	D&I-CM		Condition Monitoring
51-2F065A	1	M-51 (SHT 5)	F-1	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
51-2F065B	1	M-51 (SHT 7)	F-8	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
51-2F065C	1	M-51 (SHT 5)	F-1	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
51-2F065D	1	M-51 (SHT 7)	G-8	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
51-2F090A	2	M-51 (SHT 5)	G-4	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-2F090B	2	M-51 (SHT 7)	G-4	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-2F090C	2	M-51 (SHT 5)	G-5	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
51-2F090D	2	M-51 (SHT 7)	G-4	C	A	4.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
HV-51-205A	2	M-51 (SHT 5)	D-3	B	A	4.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-226A LSSC
HV-51-205B	2	M-51 (SHT 7)	D-6	B	A	4.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-226B LSSC
HV-51-225A	2	M-51 (SHT 5)	D-3	B	A	18.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-204A LSSC
HV-51-225B	2	M-51 (SHT 7)	D-6	B	A	18.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-204B LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-242A	1	M-51 (SHT 5)	F-2	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-45A
HV-51-242B	1	M-51 (SHT 7)	F-7	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-45B
HV-51-242C	1	M-51 (SHT 5)	F-2	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-45C
HV-51-242D	1	M-51 (SHT 7)	F-7	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-45D
HV-51-251A	1	M-51 (SHT 5)	E-3	A	P	1.50	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-13A
HV-51-251B	1	M-51 (SHT 7)	E-6	A	P	1.50	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVR-8	PENT. X-13B
HV-51-2F003A	2	M-51 (SHT 6)	F-5	B	P	18.00	GA	MO	O	O	AI	N	PI-Y2		
HV-51-2F003B	2	M-51 (SHT 8)	F-6	B	P	18.00	GA	MO	O	O	AI	N	PI-Y2		
HV-51-2F004A	2	M-51 (SHT 5)	C-3	B	A	24.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-203A LSSC
HV-51-2F004B	2	M-51 (SHT 7)	C-6	B	A	24.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-203B LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-2F004C	2	M-51 (SHT 5)	C-2	B	A	24.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-203C LSSC
HV-51-2F004D	2	M-51 (SHT 7)	C-7	B	A	24.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-203D LSSC
HV-51-2F006A	2	M-51 (SHT 5)	B-2	B	A	20.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F006B	2	M-51 (SHT 7)	B-7	B	A	20.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F007A	2	M-51 (SHT 5)	C-5	B	A	4.00	GA	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F007B	2	M-51 (SHT 7)	C-5	B	A	4.00	GA	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F007C	2	M-51 (SHT 5)	C-5	B	A	4.00	GA	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F007D	2	M-51 (SHT 7)	C-4	B	A	4.00	GA	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F008	1	M-51 (SHT 5)	E-3	A	A	20.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-RC, STC- RC	GVR-8	PENT. X-12 LSSC
HV-51-2F009	1	M-51 (SHT 7)	E-8	A	A	20.00	GA	MO	O/C	C	AI	N	LTP-AJ, DIAG-MOV, SC/SO-RC, STC-RC	GVR-8	PENT. X-12 LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-2F010A	2	M-51 (SHT 5)	D-6	B	A	18.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F010B	2	M-51 (SHT 7)	D-4	B	A	18.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F014A	3	M-51 (SHT 6)	C-7	B	A	20.00	GA	MO	O/C	O	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-2F014B	3	M-51 (SHT 8)	C-5	B	A	20.00	GA	MO	O/C	O	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-2F015A	1	M-51 (SHT 5)	E-3	A	A	12.00	GL	MO	O/C	C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-RC, STC- RC	GVR-8	PENT. X-13A LSSC
HV-51-2F015B	1	M-51 (SHT 7)	F-6	A	A	12.00	GL	MO	O/C	C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-RC, STC- RC	GVR-8	PENT. X-13B LSSC
HV-51-2F016A	2	M-51 (SHT 5)	G-7	B	A	16.00	GA	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-39A LSSC
HV-51-2F016B	2	M-51 (SHT 7)	G-3	B	A	16.00	GA	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-39B LSSC
HV-51-2F017A	1	M-51 (SHT 5)	F-3	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-CS, STC- CS	GVR-8, 51-VCS-1	PENT. X-45A HSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-2F017B	1	M-51 (SHT 7)	F-6	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-CS, STC- CS	GVRR-8, 51-VCS-1	PENT. X-45B HSSC
HV-51-2F017C	1	M-51 (SHT 5)	F-3	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-CS, STC- CS	GVRR-8, 51-VCS-1	PENT. X-45C HSSC
HV-51-2F017D	1	M-51 (SHT 7)	G-6	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, LTP-AJ, DIAG- MOV, SC/SO-CS, STC- CS	GVRR-8, 51-VCS-1	PENT. X-45D HSSC
HV-51-2F021A	2	M-51 (SHT 5)	G-3	A	A	16.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-39A LSSC
HV-51-2F021B	2	M-51 (SHT 7)	G-6	A	A	16.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-39B LSSC
HV-51-2F024A	2	M-51 (SHT 5)	D-4	B	A	18.00	GL	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-2F024B	2	M-51 (SHT 7)	D-5	B	A	18.00	GL	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-2F027A	2	M-51 (SHT 5)	D-3	A	A	6.00	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-205A LSSC
HV-51-2F027B	2	M-51 (SHT 7)	E-6	A	A	6.00	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-205B LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-2F040	2	M-51 (SHT 6)	G-3	B	A	4.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F041A	1	M-51 (SHT 5)	F-2	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVR-8, 51-VCS-1	PENT. X-45A
HV-51-2F041B	1	M-51 (SHT 7)	F-7	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVR-8, 51-VCS-1	PENT. X-45B
HV-51-2F041C	1	M-51 (SHT 5)	F-2	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVR-8, 51-VCS-1	PENT. X-45C
HV-51-2F041D	1	M-51 (SHT 7)	G-7	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVR-8, 51-VCS-1	PENT. X-45D
HV-51-2F047A	2	M-51 (SHT 5)	C-7	B	P	18.00	GA	MO	O	O	AI	N	PI-Y2		
HV-51-2F047B	2	M-51 (SHT 7)	D-2	B	P	18.00	GA	MO	O	O	AI	N	PI-Y2		
HV-51-2F049	2	M-51 (SHT 6)	G-4	B	A	4.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-51-2F050A	1	M-51 (SHT 5)	E-3	A/C	A	12.00	TC	SA	O/C	C	-	N	LTP-AJ, BDO-RR, CC- RR	GVR-8, 51-ROJ-1	PENT. X-13A
HV-51-2F050B	1	M-51 (SHT 7)	F-6	A/C	A	12.00	TC	SA	O/C	C	-	N	LTP-AJ, BDO-RR, CC- RR	GVR-8, 51-ROJ-1	PENT. X-13B

**INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2**

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-51-2F068A	3	M-51 (SHT 6)	B-4	B	A	20.00	GL	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-2F068B	3	M-51 (SHT 8)	C-6	B	A	20.00	GL	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-51-2F075	2	M-51 (SHT 6)	D-7	B	P	18.00	GA	MO	C	C	AI	N	PI-Y2		
HV-51-2F079A	2	M-51 (SHT 6)	E-6	B	A	1.00	GL	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-51-2F079B	2	M-51 (SHT 8)	F-4	B	A	1.00	GL	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-51-2F080A	2	M-51 (SHT 6)	E-7	B	A	1.00	GL	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-51-2F080B	2	M-51 (SHT 8)	E-4	B	A	1.00	GL	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		
HV-C-51-2F048A	2	M-51 (SHT 5)	E-7	B	A	18.00	BTF	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-C-51-2F048B	2	M-51 (SHT 7)	E-2	B	A	18.00	BTF	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-Q		HSSC
HV-C-51-2F103A	2	M-51 (SHT 6)	D-7	B	P	1.00	GL	MO	C	C	AI	N	PI-Y2		

INSERTICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-51-205A	3	M-51 (SHT 6)	B-5	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		
PSV-51-205B	3	M-51 (SHT 8)	C-6	C	A	0.75	RV	SA	C	O/C	-	N	TRV-Y6		
PSV-51-206A	2	M-51 (SHT 6)	D-6	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-51-206B	2	M-51 (SHT 8)	D-5	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-51-255	1	M-51 (SHT 5)	E-2	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y5		
PSV-51-2F025A	2	M-51 (SHT 5)	G-5	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-51-2F025B	2	M-51 (SHT 7)	G-4	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-51-2F025C	2	M-51 (SHT 5)	G-4	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-51-2F025D	2	M-51 (SHT 7)	G-5	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-51-2F029	2	M-51 (SHT 5)	C-4	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 51 RESIDUAL HEAT REMOVAL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-51-2F030A	2	M-51 (SHT 5)	C-3	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		PENT. X-203A
PSV-51-2F030B	2	M-51 (SHT 7)	C-6	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		PENT. X-203B
PSV-51-2F030C	2	M-51 (SHT 5)	C-2	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		PENT. X-203C
PSV-51-2F030D	2	M-51 (SHT 7)	C-7	C	A	1.00	RV	SA	C	O/C	-	N	TRV-Y10		PENT. X-203D

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
52-2045A	2	M-52 (SHT 4)	E-6	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		Condition Monitoring
52-2045B	2	M-52 (SHT 4)	E-2	C	A	1.50	CK	SA	C	C	-	N	D&I-CM		
52-2046A	2	M-52 (SHT 4)	E-5	C	A	1.50	CK	SA	C	C	-	N	BDO-Q, CC-Q		
52-2048A	2	M-52 (SHT 4)	A-5	C	A	1.00	CK	SA	C	O/C	-	N	CO-Q, D&I-CM		Condition Monitoring
52-2048B	2	M-52 (SHT 4)	B-3	C	A	1.00	CK	SA	C	O/C	-	N	CO-Q, D&I-CM		Condition Monitoring
52-2051A	2	M-52 (SHT 4)	G-2	C	A	1.50	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		Condition Monitoring
52-2051B	2	M-52 (SHT 4)	F-2	C	A	1.50	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
52-2F003A	2	M-52 (SHT 4)	D-6	C	A	12.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q		
52-2F003B	2	M-52 (SHT 4)	D-3	C	A	12.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q		Condition Monitoring
52-2F003C	2	M-52 (SHT 4)	D-5	C	A	12.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
52-2F003D	2	M-52 (SHT 4)	D-1	C	A	12.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q		
52-2F007A	1	M-52 (SHT 3)	E-7	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
52-2F007B	1	M-52 (SHT 3)	F-7	B	P	12.00	GA	M	LO	O	-	N	PI-Y2		
52-2F030A	2	M-52 (SHT 3)	G-4	C	A	2.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
52-2F030B	2	M-52 (SHT 3)	H-4	C	A	2.00	CK	SA	O/C	C	-	N	D&I-CM		Condition Monitoring
52-2F036A	2	M-52 (SHT 4)	D-7	C	A	3.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
52-2F036B	2	M-52 (SHT 4)	D-3	C	A	3.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
52-2F036C	2	M-52 (SHT 4)	D-5	C	A	3.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
52-2F036D	2	M-52 (SHT 4)	D-1	C	A	3.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q		
HV-52-208	1	M-52 (SHT 3)	F-6	A/C	A	12.00	TC	SA	C	O/C	-	Y	LTJ-AJ, LTP-AJ, CC-RR, CO-RR, PI-Y2	GVRR-8, 52-ROJ-1	PENT. X-16B

INSERVICE TESTING VALVE TABLE

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL															
VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
HV-52-227	2	M-52 (SHT 4)	G-7	B	A	6.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-237, LSCC
HV-52-228	2	M-52 (SHT 4)	G-7	B	A	6.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-237, LSCC
HV-52-239	2	M-52 (SHT 3)	A-7	B	A	1.00	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-237, LSCC
HV-52-2F001A	2	M-52 (SHT 3)	B-6	B	A	16.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-206A, LSCC
HV-52-2F001B	2	M-52 (SHT 3)	B-8	B	A	16.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-206B, LSCC
HV-52-2F001C	2	M-52 (SHT 3)	B-6	B	A	16.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-206C, LSCC
HV-52-2F001D	2	M-52 (SHT 3)	B-8	B	A	16.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-206D, LSCC
HV-52-2F004A	2	M-52 (SHT 3)	E-5	B	A	12.00	GA	MO	O/C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-52-2F004B	2	M-52 (SHT 3)	F-4	B	A	12.00	GA	MO	O/C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-52-2F005	1	M-52 (SHT 3)	E-6	A	A	12.00	GA	MO	C	O/C	AI	Y	LTJ-AJ LTP-AJ DIAG-MOV, SC/SO-RC, STC-RC	GVRR-8	PENT. X-16A, LSCC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
HV-52-2F006A	1	M-52 (SHT 3)	E-6	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVERR-8, 52-VCS-1	PENT. X-16A
HV-52-2F006B	1	M-52 (SHT 3)	F-6	A/C	A	12.00	TC	SA	C	O/C	-	N	LTP-AJ, CC-CS, CO-CS, PI-Y2	GVERR-8 52-VCS-1	PENT. X-16B
HV-52-2F015A	2	M-52 (SHT 3)	D-6	B	A	10.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-207A, LSSC
HV-52-2F015B	2	M-52 (SHT 3)	D-6	B	A	10.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-207B, LSSC
HV-52-2F031A	2	M-52 (SHT 3)	C-6	B	A	4.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-235, LSSC
HV-52-2F031B	2	M-52 (SHT 3)	C-6	B	A	4.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-208B, LSSC
HV-52-2F037	2	M-52 (SHT 3)	F-5	B	A	12.00	GA	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-52-2F039A	1	M-52 (SHT 3)	E-6	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVERR-8	PENT. X-16A
HV-52-2F039B	1	M-52 (SHT 3)	F-6	A	P	1.00	GL	AO	C	C	C	N	LTP-AJ, PI-Y2	GVERR-8	PENT. X-16B
PSV-52-2F012A	2	M-52 (SHT 4)	F-7	C	A	2.00	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 52 CORE SPRAY & 52F SAFEGUARD PIPING FILL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/RO J NUMBER	REMARKS
PSV-52-2F012B	2	M-52 (SHT 4)	F-3	C	A	2.00	RV	SA	C	O/C	-	N	RT-Y10		
SV-52-239	2	M-52 (SHT 3)	A-7	B	A	1.00	GL	SO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-237

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 53 FUEL POOL COOLING AND CLEANUP

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
53-2093	3	M-53 (SHT 3)	H-2	B	A	2.00	GL	M	C	O	-	N	EC-Y2, EO-Y2		FSAR 9.1.1.3
53-2094	3	M-53 (SHT 3)	H-2	B	A	2.00	GL	M	C	O	-	N	EC-Y2, EO-Y2		FSAR 9.1.1.3

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
55-2025	2	M-55 (SHT 2)	A-8	C	A	4.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM	Condition Monitoring
55-2026	2	M-55 (SHT 2)	A-7	C	A	4.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM	Condition Monitoring
55-2048	2	M-55 (SHT 2)	E-4	C	A	1.50	CK	SA	O/C	O/C	-	N	D&I-CM	Condition Monitoring
55-2049	2	M-55 (SHT 2)	E-4	C	A	1.50	CK	SA	O/C	O/C	-	N	D&I-CM	Condition Monitoring
55-2058	2	M-55 (SHT 2)	F-4	C	A	8.00	CK	SA	C	O	-	N	D&I-CM	Condition Monitoring
55-2059	2	M-55 (SHT 2)	D-5	C	A	12.00	CK	SA	C	O	-	N	D&I-CM	Condition Monitoring
55-2F005	2	M-55 (SHT 2)	D-4	C	A	14.00	CK	SA	O/C	O	-	N	BDC-Q, CO-Q	
55-2F019	2	M-55 (SHT 2)	F-3	C	A	16.00	CK	SA	O/C	O	-	N	D&I-CM	Condition Monitoring
55-2F021	2	M-55 (SHT 2)	C-4	C	A	12.00	SCK	SA	O/C	O	-	N	BDC-CS, CO-Q	55-VCS-3
55-2F045	2	M-55 (SHT 2)	B-6	C	A	16.00	CK	SA	O/C	O	-	N	D&I-CM, CPF-Q	Condition Monitoring

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
55-2F078	2	M-55 (SHT 2)	B-5	C	A	2.00	CK	SA	O/C	C	-	N	D&I-CM	Condition Monitoring
55-2F080	2	M-55 (SHT 2)	A-8	C	A	4.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM	Condition Monitoring
55-2F094	2	M-55 (SHT 2)	A-7	C	A	4.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q, D&I-CM	Condition Monitoring
HV-55-220	2	M-55 (SHT 2)	B-6	B	A	2.00	GL	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC	PENT. X-219B, LSSC
HV-55-221	2	M-55 (SHT 2)	B-6	B	A	2.00	GL	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC	PENT. X-219A, LSSC
HV-55-2F001	2	M-55 (SHT 2)	D-2	B	A	12.00	GA	MO	C	O	AI	N	DIAG-MOV, SC/SO-Q	HSSC
HV-55-2F002	1	M-55 (SHT 2)	F-6	A	A	10.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-CS, STC-CS	55-VCS-1 PENT, X-11, HSSC
HV-55-2F003	1	M-55 (SHT 2)	F-6	A	A	10.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-Q, STC-Q	PENT, X-11, HSSC
HV-55-2F004	2	M-55 (SHT 2)	F-3	B	A	16.00	GA	MO	O/C	O/C	AI	N	DIAG-MOV, SC/SO-RC	LSSC
HV-55-2F006	2	M-55 (SHT 2)	D-5	B	A	12.00	GA	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-RC	LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
HV-55-2F007	2	M-55 (SHT 2)	D-4	B	P	14.00	GA	MO	O	O	AI	N	PI-Y2		
HV-55-2F008	2	M-55 (SHT 2)	E-4	B	A	10.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-55-2F011	2	M-55 (SHT 2)	G-4	B	A	10.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-55-2F012	2	M-55 (SHT 2)	C-6	B	A	4.00	GL	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-236, LSSC
HV-55-2F028	2	M-55 (SHT 2)	C-2	B	A	1.00	GL	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		
HV-55-2F029	2	M-55 (SHT 2)	B-2	B	A	1.00	GL	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		
HV-55-2F041	2	M-55 (SHT 2)	E-3	B	A	16.00	BTF	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-55-2F042	2	M-55 (SHT 2)	B-7	B	A	16.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-209, LSSC
HV-55-2F071	2	M-55 (SHT 2)	C-6	B	A	4.00	GA	MO	O/C	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-212, LSSC
HV-55-2F072	2	M-55 (SHT 2)	C-6	B	A	12.00	GA	MO	O	O/C	AI	N	DIAG-MOV, SC/SO-RC		PENT. X-210, LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCs/ROJ NUMBER	REMARKS
HV-55-2F093	2	M-55 (SHT 2)	A-6	A	A	4.00	GA	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC	PENT. X-228D, LSSC
HV-55-2F095	2	M-55 (SHT 2)	C-8	A	A	4.00	GA	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC	PENT. X-228D, LSSC
HV-55-2F100	1	M-55 (SHT 2)	F-6	A	A	1.50	GL	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC	PENT. X-11, LSSC
HV-55-2F105	2	M-55 (SHT 2)	F-4	A	A	8.00	GA	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC	PENT. X-9A, LSSC
56-2F048	2	M-56 (SHT 2)	B-5	C	A	2.00	CK	SA	O/C	O/C	-	N	CC-Q, CO-Q	
56-2F057	2	M-56 (SHT 2)	B-4		A	2.00	CK	SA	O/C	O	-	N	SKID-Q	SKID MOUNTED CTP-IST-007
FV-56-211	2	M-56 (SHT 2)	G-3		A	10.00	GL	HO	C	O	C	N	SKID-Q	SKID MOUNTED CTP-IST-007
FV-56-212	2	M-56 (SHT 2)	G-3		A	10.00	GL	HO	C	O/C	C	N	SKID-Q	SKID MOUNTED CTP-IST-007
HV-56-2F059	2	M-56 (SHT 2)	D-6	B	A	2.00	GL	MO	C	O/C	AI	N	DIAG-MOV, SC/SO-Q	HSSC
PSE-56-2D003	2	M-56 (SHT 2)	F-4	D	A	16.00	RPD	SA	C	O	-	N	DT-Y5	

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 55-56 HIGH PRESSURE COOLANT INJECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSE-56-2D004	2	M-56 (SHT 2)	H-4	D	A	16.00	RPD	SA	C	O	-	N	DT-Y5		
PSV-56-2F020	2	M-56 (SHT 2)	G-6	C	A	0.75	RV	SA	C	O/C	-	N	RT-Y10		
PSV-56-2F050	2	M-56 (SHT 2)	C-5	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
FV-DO-201A	2	M-57 (SHT 3)	C-7	A	A	4.00	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-26, LSSC
FV-DO-201B	2	M-57 (SHT 4)	C-7	A	A	4.00	GL	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-25, LSSC
HV-57-204	2	M-57 (SHT 5)	E-7	A	A	18.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-202
HV-57-205	2	M-57 (SHT 5)	D-6	A	A	2.00	GL	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-202, LSSC
HV-57-209	2	M-57 (SHT 4)	E-5	A	A	6.00	BTF	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-25, X-201A, LSSC
HV-57-210A	2	M-57 (SHT 5)	E-8	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-210B	2	M-57 (SHT 4)	F-3	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-211	2	M-57 (SHT 5)	G-5	A	A	2.00	GL	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-26, LSSC
HV-57-212	2	M-57 (SHT 5)	F-7	A	A	18.00	BTF	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-202, LSSC
HV-57-214	2	M-57 (SHT 5)	F-6	A	A	24.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-26

INSERTICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL															
VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION			APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
									NRM	SAF	FAL				
HV-57-215	2	M-57 (SHT 5)	G-6	A	A	24.00	BTF	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-26, LSSC
HV-57-216	2	M-57 (SHT 4)	F-5	A	A	1.50	GL	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-62, LSSC
HV-57-217	2	M-57 (SHT 5)	G-5	A	A	2.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-26
HV-57-218	2	M-57 (SHT 5)	E-6	A	A	2.00	GL	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-202
HV-57-221	2	M-57 (SHT 4)	D-5	A	A	6.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-25, X-201A
HV-57-223	2	M-57 (SHT 4)	D-4	A	A	24.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-25
HV-57-224	2	M-57 (SHT 4)	D-4	A	A	24.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-201A
HV-57-231	2	M-57 (SHT 4)	D-5	A	A	6.00	BTF	AO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-25, X-201A
HV-57-235	2	M-57 (SHT 4)	D-4	A	A	24.00	BTF	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-25 LSSC
HV-57-247	2	M-57 (SHT 4)	D-3	A	A	24.00	BTF	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-201A LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
HV-57-260A	3	M-57 (SHT 4)	G-5	B	A	6.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-260B	3	M-57 (SHT 4)	G-5	B	A	6.00	GA	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-261	2	M-57 (SHT 5)	E-7	A	A	4.00	BTF	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-26 LSSC
HV-57-262	2	M-57 (SHT 5)	C-6	A	A	6.00	BTF	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-202 LSSC
HV-57-263	2	M-57 (SHT 4)	D-3	A	A	4.00	BTF	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-25 LSSC
HV-57-264	2	M-57 (SHT 4)	C-3	A	A	6.00	BTF	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-201A LSSC
HV-57-265	3	M-57 (SHT 4)	G-6	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-266	2	M-57 (SHT 5)	C-7	A	A	6.00	BTF	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-202 LSSC
HV-57-267	3	M-57 (SHT 4)	F-6	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-268A	2	M-57 (SHT 5)	E-8	B	A	1.50	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC

INSERTICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
HV-57-268B	2	M-57 (SHT 4)	F-3	B	A	1.50	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-57-269	2	M-57 (SHT 4)	C-3	A	A	6.00	BTF	MO	C	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-201A LSSC
PSV-57-237A-1	2	M-57 (SHT 5)	G-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-237A-2	2	M-57 (SHT 5)	G-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-237B-1	2	M-57 (SHT 5)	E-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-237B-2	2	M-57 (SHT 5)	E-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-237C-1	2	M-57 (SHT 5)	C-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-237C-2	2	M-57 (SHT 5)	C-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-237D-1	2	M-57 (SHT 5)	A-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		
PSV-57-237D-2	2	M-57 (SHT 5)	A-3	C	A	24.00	VB	SA	C	O/C	-	N	RT-Y10, PI-Y2		

INSERTICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
PSV-57-262	2	M-57 (SHT 5)	C-8	C	A	1.00	RV	SA	C O/C -	N	RT-Y10		
PSV-57-264	2	M-57 (SHT 4)	C-2	C	A	1.00	RV	SA	C O/C -	N	RT-Y10		
SV-57-201	2	M-57 (SHT 4)	B-6	B	A	2.00	GL	SO	O O/C C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-220B
SV-57-232	2	M-57 (SHT 4)	E-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28A-2
SV-57-233	2	M-57 (SHT 4)	E-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28B
SV-57-234	2	M-57 (SHT 4)	E-6	A	A	1.00	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28A-3
SV-57-239	2	M-57 (SHT 5)	G-6	B	A	0.50	GL	SO	O C C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-26
SV-57-241	2	M-57 (SHT 4)	A-5	A	A	0.50	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-221A
SV-57-242	2	M-57 (SHT 4)	A-4	A	A	0.50	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28A-2
SV-57-243	2	M-57 (SHT 4)	A-4	A	A	0.50	GL	SO	O O/C C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2		PENT. X-28B

INSERTICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
SV-57-244	2	M-57 (SHT 4)	A-4	A	A	0.50	GL	SO	O O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-28A-3
SV-57-245	2	M-57 (SHT 4)	B-3	A	A	0.50	GL	SO	O O	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, PI-Y2	PENT. X-26
SV-57-246A	2	M-57 (SHT 5)	A-6	B	P	0.50	GL	SO	C C	C	N	PI-Y2	
SV-57-246B	2	M-57 (SHT 4)	A-5	B	P	0.50	GL	SO	C C	C	N	PI-Y2	
SV-57-247A	2	M-57 (SHT 5)	A-6	B	P	0.50	GL	SO	C C	C	N	PI-Y2	
SV-57-247B	2	M-57 (SHT 4)	A-5	B	P	0.50	GL	SO	C C	C	N	PI-Y2	
SV-57-250	2	M-57 (SHT 4)	D-6	A	A	1.00	GL	SO	O O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-62
SV-57-259	2	M-58 (SHT 4)	A-5	A	A	1.00	GL	SO	O O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-62
SV-57-281	2	M-58 (SHT 4)	C-6	A	A	1.00	GL	SO	O O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-221A
SV-57-283	2	M-58 (SHT 5)	C-6	A	A	1.00	GL	SO	O O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-221B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 57 CONTAINMENT ATMOSPHERIC CONTROL

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/CS/ROJ NUMBER	REMARKS
SV-57-284	2	M-58 (SHT 5)	B-7	A	A	0.50	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-221A
SV-57-285	2	M-58 (SHT 5)	B-7	A	A	0.50	GL	SO	O	C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, PI-Y2	PENT. X-202
SV-57-286	2	M-58 (SHT 5)	B-7	A	A	0.50	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-221B
SV-57-290	2	M-58 (SHT 5)	B-6	A	A	1.00	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-220A
SV-57-291	2	M-58 (SHT 5)	C-6	A	A	2.00	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-220A
SV-57-295	2	M-58 (SHT 5)	B-6	A	A	0.50	GL	SO	O	O/C	C	Y	LTJ-AJ.SC/SO-Q, STC-Q, FC-Q, STO-Q, PI-Y2	PENT. X-28B
HV-57V-280	2	M-58 (SHT 9)	E-7	A	P	12.00	BTF	AO	C	C	C	Y	LTJ-AJ	PENT. X-201B
HV-57V-281	2	M-58 (SHT 9)	E-6	A	P	12.00	BTF	AO	C	C	C	Y	LTJ-AJ	PENT. X-201B

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
59-2001	2	M-59 (SHT 3)	B-5	A/C	A	1.00	CK	SA	O/C	C	-	Y	LTJ-AJ, BDO-RR, CC-RR	59-ROJ-1 PENT. X-218
59-2005A	2	M-59 (SHT 3)	E-5	A/C	A	1.00	CK	SA	O/C	C	-	Y	LTJ-AJ, BDO-RR, CC-RR	59-ROJ-1 PENT. X-40H-1
59-2005B	2	M-59 (SHT 3)	F-5	A/C	A	1.00	CK	SA	O/C	C	-	Y	LTJ-AJ, BDO-RR, CC-RR	59-ROJ-1 PENT. X-3B
59-2023E	3	M-59 (SHT 3)	H-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1 As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min
59-2023H	3	M-59 (SHT 3)	G-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1 As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min
59-2023K	3	M-59 (SHT 3)	H-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1 As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min
59-2023M	3	M-59 (SHT 3)	G-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1 As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
59-2023S	3	M-59 (SHT 3)	G-3	A/C	A	1.00	CK	SA	O/C	O/C	-	N	LTP-Y2, CC-RR, CO-RR	59-ROJ-1	As per FSAR Question 271.2, allowable leakage rate not to exceed 78 scc/min
59-2024E	3	M-59 (SHT 3)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-2024H	3	M-59 (SHT 3)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-2024K	3	M-59 (SHT 3)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-2024M	3	M-59 (SHT 3)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-2024S	3	M-59 (SHT 3)	G-4	C	A	1.00	CK	SA	O/C	C	-	N	BDO-RR, CC-RR	59-ROJ-1	
59-2056	2	M-59 (SHT 3)	D-5	A/C	A	1.00	CK	SA	O/C	C	-	Y	LTJ-AJ, BDO-Q, CC-RR	59-ROJ-1	PENT. X-35B
59-2112	2	M-59 (SHT 3)	H-4	A/C	A	1.00	CK	SA	O/C	O/C	-	Y	LTJ-AJ, CC-RR, CO-RR	59-ROJ-1	PENT. X-3D-2
59-2128	2	M-59 (SHT 3)	G-4	A/C	A	1.00	CK	SA	O/C	O/C	-	Y	LTJ-AJ, CC-RR, CO-RR	59-ROJ-1	PENT. X-27A
59-2131E	3	M-59 (SHT 3)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
59-2131H	3	M-59 (SHT 3)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	
59-2131K	3	M-59 (SHT 3)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	
59-2131M	3	M-59 (SHT 3)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	
59-2131S	3	M-59 (SHT 3)	G-3	A/C	A	1.00	CK	SA	O/C	C	-	N	LTP-Y2, BDO-RR, CC-RR	59-ROJ-1	
HV-59-201	2	M-59 (SHT 3)	C-5	A	A	1.50	GL	MO	O	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-40F-2 LSSC
HV-59-202	2	M-59 (SHT 3)	C-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-CS, STC-CS, FC-CS, PI-Y2	59-VCS-1	PENT. X-40F-2
HV-59-229A	2	M-59 (SHT 3)	E-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-40H-1
HV-59-229B	2	M-59 (SHT 3)	F-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-3B
HV-59-231	2	M-59 (SHT 3)	D-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35B
HV-59-235	2	M-59 (SHT 3)	B-5	A	A	1.00	GL	AO	O	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-218

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-59-240	SR	M-59 (SHT 4)	G-5	B	A	1.00	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-59-241	SR	M-59 (SHT 4)	G-4	B	A	1.00	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-59-242	SR	M-59 (SHT 4)	H-5	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-59-243	SR	M-59 (SHT 4)	H-6	B	A	1.00	GL	MO	C	O	AI	N	DIAG-MOV, SC/SO-RC		LSSC
HV-59-251A	2	M-59 (SHT 3)	G-5	A	A	1.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-27A LSSC
HV-59-251B	2	M-59 (SHT 3)	H-5	A	A	1.00	GL	MO	O	O/C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-3D-2 LSSC
PSV-59-252A	3	M-59 (SHT 3)	F-7	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-59-252B	3	M-59 (SHT 3)	H-7	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-59-253A	3	M-59 (SHT 3)	F-7	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		
PSV-59-253B	3	M-59 (SHT 3)	H-7	C	A	1.00	RV	SA	C	O/C	-	N	RT-Y10		

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	POSITION NRM SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
SV-59-250A	3	M-59 (SHT 3)	G-6	B	A	1.00	GL	SO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2	
SV-59-250B	3	M-59 (SHT 3)	H-6	B	A	1.00	GL	SO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI-Y2	
SV-59-252A	3	M-59 (SHT 3)	F-6	B	A	1.00	GL	SO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2	
SV-59-252B	3	M-59 (SHT 3)	H-6	B	A	1.00	GL	SO	C	O	O	N	SC/SO-Q, STO-Q, FO-Q, PI-Y2	
XV-59-240A	2	M-59 (SHT 3)	D-6	D	A	.375	SHR	EXP	O	C	AI	N	DT-TS	PENT. X-35C
XV-59-240B	2	M-59 (SHT 3)	D-6	D	A	.375	SHR	EXP	O	C	AI	N	DT-TS	PENT. X-35D
XV-59-240C	2	M-59 (SHT 3)	D-6	D	A	.375	SHR	EXP	O	C	AI	N	DT-TS	PENT. X-35E
XV-59-240D	2	M-59 (SHT 3)	D-6	D	A	.375	SHR	EXP	O	C	AI	N	DT-TS	PENT. X-35F
XV-59-240E	2	M-59 (SHT 3)	D-6	D	A	.375	SHR	EXP	O	C	AI	N	DT-TS	PENT. X-35G
XV-59-241A	2	M-59 (SHT 3)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2	PENT. X-35C

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 59 PRIMARY CONTAINMENT INSTRUMENT GAS

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE- FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
XV-59-241B	2	M-59 (SHT 3)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35D
XV-59-241C	2	M-59 (SHT 3)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35E
XV-59-241D	2	M-59 (SHT 3)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35F
XV-59-241E	2	M-59 (SHT 3)	D-6	A	A	.375	BAL	SO	O/C	C	C	Y	LTJ-AJ, SC/SO-Q, STC-Q, FC-Q, PI-Y2		PENT. X-35G

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 60 PRIMARY CONTAINMENT LEAK TESTING

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
60-2057	2	M-60 (SHT 2)	F-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-40G-1
60-2058	2	M-60 (SHT 2)	F-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-40G-1
60-2070	2	M-60 (SHT 2)	D-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-40G-2
60-2071	2	M-60 (SHT 2)	D-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-40G-2
60-2073	2	M-60 (SHT 2)	C-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-227
60-2074	2	M-60 (SHT 2)	C-4	A	P	0.75	GL	M	LC	C	-	Y	LTJ-AJ		PENT. X-227

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 61 LIQUID RADWASTE COLLECTION

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRRVCS/ROJ NUMBER	REMARKS
HV-61-210	2	M-61 (SHT 4)	F-5	B	A	4.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		PENT. X-231A
HV-61-211	2	M-61 (SHT 4)	F-4	B	A	4.00	GA	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		PENT. X-231A
HV-61-212	2	M-61 (SHT 4)	G-4	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-230B LSSC
HV-61-230	2	M-61 (SHT 4)	B-5	B	A	4.00	GA	AO	O	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		PENT. X-231B
HV-61-231	2	M-61 (SHT 4)	B-5	B	A	4.00	GA	AO	O/C	C	C	N	SC/SO-Q, STC-Q, FC-Q, PI- Y2		PENT. X-231B
HV-61-232	2	M-61 (SHT 4)	C-5	B	A	1.50	GL	MO	O	C	AI	N	DIAG-MOV, SC/SO-RC, STC-RC		PENT. X-230B LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 87 DRYWELL CHILLED WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-87-220A	NC	M-87 (SHT 9)	C-4	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-53. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-220B	NC	M-87 (SHT 9)	B-4	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-55. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-221A	NC	M-87 (SHT 9)	C-4	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-54. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-221B	NC	M-87 (SHT 9)	A-4	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-56. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-222	2	M-87 (SHT 9)	B-5	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-55. LSSC
HV-87-223	2	M-87 (SHT 9)	A-5	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-56. LSSC
HV-87-224A	NC	M-87 (SHT 9)	B-4	A	P	8.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-54. Class 2 equivalent per FSAR 3.2.2.g. LSSC

INSERVICE TESTING VALVE TABLE
LIMERICK GENERATING STATION – UNIT 2

SYSTEM: 87 DRYWELL CHILLED WATER

VALVE NUMBER	CODE CLASS	P&ID	COORD	VALVE CAT	ACTV/ PAS	SIZE	VALVE TYPE	ACT TYPE	NRM	POSITION SAF	FAL	APP. J TYPE C	TEST TYPE-FREQUENCY	VRR/VCS/ROJ NUMBER	REMARKS
HV-87-224B	NC	M-87 (SHT 9)	A-4	A	P	8.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-56. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-225A	NC	M-87 (SHT 9)	C-4	A	P	8.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-53. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-225B	NC	M-87 (SHT 9)	B-4	A	P	8.00	GA	MO	LC	C	AI	Y	LTJ-AJ		PENT. X-55. Class 2 equivalent per FSAR 3.2.2.g. LSSC
HV-87-228	2	M-87 (SHT 9)	C-5	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-53. LSSC
HV-87-229	2	M-87 (SHT 9)	C-5	A	A	8.00	GA	MO	O/C	C	AI	Y	LTJ-AJ, DIAG-MOV, SC/SO- RC, STC-RC		PENT. X-54. LSSC

ATTACHMENT 16
CHECK VALVE CONDITION MONITORING PLAN INDEX

<u>CVCM PLAN NUMBER</u>	<u>REV #</u>	<u>TITLE</u>
ESW Grp 1		Condition Monitoring Plan – ESW Grp 1
ESW Grp 2		Condition Monitoring Plan – ESW Grp 2
U/1 ESW Grp 3		Condition Monitoring Plan – U/1 ESW Grp 3
U/1 51-ROJ-2		Condition Monitoring Plan – U/1 51-ROJ-2
U/1 55-ROJ-1		Condition Monitoring Plan – U/1 55-ROJ-1
U/1 55-ROJ-2		Condition Monitoring Plan – U/1 55-ROJ-2
U/1 GVROJ-1 Grp 1		Condition Monitoring Plan – U/1 GVROJ-1 Grp 1
U/1 GVROJ-1 Grp 2		Condition Monitoring Plan – U/1 GVROJ-1 Grp 2
U/1 GVROJ-1 Grp 3		Condition Monitoring Plan – U/1 GVROJ-1 Grp 3
U/1 GVROJ-1 Grp 4		Condition Monitoring Plan – U/1 GVROJ-1 Grp 4
U/1 GVROJ-1 Grp 5		Condition Monitoring Plan – U/1 GVROJ-1 Grp 5
U/1 GVROJ-1 Grp 6		Condition Monitoring Plan – U/1 GVROJ-1 Grp 6
U/1 GVROJ-1 Grp 7		Condition Monitoring Plan – U/1 GVROJ-1 Grp 7
U/1 HPCI Grp 2		Condition Monitoring Plan – U/1 HPCI Grp 2
U/1 RCIC Grp 1		Condition Monitoring Plan – U/1 RCIC Grp 1
U/1 RCIC Grp 2		Condition Monitoring Plan – U/1 RCIC Grp 2
U/1 RCIC Grp 3		Condition Monitoring Plan – U/1 RCIC Grp 3
U/2 ESW Grp 2		Condition Monitoring Plan – U/2 ESW Grp 2
U/2 51-ROJ-2		Condition Monitoring Plan – U/2 51-ROJ-2
U/2 GVROJ-1 Grp 2		Condition Monitoring Plan – U/2 GVROJ-1 Grp 2
U/2 GVROJ-1 Grp 4		Condition Monitoring Plan – U/2 GVROJ-1 Grp 4
U/2 GVROJ-1 Grp 5		Condition Monitoring Plan – U/2 GVROJ-1 Grp 5
U/2 GVROJ-1 Grp 6		Condition Monitoring Plan – U/2 GVROJ-1 Grp 6
U/2 HPCI Grp 2		Condition Monitoring Plan – U/2 HPCI Grp 2
U/2 RCIC Grp 1		Condition Monitoring Plan – U/2 RCIC Grp 1
U/2 RCIC Grp 2		Condition Monitoring Plan – U/2 RCIC Grp 2
U/2 RCIC Grp 3		Condition Monitoring Plan – U/2 RCIC Grp 3