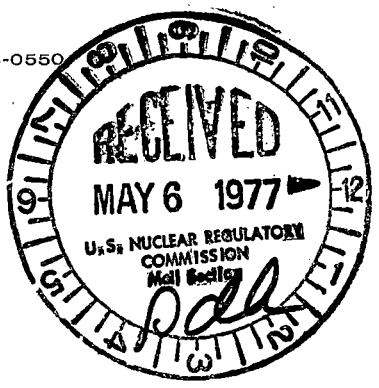
Consumers Power Company

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550



May 3, 1977

Director of Nuclear Reactor Regulation
Att: Mr Albert Schwencer, Chief
Operating Reactor Branch No 1
US Nuclear Regulatory Commission
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - INSERVICE
INSPECTION PROGRAM

By letter dated March 1, 1977 we indicated that we would provide a summary of our updated Inservice Inspection Program and the additional information requested in your August 13, 1976 and January 4, 1977 letters. The following information and attachments should complete our responses relating to our updated Inservice Inspection Program per 10 CFR 50, Section 50.55a requirements.

The Palisades Plant Inservice Inspection and Pump and Valve Testing Programs are briefly summarized below as required by January 4, 1977 letter. Attachments 1 and 2 supplement the summary.

1. Inservice Inspection Program

   a. Applicable Code: ASME B&PV Code Section XI, 1974 Edition through Summer '75 Addenda with Appendix III from the Winter '75 Addenda.

   b. Period of Applicability: 10/31/76 through 2/28/80 (current interval 12/31/71 through 6/30/83).

   c. Component Identification: Attachment 1 covers the extent of the ISI program. Tables within the program plan itemize each component by a unique identifier and list ASME Section XI item number and category. Components were selected for coverage by the plan through use of the Palisades Code Classification P&ID (developed by application of Reg Guide 1.26) for Classes 1, 2 and 3 components and Technical Specifications, Section 4.12 for the high energy piping.

   d. Inservice Requirements: Examination categories and methods are detailed within the program plan. The plan requires that code unacceptable discontinuities be dispositioned through application of Consumers Power Quality Assurance Program Procedure 16-51, Deviations. Fulfilling

the requirements of this procedure will initiate, as required, additional code (IWB-2430, IWC-2430, IW -4000) requirements which will be implemented by plant and/or General Office procedures, as necessary.

2. Pump and Valve Testing Program

a. Applicable Code: ASME B&PV Code, Section XI, 1974 Edition through Summer '75 Addenda.

b. Period of Applicability: 11/1/76 - 6/30/78.

c. Pump Testing

(1) Component Identification: Attachment 2, Table 1, lists the applicable pumps. Pumps not included were included as a part of the relief request previously transmitted in our March 1, 1977 letter.

(2) Measured Parameters: These will include, typically, bearing temperature, vibration, suction head, flow and discharge pressure. From certain of these measurements, suction pressure and differential pressure will be calculated as defined in the Palisades Plant Engineering Manual Procedure EM-09-04, Pumps.

(3) Test Intervals: Testing will be performed monthly except during plant shutdown and 96 hours after return to service following replacement or repair affecting pump performance. The test frequency is to be increased if performance is determined marginal.

(4) Complete details are contained in the Palisades Plant Engineering Manual, Procedure EM-09-04, Pumps.

d. Valve Testing

The valves covered were selected in accordance with the guidelines of Section XI, Subsection IWV and include all Classes 1, 2 and 3 valves in the following classifications:

(1) Those valves required to operate following a LOCA, including containment penetration isolation valves.

(2) Valves affording protection to a system or component, such as relief valves and rupture discs.

(3) Boundary valves which prevent the unintentional release of radioactive fluids or gases to the water or atmosphere outside the containment and auxiliary buildings.

(4) Additional valves not having a specific safety function but considered important enough from a reactor or radiological safety standpoint to warrant special testing.

(5) Complete details are contained in the Palisades Plant Engineering Manual Procedure EM-09-02, Valves.

All remaining plant valves are considered installed for operating convenience or maintenance and, therefore, are not included in this program.

(6) Categories A & B Exercise Test:

On a quarterly basis, all valves indicated "Category A or B" in Table 2 of Attachment 2 shall be exercised unless valve operation is not practical during plant operation. If valve operation is not practical, the following applies:

(a) Normally open valves, where practical without imposing undue risk to equipment or plant operation, shall be exercised by partially closing and then reopening the valve. These valves shall then be full-stroke exercised during each cold shutdown.

(b) Normally closed valves which cannot be opened during plant operation are identified in each individual test procedure. These valves shall be full-stroke exercised during each cold shutdown.

(c) If frequent cold shutdowns occur, these valves need not be exercised more often than once every three months.

(7) Category A Leak Test:

During each refueling outage, but not less than once every two years, all Category A valves identified in Table 2 of Attachment 2 shall be tested to determine seat leakage rates.

(8) Category C Exercising Test:

On a quarterly basis, check valves listed in Table 2 of Attachment 2 as Category C shall be exercised unless valve operation is not practical during plant operation. For normally open valves, if only limited operation is practical during plant operation, each valve shall be part-stroke exercised each quarter, and full-stroke exercised during each cold shutdown. Normally closed valves which cannot be exercised during plant operation shall be identified in the individual valve test procedure and will be full-stroke exercised during each cold shutdown. In the case of frequent cold shutdowns, valves which cannot be exercised or which can only be part-stroke exercised during plant operation need not be full-stroke exercised more frequently than once every nine months.

(9) Category C Set Point Test:

All Category C safety and relief valves shall have their set points verified at least once in each five-year period. The valve tests shall be distributed over each 60-month period such that N/60 X 141 valves have been tested by the end of each refueling outage, where N = number of months from the start of the 60-month period to the end of each refueling outage and 141 is the total number of reliefs which are included in this program.

(10) Categories D & E Valves:

Categories D and E valves are listed in Table 2 of Attachment 2 for information only. There are no special testing requirements applicable to Palisades for these categories. The code-required position verifications are satisfied by Palisades Plant Operations Department Checklists and Operating Procedures.

David P. Hoffman

David P Hoffman
Assistant Nuclear Licensing Administrator

CC: JGKeppler, USNRC

Attachment 1

INSERVICE INSPECTION 40-YEAR PLAN

EXTENT OF COVERAGE

The Plan covers the four 10-year inspection intervals that comprise the 40-year lifetime of the plant.

Selected portions of the major components and/or systems to be examined in accordance with Section XI are as follows:

(1) Class 1

- (a) Reactor Pressure Vessel
- (b) Reactor Pressure Vessel Closure Head
- (c) Steam Generators - Primary Side
- (d) Piping
  - (i) Primary Coolant System
  - (ii) Engineered Safeguards System
  - (iii) Chemical and Volume Control System
- (e) Primary Coolant Pumps
- (f) Valves

(2) Class 2

- (a) Pressure Vessels:
  - (i) Air Receiver Tanks
  - (ii) Deborating Ion Exchanger
  - (iii) Concentrated Boric Acid Tanks
  - (iv) Volume Control Tank
  - (v) Safety Injection Tanks
  - (vi) Boric Acid Filter
  - (vii) Purification Filters
  - (viii) Steam Generators - Secondary Side
  - (ix) Regenerative Heat Exchangers
  - (x) Letdown Heat Exchanger
  - (xi) Shutdown Cooling Heat Exchangers

(b) Piping:

(i) Primary Coolant System

(ii) Main Steam System

(iii) Feedwater System

(iv) Engineered Safeguards System

(v) Chemical and Volume Control System

(vi) Primary Makeup Water System

(vii) Radwaste System

(viii) Waste Gas System

(ix) Vent and Air Conditioning System

(x) Containment Air System

(c) Pumps:

(i) Containment Spray Pumps

(ii) Charging Pumps

(iii) Concentrated Boric Acid Pumps

(iv) High Pressure Safety Injection Pumps

(v) Low Pressure Safety Injection Pumps

(3) Class 3

(a) Pressure Vessels:

(i) Condensate Storage Tank

(ii) Component Cooling Surge Tank

(iii) Emergency Diesel Generator Day Tanks

(iv) Fuel Pool Demineralizer Tank

(v) Radwaste Demineralizer Tanks

(vi) Vacuum Degasifier Tank

(vii) Safety Injection and Refueling Water Tank

(viii) Shield Cooling Tank

(ix) Waste Gas Surge Tank

(x) Waste Gas Decay Tanks

(xi) Spent Resin Storage Tank

(xii) Quench Tank

(xiii) Primary System Drain Tank

(xiv) Primary System Make-up Storage Tank

(xv) Clean Waste Distillate Tank

(xvi) Radwaste Polishing Demineralizer Tank

(xvii) Miscellaneous Waste Distillate Tanks

(xviii) Spent Resin Storage Tank (addition)

(xix) Waste Gas Decay Tanks (addition)

(xx) Iodine Removal NaOH Tank

(xxi) Iodine Removal Make-up NaOH Tank

(xxii) Vacuum Degasifier Seal Coolant Tank

(xxiii) Fuel Pool Filter

(xxiv) Dirty Waste Filter

(xxv) Laundry Drain Filter

(xxvi) Primary System Filters

(xxvii) Evaporate Concentrate Filter

(xxviii) Miscellaneous Waste Filter

(xxix) Spent Fuel Pool Heat Exchangers

(xxx) Component Cooling Heat Exchangers

(xxxi) Letdown Heat Exchanger

(xxxii) Shutdown Cooling Heat Exchangers

(xxxiii) Shield Cooling Heat Exchanger

(xxxiv) Radwaste Evaporators

(xxxv) Engineered Safeguards Room Coolers

(xxxvi) Control Room Air Conditioning Units

(xxxvii) Containment Air Coolers

(b) Piping:

(i) Primary Coolant System

(ii) Main Steam System

(iii) Feedwater System

(iv) Engineered Safeguards System

(v) Chemical and Volume Control System

(vi) Service Water System

(vii) Component Cooling System

(viii) Waste Gas System

(ix) Radwaste System

(x) Shield Cooling System

(xi) Chemical Addition System

(xii) Emergency Power System

(xiii) Ventilation and Air Conditioning System

(xiv) Spent Fuel Pool System

(xv) Makeup and Domestic Water System

(xvi) Primary Makeup Water System

(xvii) Utility Water System

(c) Pumps:

(i) Service Water Pumps

(ii) Auxiliary Feedwater Pumps

(iii) Fuel Pool Cooling Pumps

(iv) Component Cooling Pumps

(v) SIRW Tank Recirculation Pump

(vi) Shield Cooling Pumps

(vii) Miscellaneous Waste Distillate Pumps

(viii) Miscellaneous Waste Transfer Pumps

(ix) Clean Waste Transfer Pump

(x) Evaporator Concentrate Transfer Pumps

(xi) Recycled Boric Acid Pump

(xii) Clean Waste Distillate Pumps

(xiii) Steam Generator Blowdown Pumps

(xiv) Waste Gas Compressors

(xv) Vacuum Degasifier Compressor

(xvi) Waste Gas Compressor (addition)

(xvii) Auxiliary Feedwater Pump Turbine Driver

Attachment 2

INSERVICE TESTING OF PUMPS AND VALVES

EXTENT OF COVERAGE

TABLE 1

PUMP TESTING REQUIREMENTS *

PUMP	ASME CLASS	TEST PROCEDURE
P7A, B, C, Service Water Pumps	3	MO-16
P8A, B, Auxiliary Feedwater Pumps	3	MO-24
P52A, B, C, Component Cooling Pumps	3	MO-18
P54, A, B, C, Containment Spray Pumps	2	MO-19
P55A, B, C, Charging Pumps	2	MO-20
P56A, B, Boric Acid Pumps	2	MO-21
P66A, B, C, HP Safety Injection Pumps	2	MO-22
P67A, B, LP Safety Injection Pumps	2	MO-23

* Based on ASME B&PV Section XI, 1974 edition, with Addenda through S75. Includes those pumps important to Reactor safety which transfer automatically and restart on an emergency power supply under accident conditions.

TABLE 2

TITLE:		INSERVICE TESTING OF PLANT VALVES							
VALVE	SEC XI CAT.	SYSTEM/P&ID			ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
							EXERCISE	LK TEST	MAINT.
		CONTAINMENT ISOLATION **							
CV-0155	A	PMW	M201/H-7	P42	2	Q/R	QO-5	SO-2	-
CV-0120	A	PCS	M201/F-7	P20	2	Q/R	QO-5		-
CV-0121	A	PCS	M201/F-7	P20	2	Q/R	QO-5		-
CV-2083	A	CVC	M202/G-6	P44	2	Q/R	QO-5		-
CV-2009	A	CVC	M202/G-6	P36	2	Q/R	QO-5	SO-2	-
CV-3001	B	ESS	M203/H-2	P30	2	Q	QO-5	-	-
CV-3002	B	ESS	M203/G-2	P31	2	Q	QO-5	-	-
MOV-3015	B	ESS	M204/D-2	P35	1	Q		-	-
MOV-3016	B	ESS	M204/D-2	P35	1	Q		-	-
CV-3029	B	ESS	M204/C-2	P53	2	Q		-	-
CV-3030	B	ESS	M204/C-3	P54	2	Q		-	-
SV-0824	B	SWS	M208/B-5	P13	3	Q		-	-
SV-0847	B	SWS	M208/B-4	P12	3	Q		-	-
CV-0911	A	CCS	M209/A-6	P15	2	Q/R	QO-5	SO-2	-
CV-0910	A	CCS	M209/E-5	P14	2	Q/R	QO-5	SO-2	-
CV-0940	A	CCS	M209/A-5	P15	2	Q/R	QO-5	SO-2	-
CV-1001	A	RWS	M210/G-7	P37	2	Q/R	QO-5	SO-2	-
CV-1002	A	RWS	M210/G-7	P47	2	Q/R	QO-5	SO-2	-
CV-1004	A	RWS	M210/H-5	P41	2	Q/R	QO-5	SO-2	-
CV-1064	A	RWS	M210/G-1	P25	2	Q/R	QO-5	SO-2	-
CV-1036	A	RWS	M210/E-1	P49	2	Q/R	QO-5	SO-2	-
CV-1037	A	RWS	M210/E-1	P67	2	Q/R	QO-5	SO-2	-
CV-1044	A	RWS	M210/E-2	P69	2	Q/R	QO-5	SO-2	-
CV-1007	A	RWS	M210/F-7	P47	2	Q/R	QO-5	SO-2	-
CV-1038	A	RWS	M210/E-1	P49	2	Q/R	QO-5	SO-2	-
CV-1045	A	RWS	M210/E-2	P69	2	Q/R	QO-5	SO-2	-
CV-1065	A	RWS	M210/G-1	P25	2	Q/R	QO-5	SO-2	-

TABLE 2

TITLE:		INSERVICE TESTING OF PLANT VALVES							
VALVE	SEC XI CAT.	SYSTEM/P&ID			ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
							EXERCISE	LK TEST	MAINT.
		CONTAINMENT ISOLATION, (Contd)							
CV-1101	A	RWS	M211/H-7	P46	2	Q/R	QO-5	SO-2	-
CV-1103	A	RWS	M211/D-7	P52	2	Q/R	QO-5	SO-2	-
CV-1104	A	RWS	M211/D-7	P52	2	Q/R	QO-5	SO-2	-
CV-1102	A	RWS	M211/H-7	P46	2	Q/R	QO-5	SO-2	-
CV-1211	B	CAS	M212/D-2	P65	2	Q	QO-5	-	-
CV-1501	A	VAS	M215/G-2	P38	2	Q/R	QO-5	SO-2	-
CV-1503	A	VAS	M215/H-2	P39	2	Q/R	QO-5	SO-2	-
CV-1502	A	VAS	M215/G-3	P38	2	Q/R	QO-5	SO-2	-
CV-1806	A	VAS	M218/E-3	P4	2	Q/R	QO-5	SO-2	-
CV-1808	A	VAS	M218/D-1	P1	2	Q/R	QO-5	SO-2	-
CV-1814	A	VAS	M218/D-2	P68	2	Q/R	QO-5	SO-2	-
CV-1803	A	VAS	M218/F-3	P4	2	Q/R	QO-5	SO-2	-
CV-1805	A	VAS	M218/E-3	P4	2	Q/R	QO-5	SO-2	-
CV-1807	A	VAS	M218/E-1	P1	2	Q/R	QO-5	SO-2	-
CV-1813	A	VAS	M218/E-2	P68	2	Q/R	QO-5	SO-2	-
CV-1911	A	PCS	M219/E-7	P40	2	Q/R	QO-5	SO-2	-
CV-1910	A	PCS	M219/E-7	P40	2	Q/R	QO-5	SO-2	-
CV-0939	A	SCS	M221/G-2	P11	2	Q/R	QO-5	SO-2	-
CV-1358	A	MGS	M222/H-5	P26	2	Q/R	QO-5	SO-2	-
CV-0738	A	MSS	M226/D-7	P55	2	Q/R	QO-5		-
CV-0771	A	MSS	M226/G-7	P5	2	Q/R	QO-5		-
CV-0770	A	MSS	M226/F-7	P6	2	Q/R	QO-5		-
CV-0739	A	MSS	M226/E-8	P16	2	Q/R	QO-5		-
CV-0768	A	MSS	M226/F-8	P5	2	Q/R	QO-5		-
CV-0767	A	MSS	M226/F-8	P6	2	Q/R	QO-5		-

TABLE 2

TITLE:			INSERVICE TESTING OF PLANT VALVES					
VALVE	SEC XI CAT.	SYSTEM/P&ID		ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
						EXERCISE	LK TEST	MAINT.
			BOUNDARY VALVES					
MOV-2087	B	CVC	M202/E-6	2	Q		-	-
MOV-2169	B	CVC	M202/D-2	2	Q		-	-
MOV-2170	B	CVC	M202/D-3	2	Q		-	-
MOV-2140	B	CVC	M202/C-5	2	Q		-	-
CV-2130	B	CVC	M202/E-2	2	Q		-	-
CV-2155	B	CVC	M202/D-5	2	Q		-	-
CV-2136	B	CVC	M202/E-3	2	Q		-	-
MOV-3009	B	ESS	M203/E-3	1	Q	QO-5	-	-
MOV-3064	B	ESS	M203/C-3	1	Q	QO-5	-	-
MOV-3010	B	ESS	M203/B-3	1	Q	QO-5	-	-
MOV-3007	B	ESS	M203/F-3	1	Q	QO-5	-	-
MOV-3062	B	ESS	M203/A-3	1	Q	QO-5	-	-
MOV-3008	B	ESS	M203/E-3	1	Q	QO-5	-	-
MOV-3011	B	ESS	M203/C-3	1	Q	QO-5	-	-
MOV-3066	B	ESS	M203/D-3	1	Q	QO-5	-	-
MOV-3012	B	ESS	M203/B-3	1	Q	QO-5	-	-
MOV-3068	B	ESS	M203/E-3	1	Q	QO-5	-	-
MOV-3014	B	ESS	M203/A-3	1	Q	QO-5	-	-
CV-3042	B	ESS	M203/D-7	1	Q		-	-
CV-3046	B	ESS	M203/D-6	1	Q		-	-
MOV-3013	B	ESS	M203/B-3	1	Q	QO-5	-	-
CV-3069	B	ESS	M203/C-8	3	Q		-	-
CV-3047	B	ESS	M203/D-5	1	Q		-	-
CV-3038	B	ESS	M203/D-4	1	Q		-	-
CV-0501	B	MSS	M205/H-8	2	Q		-	-
CV-0510	B	MSS	M205/H-7	2	Q		-	-

TABLE 2

TITLE: INSERVICE TESTING OF PLANT VALVES								
VALVE	SEC XI CAT.	SYSTEM/P&ID		ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
						EXERCISE	LK TEST	MAINT.
		BOUNDARY VALVES (Contd)						
CV-0736A	B	FWS	M207/E-8	2	Q		-	-
CV-0737A	B	FWS	M207/E-8	2	Q		-	-
CV-0878	B	SWS	M208/C-3	3	Q		-	-
CV-0825	B	SWS	M208/C-4	3	Q		-	-
CV-0938	B	CCS	M209/G-3	3	Q		-	-
CV-0950	B	CCS	M209/C-5	3	Q		-	-
CV-0913	B	CCS	M209/D-3	3	Q		-	-
CV-0937	B	CCS	M209/G-3	3	Q		-	-
CV-1049	B	RWS	M210/B-3	D*	Q		-	-
CV-1051	B	RWS	M210/A-3	D*	Q		-	-
CV-1113	A	RWS	M211/H-5	3	Q/R			-
CV-1123	B	RWS	M211/H-3	3	Q		-	-
CV-1359	B	SWS	M213/E-8	3	Q		-	-

TABLE 2

TITLE: INSERVICE TESTING OF PLANT VALVES								
VALVE	SEC XI CAT.	SYSTEM/P&ID		ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
						EXERCISE	LK TEST	MAINT.
		RELIEF VALVES						
RV-1039	C	PCS	M201/G-4	1	F	-	-	M-PCS-11
RV-1040	C	PCS	M201/G-4	1	F	-	-	M-PCS-11
RV-1041	C	PCS	M201/G-3	1	F	-	-	M-PCS-11
RV-2006	C	CVC	M202/G-8	2	F	-	-	
RV-2013	C	CVC	M-202/H-4	2	F	-	-	
RV-2079	C	CVC	M202 E-6	2	F	-	-	
RV-2080	C	CVC	M202/E-6	2	F	-	-	
RV-2090	C	CVC	M202/C-6	2	F	-	-	M-CVC-2
RV-2092	C	CVC	M202/C-7	2	F	-	-	M-CVC-2
RV-2096	C	CVC	M202/B-6	2	F	-	-	M-CVC-2
RV-2098	C	CVC	M202/B-7	2	F	-	-	M-CVC-2
RV-2102	C	CVC	M202/A-6	2	F	-	-	M-CVC-2
RV-2104	C	CVC	M202/A-7	2	F	-	-	M-CVC-2
RV-2203	C	CVC	M202/F-6	2	F	-	-	
RV-2230	C	CVC	M202/D-3	2	F	-	-	
RV-2231	C	CVC	M202/C-2	2	F	-	-	
RV-2232	C	CVC	M202/C-3	2	F	-	-	
RV-2233	C	CVC	M202/C-3	2	F	-	-	
RV-2234	C	CVC	M202/D-3	2	F	-	-	
RV-2235	C	CVC	M202/D-2	2	F	-	-	
RV-2236	C	CVC	M202/D-4	2	F	-	-	
RV-2237	C	CVC	M202/D-4	2	F	-	-	
RV-2238	C	CVC	M202/D-4	2	F	-	-	
RV-2239	C	CVC	M202/D-5	2	F	-	-	
RV-2240	C	CVC	M202/D-5	2	F	-	-	
RV-2255	C	CVC	M202/D-6	2	F	-	-	
RV-3113	C	ESS	M203/F-7	2	F	-	-	

TABLE 2

TITLE:			INSERVICE TESTING OF PLANT VALVES					
VALVE	SEC XI CAT.	SYSTEM/P&ID		ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
						EXERCISE	LK TEST	MAINT.
			RELIEF VALVES (Contd)					
RV-3128	C	ESS	M203/F-6	2	F	-	-	
RV-3143	C	ESS	M203/F-5	2	F	-	-	
RV-3158	C	ESS	M203/F-4	2	F	-	-	
RV-3161	C	ESS	M203/D-7	3	F	-	-	
RV-3162	C	ESS	M203/D-1	2	F	-	-	
RV-3165	C	ESS	M203/F-1	2	F	-	-	
RV-3264	C	ESS	M203/F-1	2	F	-	-	
RV-0401	C	ESS	M204/D-1	1	F	-	-	
RV-0438	C	ESS	M204/H-1	3	F	-	-	
RV-3164	C	ESS	M204/E-2	2	F	-	-	
RV-0457	C	ESS	M204/H-2	3	F	-	-	
RV-3267	C	ESS	M204/B-5	2	F	-	-	
RV-3266	C	ESS	M204/C-6	2	F	-	-	
RV-0402	C	ESS	M204/G-7	2	F	-	-	
RV-0403	C	ESS	M204/D-7	2	F	-	-	
RV-0521	C	MSS	M205/C-8	3	F	-	-	
RV-0602	C	MSS	M206/G-8	*	F	-	-	
RV-0606	C	MSS	M206/G-5	*	F	-	-	
RV-0701	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0702	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0703	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0704	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0705	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0706	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0707	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0708	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0709	C	MSS	M207/H-7	2	F	-	-	M-MSS-14

TABLE 2

TITLE: INSERVICE TESTING OF PLANT VALVES								
VALVE	SEC XI CAT.	SYSTEM/P&ID		ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
						EXERCISE	LK TEST	MAINT.
		RELIEF VALVES (Contd)						
RV-0710	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0711	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0712	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0713	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0714	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0715	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0716	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0717	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0718	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0719	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0720	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0721	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0722	C	MSS	M207/H-7	2	F	-	-	M-MSS-14
RV-0723	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0724	C	MSS	M207/H-8	2	F	-	-	M-MSS-14
RV-0783	C	MSS	M207/B-8	3	F	-	-	
RV-0915	C	CCS	M209/G-1	3	F	-	-	
RV-0939	C	CCS	M209/F-6	3	F	-	-	
RV-0954	C	CCS	M209/H-5	3	F	-	-	
RV-0955	C	CCS	M209/G-5	3	F	-	-	
RV-0956	C	CCS	M209/G-6	3	F	-	-	
RV-1008	C	RWS	M210/C-7	3	F	-	-	
RV-1068	C	RWS	M210/H-6	3	F	-	-	
RV-1069	C	RWS	M210/G-8	3	F	-	-	
RV-1111	C	RWS	M211/G-6	3	F	-	-	
RV-1114	C	RWS	M211/G-5	3	F	-	-	
RV-1115	C	RWS	M211/F-5	3	F	-	-	

TABLE 2

TITLE:		INSERVICE TESTING OF PLANT VALVES						
VALVE	SEC XI CAT.	SYSTEM/P&ID		ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
						EXERCISE	LK TEST	MAINT.
		RELIEF VALVES (Contd)						
RV-1119	C	RWS	M211/G-3	3	F	-	-	
RV-1120	C	RWS	M211/G-4	3	F	-	-	
RV-1121	C	RWS	M211/G-4	3	F	-	-	
RV-1160	C	RWS	M211/G-2	3	F	-	-	
RV-1161	C	RWS	M211/G-2	3	F	-	-	
RV-1162	C	RWS	M211/G-1	3	F	-	-	
RV-1163	C	RWS	M211/E-5	3	F	-	-	
RV-1164	C	RWS	M211/E-5	3	F	-	-	
RV-1478	C	EPS	M214/G-2	3	F	-	-	
RV-1479	C	EPS	M214/F-5	3	F	-	-	
RV-1480	C	EPS	M214/F-4	3	F	-	-	
RV-1476	C	EPS	M214/H-4	3	F	-	-	
RV-2107	C	SCS	M221/G-3	3	F	-	-	
RV-2101	C	SCS	M221/H-6	3	F	-	-	
RV-2112	C	SCS	M221/H-6	3	F	-	-	
RV-2103	C	SCS	M221/H-5	3	F	-	-	
RV-2105	C	SCS	M221/G-6	3	F	-	-	
RV-2106	C	SCS	M221/G-5	3	F	-	-	
RV-2111	C	SCS	M221/G-6	3	F	-	-	
RV-2108	C	SCS	M221/E-6	3	F	-	-	
RV-2109	C	SFP	M221/D-7	3	F	-	-	
RV2402	C	MGS	M224/B-6	3	F	-	-	
RV-2404	C	MGS	M224/B-5	3	F	-	-	

TABLE 2

TITLE:		INSERVICE TESTING OF PLANT VALVES						
VALVE	SEC XI CAT.	SYSTEM/P&ID		ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
						EXERCISE	LK TEST	MAINT.
		RELIEF VALVES (Contd)						
RV-0441	C	CAS	M225/G-8	2	F	-	-	
RV-3030A	C	CAS	M225/G-6	2	F	-	-	
RV-3030B	C	CAS	M225/G-6	2	F	-	-	
RV-3031A	C	CAS	M225/H-6	2	F	-	-	
RV-3031B	C	CAS	M225/H-6	2	F	-	-	
RV-3029A	C	CAS	M225/G-3	2	F	-	-	
RV-3029B	C	CAS	M225/G-3	2	F	-	-	
RV-3057A	C	CAS	M225/H-3	2	F	-	-	
RV-3057B	C	CAS	M225/H-3	2	F	-	-	
RV-0439	C	CAS	M225/G-1	2	F	-	-	
RV-6003	C	MSS	M226/G-7	*	F	-	-	
RV-6004	C	MSS	M226/G-6	*	F	-	-	
RV-5011	C	RWS	M650/E-8	3	F	-	-	
RV-5015	C	RWS	M650/E-5	3	F	-	-	
RV-5021	C	RWS	M650/E-6	3	F	-	-	
RV-5009	C	RWS	M650/C-6	3	F	-	-	
RV-5010	C	RWS	M650/C-6	3	F	-	-	
RV-5020	C	RWS	M650/D-6	3	F	-	-	
RV-5019	C	RWS	M650/A-5	3	F	-	-	
RV-5006	C	RWS	M650/E-2	3	F	-	-	
RV-5013	C	RWS	M650/A-6	3	F	-	-	
RV-5105	C	RWS	M651/G-2	3	F	-	-	
RV-5116	C	RWS	M651/A-8	3	F	-	-	
RV-5117	C	RWS	M651/A-8	3	F	-	-	
RV-5138	C	RWS	M651/E-5	3	F	-	-	
RV-5139	C	RWS	M651/A-7	3	F	-	-	

TABLE 2

TITLE:		INSERVICE TESTING OF PLANT VALVES					
VALVE	SEC XI CAT.	SYSTEM/P&ID	ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
					EXERCISE	LK TEST	MAINT.
		RELIEF VALVES (Contd)					
RV-5140	C	RWS M651/E-2	3	F	-	-	
RV-5141	C	RWS M651/E-4	3	F	-	-	
RV-5106	C	RWS M651/F-2	3	F	-	-	
RV-74	C	RWS Radwaste Evap M59A	3	F	-	-	
RV-75	C	RWS Radwaste Evap M59A	3	F	-	-	
RV-74	C	RWS Radwaste Evap M59B	3	F	-	-	
RV-75	C	RWS Radwaste Evap M59B	3	F	-	-	
RV-5203	C	DMW M652/F-7	3	F	-	-	
RV-5204	C	UWS M652/B-6	3	F	-	-	
RV-5206	C	UWS M652/C-6	3	F	-	-	
RV-5208A	C	DMW M652/E-6	3	F	-	-	
RV-5208B	C	DMW M652/E-6	3	F	-	-	
RV-9001	C	RWS M657/G-6	3	F	-	-	
RV-1053	C	RWS M657/D-6	3	F	-	-	
RV-9002	C	RWS M657/E-3	3	F	-	-	

TABLE 2

TITLE: INSERVICE TESTING OF PLANT VALVES									
VALVE	SEC XI CAT.	SYSTEM/P&ID			ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE		
							EXERCISE	LK TEST	MAINT.
			CHECK VALVES **						
V0155B	AC	PMW	M201/G-7	P42	2	Q/R		SO-2	-
3101ES	BC	ESS	M203/C-8		1	Q	RO-33	-	-
3116ES	BC	ESS	M203/B-8		1	Q	RO-33	-	-
3131ES	BC	ESS	M203/B-8		1	Q	RO-33	-	-
3146ES	BC	ESS	M203/A-8		1	Q	RO-33	-	-
3102ES	BC	ESS	M203/D-7		1	Q	RO-33	-	-
3117ES	BC	ESS	M203/D-6		1	Q	RO-33	-	-
3132ES	BC	ESS	M203/D-5		1	Q	RO-33	-	-
3147ES	BC	ESS	M203/D-4		1	Q	RO-33	-	-
0910CC	AC	CCS	M209/E-5	P14	2	Q/R		SO-2	-
1½"N276Y	AC	RWS	M210/G-7	P37	2	Q/R		SO-2	-
3"N238M2R	AC	RWS	M210/H-5	P41	2	Q/R		SO-2	-
3"N238M2R	AC	RWS	M210/E-1	P67	2	Q/R		SO-2	-
4"-257	AC	VAS	M215/H-3	P39	2	Q/R		SO-2	-
1½"-223	AC	SCS	M221/G-2	P11	2	Q/R		SO-2	-
1"-223	AC	MGS	M222/H-5	P26	2	Q/R		SO-2	-

TABLE 2

TITLE:		INSERVICE TESTING OF PLANT VALVES					
VALVE	SEC XI CAT.	SYSTEM/P&ID			ASME CODE CLASS	SCHED FREQ	PLANT PROCEDURE: EXERCISE / LK TEST / MAINT.
		RUPTURE DISCS					
RUD-0162	D	PCS	M201/G-6		3	None	
RD-76	D	RWS	Radwaste Evap. M59A		3	None	
RD-76	D	RWS	Radwaste Evap. M59B		3	None	
		CATEGORY E VALVES					
3234ES	E	ESS	M204/G-8	P33	2	None	
3236ES	E	ESS	M204/G-7	P33	2	None	
3237ES	E	ESS	M204/G-7	P33	2	None	
122CA	E	CAS	M212/B-2	P10	2	None	
4"N29M2DR	E	V AS	M218/E-2	P4	2	None	
4"N29M2DR	E	VAS	M218/E-2	P4	2	None	
118SFP	E	SFP	M221/C-3	P72	2	None	
117SFP	E	SFP	M221/C-3	P72	2	None	
120SFP	E	SFP	M221/C-3	P64	2	None	
121SFP	E	SFP	M221/C-3	P64	2	None	
P-1	E	ILRT	N/A	P27	2	None	
P-2	E	ILRT	N/A	P27	2	None	
P-3	E	ILRT	N/A	P27	2	None	
604VA	E	ILRT	N/A	P27	2	None	
605VA	E	ILRT	N/A	P27	2	None	

* Quality Group D Or unclassed valves.

** Category A Valves within these groups tested at Containment Penetration LLRT Pressure vice full system functional d/p per Tech. Specs.