

**Florida  
Power**  
CORPORATION

Crystal River Unit 3  
Docket No. 50-302

May 16, 1991  
3F0591-04

Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D.C. 20555

Subject: Appendix J, Type B and C Testing Exemption/Relief Request

Reference: A. FPC to NRC - Letter dated January 31, 1991

Dear Sir:

Florida Power Corporation (FPC) requested an extension (Reference A) for performing certain leak rate testing. The Crystal River Unit 3's Refuel 8 outage start date has since been rescheduled. The new start date for the refueling outage is April 30, 1992, six months earlier than previously planned. Hence, FPC is hereby revising the requests provided in Reference A and supplying additional information to assist in your evaluation.

**REVISED REQUESTS:**

Reference A requested a seven-month extension to the Appendix J testing interval. Due to the change in the refuel start date, only a three-month extension is now needed. Relief Request No. 374 was also discussed in Reference A. This request sought a one-time change to the leakage testing frequency required by ASME Section XI, Article IWV-3422. For the same reason indicated above, only a three-month extension is now needed.

FPC will also submit under separate cover a one-time change to Technical Specification 4.6.1.2 (d) to extend the 24-month interval required for Type B and C testing until the end of Refuel 8.

Adm  
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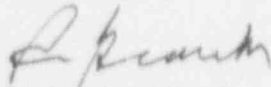
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**ADDITIONAL INFORMATION:**

Attachment 1 provides supplemental information in response to requests made informally by members of the NRC staff. The Staff requested the failure history in a per valve/penetration format for the exemption/relief requested in Reference A. The attachment contains a list of penetrations and valves to be considered in the evaluation of Reference A, the date and results of previous Local Leak Rate Testing performed on those valves, and their specific acceptance criteria. Feedwater Check Valves FWV-43 and FWV-44 are leak tested to fulfill the requirements of ASME, Section XI, IWV-3422. These valves are within the scope of Relief Request No. 374 but are not under the Appendix J scope.

FPC is requesting exemption/relief for all valves included in Attachment 1. However, FPC will leak test several of the valves listed (noted in the Attachment) after scheduled maintenance is performed during the Mid-Cycle 8 (8M) maintenance outage (October through November, 1991) as currently planned.

Sincerely,



P. M. Beard, Jr.  
Senior Vice President  
Nuclear Operations

PMB:LVC

Attachment

xc: Regional Administrator, Region II  
NRR Project Manager  
Senior Resident Inspector

CRYSTAL RIVER UNIT 3  
LEAK RATE TESTING RESULTS (SCCM)  
1990/1989

ATTACHMENT 1  
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Penetration	System	Date	Inboard Isolation Valves			Outboard Isolation Valves		
			Valve No./ Acceptance Criteria	As-Found	As-Left	Valve No./ Acceptance Criteria	As-Found	As-Left
305	Post Accident Hydrogen Purge	03/27/90	LRV-73 ≤ 9576	30.0	30.0	LRV-72 ≤ 9576	35.0	35.0
306	Post Accident Hydrogen Purge	03/26/90	LRV-70 ≤ 3192	57.7	57.7	LRV-71 ≤ 9576	59.8	59.8
110	Station Air	03/17/90 05/05/89	SAV-24 ≤ 4788	98.9 1442.0	98.9 1442.0	SAV-122 SAV-23 ≤ 4788	1701.0 6300.0	1701.0 471.0
111	Instrument Air	03/17/90 02/28/89	N/A	N/A	N/A	IAV-28 ≤ 3192	20.0 20.0	20.0 20.0
112	Instrument Air	03/17/90 02/20/89	N/A	N/A	N/A	IAV-29 ≤ 3192	49.2 43.8	49.2 43.8
113	Air Handling	12/16/90 09/29/89	AHV-1C **			AHV-1D # ≤ 2500	925.0 988.0	912.0 1059.0
116	Reactor Building Leak Rate	03/27/90 03/25/89	LRV-45 ≤ 3192	2.0 20.0	2.0 20.0	LRV-46 ≤ 1596	69.4 295.0	69.4 295.0
117	Demin. Water	04/03/90 03/30/89	DWV-162 ≤ 4788	2.0 6570.0	2.0 2190.0	DWV-160 ≤ 4788	188.2 537.0	188.2 281.0
121	Reactor Building Leak Rate	03/27/90 03/15/89	N/A	N/A	N/A	LRV-50 ≤ 12,768	331.0 116.0	331.0 116.0
		03/27/90 03/15/89	N/A	N/A	N/A	LRV-36 ≤ 12,768	324.0 134.9	324.0 134.9
		03/27/90 03/15/89	N/A	N/A	N/A	LRV-90 ≤ 4788	128.7 117.6	128.7 117.6
		03/27/90 03/15/89	N/A	N/A	N/A	LRV-89 ≤ 4788	124.1 118.6	124.1 118.6

\* AHV-1C leakage is combined with AHV-1D.  
# Planned maintenance during 8M.

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Penetration	System	Date	Inboard Isolation Valves			Outboard Isolation Valves		
			Valve No./ Acceptance Criteria	As-Found	As-Left	Valve No./ Acceptance Criteria	As-Found	As-Left
122	Reactor Building Leak Rate	03/26/90 03/15/89	N/A "	N/A "	N/A "	LRV-88 ≤ 4788	20.0 42.6	20.0 42.6
		03/26/90 03/15/89	N/A "	N/A "	N/A "	LRV-87 ≤ 4788	20.0 51.6	20.0 51.6
123	Core Flood	03/21/90 03/14/89	CFV-20 ≤ 1596	3820.0 1587.0	374.0 1587.0	CFV-28 ≤ 1596	13.0 41.4	13.0 41.4
124	Core Flood	03/21/90 03/14/90	CFV-17 ≤ 1596	336.0 202.0	189.0 202.0	CFV-27 ≤ 1596	20.0 20.0	20.0 20.0
125	Reactor Building Leak Rate	03/28/90 03/15/89	N/A "	N/A "	N/A "	LRV-94 ≤ 4788	665.0 1536.0	665.0 1536.0
		03/28/90 03/15/89	N/A "	N/A "	N/A "	LRV-93 ≤ 4788	657.0 1575.0	655.0 1575.0
		03/28/90 03/15/89	N/A "	N/A "	N/A "	LRV-92 ≤ 4788	87.0 286.0	87.0 286.0
		03/28/90 03/15/89	N/A "	N/A "	N/A "	LRV-91 ≤ 4788	65.0 285.0	65.0 285.0
202	Reactor Building Leak Rate	03/24/90 03/15/89	N/A "	N/A "	N/A "	LRV-44 ≤ 3192	20.2 20.0	20.2 20.0
206	Industrial Cooling	03/23/90 03/01/89	N/A "	N/A "	N/A "	CIV-41 ≤ 3990	82.0 300.0	82.0 300.0
207	Industrial Cooling	03/27/90 03/01/89	N/A "	N/A "	N/A "	CIV-40 ≤ 3990	15.0 20.0	15.0 20.0

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Penetration	System	Date	Inboard Isolation Valves			Outboard Isolation Valves		
			Valve No./ Acceptance Criteria	As-Found	As-Left	Valve No./ Acceptance Criteria	As-Found	As-Left
306W	Conta Monit.	03/28/90	WSV-32	21.0	21.0	WSV-23	19.4	19.4
		03/17/89	≤ 798	20.0	20.0	≤ 798	20.0	20.0
		03/28/90	WSV-28	18.3	18.3	WSV-29	14.5	14.5
		03/17/89	≤ 798	20.0	20.0	≤ 798	20.0	20.0
		03/28/90	WSV-26	14.9	14.9	WSV-27	14.8	14.8
		03/17/89	≤ 798	20.0	20.0	≤ 798	20.0	20.0
314	Main Steam	03/21/90 03/10/89	N/A "	N/A "	N/A "	MSV-146 ≤ 6384	12050.0 1606.0	2100.0 1606.0
315	Containment Monitoring	04/05/90 03/17/89	WSV-3 # ≤ 1596	91.3 20.0	91.3 20.0	WSV-4 # ≤ 1596	73.3 20.0	73.3 20.0
316	Main Steam	03/22/90 03/09/89	N/A "	N/A "	N/A "	MSV-114 ≤ 2394	5.0 20.0	5.0 20.0
317	Nitrogen	03/20/90 03/17/89	N/A "	N/A "	N/A "	NGV-81 ≤ 2394	750.0 362.0	750.0 362.0
318	Main Steam	03/20/90 03/10/89	N/A "	N/A "	N/A "	MSV-128 ≤ 6384	20.0 20.0	20.0 20.0
320	Main Steam	03/23/90 03/09/89	N/A "	N/A "	N/A "	MSV-132 ≤ 2394	1015.0 312.0	1015.0 312.0
329	Decay Heat	03/22/90 04/03/89	DHV-93 ≤ 3192	20.0 20.0	20.0 20.0	DHV-91 ≤ 3192	20.0 2.0	20.0 20.0
332	Containment Monitoring	04/05/90 03/17/89	WSV-5 # ≤ 1596	7.8 20.0	7.8 20.0	WSV-6 # ≤ 1596	23.9 20.0	23.9 20.0

# Planned maintenance during 8M.

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Penetration	System	Date	Inboard Isolation Valves			Outboard Isolation Valves		
			Valve No./ Acceptance Criteria	As-Found	As-Left	Valve No./ Acceptance Criteria	As-Found	As-Left
333	Make Up	05/24/90	MUV-40	220.0	20.0	MUV-49	1976.0	1976.0
		05/10/89	≤ 3990	160.0	175.0	≤ 3990	274.0	90.2
		05/24/90	MUV-41	2340.0	1860.0	N/A	N/A	N/A
		05/10/89	≤ 3990	100.0	256.0	"	"	"
		05/24/90	MUV-505	353.0	23.8	N/A	N/A	N/A
		05/10/89	≤ 4788	1857.0	1857.0	"	"	"
339	Waste Disposal	06/07/90	WDV-3	1825.0	1178.0	WDV-4	152.4	152.4
		03/21/89	≤ 6384	2190.0	2190.0	≤ 6384	680.0	680.0
347	Spent Fuel	03/28/90	SFV-18 *			SFV-19	13.6	13.6
		03/11/89		62.7	62.7	≤ 31,920	83.7	83.7
349	Waste Disposal	05/09/90	WDV-60	227.0	1083.0	WDV-61	234.0	234.0
		03/21/89	≤ 3192	20.0	20.0	≤ 3192	20.0	20.0
350	Core Flood	03/21/90	CFV-18	275.0	325.0	CFV-26	172.0	172.0
		03/14/89	≤ 1596	649.0	649.0	≤ 1596	176.2	176.2
351	Core Flood	03/21/90	CFV-15	413.0	548.0	CFV-29	431.0	431.0
		03/11/89	≤ 1596	20.0	20.0	≤ 2394	20.0	20.0
		03/21/90	CFV-16	145.3	70.6	N/A	N/A	N/A
		03/11/89	≤ 1596	20.0	20.0	"	"	"
352	Core Flood	03/20/90	CFV-11	435.0	20.0	CFV-42	640.0	20.0
		03/11/89	≤ 1596	20.0	20.0	≤ 1596	20.0	20.0
		03/20/90	CFV-12	740.0	20.0	N/A	N/A	N/A
		03/11/89	≤ 1596	20.0	20.0	"	"	"
354	Waste Disposal	05/25/90	WDV-406	1130.0	237.0	WDV-405	1172.0	227.0
		03/20/89	≤ 2394	1574.0	1574.0	≤ 2394	749.0	749.0
355	Nitrogen	03/20/90	N/A	N/A	N/A	NGV-62	1670.0	1670.0
		03/17/89	"	"	"	≤ 2394	877.0	877.0

\* SFV-18 leakage is combined with SFV-19.

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			Valve No./ Acceptance Criteria	As-Found	As-Left	Valve No./ Acceptance Criteria	As-Found	As-Left
356	Containment Monitoring	03/28/90	WSV-1	16.0	16.0	WSV-2	15.4	15.4
		03/16/89	≤ 1596	20.0	20.0	≤ 1596	20.0	20.0
		03/28/90	WSV-34	16.1	16.1	WSV-35	15.7	15.7
		03/16/89	≤ 798	20.0	20.0	≤ 798	20.0	20.0
		03/28/90	WSV-30	16.0	16.0	WSV-31	15.6	15.6
		03/16/89	≤ 798	20.0	20.0	≤ 798	20.0	20.0
		03/28/90	WSV-38	15.7	15.7	WSV-39	15.8	15.8
		03/16/89	≤ 798	20.0	20.0	≤ 798	20.0	20.0
357	Air Handling	12/16/90	AHV-1B			AHV-1A	914.0	1317.0
		09/29/89				≤ 2500	819.0	797.0
366	Industrial Cooling	03/23/90	N/A	N/A	N/A	CIV-34	15.0	15.0
		03/02/89	"	"	"	≤ 3990	100.0	100.0
367	Industrial Cooling	03/23/90	N/A	N/A	N/A	CIV-35	650.0	650.0
		03/02/89	"	"	"	≤ 3990	326.0	326.0
372	Nitrogen	03/20/90	N/A	N/A	N/A	NGV-82	37.0	37.0
		03/17/89	"	"	"	≤ 1596	167.4	167.4
373	Core Flood	03/21/90	CFV-19	1472.0	236.0	CFV-25	190.4	190.4
		03/14/89	≤ 1596	312.0	312.0	≤ 1596	470.0	470.0
374	Waste Disposal	03/26/90	WDV-94	20.0	885.0	WDV-62	20.0	20.0
		03/18/89	≤ 4788	20.0	20.0	≤ 4788	255.0	255.0
376	Containment Monitoring	03/28/90	WSV-41	7.3	7.3	WSV-40	8.1	8.1
		03/17/89	≤ 798	20.0	20.0	≤ 798	20.0	20.0
		03/28/90	WSV-42	5.2	5.2	WSV-43	7.0	7.0
		03/17/89	≤ 798	20.0	20.0	≤ 798	20.0	20.0

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Penetration	System	Date	Inboard Isolation Valves			Outboard Isolation Valves		
			Valve No./ Acceptance Criteria	As-Found	As-Left	Valve No./ Acceptance Criteria	As-Found	As-Left
377	Make Up	05/04/90	MUV-260	146.7	1088.0	MUV-253	564.0	564.0
		03/30/89	≤ 1596	65.2	20.0	≤ 1596	126.0	126.0
		05/04/90	MUV-261	20.0	194.7	N/A	N/A	N/A
		03/30/89	≤ 1596	20.0	20.0	"	"	"
		05/04/90	MUV-259	2.0	20.0	"	"	"
425	Chemical Addition	03/30/89	≤ 1596	22.4	22.4	"	"	"
		05/04/90	MUV-258	122.4	147.8	N/A	N/A	N/A
		03/30/89	≤ 1596	411.0	411.0	"	"	"
		03/22/90	CAV-433	32.0	32.0	CAV-435	30.0	30.0
		03/08/89	≤ 598	108.6	108.6	≤ 598	106.8	106.8
427	Main Steam	03/22/90	CAV-434	250.0	250.0	CAV-436	250.0	250.0
		03/08/89	≤ 598	109.9	109.9	≤ 598	109.2	109.2
428	Main Steam	03/19/90	N/A	N/A	N/A	MSV-130 #	200.0	200.0
		03/06/89	"	"	"	≤ 4788	106.2	106.2
430	Fire Service	03/19/90	N/A	N/A	N/A	MSV-148 #	345.0	345.0
		03/06/89	"	"	"	≤ 4788	882.0	882.0
439	Chemical Addition	03/19/90	FSV-262	1400.0	1400.0	FSV-261	1850.0	1850.0
		03/25/89	≤ 6384	25.4	25.4	≤ 6384	40.5	40.5
(Cont'd)	Chemical Addition	04/04/90	CAV-126	20.0	47.4	CAV-2 #	20.0	20.0
		04/23/89	≤ 598	100.0	20.0	≤ 1596	412.0	412.0
		04/04/90	CAV-1	20.0	96.4	CAV-431 #	20.0	20.0
		04/23/89	≤ 598	1878.0	20.0	≤ 598	1194.0	580.0
		04/04/90	CAV-3	.0	68.9	CAV-432 #	20.0	20.0
		04/23/89	≤ 598	2670.0	190.0	≤ 598	10200.0	136.0

# Planned Maintenance During 8M.

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1990/1989

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Penetration	System	Date	Inboard Isolation Valves			Outboard Isolation Valves		
			Valve No./ Acceptance Criteria	As-Found	As-Left	Valve No./ Acceptance Criteria	As-Found	As-Left
439 (Cont'd)	Chemical Addition	04/04/90	CAV-429	48.0	48.0	N/A	N/A	N/A
		04/23/89	≤ 598	100.0	100.0	"	"	"
		04/04/90	CAV-430	260.0	260.0	N/A	N/A	N/A
		04/23/89	≤ 598	100.0	100.0	"	"	"
440	Chemical Addition	03/24/90	CAV-4	225.0	313.0	CAV-6	950.0	950.0
		03/08/89	≤ 598	20.0	20.0	≤ 1596	20.0	20.0
441	Chemical Addition	03/23/90	CAV-5 #	1037.0	360.0	CAV-7	976.0	976.0
		03/08/89	≤ 598	227.0	227.0	≤ 1596	649.0	649.0

# Planned maintenance during 8M.

ADDITIONAL PENETRATIONS REQUIRED BY ASME SECTION XI

Penetration	System	Date	Valve No.	Acceptance Criteria	Results
109	Feedwater	04/09/90	FWV-43	≤ 612.0	0.0 ml/hr
424	Feedwater	04/09/90	FWV-44	≤ 612.0	0.0 ml/hr