

Date September 28, 1984

To Bob Denning From Carl Lovell *CL*
Org. NRC-AEOD Org. Reliability & Statistics
Address Bethesda, MD Address EG&G Idaho, Inc. - Idaho Falls, ID

Enclosed are the preliminary results of the second quarter 1984 Nuclear Plant Reliability Data System (NPRDS) Quality Assurance and Data Review. From the summary tables and graphs several observations can be made.

- o The number of NPRD failure reports submitted during the current quarter appear to be increasing (Figure of transactions and APPENDIX E tables).
- o The total number of new matches for all LERs evaluated in this phase is lower than many previous phases. Only 37 new matches were located with 22 of those matches occurring in the sample for the first quarter of 1984. Additionally, the number of matches found for the current quarter LERs is down slightly from the previous three quarters experience (Match timetables and table 5).
- o The net change in the number of engineering data forms on file for many plants is negative. This is probably evidence that the rescope is in progress. The forms are either out of the data file for usage or have been deleted due to the rescope. However, few plants had a net decrease in the number of failure reports on file.

Notable on these tables are the new plants which are starting their engineering data files, i.e., [REDACTED] and [REDACTED]. Also, [REDACTED] has commenced NPRDS reporting.

- o During the NPRD failure report quality evaluation the number of forms judged to be inadequate increased 5%. However, this does not appear to be a significant amount with the increase in plants.

WS
Enclosure: As Stated

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PDR ORG EPSINPO PDR

	3rd Quarter 1983	4th Quarter 1983	1st Quarter 1984	2nd Quarter 1984
Adequate	50% } 82%	71% } 95%	63% } 97%	46% } 92%
Probably Adequate	32% }	24% }	34% }	46% }
Inadequate	18%	5%	3%	8%
Total Number of Plants	60	62	68	72

TABLE 1. LER/NPRD-4 COMPARISON

	<u>Phase H</u>	<u>Phase I</u>	<u>Phase J</u>	<u>Phase K</u>	<u>Total/%</u>
<u>NPRD-4 Narrative</u>					
Acceptable	69%	82%	75%	70%	185/73%
Sketchy	11%	12%	9%	11%	27/11%
Very sketchy	3%	2%	0%	1%	6/2%
Other	17%	4%	16%	16%	35/14%
<u>LER Compatibility^a</u>					
LER compatible	70%	22%	51%	57%	137/54%
Component code differs	4%	27%	11%	5%	26/10%
System code differs	16%	59% ^b	29% ^b	2%	72/28%
LER contains more information	5%	0%	18%	2%	24/10%
Information differs from LER	5%	2%	2%	0%	8/3%
<u>Coding Consistent with Narrative^c</u>					
Acceptable	45%	--	--	--	50/45%
Coding provides additional information	0%	--	--	--	0/0%
Coding missing from narrative	30%	--	--	--	33/30%
Other	25%	--	--	--	27/25%
<u>Total Number of NPRD-4s Evaluated</u>	110	51	55	37	253/100%

a. The total percentage might exceed 100 percent due to multiple compatibility problems with some matches.

b. INPO initiated system code realignment has caused these system inconsistencies.

c. Partial Revision 10 code conversion made coding analysis inappropriate for Phases I and J. The total percentage is based on totals of Phases F through H (176).

TABLE 3. TOTAL PLANT FORM COUNT^a

Plant	NPRD-2 Forms				NPRD-4 Forms			
	Phase II	Phase I	Phase J	Phase K	Phase II	Phase I	Phase J	Phase K
	3,794	3,754	3,779	3,709	393	403	416	432
	1,789	1,786	1,788	1,709	78	84	94	125
	3,471	3,459	3,474	3,511	699	754	842	866
	3,666	3,664	3,670	3,559	821	845	953	904
	3,998	3,997	3,998	3,861	170	178	180	174
	2,402	2,402	2,404	2,328	150	153	155	149
	2,015	2,015	2,015	1,932	91	95	96	94
	3,211	3,211	3,211	3,186	243	267	291	285
	--	--	--	499	--	--	--	--
	4,453	4,453	4,453	4,320	568	592	635	688
	3,945	3,945	3,945	3,821	309	319	344	382
	6	166	3,529	3,438	6	38	379	383
	5,263	5,261	5,271	5,099	238	242	281	333
	--	--	45	52	--	--	8	12
	3,660	3,655	3,657	3,266	951	975	1,061	1,049
	1,544	1,576	1,616	1,601	86	100	110	119
	1,490	1,513	1,555	1,538	4	9	19	31
	3,505	3,508	3,508	3,498	267	275	284	270
	3,382	3,382	3,382	3,308	194	197	199	191
	--	128	2,410	4,129	--	--	--	--
	53	741	4,261	5,370	48	113	133	144
	35	65	65	1,516	22	52	52	57
	5	9	14	27	5	9	17	30
	1,366	1,472	3,856	4,649	0	0	230	346
	22	63	63	3,837	0	1	4	53
	3,172	3,173	3,176	3,144	289	302	350	350
	2,384	2,389	2,392	2,350	353	371	379	377
	3,708	3,704	3,711	3,558	326	326	340	324
	10	173	526	518	13	39	91	117
	5,270	5,270	5,270	5,128	91	95	214	372
	3,142	3,136	3,151	3,089	43	43	55	76
	144	144	157	169	19	19	32	44
	5,931	4,861	4,939	4,852	799	679	773	1,160
	--	--	558	2,543	--	--	6	--
	--	--	8	321	--	--	--	39

TABLE 3. (continued)

Plant	NPRD-2 Forms				NPRD-4 Forms			
	Phase II	Phase I	Phase J	Phase K	Phase II	Phase I	Phase J	Phase K
	--	--	1	57	--	--	--	18
	6,657	6,654	6,654	6,176	84	83	112	203
	--	4,793	4,793	4,523	--	--	--	4
	3,891	3,885	3,893	3,856	487	485	488	466
	3,701	3,791	4,275	4,107	402	418	455	454
	3,697	3,699	3,710	3,567	546	604	631	621
	2,009	2,726	2,729	2,624	301	322	337	336
	1,196	2,306	2,871	2,935	4	15	24	22
	81	330	404	458	3	24	36	38
	3,519	3,516	3,516	3,394	115	139	140	143
	3,208	3,205	3,205	3,099	66	122	129	154
	3,210	3,210	3,210	3,110	97	111	111	127
	2,094	2,094	2,095	2,113	242	242	269	261
	3,422	3,455	3,978	3,975	106	123	268	331
	2,090	2,083	2,083	1,912	300	351	351	342
	2,294	2,289	2,386	2,343	185	186	204	202
	1,916	1,920	1,953	1,940	177	176	186	179
	3,134	3,137	3,137	3,095	242	256	259	262
	2,646	2,649	2,649	2,603	126	156	170	169
	3,042	3,018	3,033	2,908	238	242	256	244
	2,844	2,816	2,835	2,742	218	222	234	228
	--	--	--	8	--	--	--	--
	1,907	1,910	1,919	1,906	123	126	156	159
	2,655	2,654	2,671	2,625	399	395	408	400
	2,443	2,438	2,455	2,440	204	204	211	222
	2,714	2,714	2,714	2,556	87	88	88	86
	2,794	2,774	2,782	2,713	73	69	85	113
	1,549	3,265	3,266	3,121	6	9	13	19
	4,262	0	0	559	196	0	0	20
	0	0	0	542	0	0	0	13
	1,477	1,308	1,513	1,804	55	44	68	128
	1,011	1,250	1,387	1,410	5	25	74	112
	14	14	52	154	19	19	56	159
	10	10	53	100	17	17	59	90
	--	8,717	8,717	8,248	--	--	--	--

TABLE 3. (continued)

Plant	NPRD-2 Forms				NPRD-4 Forms			
	Phase H	Phase I	Phase J	Phase K	Phase H	Phase I	Phase J	Phase K
[REDACTED]	2,681	2,668	2,704	2,565	186	195	237	222
	2,671	3,461	3,536	3,203	11	44	119	135
	--	--	--	3,183	--	--	--	13
	1,097	1,346	1,475	1,595	19	59	79	92
	1,012	1,170	1,200	1,458	40	61	73	96
	3,001	2,957	3,198	3,017	29	54	75	120
	1,184	1,184	1,184	1,094	2	2	2	2
	4,605	4,601	4,601	4,834	157	168	168	173
	1,864	1,905	2,083	2,522	44	87	129	171
	1,763	1,783	1,910	2,322	29	69	75	96
	--	--	--	1,726	--	--	--	8
	3,036	3,034	3,062	3,016	443	454	463	454
	2,658	2,717	2,954	3,164	219	311	338	375
	2,592	2,671	2,681	3,107	230	329	338	342
	Total	181,367	195,362	211,544	226,124	13,808	14,681	16,997

a. A double-dash (--) indicates that the plant had no forms on the data-base tape and a zero indicates that the plant had forms on the data-base tape but did not have any NPRD-2 and/or NPRD-4 forms on the data-base tape.

TABLE 4. PLANT FORM COUNT CHANGES

Plant	NPRD-2 Form Changes				NPRD-4 Form Changes			
	NPRD-2 Forms Third Quarter-03	Fourth Quarter-03	First Quarter-04	Second Quarter-04	NPRD-4 Forms Third Quarter-03	Fourth Quarter-03	First Quarter-04	Second Quarter-04
	3,794	-40	+25	-70	393	+10	+13	+16
	1,789	-3	+2	+1	78	+6	+10	+31
	3,471	-12	+15	+37	699	+55	+88	+24
	3,666	-2	+6	-111	821	+24	+100	+31
	3,990	-1	+1	-137	170	+0	+2	-6
	2,402	--	+2	-76	150	+3	+2	-6
	2,015	--	--	-83	91	+4	+1	-2
	3,211	--	--	-25	243	+24	+24	-6
	--	--	--	+499	--	--	--	--
	4,453	--	--	-133	560	+24	+43	+53
	3,945	--	--	-124	309	+10	+25	+38
	6	+160	+3,363	-91	6	+32	+341	+4
	5,263	-2	+10	-172	230	+4	+39	+52
	--	--	+45	+7	--	--	+8	+4
	3,660	-5	+2	-391	951	+24	+86	-12
	1,544	+32	+40	-15	86	+14	+10	+9
	1,490	+23	+42	-17	4	+5	+10	+12
	3,505	+3	--	-90	267	+0	+9	-14
	3,302	--	--	-74	194	+3	+2	-0
	--	+120	+2,202	+1,719	--	--	--	--
	53	+600	+3,520	+1,109	48	+65	+20	+11
	35	+30	--	+1,451	22	+30	--	+5
	5	+4	+5	+13	5	+4	+8	+13
	1,366	+106	+2,304	+793	0	--	+230	+116
	22	+41	--	+3,774	0	+1	+3	+49
	3,172	+1	+3	-32	289	+13	+48	--
	2,384	+5	+3	-42	353	+18	+8	-2
	3,700	-4	+7	-153	326	--	+14	-16
	10	+163	+353	-8	13	+26	+52	+26
	5,270	--	--	-142	91	+4	+119	+158
	3,142	-6	+15	-62	43	--	+12	+21
	144	--	+13	+12	19	--	+13	+12
	5,931	-1,070	+78	-87	799	-120	+94	+307
	--	--	+550	+1,985	--	--	--	--
	--	--	+0	+313	--	--	+6	+33

TABLE 4. (continued)

Plant	NPRD-2 Form Changes				NPRD-4 Form Changes			
	NPRD-2 Forms Third Quarter-83	Fourth Quarter-83	First Quarter-84	Second Quarter-84	NPRD-4 Forms Third Quarter-83	Fourth Quarter-83	First Quarter-84	Second Quarter-84
	--	--	+1	+56	--	--	--	+10
	6,657	-3	--	-478	84	-1	+29	+91
	--	+4,793	--	-270	--	--	--	+4
	3,891	-6	+8	-37	487	-2	+3	-22
	3,701	+90	+484	-168	402	+16	+37	-1
	3,697	+2	+11	-143	546	+58	+27	-10
	2,809	-83	+3	-105	301	+21	+15	-1
	1,196	+1,110	+565	+64	4	+11	+9	-2
	81	+249	+74	+54	3	+21	+12	+2
	3,519	-3	--	-122	115	+24	+1	+3
	3,208	-3	--	-106	66	+56	+7	+25
	3,210	--	--	-100	97	+14	--	+16
	2,094	--	+1	+18	242	--	+27	-8
	3,422	+33	+523	-3	106	+17	+145	+63
	2,090	-7	--	-171	300	+51	--	-9
	2,294	-5	+97	-43	185	+1	+18	-2
	1,916	+4	+33	-13	177	-1	+10	-7
	3,134	+3	--	-42	242	+14	+3	+3
	2,646	+3	--	-46	126	+30	+14	-1
	3,042	-24	+15	-125	238	+4	+14	-12
	2,844	-28	+19	-93	218	+4	+12	-6
	--	--	--	+8	--	--	--	--
	1,907	+3	+9	-13	123	+3	+30	+3
	2,655	-1	+17	-46	399	-4	+13	-8
	2,443	-5	+17	-15	204	--	+7	+11
	2,714	--	--	-158	87	+1	--	-2
	2,794	-20	+8	-69	73	-4	+16	+28
	1,549	+1,716	+1	-145	6	+3	+4	+6
	4,262	-4,262	--	+559	196	-196	--	+20
	0	--	--	+542	0	--	--	+13
	1,477	-89	+125	+291	55	-11	+24	+60
	1,011	+239	+137	+23	5	+20	+49	+38
	14	--	+30	+102	19	--	+37	+103
	10	--	+43	+47	17	--	+42	+31
	--	+8,717	--	-469	--	--	--	--

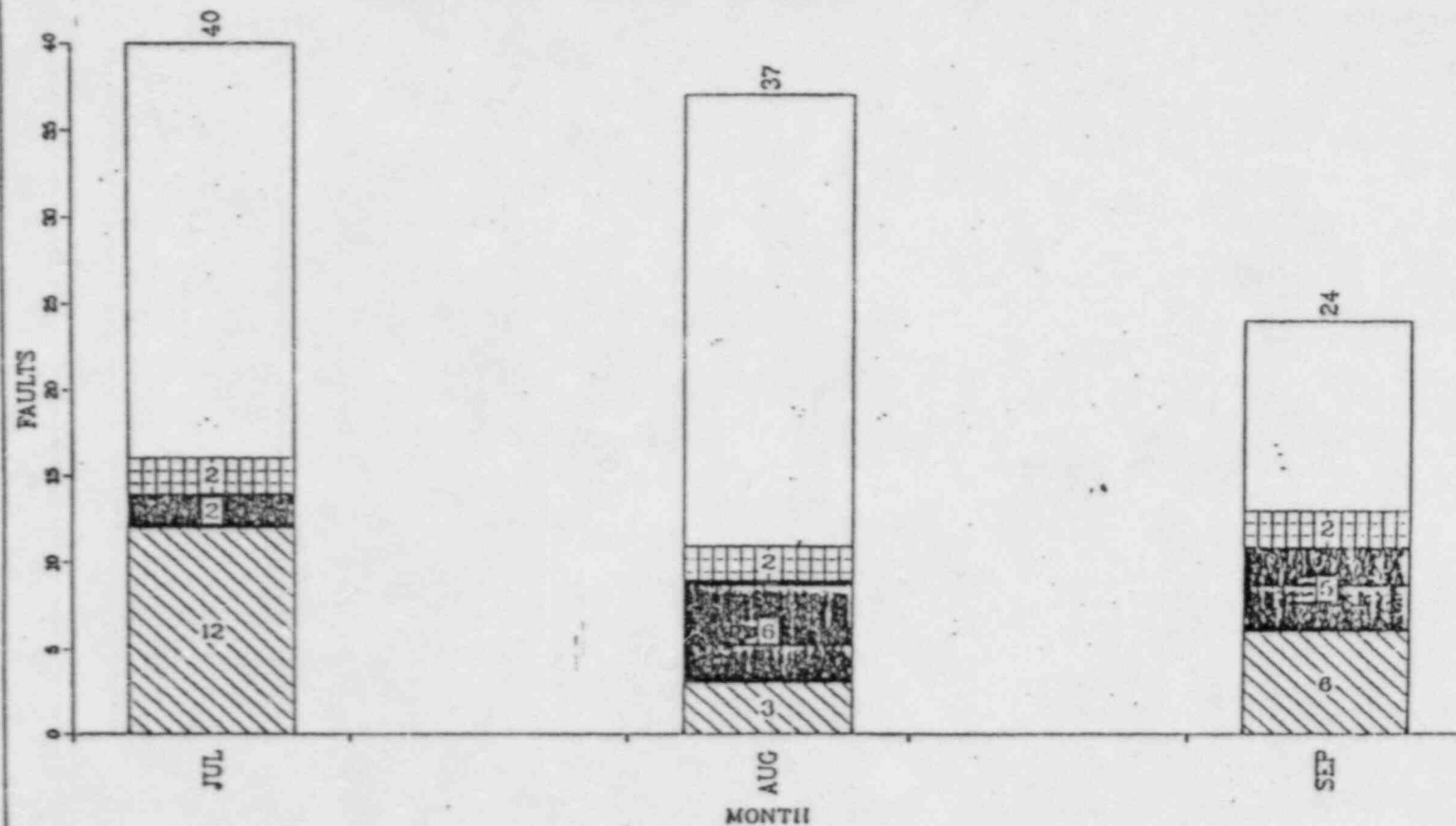
TABLE 4. (continued)

Plant	NPRD-2 Form Changes				NPRD-4 Form Changes			
	NPRD-2 Forms Third Quarter-03	Fourth Quarter-03	First Quarter-04	Second Quarter-04	NPRD-4 Forms Third Quarter-03	Fourth Quarter-03	First Quarter-04	Second Quarter-04
	2,681	-13	+36	-139	106	+9	+42	-15
	2,671	+790	+75	-253	11	+33	+75	+16
	--	--	--	+3,183	--	--	--	+13
	1,097	+249	+129	+120	19	+40	+20	+13
	1,012	+158	+110	+170	40	+21	+12	+23
	3,001	-44	+241	-181	29	+25	+21	+45
	1,184	--	--	-90	2	--	--	--
	4,605	-4	--	+233	157	+11	--	+5
	1,864	+41	+178	+439	44	+43	+42	+42
	1,763	+20	+127	+412	29	+40	+6	+21
	--	--	--	+1,726	--	--	--	+8
	3,036	-2	+28	-46	443	+11	+9	-9
	2,650	+59	+237	+210	219	+92	+27	+37
	2,592	+79	+10	+426	230	-1	+9	+4
	Total	181,367	+13,995	+16,102	13,000	+772	+2,316	+1,683

PHASE H LER/NPRD MATCH TIMETABLE - 2ND QTR 84

LEGEND

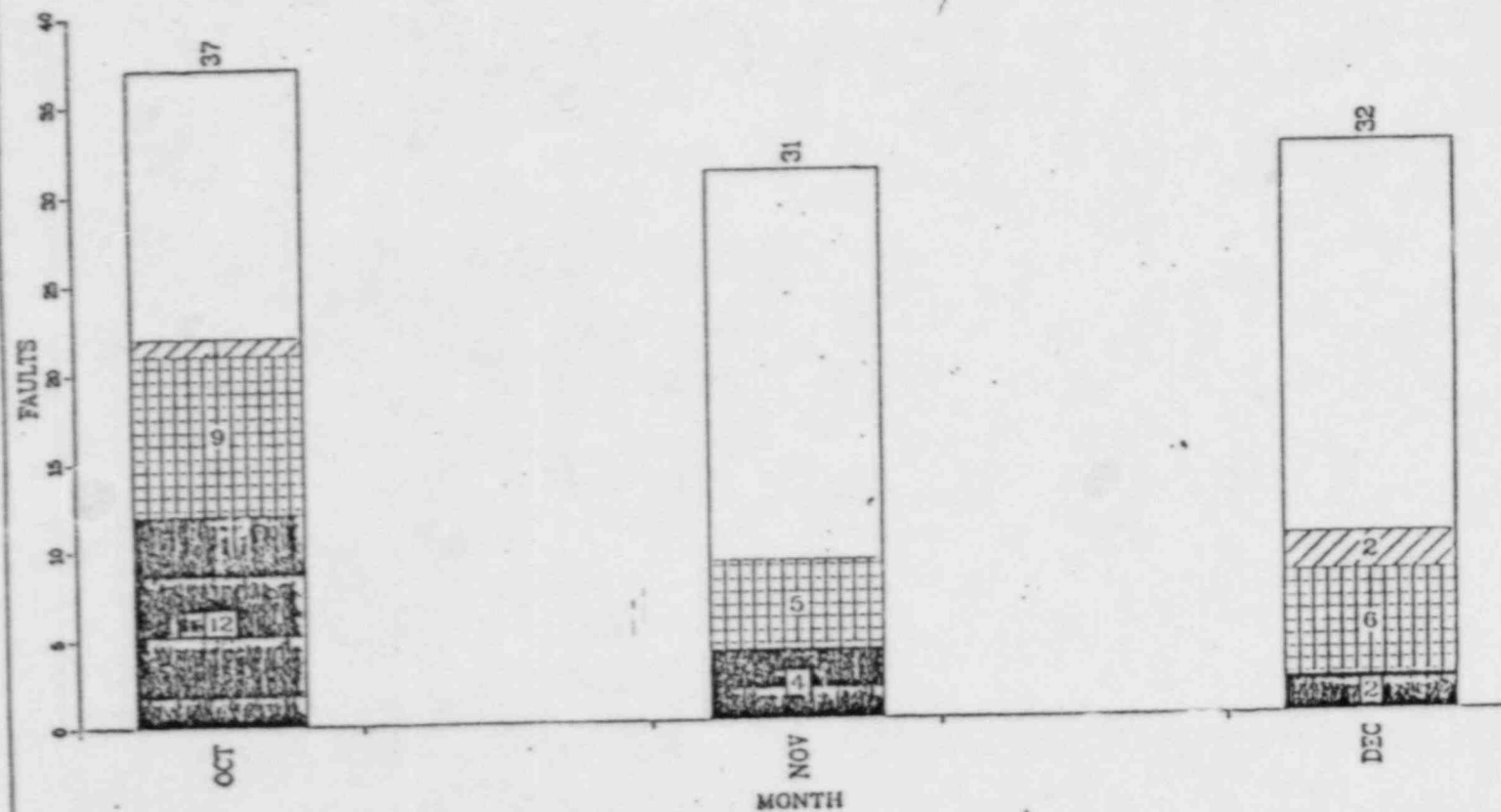
[Diagonal lines] NPRD-4 MATCHES FROM 1ST QTR 84 [White box] LER FAULTS
 [Cross-hatch] NPRD-4 MATCHES FROM 4TH QTR 83 [Horizontal lines] NPRD-4 MATCHES FROM 2ND QTR 84
 [Vertical lines] NPRD-4 MATCHES FROM 3RD QTR 83



PHASE I LER/NPRD MATCH TIMETABLE - 2ND QTR 84

LEGEND

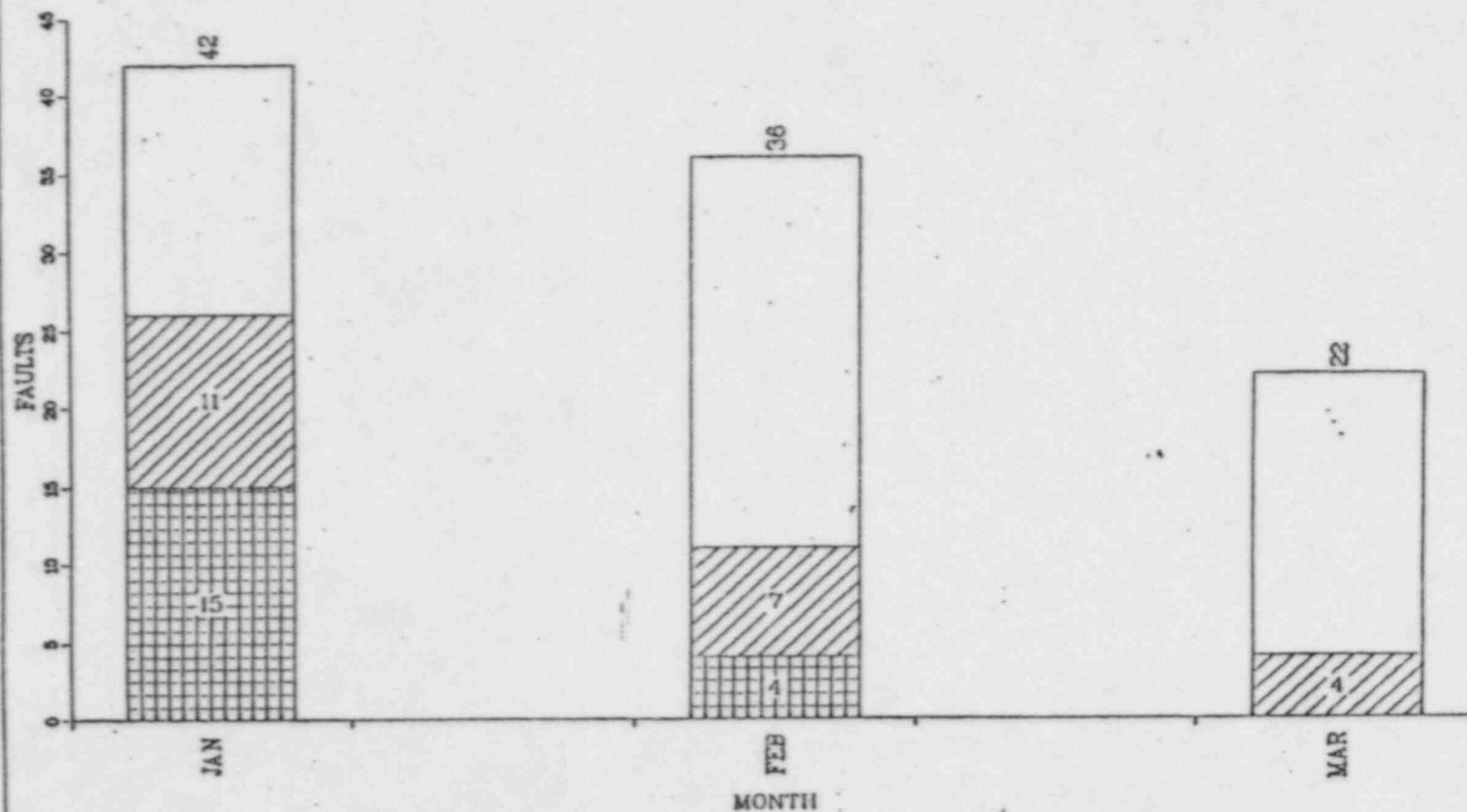
[Grid Pattern] NPRD-4 MATCHES FROM 1ST QTR 84 [White Box] LER FAULTS
 [Stippled Pattern] NPRD-4 MATCHES FROM 4TH QTR 83 [Diagonal Lines] NPRD-4 MATCHES FROM 2ND QTR 84



PHASE J LER/NPRD MATCH TIMETABLE - 2ND QTR 84

LEGEND

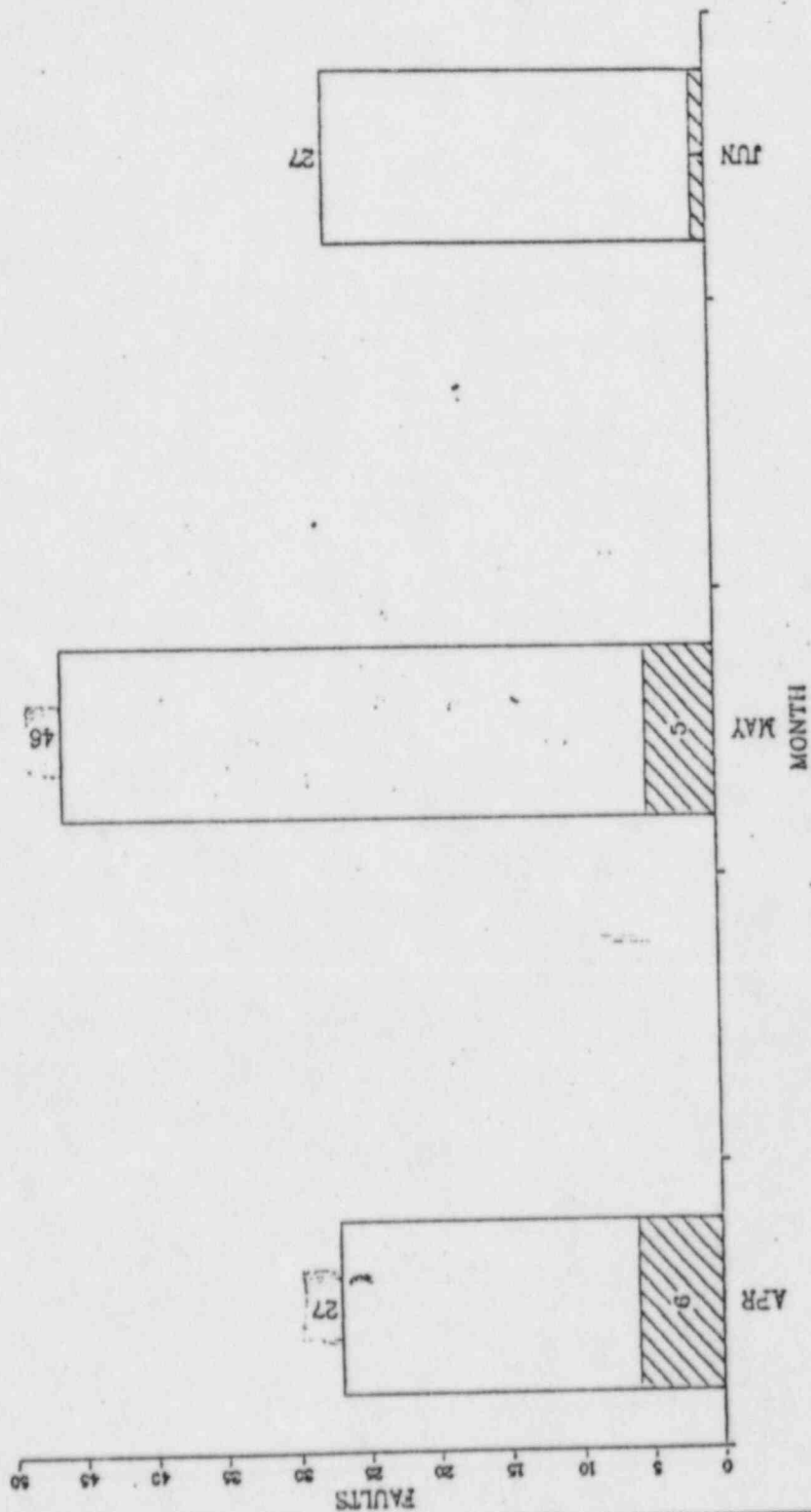
- LER FAULTS
- NPRD-4 MATCHES FROM 2ND QTR 84
- NPRD-4 MATCHES FROM 1ST QTR 84



PHASE K LER/NPRD MATCH TIMETABLE - 2ND QTR 84

LEGEND

- LER FAULTS
- NPRD-4 MATCHES FROM 2ND QTR 84



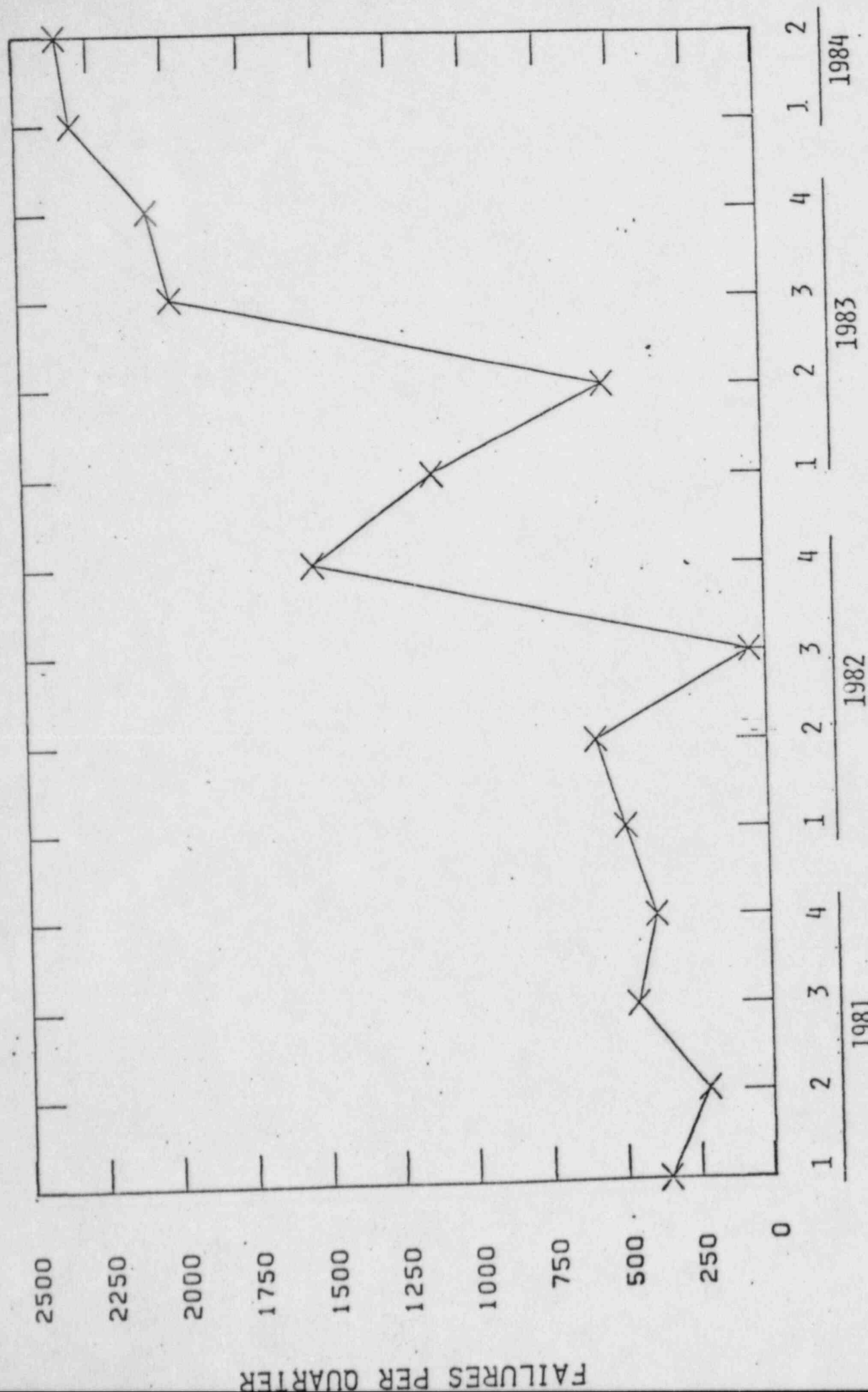
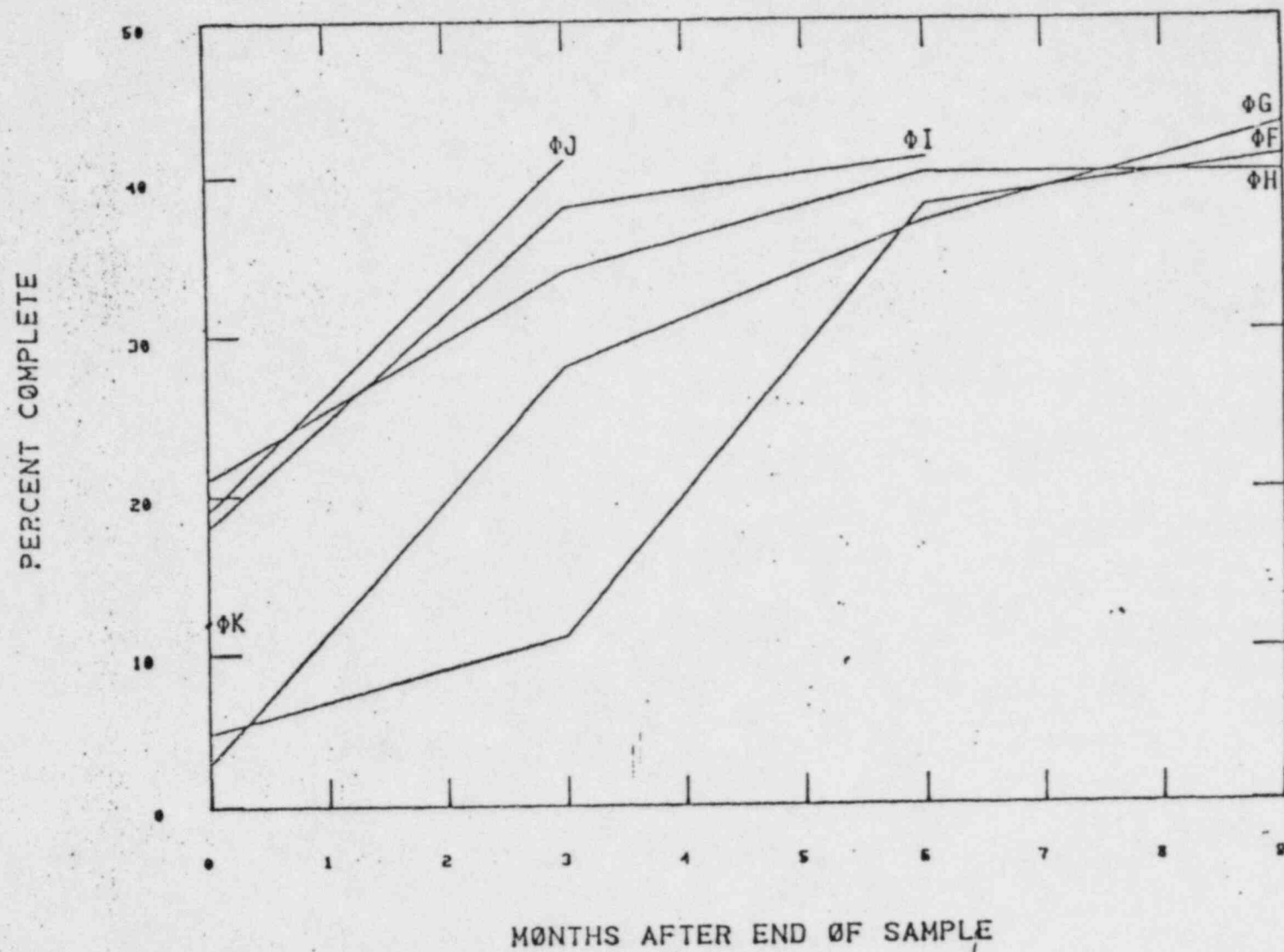


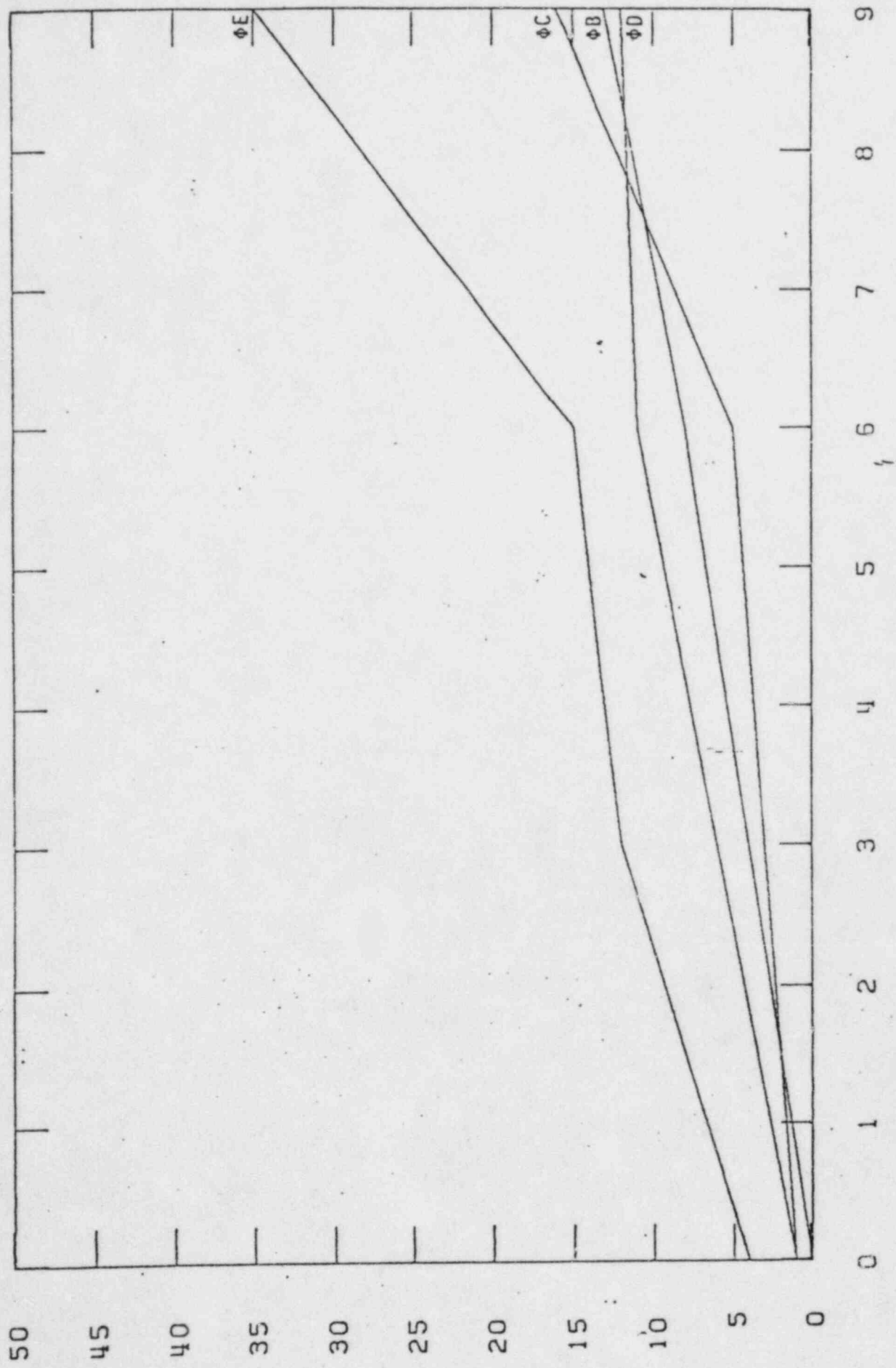
TABLE 5. SUMMARY OF MATCHING LER COMPONENT FAULTS AND NPRD-4 FORMS

Sample	Quarter	Reportable Component Faults	Tape										
			A	B	C	D	E	F	G	H	I	J	K
A	3-81 ^b	97	11	21	25	25	30	31					
B	1-82	104		0	4	8	14	21					
C	2-82	99			1	2	5	16					
D	3-82	107				1	6	12	13				
E	4-82	110					4	13	16	38			
F	1-83	112						6	12	43	46		
G	2-83	99							3	28	37	43	
H	3-83	101								21	34	40	40
I	4-83	100									18	38	41
J	1-84	100										19	41
K	2-84	100											12

a. Quarter in which events in LER sample occurred.

b. For Phase A, event dates were spread among the first three quarters of 1981.





PERCENT COMPOSITE

MONTHS AFTER END OF SAMPLE

TABLE A-1. ONE-LINE DESCRIPTION OF FAULTS DISCUSSED IN THE LERs FOR PHASE II

Vendor	Plant	LER		Component Code	NPRD-4 Revision B- RSCSM ^b	NPRG-4			Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted	Located ^c	
DW	CRP3	83-029	07/21/83	INSTRU	NC-C	--	--		EFW flow indicator FW-313-FI reading high--transducers malfunctioned--replaced.
DW	CRP3	83-037	09/07/83	CKTBRK	C-C	X	--		"A" DIIR pump throttle valve DIIV-110 circuit breaker tripped--cause unknown--reset.
DW	DBS1	83-034	07/07/83	INSTRU	C-NC	X	X		PZR level indicator LTRC14-3 failed mid-scale--component failure.
DW	DBS1	83-043	08/06/83	INSTRU	C-C	X	X		Buffer amplifier in pressure string for RPS Channel 3 out of tol--calibrated.
DW	DBS1	83-044A	08/22/83	VALVE	C-C	X	X		CI valve CC1407B failed leak rate test--torn valve liner--repaired.
DW	DBS1	83-044B	08/22/83	VALVE	C-C	X	X		CI valve SA2010 failed leak rate test--dirty and worn internals--repaired.
DW	DBS1	83-044C	08/27/83	VALVE	C-C	X	X		CI valve DR2012A failed leak rate test--rust and dirt on seat--repaired.
DW	DBS1	83-051	09/09/83	SUPPORT	C-C	X	X		Main steam line snubber SR-4-R-3 had no oil in reservoir--had rod seal--replaced snubber.
DW	NEE2	83-009	08/22/83	SUPPORT	C-C	X	X		LPIS snubber leaked due to worn o-ring seals--replaced snubber.
DW	NEE3	83-008	07/07/83	VALVOP	NC-C	--	X		RDCU ESF valve 3LPSW-565 failed to operate--motor starter bound--repaired motor starter.
DW	NEE3	83-009	07/27/83	CKTBRK	C-C	X	X		HPI pump "3A" circuit breaker and relay tripped--cause unknown--reset.
DW	TH11	83-016	07/03/83	PUMP	NC-NC	--	X		Radiation monitor RM-L7 sample pump SR-P-4 failed--mechanical seizure--pump replaced.
DW	TH11	83-020	08/26/83	INSTRU	NC-NC	--	--		Condenser exhaust monitor RM-A5 had no sample flow--moisture in sample line--flow increased.
DW	TH11	83-023	08/27/83	CKTBRK	NC-C	--	X		Control rod breaker operating mechanism binding--wear of the operating mechanism--mechanism freed.
DW	TH11	83-028	09/20/83	VALVE	C-C	X	--		Instrument air CI valve IA-V20 open--galling of valve bushing and paint prevented valve closing--replaced bushing and cleaned.

TABLE A-1. (continued)

Vendor	Plant	LER		Component Code	NPRD-4 Revision B- RSCSM ^b	NPRD-4		Located ^c	Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted		
CE	AN02	83-029	07/03/83	INSTRU	C-C	X	X		Control element assembly calculator No. 1 high level MUX card failed--replaced card.
CE	AN02	83-034	07/17/83	VALVOP	C-C	X	X		PZR spray valve 2CV-4652 failed to close completely--jumpered torque switch.
CE	AN02	83-041	08/31/83	INSTRU	C-C	X	--		Core protection calculator "D" point OOR reading high-2TY-4735-4 output high--charge buildup discharged.
CE	CCN2	83-039	08/15/83	VALVOP	NC-C	--	X		MS supply valve to AFW pumps 2-CV-4071 failed open--failed actuator diaphragm replaced.
CE	CCN2	83-040A	08/09/83	TURBIN	NC-NC	--	--		Main turbine governor valves failed rapidly closed--unknown failure in turbine controls.
CE	CCN2	83-040B	08/22/83	TURBIN	NC-NC	--	--		Main turbine governor valves failed rapidly closed--unknown failure in turbine controls.
CE	CCN2	83-040C	08/27/83	TURBIN	NC-NC	--	--		Main turbine governor valves failed rapidly closed--unknown failure in turbine controls.
CE	CCN2	83-043	08/09/83	VALVE	C-C	X	--		SG safety valve 2-MS-3994-RV failed to reseal--worn locking pin replaced and valve rebuilt.
CE	CCN2	83-047	08/11/83	INSTRU	C-C	X	--		ESFAS "ZA" logic spuriously tripped--cause unknown.
CE	FCS1	83-005	07/09/83	INSTRU	C-C	X	X		RPS "B" axial power distribution setpoint fluctuating--failed dual pot replaced.
CE	FCS1	83-006	07/14/83	INSTRU	C-C	X	--		RPS "D" axial power distribution setpoint drifted out of tol--faulty dual pot replaced.
CE	FCS1	83-008	09/21/83	GENERA	C-C	X	X		DG-2 field failed to flash--failed power supply, zener diode and blown fuses replaced.
GE	DEP1	83-031A	07/27/83	INSTRU	C-C	X	X		RPS IRM "A" inoperable--defective prevoltage regulator card VR-27 in power supply replaced.
GE	DEP1	83-031B	07/27/83	INSTRU	C-C	X	X		RPS IRM "D" indicating erratically--GE power supply 112C2220G3 replaced.
GE	DEP1	83-031C	07/27/83	INSTRU	C-C	X	X		RPS IRM "E" failed to overlap SRM--repaired GE connector 114B5380G004.

TABLE A-1. (continued)

Vendor	Plant	LER		Component Code	NPRD-4 Revision 8- RSCSM ^b	NPRD-4			Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted	Located ^c	
GE	DEP1	83-031D	07/27/83	INSTRU	C-C	X	X		RPS IRM "H" failed to overlap SRM--repaired GE connector 11405380G004.
GE	DEP1	83-035	08/02/83	INSTRU	C-C	X	X		MSL radiation monitor 1-D12-RM-K603D out of tol--replaced drawer model 230X660G3.
GE	DEP1	83-045	09/19/83	VALVE	C-C	X	X		RCIC CI valve E51-F007 would not reopen past dual open-close position--cause will be determined later.
GE	BRF2	83-037	07/05/83	MOTOR	C-C	X	--		RMOV board MG "2EA" bearings failed due to inadequate lubrication--replaced bearings.
GE	BRF2	83-044A	07/12/83	INSTRU	C-C	X	--		HPCI level switch LS-73-56A failed open--dirt in linkage--cleaned.
GE	BRF2	83-044B	07/12/83	INSTRU	C-C	X	--		HPCI level switch LS-73-56B failed closed--dirt in linkage--cleaned.
GE	BRF2	83-046	08/01/83	TRANSF	C-C	X	--		HPCI output inverter transformer "T2" failed--replaced transformer.
GE	BRF3	83-039	07/05/83	RELAY	C-C	X	--		DG "JEB" relay TRB2 failed open--replaced coil.
GE	BRF3	83-049	00/00/83	INSTRU	C-C	X	--		Torus water level indicator LI-64-54A decreased--unstable power supply PX-64-54 replaced.
GE	BRF3	83-054A	09/19/83	VALVE	C-C	X	X		MSIV "A" leaked 2615.5 SCFH--will be repaired.
GE	BRF3	83-054B	09/19/83	VALVE	C-C	X	X		MSIV "C" leaked 37.6 SCFH--will be repaired.
GE	BRF3	83-054C	09/19/83	VALVE	C-C	X	X		MSIV "D" leaked 2652.7 SCFH--will be repaired.
GE	DAC1	83-020	00/03/83	INSTRU	C-C	X	--		HPCI turbine speed indication failed--HPCI inoperable--replaced faulty magnetic speed pickup.
GE	DAC1	83-032	09/04/83	VALVOP	C-C	X	--		RCIC outboard steam isolation valve MO-2401 would not fully close--replaced torque switch.
GE	DAC1	83-034	09/06/83	RELAY	C-C	X	--		RPS APRM "E" relay C71A-K12E would not drop out--replaced GE HFA relay.

TABLE A-1. (continued)

Vendor	Plant	LER		Component Code	NPRD-4 Revision 8- RSCSM ^b	NPRD-4			Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted	Located ^c	
GE	DRS2	83-060	07/26/83	INSTRU	C-C	X	X		MSL radiation monitor "2D" failed to give high alarm when signal induced--readjusted.
GE	DRS2	83-061A	08/11/83	PENETR	C-C	X	--		Two arc holes found on expansion bellows in the torus to drywell vacuum breakers 2-1601-33 C & D--repair welds made.
GE	DRS2	83-061B	08/11/83	PENETR	C-C	X	--		Arc hole found in torus to drywell line to vacuum breaker 2-1601-33 E & F--repair weld made.
GE	DRS2	83-062	08/19/83	INSTRU	C-C	X	X		IIPCI flow control amplifier failed--relay 2330-140 jumpered to high speed stop.
GE	E1112	83-045	08/16/83	ENGINE	C-C	X	--		DG 2R43-S001A failed to start--replaced bent shutdown solenoid and plunger.
GE	E1112	83-057	08/24/83	INSTRU	C-C	X	--		Rod block monitor "A" inoperable--replaced bad op-amp, cleaned circuit board connectors.
GE	E1112	83-084	08/17/83	VALVOP	C-C	X	--		RIIR "A" loop heat exchanger outlet valve 2E11-F003A failed to open--replaced burned up valve motor.
GE	E1112	83-092	08/31/83	MOTOR	NC-C	--	--		RIIR SW pump "2A" motor bearing began to overheat--flushed partially blocked CW line.
GE	MNP1	83-018	07/10/83	INSTRU	C-C	X	X		RIIR pump "11" minimum flow valve CV1994 failed to open--replaced faulty flow switch.
GE	MNP1	83-020	09/20/83	ENGINE	C-C	X	X		DG "11" turbocharger aux lube oil pump motor bearing failed--replaced pump motor assembly.
GE	MNS1	83-025	07/12/83	GENERA	C-C	X	--		Gas turbine generator lacked excitation--blown potential transformer fuse replaced.
GE	MNS1	83-026	08/16/83	GENERA	C-C	X	X		Gas turbine generator auto shut down on loss of speed signal--replaced oil impregnated cabling and switches.
GE	MNS1	83-027A	08/29/83	INSTRU	C-C	X	X		IC time delay relay 595-117A out of tol--adj.
GE	MNS1	83-027B	09/26/83	INSTRU	C-C	X	X		IC time delay relay 595-117A out of tol--adj.
GE	MNP1	83-016A	07/10/83	INSTRU	C-C	X	X		MSL radiation monitor 122 inoperable--repaired and cleaned/detector output connector.
GE	MNP1	83-016B	07/10/83	INSTRU	C-C	X	X		MSL radiation monitor 112 inoperable--repaired and cleaned detector output connector.

TABLE A-1. (continued)

Vendor	Plant	LER		Component Code	NPRD-4 Revision B- RSCSM ^b	NPRD-4			Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted	Located ^c	
GE	NMP1	83-018	07/09/83	RELAY	C-C	X	X		RPS/ESF time delay relay 11K62A (EMG COOLING SYSTEM) failed to time out--cleaned dirty timing orifice and adj needle valve.
GE	NMP1	83-021	07/20/83	VALVE	C-C	X	--		Emergency cooling system valve 39-05 exhibited excessive seat leakage--lapped seat.
GE	OCP1	83-017	08/16/83	GENERA	C-C	X	--		DG "1" output breaker tripped open 4 seconds after closing--design deficiency--52YM delay timing changes.
GE	OCP1	83-020	09/16/83	CKTBRK	NC-C	--	--		SW pump "1-2" breaker failed to open when UV device de-energized--burr removed on latch device.
GE	PUS3	83-009	09/08/83	CKTBRK	C-C	X	X		DG "E-1" output breaker failed to manually close--unknown cause--failure could not be duplicated.
GE	QAD1	83-027	07/06/83	INSTRU	C-C	X	X		DG "1/2" fuel pump start switch erratic--replaced pitted switch.
GE	QAD1	83-028	07/15/83	CKTBRK	C-C	X	X		RHR valve operator MO-1001-36A breaker tripped intermittently--replaced breaker.
GE	QAD1	83-034	09/08/83	ELECON	C-C	X	X		Recirc pump "1A" discharge valve MO1-202-5A failed open--replaced shorted control cables.
GE	VYS1	83-018	08/09/83	MECFUN	C-C	X	X		HPCI turbine tripping and resetting--loose set screw in overspeed hydraulic trip unit replaced with cotter pin.
GE	VYS1	83-020A	08/26/83	RELAY	C-C	X	X		DG "B" failed to start--replaced failed diesel stopping relay solenoid.
GE	VYS1	83-020B	08/26/83	CKTBRK	C-C	X	X		CS valve CS-7B failed to stroke--breaker tripped on high starting torque--replaced breaker.
W	BVS1	83-022	09/07/83	FILTER	C-NC	X	--		SLCRS Prefilter for train B filter bank plugged--replaced filter.
W	BVS1	83-024	09/10/83	INSTRU	NC-NC	--	--		Core subcooling monitor reading erroneously--loose connection--replaced connector.
W	DCC1	83-067	07/12/83	CKTBRK	C-NC	X	X		Circuit breaker for containment equalization fan HV-CEQ-1 tripped--replaced breaker.
W	DCC1	83-069A	07/19/83	RELAY	C-C	X	X		DG load shedding relay 27-1-T11A out of tol--adj.

TABLE A-1. (continued)

Vendor	Plant	LER		Component Code	NPRD-4 Revision B- RSCSM ^b	NPRD-4			Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted	Located ^c	
W	DCC1	03-069B	07/19/83	RELAY	C-C	X	X		DG load shedding relay 27-2-T11A out of tol--adj.
W	DCC1	03-069C	07/19/83	RELAY	C-C	X	X		DG load shedding relay 27-3-T11A out of tol--adj.
W	DCC1	03-069D	07/19/83	RELAY	C-C	X	X		DG load shedding relay 27-1-T11B out of tol--adj.
W	DCC1	03-069E	07/19/83	RELAY	C-C	X	X		DG load shedding relay 27-2-T11B out of tol--adj.
W	DCC1	03-069F	07/19/83	RELAY	C-C	X	X		DG load shedding relay 27-3-T11B out of tol--adj.
W	DCC1	03-090	08/25/83	PUMP	C-C	X	X		West centrifugal charging pump minimum total flow less than allowable--repaired.
W	DCC1	03-092	09/12/83	RELAY	C-C	X	X		Load shedding timer relay for ESW pump 1W exceeded tol--adj.
W	JMF2	03-033	08/10/83	ENGINE	C-C	X	X		DG "2B" failed to start--excessive bushing and rotor wear on the #1 starting air distributor--distributor replaced.
W	JMF2	03-035	08/21/83	CKTRK	C-C	X	X		RHR pump "2B" circuit breaker closing spring charging motor variable resistor out of adj--adj.
W	JMF2	03-039A	09/17/83	VALVE	C-C	X	X		MSIV Q2N11V001B failed to close under no flow condition--packing binding--repaired.
W	JMF2	03-039B	09/17/83	VALVE	C-C	X	X		MSIV Q2N11V001C failed to close under no flow condition--packing binding--repaired..
W	JMF2	03-039C	09/17/83	VALVE	C-C	X	X		MSIV Q2N11V002B failed to close under no flow condition--disc separated from disc arm--repaired.
W	KNP1	03-016	07/13/83	HEATER	NC-NC	--	X		Shield building ventilation filter assembly "1A" heater fuse blew--replaced fuse.
W	KNP1	03-018	09/15/83	VALVOP	NC-C	--	X		TOAFW pump valve MS-100A could not be closed manually--electrical insulating material on contact of torque close switch--material removed.
W	KNP1	03-019	09/16/83	PUMP	NC-C	--	X		CCW pump "1A" had oil seal leak--scored shaft--replaced seals, bearings, and shaft.
W	NAS2	03-049	07/10/83	INSTRU	C-C	X	X		Containment pressure protection channel 1V failed low--replaced failed power supply card.

TABLE A-1. (continued)

Vendor	Plant	LER		Component Code	NPRD-4 Revision B- RSCSM ^b	NPRD-4			Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted	Located ^c	
W	NAS2	83-059	07/17/83	GENERA	C-C	X	X		Vital bus 2-1 inverter fuses blew due to faulty rectifiers--replaced rectifiers.
W	NAS2	83-060	08/11/83	INSTRU	NC-C	--	X		BIT outlet piping heat tracing circuit ET-167N failed--failed control card--replaced control card.
W	NAS2	83-068	09/13/83	VALVOP	NC-NC	--	X		Discharge from B casing cooling pump to outside recirc spray pump MOV-RS-200B failed to open--normally closed torque switch open--adj. torque switch.
W	PBI1	83-007	08/02/83	VALVE	C-C	X	--		CI valve 1CV-3200C failed to close--solenoid valve 1SV-3200C failed to cycle--cycled.
W	PBI1	83-008	08/30/83	VALVE	C-C	X	--		CI valve 1CV-3200C failed to close--solenoid valve 1SV-3200C failed to cycle--replaced 1SV-3200C.
W	PBI2	83-011	08/17/83	PUMP	C-C	X	X		RHR pump 2P10B experienced high bearing vibration--replaced pump.
W	PIN1	83-018	07/19/83	INSTRU	NC-C	--	X		Power supply for device which controls screen and bypass gate operation failed.
W	PIN1	83-021	08/30/83	CKTBRK	NC-C	--	X		Cooling water header isolation valve "B" MV-32035 failed to close--aux switch failed--replaced switch.
W	PIN2	83-022	09/09/83	INSTRU	C-C	X	X		Steam flow Xmitter response sluggish--replaced Xmitter.
W	SGS2	83-038	07/21/83	PUMP	NC-C	--	X		AFW pump "23" failed to reach desired speed--worn roller in governor linkage--replaced roller.
W	SGS2	83-039	07/23/83	ELECON	C-C	X	X		Control rod 2C4 drive mechanism connector pins pushed back in insulation--pin reinserted in the insulator.
W	SGS2	83-043A	08/02/83	INSTRU	C-C	X	X		No. 24 reactor coolant flow channel 1 indicated excessively high--Xmitter static shift--adj.
W	SGS2	83-043B	08/07/83	INSTRU	C-C	X	X		No. 24 reactor coolant flow channel 1 indicated excessively high--Xmitter oscillator failed--replaced oscillator.
W	SGS2	83-050	09/16/83	VALVE	C-C	X	X		CI valve 2VC6 had excessive leakage--elastomer lining deformed--repaired.
W	SNP1	83-063	09/12/83	VALVE	C-C	X	--		PORV 1-PCV-6B-340 leaking through--valve not closing fully--valve will be replaced.

TABLE A-1. (continued)

Vendor	Plant	LER		Component Code	NPRD-4 Revision 8- RSCSM ^b	NPRD-4			Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted	Located ^c	
W	SNP1	83-091	07/06/83	VALVE	C-C	X	--		CI valve 1-FCV-30-46 failed closed--no cause found--cycled valve.
W	SNP1	83-098	07/18/83	VALVOP	C-C	X	--		CI valve 1-FCV-61-191 failed closed--actuator diaphragm failed--replaced diaphragm.
W	SNP1	83-106A	08/06/83	INSTRU	NC-NC	--	--		Flow rate monitor 1-FT-2-257 for condenser vacuum exhaust failed high--condensation in sense lines--blown down.
W	SNP1	83-106B	08/12/83	INSTRU	NC-NC	--	--		Flow rate monitor 1-FT-2-257 for condenser vacuum exhaust failed high--condensation in sense lines--blown down.
W	SPS2	83-032	08/11/83	HTEXCH	C-C	X	X		SG "A" J-tubes leaking--erosion/corrosion phenomenon--replaced tubes.
W	SPS2	83-033	08/03/83	VALVE	C-C	X	--		CI valves exceeded allowable leak rate--deterioration and wear of valves--repaired.
W	TNP1	83-007A	07/10/83	VALVE	C-C	X	--		CI valve CV-10004 failed leak test--low torque on disc seal--retorqued.
W	TNP1	83-007B	07/10/83	VALVE	C-C	X	--		CI valve MO-5656 failed leak test--bonnet leak--repaired.
W	TNP1	83-011	08/09/83	VALVE	C-C	X	X		CI valve CV-4006 did not close in required time--cleaned stem and operating devices.
W	TNP1	83-014	09/16/83	GENERA	C-C	X	X		Emergency DG failed to control voltage--unlatching coil in flash circuit failed--repaired flash circuit.
W	TPS3	83-012	08/04/83	INSTRU	NC-C	--	X		AFW pump "A" D/P Xmitter failed--Xmitter replaced.
W	TPS4	83-006A	07/05/83	VALVOP	C-C	X	--		Valve IICV-4-936 on 4B accumulator found partly open--positioner zeroed.
W	TPS4	83-006B	07/05/83	VALVE	C-C	X	--		Valve IICV-4-937 on 4B accumulator leaking--valve replaced.
W	TPS4	83-009	08/03/83	VALVOP	NC-NC	--	X		SG "4A" blowdown isolation valve CV-4-6275A failed to close--air isolated to actuator--restored.
W	TPS4	83-013	08/25/83	RELAY	C-C	X	X		Emergency load sequencer "4A" timer coil open circuit--replaced relay.
W	ZIS2	83-025	07/12/83	MOTOR	C-C	X	X		Hydrogen purge fan 2A motor overloads tripped--cause unknown--reset.

TABLE A-1. (continued)

Vendor	Plant	LER		Component Code	NPRD-4 Revision B- RSCSM ^b	NPRD-4			Failure Description
		Report Number ^a	Event Date			Expected	Reportedly Submitted	Located ^c	
W	Z152	83-029	08/16/83	CKTBRK	C-C	X	X		Contact to service water valve 2MOV-SW0002 from SAS train "B" dirty--cleaned.
W	Z152	83-035	09/12/83	MOTOR	C-C	X	--		DG "2A" speed and load changing motor erratic--motor replaced.

a. Letters following the LER report number indicate multiple entries on the LER.

b. The first entry refers to the NPRDS Reporting Procedures Manual Revision B, the second entry refers to the Reportable System and Component Scope Manual (RSCSM). The thought process used in determining whether an LER was covered (C) or not covered (NC) is explained in the discussion following Table A-1.

c. The quarter and year of the data-base tape containing the initial NPRD-4 form match is contained in this column. For example, 3-83 indicates that the matching NPRD-4 form was located on the third quarter 1983 data-base tape.

TABLE A-2. ONE-LINE DESCRIPTION OF FAULTS DISCUSSED IN THE LERs FOR PHASE 1

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
BW	ANO1	83-022	10/13/83	BATTRY	--		Cell #34 of station battery "D07" had low voltage--electrolyte salt or other material buildup--cell recharged.
BW	NEE1	82-017A	12/09/83	CKTBRK	--		AC breaker No. 10 for control rod drives had delayed trip during testing--breaker tripshaft bearing assembly was sticking--breaker replaced.
BW	NEE1	82-017B	12/09/83	CKTBRK	--		DC breaker No. 2 for control rod drives had delayed trip during testing--breaker tripshaft bearing assembly was sticking--breaker replaced.
BW	NEE1	83-021	12/25/83	CKTBRK	X		BWST level channel 1 failed low, airlines froze--heater breaker trip, cause unknown--reset breaker.
BW	RSS1	83-037	10/08/83	VALVOP	X		DIIR "A" EMG sump valve IIV-26105 motor operator would not function--torque and bypass switch settings readjusted.
BW	RSS1	83-038	11/10/83	VALVOP	X		DIIR pump "B" suction isolation valve SFV-25004 failed to open at the end of a test--packing bound stem causing motor trip--packing readjusted.
CE	CCN1	83-056	10/07/83	SUPORT	X		Snubber 1-64-20 was heat damaged--oil reservoir was empty--replaced reservoir.
CE	CCN1	83-072	12/22/83	INSTRU	X		RPS "A" coolant flow Xmitter erratic--repaired.
CE	CCN1	83-075	12/27/83	INSTRU	X		RPS "D" high power (thermal margin/low pressure) inoperable--removed foreign material from power supply leads.
CE	CCN1	83-076	12/30/83	PUMP	X		AFW pump #13 had outboard pump bearing damage--improper lubrication--obstruction cleared, bearing replaced.
CE	MNS2	83-032	12/14/83	ELECON	X		DG "12U" failed to sequence--power supply defective pin resoldered.
CE	MYP1	83-039	11/16/83	VALVOP	X		ECCS "B" train CI valve CS-M-92 would not close--replaced torque switch.
CE	MYP1	83-041	11/19/83	INSTRU	X		SG pressure Xmitter PT-1033C showed inaccurate reading--replaced failed amplifier circuit board.
CE	MYP1	83-043	12/03/83	VALVE	--		Charging flow control valve CII-F-30 failed open--installed new valve seats.
CE	SLS2	83-069	10/27/83	CRDRVE	--		CEA 86 dropped--upper gripper failed to close.
CE	SLS2	83-070	11/08/83	VALVOP	--		Main feedwater CI valve IICV-09-1A lost nitrogen pressure--leaking nitrogen through tubing connections--accumulator recharged.
CE	SLS2	83-071	11/08/83	PIPE	--		Two leaks found in 2 in. discharge valve weld on 2B charging pump--replaced line.
CE	SOS2	83-096	10/01/83	CRDRVE	X		CEA 19 dropped to 99 in.--cleaned dirty timer card contacts.

TABLE A-2. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
CE	SOS2	83-133	10/07/83	INSTRU	X		Excure linear power level channel C stuck at 68% power level--failed linear amplifier card--card replaced.
CE	SOS2	83-138	10/21/83	ELECON	X		CI valve 2HIV7258 failed to close--tightened loose connection.
CE	SOS2	83-154	12/15/83	INSTRU	X		PZR level Xmitter 2LT-0110-1 inoperable--filled empty reference leg.
GE	BEP2	83-091	10/26/83	INSTRU	X		CI valve E51-F043C would not reopen--RCIC inoperable--replaced valve control switch module BU 7173.
GE	BEP2	83-093	10/24/83	INSTRU	X		Control room postaccident monitoring recorder/indicator 2-CAC-AR-1263 gave erratic indication--dirt buildup, worn contact--cleaned, contacts replaced.
GE	BEP2	83-094A	11/02/83	INSTRU	X		Control rod 30-39 had no position indication at 4 in.--reed switch will be replaced.
GE	BEP2	83-094B	11/02/83	INSTRU	X		Control rod 30-23 had no position indication at 12 in.--reed switch will be replaced.
GE	BRF1	83-063A	11/02/83	AIRDRY	--		SBLT "B" moisture separator caused uneven flow distribution--repaired.
GE	BRF1	83-063B	11/02/83	FILTER	--		SBLT "B" roughing filter replaced.
GE	BRF1	83-068	12/10/83	MOTOR	--		RHR pump IC motor smoking--possible winding failure--will be replaced.
GE	BRF1	83-073	12/31/83	DEMIN	--		Condensate demineralizer "F" had damaged resin trap--replaced trap.
GE	DRS3	83-035	10/04/83	PIPE	X		Recirc pump "A" bowl drain leaking--2 in. crack on tee--pipe will be replaced.
GE	DRS3	83-038	10/20/83	INSTRU	X		HPCI temperature switch TS3-2371A tripped at high temp--setpoint drift--setpoint adjusted.
GE	DRS3	83-040	10/28/83	CKTRK	X		DG U-3 failed to close onto bus--dirty 52H contact burnished.
GE	E1H1	83-102	10/11/83	VALVE	--		SOLC relief valve C41-F029A inoperable--seats lapped.
GE	E1H1	83-122	12/20/83	INSTRU	--		HPCI turbine erratic--failed ramp generator signal convertor unit replaced.
GE	JAF1	83-046	10/08/83	INSTRU	X		Control rod switch 02-23 inoperable--replaced switch.
GE	JAF1	83-049	10/22/83	VALVE	X		HPCI turbine stop valve had fractured stem--replaced stem.
GE	JAF1	83-061	11/30/83	PUMP	X		RHRSH pump P-1C ran with high vibration--rebuilt pump.

TABLE A-2. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
GE	JAF1	83-067	12/28/83	INSTRU	X		RCIC high steam flow switch 13-DP15-84 non-conservative--readjusted setpoint.
GE	MNP1	83-022	10/24/83	CKTURK	X		Trip coil for Recirc MG #11 drive breaker failed--unknown cause--replaced trip coil.
GE	MNP1	83-026	12/05/83	VALVOP	X		RCIC outboard steam isolation valve MO-2076 failed to close--valve operator torque switch failed--replaced switch.
GE	OCP1	83-019	11/14/83	VALVOP	X		SBGTS C1 Valve V-28-22 failed to close--repaired piston.
GE	OCP1	83-021A	10/12/83	ELECON	--		Bus 1A and 1C lost due to ground fault on DG "1" feed to bus 1C--replaced failed cable.
GE	OCP1	83-021B	10/12/83	MOTOR	--		Stack gas sample pump "B" tripped on thermal overload--cause under investigation.
GE	OCP1	83-021C	10/12/83	BATTERY	--		Battery charger C1 experienced excessive humming--disconnected.
GE	OCP1	83-022A	10/14/83	SUPPORT	X		MS snubber N-1-5 failed--replaced.
GE	OCP1	83-022B	10/14/83	SUPPORT	X		CS snubber N-20-4 failed--replaced.
GE	PBS2	83-023A	11/08/83	VALVE	X		C1 valve MO-2-74 failed LLRT--replaced internals and machined seat.
GE	PBS2	83-023B	11/08/83	VALVE	X		C1 valve MO-23-57 failed LLRT--machined seals.
GE	PBS2	83-028	12/23/83	VALVE	--		HPSW pump "28" discharge valve stuck open--worn valve disc pin and arm--parts replaced.
GE	PBS3	83-018	11/17/83	VALVE	X		Control rod 34-35 exceeded scram insertion time--replaced failed scram solenoid valve.
GE	PBS3	83-022	12/07/83	RELAY	X		4KV EMG Bus UV relay failed to operate--relay rotating disk binding due to dust buildup--GE Model #12-1AV-53N1A relay was cleaned.
GE	PBS3	83-023	12/13/83	INSTRU	--		Torus narrow range level indicator was out of cal--G.E. indicator Model GE-100, was replaced.
GE	PPS1	83-053	10/07/83	VALVOP	--		C1 valve MO-220-2 failed shut--grounded armature in motor operator--replaced motor.
GE	PPS1	83-060	11/29/83	VALVE	--		Low nitrogen pressure in CRD 10-11 accumulator--replaced leaking gas charging cartridge valve.
GE	PPS1	83-065	12/13/83	VALVE	--		HPCI exhaust check valve 2301-45 had excessive leakage--will repair valve.
GE	QAD2	83-018	10/11/83	PIPE	--		Weld 12S-S27 in RWCU system showed an indication--IGSCC--pipe replaced.

TABLE A-2. (continued)

Vendor	Plant	LER		NPRD-4		Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	
GE	QAD2	83-019	11/07/83	BATTERY	X	Unit 2 "A" battery failed to meet test requirement--end of life wearout--replaced.
GE	QAD2	83-023	11/28/83	INSTRU	--	MS high flow pressure switch DPLS 2-261-2K non-conservative--setpoint drift--recalibrated.
GE	SES1	83-149	11/02/83	CKTBK	X	ESW pump "B" failed to autostart--breaker did not close--breaker latch relay had insulation lodged in its contact--insulation removed.
GE	SES1	83-155	11/06/83	VALVE	X	RHR "B" discharge check valve would not seat properly--misaligned valve disc and bent hinge pin--realigned disc, straightened pin.
GE	SES1	83-166	11/29/83	INSTRU	X	Reactor vessel low low water level switch LFS-142210 setpoint non-conservative--setpoint drift--recalibrated.
GE	SES1	83-172	12/30/83	CKTBK	--	RPS MG "B" electrical protection assembly breaker tripped--cause is unknown--breaker was replaced.
W	BVS1	83-030	10/03/83	CKTBK	X	Charging header isolation valve MOV-CH-209 failed to open--mechanical interlock on line starter bound coil overheated--linkage was oiled, coil replaced.
W	BVS1	83-037	11/10/83	RELAY	--	Undervoltage relay 27-RP2100 was out of tolerance--failed potentiometer--relay replaced.
W	DCC2	83-102	10/29/83	VALVE	X	MESW lower containment ventilation unit #3 isolation valve WCR-910 did not close in required time--worn insert in valve--rebuilt valve.
W	DCC2	83-117	11/23/83	VALVE	X	SG #1 blowdown sample isolation valve DCR-301 would not open--flat spots on O-rings allowed leak of control air--replaced O-rings.
W	DCC2	83-122	12/10/83	MECFUN	X	ESF fan 2-IV-AES-1 emitted odor during test--loose rubber coupling halves caused odor--coupling was reengaged and secured.
W	IIHR2	83-026	10/12/83	ITEXCII	--	CFCU IIIV-3 cooling coil leaked--corrosion/erosion of coil--patched with sealant material.
W	IIHR2	83-031A	11/30/83	VALVOP	--	CI fire protection valve FP-25B failed to close--misaligned relay contact--relay realigned.
W	IIHR2	83-031B	11/30/83	VALVOP	--	CI waste disposal valve WD-172B failed to close--worn solenoid seals--solenoid replaced.
W	IINP1	83-018	10/19/83	PUMP	X	Charging pump "B" had outboard seal leakage--seal replaced.
W	IINP1	83-023	12/01/83	MECFUN	X	DG EG-2B took a load greater than governor setting--governor out of adj--will repair at next refueling outage.

TABLE A-2. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
W	HNP1	83-025	12/07/83	SWITCH	X		Subgroup 2 of Control Rod Bank "A" failed to move--replaced faulty motor starter switch.
W	IPS2	83-030	10/11/83	INSTRU	X		RWST level alarm set point high--set point drift of Foxboro Distable Model No. 635-BROCHA--bistable was reset.
W	IPS2	83-039	10/17/83	PIPE	X		Pinhole leak in supply line to CFCU No. 21--internal corrosion--weld repair.
W	IPS2	83-042	11/23/83	HEATER	X		Electric heat trace circuit 46B was found inoperable--chromalox heating element model-PT-512 had an open circuit--replaced.
W	JMF1	83-079	11/20/83	ENGINE	X		DG "1-2A" experienced excessive noise and load oscillation--cracked cylinder liner--liner, piston and connecting rod replaced.
W	JMF1	83-084	12/04/83	VALVE	X		Discharge check valve Q1N23YD02A was leaking--degraded pin bushings replaced.
W	JMF1	83-095	12/26/83	INSTRU	X		Loop 1 overtemperature ΔT channel failed low--replaced failed summing amp card.
W	MGS1	83-097	10/05/83	CKTBRK	--		PZR heater group 1B deenergized--vacuum contactor failed to energize--repair will be done at next refueling outage.
W	MGS1	83-108	11/03/83	INSTRU	--		Bad universal logic card found in Train A of FW Isolation--replaced failed card.
W	MGS1	83-110	11/12/83	INSTRU	--		Source range indication for Channel N-32 failed high--failure of preamp and detector--preamp repaired and detector replaced.
W	NAS1	83-079	10/20/83	VALVE	X		RTD bypass loop Isolation valve 1-RC-87 was leaking--boric acid corrosion of Velan gate valve studs--studs replaced.
W	NAS1	83-085	12/20/83	INSTRU	X		Containment pressure channel IV was drifting--suspected dirt in feedback coil of pressure Xmitter--Xmitter cleaned, cal done.
W	PIN1	83-030	11/04/83	ELECON	--		Control cable to No. 22 diesel CW pump sent false signal--removed ground on control cable shield.
W	PIN1	83-033	12/00/83	VALVE	X		CI valve CV-31440 exhibited leakage above allowed limit--Copes-Vulcan valve had plug-to-cage galling--parts were replaced.
W	SGS1	83-052	11/04/83	MOTOR	X		CFCU "11" tripped while starting--motor stator windings shorted and grounded--motor replaced.

TABLE A-2. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
W	SGS1	83-060	12/03/83	ELECON	--		Vital heat trace Channel 602B failed to draw proper current--high terminal connection resistance--terminals cleaned, tightened.
W	SGS1	83-071	12/22/83	ITEXCH	X		CFCU "14" flexible connector degraded--rust and vibration--temporary repair made.
W	SNP2	83-165	11/15/83	VALVE	--		PZR safety valve failed seat leakage criteria--loss of loop seal--will be repaired during next outage.
W	SNP2	83-105	12/07/83	VALVOP	--		Glycol CI valve 2-FCV-61-97 would not clear its open limit switch--limit switch was misaligned--switch repositioned.
W	SNP2	83-108	12/21/83	ENGINE	X		DG "1A-A" load dropped to zero during test--cannon plug connector on governor loose, dirty--cleaned, tightened.
W	SPS1	83-045A	10/10/83	INSTRU	X		Core cooling monitor "A" was declared inoperable due to erratic signal--cause is unknown.
W	SPS1	83-045B	10/27/83	ELECON	X		Core cooling monitor "A" was declared inoperable due to erratic signal--bad connector in power supply--power supply replaced.
W	SPS1	83-047	10/09/83	CKTBRK	X		Circuit breaker for heat tracing power 2A3 circuit 3 tripped--cause unknown--replaced breaker.
W	TPS4	83-017	10/04/83	PUMP	X		Containment spray pump B shaft broke during test--suspected misalignment/overstressing--pump repaired.
W	TPS4	83-018	10/11/83	ELECON	X		RHR pump "4B" motor leads failed--water in lead connection box--leads replaced.
W	TPS4	83-021	12/07/83	VALVE	X		Relief valve on 4B accumulator lifted prematurely--cause unknown--will inspect.
W	Z1S1	83-043	10/03/83	INSTRU	X		FW flow Xmitter IFT-540 for SG 1B was out of tolerance--oscillator was retuned and recalibrated.
W	Z1S1	83-051	12/28/83	CKTBRK	X		Hydrogen recombiner U-1 tripped--replaced failed fuses.

a. Letters following the LER report number indicate multiple entries on the LER.

b. The quarter and year of the data-base tape containing the initial NPRD-4 form match is contained in this column. For example, 4-83 indicates that the matching NPRD-4 form was located on the fourth quarter 1983 data-base tape.

TABLE A-3. ONE-LINE DESCRIPTION OF FAULTS DISCUSSED IN THE LERs FOR PHASE J

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
BW	DBS1	84-003A	03/02/84	INSTRU	--		MSIV closed due to failed optical isolation in SFRCS--replaced relay driver board.
BW	DBS1	84-003B	03/02/84	VALVOP	X		MS SRV SP17A4 failed to reseal--replaced valve.
BW	DBS1	84-003C	03/02/84	VALVOP	X		MS SRV SP17A1 failed to open--cause unknown--will be repaired or replaced.
BW	DBS1	84-003D	03/02/84	VALVOP	--		AFW valve AF599 failed to open--adj torque switch settings.
BW	NEE3	84-002	02/16/84	INSTRU	X		RC loop "A" flow Xmitter indicated no flow--replaced amplifier assembly and recalibrated channel.
CE	AN02	84-003	01/30/84	VALVOP	--		CVCS valve 2CV-4926 leaking--readjusted stroke.
CE	AN02	84-005	02/10/84	INSTRU	X		Upper excore detector channel A saturated--replaced drawer.
CE	AN02	84-009A	03/19/84	INSTRU	X		RPS hot leg RTD 2TE-4710-1 response time non-conservative--applied penalty factors.
CE	AN02	84-009B	03/19/84	INSTRU	X		RPS hot leg RTD 2TE-4711-4-2 response time non-conservative--applied penalty factors.
CE	CCN1	84-004A	02/28/84	PUMP	X		Charging pump 12 had excessive packing leakage--repacked.
CE	CCN1	84-004B	02/28/84	PUMP	X		Charging pump 13 had excessive packing leakage--repacked.
CE	MNS2	84-003A	02/02/84	INSTRU	X		SI tank 2 level indicator reading erroneously--recalibrated.
CE	MNS2	84-003B	02/02/84	INSTRU	X		SI tank 3 level indicator reading erroneously--recalibrated.
CE	PAL1	84-001A	01/08/84	HTEXCH	X		DG 1-1 Jacket water heat exchanger gasket ruptured--replaced gasket.
CE	PAL1	84-001B	01/08/84	CKTBK	X		Bus 1C breaker 152-106 damaged--replaced breaker.
CE	SLS2	84-003	01/29/84	VALVE	X		Main feed reg valve "A" leaks--will repair.
CE	SLS2	84-004A	02/09/84	VALVE	X		MS safety valve failed to fully close--replaced missing cotter pin.
CE	SLS2	84-004B	02/09/84	PUMP	X		AFW pump 2C tripped due to transients on power supply--completed modification.
GE	DEP1	84-001	01/19/84	VALVE	--		RIIR heat exchanger outlet valve E11-F002A leaks by--no corrective action stated.
GE	DEP1	84-003	02/19/84	INSTRU	X		HPCI turbine speed control erratic--replaced EGM.
GE	DRF2	84-001	01/08/84	INSTRU	X		RCIC turbine failed to reach rated speed within time limit--recalibrated governor control system.

TABLE A-3. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
GE	BRF2	84-003	02/12/84	INSTRU	X		HPCI turbine speed could not be brought below 2400 rpm--EGR module replaced.
GE	BRF3	84-002A	01/25/84	INSTRU	X		CI Division I relay 16AK37 actuated--internal coil failure--replaced relay.
GE	BRF3	84-002B	01/25/84	INSTRU	X		CI Division II relay R3B failed to actuate--replaced relay.
GE	BRF3	84-003	01/29/84	CKTBRK	X		Normal feeder breaker to bus 1B failed to close--exercised breaker.
GE	CPR1	84-001	01/20/84	INSTRU	X		Reactor vessel water level switch NBI-LIS-101B failed to reset--replaced switch.
GE	DAC1	84-005	01/02/84	PUMP	X		RHR/Core Spray fill pump 1P-70 tripped--rebuilt pump.
GE	DAC1	84-008A	01/23/84	INSTRU	X		LPRM power supply failed--will be modified.
GE	DAC1	84-008B	01/23/84	INSTRU	X		LPCI loop select logic power supply failed--faulty light bulb socket replaced.
GE	DAC1	84-012A	02/29/84	VALVE	X		HPCI turbine stop valve BJ-SHV-2201 failed to open--rebuilt valve.
GE	DAC1	84-012B	02/29/84	INSTRU	X		ADS logic reset switch SB-HS-4462 failed--replaced switch.
GE	DRS2	84-002	01/17/84	CKTURK	X		SBGTS "B" discharge damper circuit breaker tripped spuriously--reset trip settings.
GE	DRS2	84-003	02/21/84	VALVOP	X		Core spray valve M02-1402-25A failed to operate--gear housing cracked--rebuilt operator.
GE	DRS2	84-004	02/22/84	CKTBRK	--		Core spray valve M02-1402-3A failed to close--faulty aux breaker contacts replaced.
GE	E1H2	84-002A	02/20/84	VALVE	X		MS SRV 2B21-F013H would not lift--pilot assembly corroded--will be rebuilt.
GE	E1H2	84-002B	02/20/84	VALVE	X		MS SRV 2B21-F013D exceeded 1X tolerance--setpoint too conservative--will reset valve.
GE	E1H2	84-002C	02/20/84	VALVE	X		MS SRV 2B21-F013F exceeded 1X tolerance--setpoint too conservative--will reset valve.
GE	E1H2	84-002D	02/20/84	VALVE	X		MS SRV 2B21-F013K exceeded 1X tolerance--setpoint too conservative--will reset valve.
GE	E1H2	84-002E	02/20/84	VALVE	X		MS SRV 2B21-F013L exceeded 1X tolerance--setpoint too conservative--will reset valve.
GE	E1H2	84-003	01/15/84	VALVE	X		RMCU CI valve 2G31-F004 failed to close--cause unknown.
GE	MHP1	84-004	01/09/84	RELAY	X		HPCI high steam flow isolation signal time delay excessive--replaced relay.
GE	MHP1	84-007	02/06/84	CKTBRK	X		Recirc MG motor breaker failed to open remotely--lubricated breaker.

TABLE A-3. (continued)

Vendor	Plant	LER		NPRD-1			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
GE	MNP1	04-013	03/10/84	ELECON	X		Cable to 1AR station aux XFMR grounded--seal allowed moisture leakage--replaced cables and seals.
GE	PBS2	04-001	01/17/84	CKDRK	X		RHR "B" valve M02-10-154B failed to open--replaced contactor and thermal overload device.
GE	PBS2	04-004	02/13/84	VALVE	X		RHR valve M02-10-34B had packing leak--tightened packing.
GE	QAD1	04-001A	03/05/84	CKDRK	X		HPCI pump had water contaminated oil system--oil cooler gaskets replaced.
GE	QAD1	04-001B	03/05/84	CKDRK	X		Electromatic relief valve 1-203-3E failed to open--reconnected loose coil in valve controller.
GE	QAD1	04-004A	03/16/84	VALVE	X		MSIV A01-203-1B failed LLRT--will be repaired.
GE	QAD1	04-004B	03/16/84	VALVE	X		MSIV A01-203-2B failed LLRT--will be repaired.
GE	QAD1	04-004C	03/16/84	VALVE	X		MSIV A01-203-1C failed LLRT--will be repaired.
GE	QAD1	04-004D	03/16/84	VALVE	X		MSIV A01-203-2C failed LLRT--will be repaired.
GE	QAD1	04-004E	03/16/84	VALVE	X		MSIV A01-203-2D failed LLRT--will be repaired.
GE	YYS1	04-001	01/05/84	INSTRU	--		Reactor water level X-mitter non-conservative--recalibrated.
GE	YYS1	04-002A	02/02/84	INSTRU	X		Torus-reactor building vacuum breaker D/P switch 16-19-32A out of cal--recalibrated.
GE	YYS1	04-002B	02/02/84	INSTRU	X		Torus-reactor building vacuum breaker D/P switch 16-19-32B out of cal--recalibrated.
W	HBR2	04-001	01/26/84	INSTRU	X		Source range detector N-31 failed high--replaced shorted detector.
W	IPS2	04-001A	01/04/84	VALVE	X		Containment Penetration and Weld Channel Pressurization System valve SOV-127B failed closed--replaced valve.
W	IPS2	04-001B	01/04/84	VALVE	X		Containment Penetration and Weld Channel Pressurization System valve FCV-1172 leaked--replaced seat.
W	IPS2	04-002A	01/05/84	VALVE	X		MSIV MS-1-21 failed to meet closing time--lubricated shaft and packing.
W	IPS2	04-002B	01/05/84	VALVE	X		MSIV MS-1-22 failed to meet closing time--lubricated shaft and packing.
W	IPS3	04-001	01/25/84	VALVE	X		MS safety valve MS-45 opened prematurely--reset and tested valve.

TABLE A-3. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
W	IPS3	04-005	02/20/84	ELECON	--		FW regulating valve FCV-427 failed closed--water in solenoid terminal box--dried and sealed terminal box.
W	IPS3	04-006	03/09/84	CKTBRK	X		Reactor trip bypass breaker 52/BYB inadvertently closed--realigned catch plate.
W	JMF1	04-001A	01/09/84	PUMP	--		Feedpump 1A lube oil pump tripped--readjusted impeller lift.
W	JMF1	04-001B	01/09/84	INSTRU	--		Source range detector failed--replaced.
W	JMF1	04-001C	01/09/84	INSTRU	--		Source range detector failed--replaced.
W	JMF2	04-003	01/30/84	INSTRU	X		Steam pressure Xmitter PT-495 spiked low--replaced failed NLP card.
W	NAS2	04-001A	03/13/84	VALVOP	X		AFW valve MOV-FW-2000 failed open--burnished torque switch contacts.
W	NAS2	04-001B	03/13/84	HTEXCH	--		FW heater 5B had two leaking tubes--no corrective action stated.
W	NAS2	04-001C	03/13/84	VALVOP	--		AFW valve MOV-2000 failed to operate--tightened loose torque switch contacts.
W	REG1	04-001A	02/19/84	VALVE	X		SI accumulator "B" vent valve 034B bound open--no corrective action stated.
W	REG1	03-001B	02/19/84	INSTRU	X		SI accumulator "A" vent valve HCV-945 leaked by--current to pressure transducer dirty--cleaned and calibrated transducer.
W	REG1	04-001C	02/19/84	VALVE	X		SI accumulator "A" relief valve 030A leaked by--no corrective action stated.
W	REG1	04-002	03/03/84	VALVOP	X		RIIR valve MOV-700 to open--will repair.
W	SGS1	04-004	01/21/84	VALVE	X		FW heater bypass valve 1CN47 bound shut--adj valve travel.
W	SGS1	03-006	02/02/84	HTEXCH	X		CFCU 15 leaking--vent line replaced.
W	SGS1	04-007	03/06/84	VALVE	X		CI Station Air check valve 1SA119 failed LLRT--will repair.
W	SGS2	04-001A	01/12/84	VALVE	X		RC RTD bypass line valve 22RC17 had detached disc--will replace valve.
W	SGS2	04-001B	01/12/84	VALVE	X		RC RTD bypass line valve 23RC24 had detached disc--will replace valve.
W	SGS2	04-005	02/22/84	RELAY	X		DG 2A output breaker tripped--relay not resetting itself--will replace relay.
W	SNP1	04-014A	02/14/84	INSTRU	X		Radiation detector power supply failed causing CVI to occur--repaired power supply.
W	SNP1	04-014B	03/01/84	INSTRU	--		CVI occurred three times due to faulty low iodine flow switch--replaced switch.

TABLE A-3. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
W	SPS1	04-001	01/06/04	VALVE	X		FW regulating valve FCV-FW-147B would not fully close--1/2 in. nut found internally--rebuild valve.
W	SPS1	04-002A	01/10/04	VALVE	X		FW regulating valve would not fully close--will be disassembled and inspected.
W	SPS1	04-002B	01/10/04	INSTRU	X		Source range detector NI-36 failed to reinstate--will replace capacitor.
W	SPS1	04-003A	02/06/04	VALVE	X		FW regulating valve would not fully close--will be disassembled and inspected.
W	SPS1	04-003B	02/06/04	INSTRU	X		Source range detector NI-36 failed to reinstate--will replace capacitor.
W	SPS2	04-003A	01/14/04	VALVOP	--		FW regulating valve "A" failed open--air supply leaking--replaced air line.
W	SPS2	04-003B	01/14/04	INSTRU	--		Source range detector NI-31 failed to reinstate--will replace capacitor.
W	TPS3	04-004A	01/04/04	PUMP	X		AFW pump "A" did not produce required flow--readjusted manual governor speed control.
W	TPS3	04-004B	01/04/04	PUMP	X		AFW pump "C" did not produce required flow--readjusted manual governor speed control.
W	TPS3	04-008	02/23/04	INSTRU	X		AFW pump "B" experienced flow oscillations--isolated faulty D/P cell.
W	TPS3	04-011	03/23/04	ELECON	X		Power range channel 43 "B" detector reading low--dried and sealed connector.
W	TPS4	04-001	02/12/04	RELAY	X		Synchronism-check relay failed to prevent breaker 4AC01 from closing--no corrective action stated.
W	TPS4	04-002A	02/12/04	INSTRU	X		RPS high steam flow Xmitter FT-4-475 reading high--zero adj.
W	TPS4	04-002B	02/13/04	INSTRU	X		RPS high steam flow Xmitter FT-4-475 reading high--terminal lugs corroded due to water leakage--replaced Xmitter.
W	Z1S1	04-001	01/05/04	GENERA	X		Instrument inverter 112 experienced temporary output voltage loss--replaced failed capacitor.
W	Z1S1	04-003	01/24/04	PIPE	X		CFCU "1B" flexible motor hose leaking--replacement hose ordered.
W	Z1S1	04-005	01/20/04	PIPE	X		RC leaking from thimble E-11 seal--replaced seal.
W	Z1S2	04-003	01/16/04	INSTRU	X		FW pump 2B tripped--recalibrated lube oil pressure switch 63LBOT.

a. Letters following the LER report number indicate multiple entries on the LER.

b. The quarter and year of the data-base tape containing the initial NPRD-4 form match is contained in this column. For example, 1-04 indicates that the matching NPRD-4 form was located on the first quarter 1904 data-base tape.

TABLE A-4. ONE-LINE DESCRIPTION OF FAULTS DISCUSSED IN THE LERs FOR PHASE K

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
BW	CRP3	84-008	04/24/84	INSTRU	X		ESF Channel 2 LPI bistable failed--replaced bistable.
BW	CRP3	84-011	05/09/84	VALVE	X		Nuclear Service Seawater pump discharge check valve RWV-3B failed to open--disc seat ring separated from valve body due to corrosion--replaced valve.
BW	NEE1	84-002	05/12/84	RELAY	X		Relay for reactor T-Hot indication failed--dirty contacts--replaced relay.
BW	RSS1	84-016	04/04/84	VALVE	X		RC pump seal return line isolation valve SFV-24013 had long stroke time--valve was restroked.
DW	RSS1	84-018A	06/01/84	INSTRU	X		Integrated control system pressure switch shorted--bourdon tube leaked--replaced.
BW	RSS1	84-018B	06/01/84	INSTRU	X		Integrated control system pressure switch shorted--bourdon tube leaked--replaced.
BW	TH11	84-002A	06/03/84	INSTRU	X		ESAS relay 63Z2D/RD2A relay coil failed--replaced relay.
DW	TH11	84-002B	06/03/84	INSTRU	X		ESAS relay 63Z1B/RC2B relay coil failed--replaced relay.
DW	TH11	84-002C	06/30/84	INSTRU	X		ESAS relay 62X2B/RC1A coil failed--overheating--replaced coil.
CE	CCN1	84-005A	05/02/84	ITEXCH	X		CCW ITEXCH #22 experienced severe localized graphitization--holes created during graphite removal--ITEXCH encapsulated.
CE	CCN1	84-005B	05/05/84	ITEXCH	X		CCW ITEXCH #12 experienced through wall weepage--ITEXCH encapsulated.
CE	CCN1	84-005C	05/05/84	ITEXCH	X		CCW ITEXCH #11 experienced through wall weepage--replaced channel head.
CE	CCN1	84-005D	05/05/84	ITEXCH	X		CCW ITEXCH #21 experienced graphitization--replaced channel head.
CE	CCN1	84-005E	05/05/84	ITEXCH	X		ESW ITEXCH #12 experienced graphitization--installed bolted plate patches.
CE	CCN1	84-006E	05/05/84	ITEXCH	X		ESW ITEXCH #22 experienced graphitization--installed bolted plate patches.
CE	FC51	84-008	05/16/84	ITEXCH	X		SG RC-2B tube failure--IGSCC--repaired.
CE	HYP1	84-005	05/29/84	RELAY	X		SIAS Train A GE Type BFD relay contacts not conducting--repaired.
CE	SOS2	84-025	04/23/84	CRTDRK	--		RTD S/N 256A4002-656-18 exhibited unacceptable response times--returned to vendor for refurbishment.
GE	BEP2	84-007A	05/22/84	VALVE	X		SRV B21-F013L would not lift--refurbished and recertified.
GE	BEP2	84-007B	05/22/84	VALVE	X		SRV B21-F013E lifted at greater than setpoint tolerance--refurbished and recertified.
GE	BEP2	84-007C	05/22/84	VALVE	X		SRV B21-F013F lifted at greater than setpoint tolerance--refurbished and recertified.

TABLE A-4. (continued)

Vendor	Plant	LER		NPRD-4		Located ^b	Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted		
GE	BEP2	04-007D	05/22/84	VALVE	X		SRV 021-F013J lifted at greater than setpoint tolerance--refurbished and recertified.
GE	BEP2	04-007E	05/22/84	VALVE	X		SRV 021-F013K lifted at greater than setpoint tolerance--refurbished and recertified.
GE	BFR1	04-026	06/20/84	PUMP	X		Recirculation pump "B" upper seal failed--replaced seal.
GE	BRF3	04-006A	05/17/84	PIPE	--		Jet pump 4 inch reducer weld exhibited IGSCC--will be overlayed.
GE	URF3	04-006B	05/17/84	PIPE	--		Jet pump 4 inch reducer weld exhibited IGSCC--will be overlayed.
GE	CPR1	04-004	04/05/84	MECFUN	X		RCIC turbine speed controller failed--resoldered broken solder joint.
GE	CPR1	04-007A	04/19/84	FILTER	--		SBGTS charcoal filter flooded--replaced filter.
GE	CPR1	04-007B	04/19/84	FILTER	--		SBGTS charcoal filter flooded--replaced filter.
GE	DRS	04-009	06/21/84	VALVOP	--		FW regulating valve "A" operator vibrated loose--retainers installed.
GE	EIH1	04-011A	06/20/84	VALVE	--		HPCI steam supply valve 1E41-F001 seat steam cut--repaired valve.
GE	EIH1	04-011B	06/20/84	MECFUN	X		HPCI governor had broken ball and tappet assembly--replaced assembly.
GE	JAF1	04-012A	05/10/84	INSTRU	X		RCIC isolation thermocouple for 13-MOV-16 shorted--restored to normal.
GE	JAF1	04-012B	05/10/84	VALVE	X		HPCI stop valve stem cracked--replaced stem.
GE	LSC1	04-022	04/14/84	INSTRU	X		Reactor vessel level instruments low level setpoints too conservative--setpoints readjusted.
GE	LSC1	04-039	06/24/84	INSTRU	X		MS signal to Reactor Water Level Control lost--flow summer/dynamic compensator signal dropped to zero.
GE	MNS1	04-000A	04/27/84	PIPE	X		CS weld CSDJ-12 showed IGSCC--will be cut out and replaced.
GE	MNS1	04-000B	04/27/84	PIPE	X		Recirculation weld PRAJ-4 showed IGSCC--will be overlayed.
GE	MNS1	04-012A	06/14/84	VALVE	X		SRV S/N 1035 failed to open at required setpoint--overhauled and recertified.
GE	MNS1	04-012B	06/14/84	VALVE	X		SRV S/N 1041 failed to open at required setpoint--overhauled and recertified.
GE	MNS1	04-012C	06/14/84	VALVE	X		SRV S/N 1042 failed to open at required setpoint--overhauled and recertified.
GE	NMP1	04-013A	06/14/84	VALVE	X		SRV 112 stuck open--refurbished pilot valve.
GE	NMP1	04-013B	06/14/84	VALVE	X		SRV 121 stuck open--replaced pilot valve.

TABLE A-4. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
GE	NMP1	84-013C	06/14/84	VALVE	X		SRV 113 failed to open--internal wires prevented shorting bar movement--relocated wires.
GE	OCP1	84-015A	06/07/84	RELAY	--		IIFA Century series relay fogging--will be evaluated.
GE	OCP1	84-015B	06/07/84	RELAY	--		IIFA Century series relay fogging--will be evaluated.
GE	PBS2	84-008	04/27/84	VALVE	X		SDGT SV-00009 failed to operate properly--replaced solenoid.
GE	PBS2	84-010	06/07/84	PIPE			Jet pump "A" weld JP-A-2 showed IGSCC--will be corrected.
GE	PBS3	84-008A	06/10/84	PIPE	X		Jet pump "A" weld JP-A-2 showed IGSCC--weld overlayed.
GE	PBS3	84-008B	06/10/84	PIPE	X		Jet pump "A" weld JP-B-2 showed IGSCC--weld overlayed.
GE	PPS1	84-005A	04/04/84	VALVE	X		SRV RV 203-3D S/N 1049 did not lift within specifications--refurbished and recalibrated.
GE	PPS1	84-005B	04/04/84	VALVE	X		SRV RV 203-3A S/N 1054 did not lift within specifications--refurbished and recalibrated.
GE	PPS1	84-008	05/21/84	RELAY	X		RPS IIFA relay hot and smoking--replaced.
GE	PPS1	84-009	06/26/84	RELAY	X		PCIS IIFA relay hot and smoking--replaced.
GE	QAD2	84-005A	05/08/84	VALVE	X		SRV 2-203-3C leaking by--replaced pilot valve.
GE	QAD2	84-005B	05/08/84	VALVE	X		SRV 2-203-3E leaking by--replaced pilot valve.
GE	QAD2	84-007	06/10/84	INSTRU	X		Turbine #4 control valve ESF 90% closed limit switch sticking--will be repaired.
GE	VYS1	84-004	04/17/84	VALVE	X		MSIV-2-BOC failed shut--replaced pneumatic pilot valve assembly.
W	DCC1	84-004	04/06/84	VALVE	X		TDAFWP throttle trip valve failed to trip--bushing erosion--design changed.
W	DCC1	84-008	06/17/84	GENERA	X		Control room instrument distribution inverter IV capacitor failed--replaced capacitor.
W	IIDR2	84-003A	05/21/84	SUPPORT	X		SG snubber 2008 failed lockup velocity test--requirement under investigation.
W	IIDR2	84-003B	05/21/84	SUPPORT	X		SG snubber 2011 monohall bearing failed--bearing downrated.
W	IIDR2	84-003C	05/21/84	SUPPORT	X		SG snubber 2014 failed lockup test--low fluid level--repaired.
W	IP53	84-007	05/08/84	INSTRU	X		Nuclear Power Range Channel 41 out of tol.--setpoint drift--adj.

TABLE A-4. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
W	IPS3	04-008	05/29/84	VALVOP	X		MSIV vent valve inadvertently opened--latch pin rotated--repaired.
W	IPS3	04-009	06/16/84	VALVOP	X		MFW regulating valve for No. 33 SG closed--operator yoke wrong material--replaced yoke.
W	JMF1	04-011	05/01/84	BATTRY	--		SW B train battery cell No. 42 had a low specific gravity--current tracking across battery case--replaced cell.
W	KNP1	04-006A	04/16/84	VALVE	X		CI valve LD-4A failed LLRT--degraded seat ring--repaired.
W	KNP1	04-006B	04/16/84	VALVE	X		CI valve LD-4B failed LLRT--degraded seat ring--repaired.
W	KNP1	04-006C	04/16/84	VALVOP	X		CI valve LD-6 failed LLRT--operator out of adj.--adj.
W	KNP1	04-008	05/05/84	INSTRU	X		RPS Intermediate Range channel N35 tripped--faulty detector.
W	MGS2	04-011	04/23/84	INSTRU	X		Process Control System Protection Cabinet I Power Supply failed--replaced power supply.
W	MGS2	04-012	05/10/84	VALVOP	X		MFW regulating valve D closed abruptly--valve positioner faulty--cleaned positioner.
W	MGS2	04-013	05/11/84	VALVE	X		D SG tempering flow valve 2CF-15B stuck open--repair during next outage.
W	NAS2	04-002	05/05/84	HTEXCH	--		FW heater 5B experienced leaking tubes--tubes plugged.
W	NAS2	04-005A	06/25/84	VALVOP	X		MFW control valve to A SG failed closed--replaced air lines.
W	NAS2	04-005B	06/25/84	CKTURK	X		B reactor trip breaker failed to close--control relay release arm opened early--adj.
W	SGS1	04-012	05/27/84	VALVE	X		Charging/SI to cold leg throttle valve 115J16 experienced disk/stem separation--valve to be replaced.
W	SGS2	04-011	04/20/84	HTEXCH	X		No. 23 SG Feedwater flow nozzle moved twenty four inches--replaced nozzle.
W	SNP1	04-031A	05/05/84	VALVE	X		Pressurized safety relief valve 1-SRV-68-565 lifted prematurely--seat leakage--replaced valve.
W	SNP1	04-031B	05/06/84	INSTRU	--		Pressure to current converter for AFW bypass level control valve 1-LCV-3-164A failed--replaced converter.
W	SNP1	04-033	05/11/84	VALVOP	X		Steam dump valve 1-FCV-1-107 cycled erratically--broken repositioning linkage--replaced linkage.

TABLE A-4. (continued)

Vendor	Plant	LER		NPRD-4			Failure Description
		Report Number ^a	Event Date	Component Code	Reportedly Submitted	Located ^b	
W	SNP1	84-035	05/21/84	GENERA	X		120 VAC Inverter 1-11 failed--blown fuse--replaced fuse.
W	SNP1	84-039	05/27/84	PUMP	X		Radiation vacuum (sample) pump bearings froze--normal wear--replaced bearings and vane.
W	SNP2	84-007	05/19/84	RELAY	--		RCP undervoltage timing relay failed--repaired relay.
W	SPS2	84-010A	04/18/84	HTEXCH	X		FW heater 6A tubes and plugs leak--repaired.
W	SPS2	84-010B	04/18/84	VALVE	X		No. 1 turbine stop valve mechanically bound--exercised.
W	SPS2	84-010C	04/19/84	HTEXCH	X		FW heater 6A loop seal plugged with rubber--rubber removed.
W	SPS2	84-010D	04/19/84	INSTRU	X		Intermediate range channel NI-36 failed--compensation problem--adj.
W	TNP1	84-009	04/29/84	INSTRU	--		PERM-1C control switch had dirty contacts--cycled switch.
W	TPS3	84-015A	05/14/84	ELECON	--		NIS IRM channel N-35 high voltage cable to detector measured low resistance--repair during shutdown.
W	TPS3	84-015B	05/14/84	ELECON	X		Cable ground in terminal box TB 3200--repaired.
W	VCS1	84-019	04/08/84	VALVE	X		Pressurizer safety relief valve XVR-0010-C out of tol.--adj.
W	VCS1	84-024A	04/29/84	VALVOP	X		SG B FW Isolation valve XVG-1611B failed to close--air motor defective--replaced.
W	VCS1	84-024B	04/29/84	INSTRU	X		Source range detector for NI-31 defective--replaced detector.
W	ZIS2	84-013A	05/03/84	HTEXCH	X		Reactor containment fan cooler 2A experienced tube leakage--tubes plugged.
W	ZIS2	84-013B	05/03/84	HTEXCH	X		Reactor containment fan cooler 2B experienced tube leakage--tubes plugged.
W	ZIS2	84-013C	05/03/84	HTEXCH	X		Reactor containment fan cooler 2C experienced tube leakage--tubes plugged.
W	ZIS2	84-013D	05/03/84	HTEXCH	X		Reactor containment fan cooler 2D experienced tube leakage--tubes plugged.
W	ZIS2	84-013E	05/03/84	HTEXCH	X		Reactor containment fan cooler 2E experienced tube leakage--tubes plugged.

a. Letters following the LER report number indicate multiple entries on the LER.

b. The quarter and year of the data-base tape containing the initial NPRD-4 form match is contained in this column. For example, 4-83 indicates that the matching NPRD-4 form was located on the fourth quarter 1983 data-base tape.

TABLE B-1. LER/NPRD-4/NPRD-2 COMPARISON (THIRD QUARTER 1983)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-001	CB	VALVEX	CBD	VALVE	Yes	Yes	Instrument/switch miscalibration is not a proper cause code for a relief valve.	CBD	Yes	1. Manufacturer serial number. 2. Estimated shutdown percent of operation. ^e 3. Estimate of out-of-service hours for testing. ^e
	83-001A	SH	INSTRU	IED	INSTRU	Narrative is sketchy.	Yes	Several codes not discussed in narrative.	IED	Yes	1. Operating mode. ^e 2. Manufacturer serial number. 3. Estimated percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e
	83-004B	SH	INSTRU	IED	INSTRU	Narrative is sketchy.	Yes	Several codes not discussed in narrative.	IED	Yes	1. Operating mode. ^e 2. Manufacturer serial number. 3. Estimated percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e
	83-015	PC	VALVOP	PCB	VALVOP	Yes	Yes	Yes	PCB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-007A	III	VALVOP	IIBB	VALVOP	Yes	System codes differ. Should be under Auxiliary/Emergency Feedwater System	Mode of failure may not be appropriate for a valve operator.	IIBB	Yes	1. Estimated shut-down percent of operation. ^e
	83-007B	III	VALVOP	IIBB	VALVOP	Yes	System codes differ. Should be under Auxiliary/Emergency Feedwater System	Yes	IIBB	Yes	1. Estimated shut-down percent of operation. ^e
	83-007C	III	VALVOP	IIBB	VALVOP	Yes	Yes	Particulate contamination not discussed in narrative.	IIBB	Yes	1. Estimated shut-down percent of operation. ^e
	83-031B	IB	INSTRU	IAA	INSTRU	Yes	Yes	Mode of failure is not appropriate. Narrative does not address circuit defect as a cause of failure.	IAA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^e
	83-031C	IB	INSTRU	IAA	INSTRU	Incomplete cause description.	Yes	Mode and cause of failure are the same.	IAA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-1					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-1 Consistent ^d	Deficient or Ambiguous Entries
	83-0310	IR	INSTRU	IAA	INSTRU	Incomplete cause description.	Yes	Mode and cause of failure are the same.	IAA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^e
	83-045	CE	VALVEX	CEA	VALVOP	No corrective action.	Yes	Yes	CEA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimated operating and shutdown percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e
	83-001	SD	INSTRU	CEA	INSTRU	Yes	LER cause: "moisture accumulation." NPRD-1 cause: "full of water." System codes differ.	Yes	CEA	Yes	1. Operating mode. ^e 2. Manufacturer serial number. 3. Manufacturer code or standard. 4. Estimated percent of operation--due to operating mode. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-021	50	INSTRU	SFC	INSTRU	Yes	Yes	Manufacturing as a cause is not explained in the narrative.	SFC	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimated operating and shutdown percent of operation.^e 4. Estimate of out-of-service hours for testing.^e
	83-030	1B	INSTRU	IAA	INSTRU	Narrative is sketchy.	System codes differ.	Yes	IAA	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing.^e
	83-049	1A	INSTRU	MCA	INSTRU	Yes	System codes differ.	Yes	MCA	Yes	1. Internal environment. 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Supplier/vendor reference number.^e 5. Estimated percent of operation.^e 6. Estimate of out-of-service hours for testing.^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	82-079A	SF	VALVOP	SFB	VALVOP	Yes	Yes	Yes LER submittal number wrong.	SFB	Yes	1. Manufacturer code or standard. 2. Estimate of out-of-service hours for testing. ^e
	82-079B	SF	VALVOP	SFB	VALVOP	Yes	Yes	Yes LER submittal number wrong.	SFB	Yes	1. Manufacturer code or standard. 2. Estimate of out-of-service hours for testing. ^e
	82-000	EB	GENERA	EEA	ENGINE	Narrative addresses relay contacts not diesel engine.	Yes	Narrative does not mention that the contacts were cleaned and polished.	EEA	Yes	1. Manufacturer code or standard. 2. Estimate of out-of-service hours for testing. ^e
	83-006	CC	VALVEX	CCA	VALVE	Cause description is incomplete.	LER contains more information and a cause description.	Cause and corrective action does not correspond to narrative.	CCA	Yes	1. Utility system code. 2. Manufacturer code or standard. 3. Estimated standby and shutdown percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	82-032A	CD	VALVEX	CCA	VALVE	No cause for valve leakage given.	Yes	Abnormal wear and abnormal service condition not discussed in narrative.	CCA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimated standby and shutdown percent of operation.^e 4. Estimate of out-of-service hours for testing.^e
	82-032B	CD	VALVEX	CCA	VALVE	No cause for valve leakage given.	Yes	Abnormal wear and abnormal service condition not discussed in narrative.	CCA	Yes	1. Manufacturer serial number. 2. Estimated standby and shutdown percent of operation.^e 3. Estimate of out-of-service hours for testing.
	82-032C	CD	VALVEX	CCA	VALVE	No cause for valve leakage given.	Yes	Abnormal wear and abnormal service condition not discussed in narrative.	CCA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimated standby and shutdown percent of operation.^e 4. Estimate of out-of-service hours for testing.

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
[REDACTED]	82-032D	CD	VALVEX	CCA	VALVE	No cause for valve leakage given.	Yes	Abnormal wear and abnormal service condition not discussed in narrative.	CCA	Yes	1. Manufacturer serial number. 2. Estimated standby and shutdown percent of operation. ^e 3. Estimate of out-of service hours for testing. ^e
	82-032E	CD	VALVEX	CCA	VALVE	No cause for valve leakage given.	Yes	Abnormal wear and abnormal service condition not discussed in narrative.	CCA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimated standby and shutdown percent of operation. ^e 4. Estimate of out-of service hours for testing. ^e
	82-032F	CD	VALVEX	CCA	VALVE	No cause for valve leakage given.	Yes	Abnormal wear and abnormal service condition not discussed in narrative.	CCA	Yes	1. Manufacturer serial number. 2. Estimated standby and shutdown percent of operation. ^e 3. Estimate of out-of service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	82-032G	CD	VALVEX	CCA	VALVE	No cause for valve leakage given.	Yes	Abnormal wear and abnormal service condition not discussed in narrative.	CCA	Yes	1. Manufacturer serial number. 2. Estimated standby and shutdown percent of operation. ^e 3. Estimate of out-of-service hours for testing. ^e
	83-001	SB	VALVOP	CFA	VALVE	Yes	LER contains more information.	Mode and cause of failure do not correspond to the narrative.	CFA	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e
	83-026	EE	HTEXCH	EEEDCA	GENERA	Yes	Component codes differ. The failure report should have been filed on the heat exchanger not the generator.	Effect on system coded wrong.	EEA	System codes differ.	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data--voltage range. ^e 4. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER		NPRD-4				NPRD-2			
	Report Number	System Code	Component Code	System Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	82-066	1A	INSTRU	IDD	Yes	LER describes failure of transmitter. NPRD-4 describes failure of resistance temperature detector.	Yes	IDD	Yes	1. Manufacturer code or standard.
										2. Manufacturer serial number.
										3. Supplier/vendor reference number ^e
										4. Vendor identifica- tion number.
										5. Estimate of out-of- service hours for testing. ^e
	83-035	1B	INSTRU	IDB	Yes	Yes	Yes	IDB	Yes	1. Internal environment.
										2. Manufacturer code or standard.
										3. Manufacturer serial number.
										4. Supplier/vendor reference number. ^e
										5. Vendor identifica- tion number.
										6. Estimate of out-of- service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-004	WE	MECFUN	HDB	TURBIN	Yes	System codes differ. Should be under Auxiliary/ Emergency Feedwater System.	Yes	HDB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Supplier/vendor reference number.^e 4. Vendor identification number. 5. Estimated standby percent of operation.^e 6. Component engineering data--type blading.^e
	83-008	SA	VALVEX	SCD	VALVE	Yes	Yes	Yes	SCD	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Supplier/vendor reference number.^e 4. Estimate of out-of-service hours for testing.^e
	83-052	EB	GENERA	EDK	GENERA	Yes	Yes	Mode of failure misinterpreted.	EDK	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing.^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	02-070	IA	INSTRU	CDD	INSTRU	Yes	System codes differ.	Yes	CDD	Yes	1. Safety class.^e 2. Source drawing or document number.^e 3. Manufacturer code or standard. 4. Manufacturer serial number. 5. Vendor identification number. 6. Estimated shutdown percent of operation.^e
	02-058	RA	INSTRU	BAB	INSTRU	Narrative is sketchy. No reason given for instrument inoperable. No relation between setpoint drift and boards replaced.	LER contains more complete information.	Narrative does not address circuit defect or spurious operation.	BAB	Yes	1. Manufacturer code or standard.
	03-034	CB	ZZZZZZ	CDD	INSTRU	Yes	Yes	Cause code not discussed in cause description.	CDD	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.

TABLE 8-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	82-049	SD	VALVOP	SAA	VALVOP	Yes	Yes	Yes	SAA	Yes	1. Manufacturer code or standard. 2. Estimate of out-of-service hours for testing. ^e
	83-018A	SD	VALVEX	SAA	VALVE	Yes	Yes	Yes	SAA	Yes	1. Manufacturer serial number. 2. Estimated shut-down percent of operation. ^e 3. Estimate of out-of-service hours for testing. ^e
	83-018B	SD	VALVEX	SAA	VALVE	Yes	Yes	Yes	SAA	Yes	1. Manufacturer serial number. 2. Estimated shut-down percent of operation. ^e 3. Estimate of out-of-service hours for testing. ^e
	83-010C	SD	VALVEX	SAA	VALVE	Narrative addresses failure of a different valve. This places the entire form in question.	Yes, for the valve in the narrative.	Yes	SAA	Yes	1. Manufacturer serial number. 2. Estimated shut-down percent of operation. ^e 3. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER				NPRD-4				NPRD-2			
	Report Number	System Code	Component Code	System Code	Component Code	System Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries ^e
	03-0180	SD	VALVEX	SAA	VALVE	SAA	Narrative addresses failure of a different valve. This places the entire form in question.	Yes, for the valve in the narrative.	Yes	SAA	Yes	1. Manufacturer serial number. 2. Estimated out-of-service hours for testing. ^e
	03-060	MC	INSTRU	MCA	INSTRU	MCA	Yes	Yes	Mode of failure is not appropriate.	MCA	Yes	1. Manufacturer code or standard.
	83-014	MC	INSTRU	MCA	INSTRU	MCA	Yes	Yes	Yes	MCA	Yes	1. Manufacturer code or standard.
	83-025A	MC	INSTRU	MCA	INSTRU	MCA	Yes	Yes	Yes	MCA	Yes	1. Manufacturer code or standard.
	83-025B	MC	INSTRU	MCA	INSTRU	MCA	Yes	Yes	Yes	MCA	Yes	1. Manufacturer code or standard.
	03-055	CF	VALVOP	CFA	VALVOP	CFA	Yes	Yes	Yes	CFA	Yes	1. Component engineering data--force or torque rating. ^e
	83-005	IA	INSTRU	IBD	INSTRU	IBD	Narrative describes channel failure not component failure.	Yes	Circuit defect not discussed in cause description.	IBD	Yes	1. Out-of-service date 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Vendor identification number.

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-006	IA	INSTRU	IDO	INSTRU	Narrative describes channel failure not component failure.	Yes	Circuit defect not discussed in cause description.	IDO	Yes	1. Out-of-service date. 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Vendor identification number.
	83-003	SB	HTEXCH	SBD	BLOWER	Yes	Yes, however the failure report should have been filed on the heat exchanger not the blower.	Yes	SDD	Yes	1. Internal environment. 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Vendor identification number. 5. Estimate of out-of-service hours for testing.^e
	83-002	EE	ZZZZZZ	EEB	BLOWER	Yes	Yes	Failure mode is not appropriate	EEB	Yes	1. Manufacturer code or standard. 2. Estimate of out-of-service hours for testing.^e
	83-006	CF	RJIR796	CFF	VALVOP	Yes	Yes	Failure mode is not appropriate.	CFF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing.^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^h	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-009	SF	PUMPXX	PCG	PUMP	Yes	System codes differ.	Yes	PCG	Yes	1. Manufacturer code or standard. 2. Estimate of out-of-service hours for testing. ^e
	83-012	EE	MECFUN	EED	MECFUN	Yes	Yes	Mode of failure misinterpreted.	EED	Yes	1. Manufacturer code or standard. 2. Vendor identification number. 3. Estimate of out-of-service hours for testing. ^e
	83-001A	CD	VALVEX	IIBC	VALVE	Yes	Yes	Cause of failure does not correspond to narrative.	IIBC	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e
	83-001B	CD	VALVEX	IIBC	VALVOP	Cause description is incomplete	Yes	Mode and cause of failure not discussed in narrative.	IIBC	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e
	83-014	PC	PUMPXX	PCG	PUMP	Yes	Yes	Yes	PCG	Yes	1. Manufacturer code or standard.
	83-022	SD	VALVEX	SFH	VALVE	Yes	System codes differ.	Yes	SFH	Yes	1. Manufacturer serial number.
	83-025	CH	VALVEX	IIIC	VALVE	Yes	System codes differ.	Yes	IIIC	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	Report Number	LER		NPRD-1					NPRD-2		
		System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	82-047	HB	VALVEX	CCA	VALVE	Yes	Yes	Yes	CCA	Yes	1. Manufacturer serial number. 2. Vendor identification number. 3. Estimated shutdown percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e
	83-010	SF	VALVEX	CFA	VALVE	Yes	Yes	Mode of failure is not appropriate.	CFA	Yes	1. Utility system code. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^e
	83-014	EC	BATTERY	EEA	BATTERY	Yes	System codes differ.	Yes	ECB	System codes differ.	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-007	SD	PENETR	SAC	PENETR	Yes	Yes	Yes	SAC	Yes	1. Manufacture: code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^e
	83-003	SF	VALVOP	CFF	VALVOP	No corrective action.	Yes	Mode of failure does not correspond to narrative.	CFF	Yes	1. Manufacturer code or standard.
	83-039A	CD	VALVEX	IIDC	VALVE	No corrective action.	Yes	Cause of failure does not correspond to cause description.	IIDC	Yes	--
	83-039B	CD	VALVEX	IIDC	VALVE	Yes	Yes	Cause of failure does not correspond to cause description.	IIDC	Yes	--
	83-039C	CD	VALVEX	IIDC	VALVE	No corrective action.	Yes	Yes	IIDC	Yes	--
	83-002	EE	HTEXCH	EEB	ENGINE	Yes	Yes	Mode of failure is not appropriate.	EEB	Yes	1. Manufacturer code or standard.
	83-016	SC	INSTRU	SCF	FILTER	Yes	Yes	Yes	SCF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number.

TABLE 8-1. (continued)

Plant Code	LER			NPRD-4				NPRD-2			
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-018	H8	VALVOP	H8C	VALVOP	Yes	Yes	Cause of failure not discussed in narrative.	H8C	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data--torque rating. ^e
	83-019	W8	PUMPXX	W8D	PUMP	Yes	LER: oil seal failure; NPRD-4: water seal failure.	Yes	W8D	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number.
	82-023A/ 03X	SD	VALVEX	SAA	VALVE	No cause given for packing leak.	Yes	Improper codes for mode and cause of failure.	SAA	Yes	1. Utility system code. 2. Estimated shutdown percent of operation. ^e 3. Estimate of out-of-service hours for testing. ^e
	82-023B /03X	SD	VALVEX	SAA	VALVE	Yes	Yes	Improper codes for mode and cause of failure.	SAA	Yes	1. Utility system code. 2. Manufacturer serial number. 3. Estimated shutdown percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-1				NPRD-2			
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
[REDACTED]	82-023C /03X	SD	VALVEX	SAA	VALVE	Corrective action is incomplete.	Yes	Narrative does not indicate parts replaced. Improper codes for mode and cause of failure.	SAA	Yes	1. Utility system code. 2. Manufacturer serial number. 3. Estimated shutdown percent of operation. ^e 4. Estimate of out-of-service hours for testing.
[REDACTED]	82-023D /03X	SD	VALVEX	CHIA	VALVE	Yes	Yes	Coding does not indicate replaced parts. Improper codes for mode and cause of failure.	CHIA	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e
[REDACTED]	82-023E /03X	SD	VALVEX	CHIA	VALVE	Yes	Yes	Coding does not indicate replaced parts. Improper codes for mode and cause of failure.	CHIA	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e
[REDACTED]	82-023F /03X	SD	VALVEX	PCA	VALVE	Yes	Yes	Narrative does not indicate a temporary bypass. Improper codes for mode and cause of failure.	PCA	Yes	1. Utility system code. 2. Manufacturer serial number. 3. Estimated percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e 5. Component engineering data--nominal inlet size. ^e

TABLE B-1. (continued)

Plant Code	LER				NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries	
	02-030	SF	VALVOP	CFB	Cause description is incomplete.	LER contains more information. System codes differ.	Narrative does not indicate an engineering circuit design defect.	CFB	Yes	1. Safety class. ^e	2. Estimate of out-of-service hours for testing. ^e
	83-001	SD	INSTRU	CCA	Yes	System codes differ.	Narrative does not mention engineering design as cause of failure.	CCA	Yes	1. Manufacturer serial number.	2. Estimate of out-of-service hours for testing. ^e
	83-002	IA	INSTRU	COA	Yes	System codes differ.	Narrative does not mention engineering design as a cause of failure.	COA	Yes	1. Component engineering data--maximum input and span of output. ^e	2. Estimate of out-of-service hours for testing. ^e
	83-004	EE	VALVEX	EEA	Yes	Yes	Failure mode is not appropriate.	EEA	Yes	1. Utility system code.	2. Estimate of out-of-service hours for testing. ^e
	83-025	EE	ZZZZZZ	EEA	Yes	Yes	Mode and cause of failure are the same.	EEA	Yes	1. Utility system code.	2. Component engineering data--Cylinders.
										3. Component engineering data--Cylinders.	
										1. Utility system code.	2. Component engineering data--type and application. ^e
										3. Estimate of out-of-service hours for testing. ^e	

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	82-043	IB	SUPORT	IIBB	SUPORT	Yes	Yes	Yes	IIBB	Yes	1. Utility system code. 2. Manufacturer code or standard.
	83-049	IB	INSTRU	IDK	INSTRU	Narrative is written for channel not the component.	Yes	Cause of failure not discussed in narrative.	IDK	Yes	1. Internal environment.
	83-005A	SB	INSTRU	CFASCK	INSTRU	Yes	Yes	Failure mode is not appropriate.	SFA001	System codes differ.	1. Internal environment. 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Vendor identification number. 5. Source drawing or document number. ^e 6. Estimate of out-of-service hours for testing. ^e

TABLE D-1. (continued)

Plant Code	LER			NPRD-4				Coding Consistent With Narrative ^c	NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b		System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
█	83-0050	SB	INSTRU	CFASCK	INSTRU	Yes	Yes	Failure mode is not appropriate.	SFA002	System codes differ.	1. Internal environment. 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Vendor identification number. 5. Source drawing or document number. ^e 6. Estimate of out-of-service hours for testing. ^e
█	03-005C	SB	INSTRU	CFASCK	INSTRU	Yes	Yes	Failure mode is not appropriate.	SFA001	System codes differ.	1. Internal environment. 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Vendor identification number. 5. Source drawing or document number. ^e 6. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-011	RII	PUMPXX	CFF	PUMP	Yes	Yes	Yes	CFF	Yes	1. Manufacturer code or standard. 2. Vendor identification number. 3. Estimate of out-of-service hours for testing. ^e
	83-015	CG	CKTBRK	CGA	VALVE	Narrative is sketchy.	Component codes differ. The failure report should have been filed on the circuit breaker not the valve.	Yes	CGA	Yes	1. Internal environment. 2. Manufacturer serial number. 3. Estimated percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e
	83-009	EE	CKTBRK	EDB	CKTBRK	Yes	LER contains more information. LER: failed to close. NPRD-4: failed to manually open.	Narrative: failed to manually open. Mode: won't close.	EDB	Yes	1. Manufacturer serial number.
	83-009	EE	ENGINE	EEA	ENGINE	Narrative describes fuel pump failure not engine failure.	Yes	Narrative stated cause as "normal wear"; cause coded as abnormal wear. Most of the coding does not relate directly to the engine.	EEA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data--cylinders. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
[REDACTED]	83-023	EE	ENGINE	EEA	ENGINE	Yes	Yes	Yes	EEA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data--number of cylinders. ^e
[REDACTED]	83-035	SF	VALVOP	SFB	VALVOP	Yes	Yes	Mode of failure inappropriate.	SFB	Yes	1. Manufacturer code or standard. 2. Component engineering data--actuation speed. ^e 3. Component engineering data--force or torque rating. ^e 4. Estimate of out-of-service hours for testing. ^e
[REDACTED]	83-024	IB	INSTRU	HBC	INSTRU	Yes	System codes differ.	Yes	HBC	Yes	1. Manufacturer code or standard.
[REDACTED]	83-014A	SD	VALVEX	SCB	VALVE	Yes	System codes differ.	Yes	SCB	Yes	1. Manufacturer serial number. 2. Vendor identification number.
[REDACTED]	83-014B	SD	VALVEX	SCB	VALVE	Yes	System codes differ.	Yes	SCB	Yes	1. Manufacturer serial number. 2. Vendor identification number.

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
████	83-014C	SD	VALVEX	SCB	VALVE	Yes	System codes differ.	Yes	SCB	Yes	1. Manufacturer serial number. 2. Vendor identification number.
████	83-014D	SD	VALVEX	SCB	VALVE	Yes	System codes differ.	Yes	SCB	Yes	1. Manufacturer serial number. 2. Vendor identification number.
████	83-008	SB	CKTDRK	SOE	CKTDRK	Narrative describes failure of fan. Circuit breaker is addressed in failure cause and corrective action.	Yes	Yes	SOE	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^e
████	83-091	SD	VALVEX	SDG	VALVE	Yes	Component identification numbers do not correspond.	Yes	SDG	Yes	1. Utility system code. 2. Internal environment. 3. Manufacturer code or standard. 4. Vendor identification number. 5. Estimated shutdown percent of operation. ^e 6. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-072	10	INSTRU	11BC	INSTRU	Yes	System codes differ.	Yes	11BC	Yes	1. Internal environment. 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Vendor identification number. 5. Estimate of out-of-service hours for testing. ^e
	83-086	111	VALVOP	111A	VALVE	Yes	Component codes differ. The failure report should have been filed on the valve operator not the valve.	Yes	111A	Yes	1. Internal environment. 2. Manufacturer code or standard. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^e
	83-008	CJ	VALVEX	CB11	VALVOP	Narrative is sketchy.	Yes	Cause of failure does not correspond to narrative.	CB11	Yes	1. Estimate of out-of-service hours for testing. ^e
	83-009A	CJ	VALVEX	CB11	VALVE	Yes	Yes	Yes	CB11	Yes	1. Estimate of out-of-service hours for testing. ^e

TABLE B-1. (continued)

Plant Code	Report Number	LER		NPRD-4					NPRD-2		
		System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-032	CH	HTEXCH	CHH	HTEXCH	Yes	Yes	Mode of failure is not appropriate.	HDC	System codes differ.	1. Utility system code. 2. Manufacturer code or standard. 3. Estimate of out-of-service hours for testing. ^e
	83-007A	SD	VALVEX	SDB	VALVE	Yes	LER contains more information.	Yes	SDB	Yes	1. Manufacturer serial number. 2. Vendor identification number. 3. Estimated shutdown percent of operation. ^e
	83-007B	SD	VALVEX	SDB	VALVE	Yes	Yes	Yes	SDB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
	83-011	SD	VALVEX	SDB	VALVE	Yes	Yes	Yes	SDB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.

TABLE B-1. (continued)

Plant Code	LER			NPRD-4					NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	Coding Consistent With Narrative ^c	System Code	NPRD-4 Consistent ^d	Deficient or Ambiguous Entries
	83-006	IB	INSTRU	IDG	RELAY	Narrative is sketchy.	Yes	Yes	IDG	Yes	1. Manufacturer serial number. 2. Vendor identification number. 3. Component engineering data--maximum input and span of output. ^e
	83-019	EE	HTEXCH	EED	ENGINE	Narrative is sketchy.	Component codes differ. The failure report should have been filed on the heat exchanger not the engine.	Yes	EEB	Yes	1. Manufacturer code or standard. 2. Vendor identification number.
	83-035	EE	MOTORX	EED	GEKERA	Yes	Yes	Mode and cause of failure do not correspond to the narrative.	EEB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number.

a. Adequacy of the NPRD-4 narrative to describe the event independent of coding.

b. Compatibility of the NPRD-4 narrative with the LER narrative. Where applicable, LER/NPRD-4 coding correlation was also compared (e.g., event date, component code, etc.).

c. Consistency of the NPRD-4 coding with the LER and NPRD-4 narrative.

d. Consistency of the NPRD-2 coding with the NPRD-4 coding.

e. Mandatory entry.

TABLE B-2. LER/NPRD-4/NPRD-2 COMPARISON (FOURTH QUARTER 1983)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
	83-030	PC	CKTBK	EDD	CKTBK	Yes	System codes differ.	EDD	Yes	1. Safety class. ^d 2. Internal environment. 3. Manufacturer serial number. 4. Estimate of out-of-service hours for testing. ^d
	83-020	CB	PIPE	CDG	PUMP	Narrative is sketchy.	System and component codes differ.	CDG	Yes	1. Manufacturer serial number. 2. Supplier/vendor reference number. ^d
	83-044A	SD	VALVE	WDD	VALVE	Yes	System codes differ, however, this is a multiple failure LER.	WDD	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
	83-044B	SD	VALVE	PAF	VALVE	Yes	System codes differ, however, this is a multiple failure LER.	PAF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimated percent of operation. ^d
	83-051	CC	SUPORT	HDA	SUPORT	Yes	System codes differ.	HDA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
	83-092	EG	RELAY	WAD	RELAY	Yes	System codes differ.	WAD	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
	83-023	SB	CKTBK	EBA	CKTBK	Yes	System codes differ.	EBA	Yes	1. Manufacturer serial number. 2. Component engineering data -- temperature rating. ^d
	83-030	SF	INSTRU	CEA	TURBIN	Yes	System and component codes differ.	CEA	Yes	1. Vendor identification number. 2. Estimate of out-of-service hours for testing. ^d

TABLE B-2. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
[REDACTED]	83-062A	III	VALVE	CCA	VALVE	Yes	System codes differ.	CCA	Yes	1. Vendor identification number. 2. Component engineering data -- maximum operating pressure. ^d
[REDACTED]	83-062B	III	VALVE	CCA	VALVE	Yes	System codes differ.	CCA	Yes	1. Vendor identification number. 2. Component engineering data -- maximum operating pressure. ^d
[REDACTED]	83-062C	HI	VALVE	CCA	VALVE	Yes	System codes differ.	CCA	Yes	1. Vendor identification number. 2. Component engineering data -- maximum operating pressure. ^d
[REDACTED]	83-008	EE	GENERA	EED	INSTRU	Yes	Component codes differ.	EED	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^d
[REDACTED]	83-004	CH	VALVE	IIIC	VALVE	Yes	System codes differ.	IIIC	Yes	1. Vendor identification number.
[REDACTED]	83-010	CF	INSTRU	CFA	INSTRU	Yes	Yes	CFA	Yes	1. Safety class. ^d 2. Manufacturer code or standard. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^d
[REDACTED]	83-027A	SF	INSTRU	CFB	RELAY	Yes	System and component codes differ.	CFB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d

TABLE B-2. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
[REDACTED]	83-027B	SF	INSTRU	CFB	RELAY	Yes	System and component codes differ.	CFB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
[REDACTED]	83-016	IIH	PUMP	IIBB	PUMP	Yes	System codes differ.	IIBB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
[REDACTED]	83-011	IA	INSTRU	IDB	INSTRU	Yes	System codes differ.	IDB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^d
[REDACTED]	83-039	SF	VALVOP	SCD	VALVOP	Yes	System codes differ.	SCD	Yes	1. Manufacturer code or standard. 2. Component engineering data -- force or torque rating. ^d 3. Estimate of out-of-service hours for testing. ^d
[REDACTED]	83-043	SD	VALVE	PCF	VALVE	Narrative states valve was "hanging up".	System codes differ.	PCF	Yes	1. Estimate of out-of-service hours for testing. ^d
[REDACTED]	83-079	CB	VALVE	CBII	VALVE	Yes	Failure dates differ.	CBII	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d

TABLE B-2. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
	83-059	EB	GENERA	EBK	GENERA	Yes	Yes	EBK	Yes	1. Manufacturer code or standard. 2. Vendor identification number.
	83-068	SB	VALVOP	SCJ	VALVOP	Yes	System codes differ.	SCJ	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
	83-020	WB	CKTDRK	WAA	CKTDRK	Yes	System codes differ.	WAA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Component engineering data -- temperature rating. ^d 5. Component engineering data -- current rating. ^d 6. Estimate of out-of-service hours for testing. ^d
	83-021	EE	ELECON	EEA	ELECON	Yes	Yes	EEA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Source drawing or document number. ^d 5. Estimate of out-of-service hours for testing. ^d
	83-023A	SD	VALVE	CCA	VALVE	Yes	System codes differ.	CCA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d

TABLE B-2. (continued).

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	83-018	RD	VALVE	CEA	VALVE	Narrative states only that solenoid valve failed.	System codes differ.	CEA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimated percent of operation. ^d 4. Estimate of out-of-service hours for testing. ^d
████	83-053	CC	VALVOP	CCA	MOTOR	Yes	Yes, but NPRD-4 form filed under wrong component code.	CCA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimated percent of operation. ^d 4. Estimate of out-of-service hours for testing. ^d
████	83-155	CF	VALVE	CFA	VALVE	Yes	Yes	CFA	Yes	1. Manufacturer serial number. 2. Estimated percent of operation. ^d 3. Estimate of out-of-service hours for testing. ^d
████	83-096	RD	CRDRVE	RBC	INSTRU	Yes	Component codes differ.	RBC	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number.
████	83-133	IA	INSTRU	IBD	INSTRU	Yes	System codes differ.	IBD	Yes	--
████	83-138	SD	VALVOP	SDE	VALVOP	Yes	Yes	SDE	Yes	1. Manufacturer serial number.
████	83-003A	WA	VALVE	WAD	VALVOP	Yes	Component codes differ.	WAD	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d

TABLE B-2. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	83-003C	WA	VALVE	WAD	VALVOP	Yes	Component codes differ.	WAD	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
████	83-003D	WA	VALVE	WAD	VALVOP	Yes	Component codes differ.	WAD	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
████	83-003E	WA	VALVE	WAD	VALVOP	Yes	Component codes differ.	WAD	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
████	83-045A	ID	INSTRU	CDH	INSTRU	Yes	System codes differ.	CDH	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
████	83-045B	ID	INSTRU	CDH	INSTRU	Yes	System codes differ.	CDH	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
████	83-014	EE	RELAY	EEB	GENERA	Yes	Component codes differ.	EEB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^d
████	83-012	III	INSTRU	IIIC	INSTRU	Yes	Yes	IIIC	Yes	1. Manufacturer code or standard.

TABLE B-2. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
	83-013	10	RELAY	EEB	RELAY	Yes	System codes differ.	IDK	System codes differ.	1. Manufacturer code or standard.
	83-017	SC	PUMP	SCJ	PUMP	Yes	Yes	SCJ	Yes	1. Manufacturer code or standard.
	83-018	CF	ZZZZZ	CFF	MOTOR	Yes	Yes	CFF		1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^d
	83-017	SF	RELAY	SFA	RELAY	Narrative is sketchy.	Component id differs.	SFA	Yes	1. Internal environment. 2. Manufacturer code or standard. 3. Manufacturer serial number. 4. Estimate of out-of-service hours for testing. ^d
	83-018	SF	MECFUN	SFC	VALVE	Narrative is sketchy.	Yes	SFC	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
	83-020	EE	RELAY	EEA	ENGINE	Very sketchy narrative	Component codes differ.	EEA	Yes	1. Manufacturer code or standard. 2. Component engineering data -- number of cylinders. ^d 3. Estimate of out-of-service hours for testing. ^d
	83-000	IA	INSTRU	IIIF	INSTRU	Narrative is sketchy.	Yes	IIIF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Source drawing or document number. ^d 5. Estimate of out-of-service hours for testing. ^d

TABLE B-2. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
	83-011	MC	INSTRU	MCC	INSTRU	Narrative is sketchy.	Yes	MCC	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
	83-015	SF	INSTRU	CBH	INSTRU	Narrative is sketchy.	System codes differ.	CBH	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
	83-043	IA	INSTRU	HIIF	INSTRU	Yes	System codes differ.	HIIF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^d
	83-008	IA	INSTRU	HIIF	INSTRU	Yes	System codes differ.	HIIF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Source drawing or document number. ^d 5. Estimate of out-of-service hours for testing. ^d

a. Adequacy of the NPRD-4 narrative to describe the event independent of coding.

b. Compatibility of the NPRD-4 narrative with the LER narrative. Where applicable, LER/NPRD-4 coding correlation was also compared (e.g., event date, component code, etc.).

c. Consistency of the NPRD-2 coding with the NPRD-4 coding.

d. Mandatory entry.

TABLE B-3. LER/NPRD-4/NPRD-2 COMPARISON (FIRST QUARTER 1964)

Plant Code	LER				NPRD-4			NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
	84-001	01	PS	CFA	VALVOP	Yes	System and component codes differ. LER only mentions valve problem; mainly reports air bound pressure switch.	CFA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
	83-038	10	INSTRU	IAA	INSTRU	Narrative is sketchy.	System codes differ.	IAA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
	04002	JH	94	SAA	RELAY	Narrative incomplete.	System codes differ.	SAA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
	03-072	1A	INSTRU	100	INSTRU	Yes	NPRD-4 contains more information on cause of failure.	CUG	System codes differ.	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Supplier/vendor reference number. ^d 4. Estimate of out-of-service hours for testing. ^d
	83-075	1A	INSTRU	100	INSTRU	Yes	Yes	100	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Supplier/vendor reference number. ^d 4. Vendor identification number. 5. Estimate of out-of-service hours for testing. ^d

TABLE B-3. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
[REDACTED]	03-004	IA	RELAYX	IDA	RELAY	Narrative is sketchy.	LER contains more information.	IDA	Yes	1. Internal environment. 2. Manufacturer code or standard. 3. Manufacturer serial number.
[REDACTED]	04-001	JC	LLS	IBA	INSTRU	Cause of failure is not complete.	Yes	IPA	Yes	1. Internal environment. 2. Manufacturer code or standard. 3. Component engineering data -- maximum output. ^d 4. Component engineering data -- span of output. ^d 5. Estimate of out-of-service hours for testing. ^d
[REDACTED]	04-005	BM	P	CFA	PUMP	Root cause of failure not identified.	NPRD-4 contains more information about the component failure. System codes differ.	CFA	Yes	1. Estimate of out-of-service hours for testing. ^d
[REDACTED]	04-008A	IG	JS	IBAIAA	INSTRU	Cause of failure not contained in the cause description.	Yes	IBRIA A	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^d 3. Component engineering data -- span of output. ^d
[REDACTED]	04-008B	HO	FU	CFA	INSTRU	Yes	Yes	CFA	Yes	1. Manufacturer serial number. 2. Vendor identification number.
[REDACTED]	04-012	BJ	SHV	SFC	VALVE	Yes	Yes	SFC	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^d

TABLE B-3. (continued)

Plant Code	Report Number	LER		NPRD-4				NPRD-2		
		System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
	84-002	6H	52	SEA	VALVOP	Yes	Component codes differ.	SEA	Yes	
	83-038	SF	INSTRU	SFC	INSTRU	Yes	Yes	SFC	Model number on NPRD-4 does not match NPRD-2.	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data -- principal of operation. ^d
	83-040	EE	CKTBK	EDA	CKTBK	Yes	Yes	EDA	Yes	1. Manufacturer code or standard. 2. Component engineering data -- temperature rating. ^d
	83-102	CJ	VALVEX	PCA	VALVE	Yes	System codes differ.	PCA	Yes	1. Manufacturer serial number. 2. Vendor identification number.
	83-025	RD	CKTBK	RDK	MECFUN	Yes	Component codes differ.	RDK	System codes differ.	1. Manufacturer code or standard. 2. Vendor identification number. 3. Source drawing or document number. ^d 4. Estimate of out-of-service hours for testing. ^d
	83-038	IB	INSTRU	CFF	INSTRU	Yes	System codes differ.	FCE	System codes differ. Model numbers differ.	1. Manufacturer serial number.
	83-039	SD	PIPEXX	SDG	HTEXCH	Yes	Component codes differ.	SCG	System codes differ.	1. Manufacturer serial number. 2. Component engineering data -- tube side velocity. ^d
	83-033	EE	ENGINE	EEB	ENGINE	Yes	Yes	EEB	Yes	1. Manufacturer code or standard. 2. Vendor identification number. 3. Estimate of out-of-service hours for testing. ^d

TABLE B-3. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	84-002	BH	52	SEA	VALVOP	Yes	Component codes differ.	SEA	Yes	
████	83-038	SF	INSTRU	SFC	INSTRU	Yes	Yes	SFC	Model number on NPRD-4 does not match NPRD-2.	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data -- principal of operation. ^d
████	83-040	EE	CKTBRK	EDA	CKTBRK	Yes	Yes	EDA	Yes	1. Manufacturer code or standard. 2. Component engineering data -- temperature rating. ^d
████	83-102	CJ	VALVEX	PCA	VALVE	Yes	System codes differ.	PCA	Yes	1. Manufacturer serial number. 2. Vendor identification number.
████	83-025	RB	CKTBRK	RDK	MECFUN	Yes	Component codes differ.	RDD	System codes differ.	1. Manufacturer code or standard. 2. Vendor identification number. 3. Source drawing or document number. ^d 4. Estimate of out-of-service hours for testing. ^d
████	83-030	IB	INSTRU	CFF	INSTRU	Yes	System codes differ.	FCE	System codes differ. Model numbers differ.	1. Manufacturer serial number.
████	83-039	SD	PIPEXX	SDG	ITEXCH	Yes	Component codes differ.	SCG	System codes differ.	1. Manufacturer serial number. 2. Component engineering data -- tube side velocity. ^d
████	83-033	EE	ENGINE	EEB	ENGINE	Yes	Yes	EEB	Yes	1. Manufacturer code or standard. 2. Vendor identification number. 3. Estimate of out-of-service hours for testing. ^d

TABLE B-3. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
[REDACTED]	83-022	CB	RELAYX	EBA	CKTBRK	Yes	System and component codes differ.	EBA	Yes	1. Manufacturer code or standard. 2. Vendor identification number. 3. Estimated percent of operation. ^d 4. Component engineering data -- temperature rating. ^d
[REDACTED]	83-026	EE	ELECON	EEA	ELECON	Yes	Yes	EEA	Yes	1. Safety class. ^d 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^d
[REDACTED]	83-041	IA	INSTRU	IBD	INSTRU	Yes	Yes	IBD	Yes	1. Manufacturer model number. ^d 2. Manufacturer serial number. 3. Component engineering data -- span of output. ^d
[REDACTED]	83-019	SD	VALVOP	SDC	VALVOP	Cause description incomplete.	Yes	SDC	Yes	1. Manufacturer serial number. 2. Vendor identification number. 3. Component engineering data -- force rating or torque rating. ^d 4. Estimated percent of operation. ^d
[REDACTED]	83-022A	XX	SUPORT	CCA	SUPORT	Yes	Yes	CCA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
[REDACTED]	83-022B	XX	SUPORT	SFA	SUPORT	Yes	Yes	SFA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.

TABLE B-3. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	83-023B	SD	VALVEX	SFC	VALVE	Yes	System codes differ.	SFC	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^d
████	84-001	DU	CNTR	EDB	CKTDRK	Yes	System codes differ.	EDB	Yes	1. Internal environment. 2. Manufacturer serial number. 3. Component engineering data -- temperature rating. ^d
████	84-004	BO	ISV	CFA	VALVE	Yes	Yes	CFA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Supplier/vendor reference number. ^d 4. Component engineering data -- nominal inlet size. ^d 5. Estimated percent of operation. ^d
████	83-022	CC	INSTRU	IBG	INSTRU	Yes	System codes differ.	IBG	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number.
████	83-060	RB	ACCUMU	RDA	CRDRVE	Yes	Component codes differ.	RDA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number.
████	83-027	EE	INSTRU	EEA	INSTRU	Yes	Yes	EEA1-2	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^d

TABLE B-3. (continued)

Plant Code	Report Number	LER		NPRD-4				NPRD-2		
		System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
	83-028	CF	CKTDRK	CFA	CKTDRK	Narrative is incomplete.	LER contains more information.	CFA	NPRD-2 does not appear to be for the current component.	1. Manufacturer code or standard. 2. Manufacturer model number. ^d 3. Manufacturer serial number. 4. Estimate of out-of-service hours for testing. ^d 5. Component engineering data -- temperature rating. ^d
	83-034	SF	ELECON	CDA	ELECON	Cause description is incomplete.	System codes differ.	CDA	Yes	1. Manufacturer serial number.
				CDA	ELECON	Cause description is incomplete.	System codes differ.	CDA	Yes	1. Manufacturer serial number.
				CDA	ELECON	Cause description is incomplete.	System codes differ.	CDA	Yes	1. Manufacturer serial number.
	83-037	CF	VALVEX	CFC	VALVE	Yes	Yes	SFF	System codes differ.	1. Component engineering data -- nominal inlet size. ^d
	83-020	CF	VALVEX	CFC	VALVE	Yes	Yes	SFF	System codes differ	None
	84-004	SG	RV	HBB	VALVE	Yes	Yes	HBB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^d
	83-154	ID	INSTRU	COG	INSTRU	Yes	Yes	COG	Yes	None

TABLE B-3. (continued)

Plant Code	LER			NPRD-1				NPRD-2			
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries	
████	83-019A	ZZ	SUPPORT	IIIC	SUPPORT	Yes	Yes	IIIF	System codes differ.	None	
████	83-019B	ZZ	SUPPORT	CFF	SUPPORT	Yes	Yes	SFH	System codes differ.	None	
████	83-019C	ZZ	SUPPORT	COII	SUPPORT	Yes	Yes	COII	System codes differ.	None	
████	83-019D	ZZ	SUPPORT	CFF	SUPPORT	Yes	Yes	CFF	System codes differ.	None	
████	83-019E	ZZ	SUPPORT	CFF	SUPPORT	Yes	Yes	CFFSIS	System codes differ.	1. Manufacturer code or standard.	
████	84-001	SJ	FCV	IIIF	VALVE	Yes	LER contains more information.	IIIF	Yes	None	
████	84-002A	SJ	FCV	IIIF	VALVE	Yes	Yes	IIIF	Yes	None	
████	84-002B	IG	RI	IDG	INSTRU	Yes	System codes differ.	IDG	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.	
████	84-003B	IG	RI	IDG	INSTRU	Yes	LER contains more information. System codes differ.	IDG	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.	
████	84-003B	IG	RI	IDG	INSTRU	Cause description is sketchy.	LER contains more information. System codes differ.	IDG	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.	
████	83-009	III	INSTRU	IIIC	INSTRU	Yes	NPRD-4 contains more information.	IIIC	Yes	1. Manufacturer code or standard.	

TABLE 8-3. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
	83-021	CF	VALVEX	CFF	VALVE	Yes	Yes	CFF	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^d
	83-051	SE	INSTRU	SEDREC	CKTBRK	Yes	LER contains more information.	SEDREC	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
	84-001	EF	CAP	EBK	GENERA	Yes	LER contains more information.	EBK	Yes	1. Vendor identification number.
	84-003	BI	PSX	SBG	MOTOR	Narrative is sketchy.	LER contains more information.	SBG	Yes	1. Manufacturer serial number. 2. Vendor identification number. 3. Estimate of out-of-service hours for testing. ^d
	84-003	JK	63	IIIF	INSTRU	Cause description is sketchy.	Yes	IIIF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Component engineering data -- span of output. ^d

a. Adequacy of the NPRD-4 narrative to describe the event independent of coding.

b. Compatibility of the NPRD-4 narrative with the LER narrative. Where applicable, LER/NPRD-4 coding correlation was also compared (e.g., event date, component code, etc.).

c. Consistency of the NPRD-2 coding with the NPRD-4 coding.

d. Mandatory entry.

TABLE B-4. LER/NPRD-4/NPRD-2 COMPARISON (SECOND QUARTER 1984)

Plant Code	LER			NPRD-4		Acceptable Narrative ^a	LER Compatibility ^b	NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code			System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	03-056	ZZ	SUPORT	CBG	SUPORT	Narrative is sketchy. No mention of composition of reservoir.	LER contains more information on damaged reservoir and replacement reservoir. System codes differ.	CBG	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
████	04-004A	CB	P	PCF	PUMP	Narrative is lacking in information regarding the failure description and mode of failure.	LER provides a more complete description of the problem.	PCF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Supplier/vendor reference number. ^e 4. Component engineering data--total developed head at rated capacity. ^e
████	04-004B	CB	P	PCF	PUMP	Narrative description could contain more information	LER provides a more complete description of the problem.	PCF	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Supplier/vendor reference number. ^e 4. Component engineering data--total developed head at rated capacity. ^e
████	04-004	DN	SC	CEA	INSTRU	Yes	Yes	-----	-----	No NPRD-2 Located -----
████	04-011	DI	V	WAB	VALVE	Yes	LER contains more information.	WAB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Source drawing or document number. ^e 5. Estimate of out-of-service hours for testing. ^e

TABLE D-4. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	84-012	SD	IIS	CCA	CKTDRK	Yes	Yes	CCA	Yes	1. Manufacturer serial number. 2. Component engineering data--current rating. ^e
████	84-003A	--	--	SDA	RELAY	Yes	LER contains more information.	SDA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Supplier/vendor reference number. ^e 4. Component engineering data--operating current (coil). ^e 5. Estimate of out-of-service hours for testing. ^e
████	84-003D	--	--	IIIB	VALVOP	Yes	Yes	IIIB	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Component engineering data--force rating. ^e
████	84-004	DA	SIIV	IIIC	VALVE	Yes	LER contains more information.	IIIC	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number. 4. Estimate of out-of-service hours for testing. ^e
████	83-023	EE	GENERA	EEB	MECFUN	Corrective action is incomplete.	Component codes differ. System codes differ.	EEB	Yes	1. Manufacturer code or standard. 2. Estimate of out-of-service hours for testing. ^e

TABLE B-4. (continued)

Plant Code	LER			NPRD-1				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	04-001	JM	ISV	SDD	VALVE	Yes	Yes	SDD	Yes	1. Manufacturer serial number. 2. Estimated percent of operation. ^e 3. Estimate of out-of-service hours for testing. ^e
████	04-002A	SB	ISV	HDC	VALVE	Yes	Yes	HDC	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e
████	04-002B	SB	ISV	HDC	VALVE	Yes	Yes	HDC	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e
████	04-001	SD	RV	HDC	VALVE	Yes	Yes	HDC	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
████	03-067	SF	INSTRU	CEA	INSTRU	Yes	LER has more information. System codes differ.	CEA	Yes	1. Manufacturer code or standard. 2. Vendor identification number.
████	04-012A	BN	TE	CEA	INSTRU	Yes	Yes	CEA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
████	04-012B	BJ	SHV	SFC	VALVE	Yes	Yes	SFC	Yes	1. Vendor identification number. 2. Estimate of out-of-service hours for testing. ^e
████	04-001	SL	P	HHF	TURBIN	Yes	Component codes differ.	-----	-----	No NPRD-2 Located -----

TABLE B-4. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	84-003	JD	RJX	IDK	INSTRU	Cause of failure is incomplete.	Yes	IDK	Yes	1. Manufacturer serial number.
████	84-001	BA	FCV	IIIC	VALVOP	Narrative is sketchy.	LER contains more information.	IIIC	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data--force rating. ^e
████	84-009	JM	RLY	SAA	RELAY	Yes	System codes differ.	SAA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data--operating current (coil). ^e 4. Estimate of out-of-service hours for testing. ^e
████	84-001	SD	PCV	CCA	VALVOP	Yes	Yes	CCA	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Component engineering data--force rating. ^e 4. Component engineering data--torque rating. ^e 5. Estimate of out-of-service hours for testing. ^e
████	84-005	SD	PCV	CCA	VALVE	Yes	Yes	CCA	Yes	1. Manufacturer serial number. 2. Estimate of out-of-service hours for testing. ^e
████	84-004	SJ	PDCV	IIIE	VALVE	Narrative is very sketchy.	LER contains more information. System codes differ.	IIIE	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number.

TABLE B-4. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	84-012	BQ	FCV	SFK	VALVE	Yes	Yes	-----	-----	No NPRD-2 Located -----
████	84-001A	AB	ISV	CBII	VALVE	Yes	Yes	CBII	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^e
████	84-001A	AB	ISV	CBII	VALVE	Yes	Yes	CBII	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Estimate of out-of-service hours for testing. ^e
████	84-004B	--	--	IIIIJ	MECFUN	Yes	Yes	IIIIJ	Yes	1. Manufacturer code or standard. 2. Vendor identification number. 3. Estimated percent of operation. ^e 4. Estimate of out-of-service hours for testing. ^e
████	84-010A	SJ	IIX	IIIF	HTEXCH	Yes	Yes	IIIE	Yes	1. Estimate of out-of-service hours for testing. ^e
████	84-010B	IG	RI	IDG	INSTRU	Cause of failure is sketchy.	System codes differ.	IDG	Yes	1. Manufacturer code or standard. 2. Manufacturer serial number. 3. Vendor identification number.
████	84-010C	SJ	IIX	IIIF	HTEXCH	Yes	Yes	IIIE	Yes	1. Estimate of out-of-service hours for testing. ^e
████	84-004A	BA	SC	IIIC	MECFUN	Cause is incomplete.	Yes	IIIC	Yes	1. Manufacturer code or standard. 2. Estimated percent of operation. ^e
████	84-004B	BA	SC	IIIC	MECFUN	Cause is incomplete.	Yes	IIIC	Yes	1. Manufacturer code or standard. 2. Estimated percent of operation. ^e

TABLE B-4. (continued)

Plant Code	LER			NPRD-4				NPRD-2		
	Report Number	System Code	Component Code	System Code	Component Code	Acceptable Narrative ^a	LER Compatibility ^b	System Code	NPRD-4 Consistent ^c	Deficient or Ambiguous Entries
████	84-001	EA	J	IIIF	RELAY	Yes	System codes differ.	EDF	System codes differ.	1. Manufacturer code or standard. 2. Manufacturer serial number.
████	84-002A	SB	PDT	IDG	INSTRU	Cause description is incomplete.	System codes differ.	-----	-----	No NPRD-2 Located -----
████	84-002B	SB	PDT	IDG	INSTRU	Yes	System codes differ.	-----	-----	No NPRD-2 Located -----
████	84-019	AB	RV	CDII	VALVE	Yes	Yes	CDII	Yes	1. Estimate of out-of-service hours for testing. ^e

TABLE C-1. NPRD-4 SAMPLE EVALUATION (FIRST QUARTER 1983)

Plant Code	System Code	Component Code	Component Identification	Narrative	Coding	Narrative Rank ^a
[REDACTED]	CFC	CKTBRK	152-305	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	EDD	BATTERY	2D12	The cause description does not describe relationship of room temperature and electrolyte level. This could be a recurring problem.	Out of limits would be a more appropriate mode of failure.	2
[REDACTED]	RBA	CRDRVE	C12-CRD3039	The narratives are incomplete; cause is unknown; corrective action is missing.	The cause of failure coded is not discussed in the narratives.	3
[REDACTED]	SEA	FILTER	SDGT-2A-RB	The narratives describe failure of electrical cable connector not a filter.	The cause and mode of failure coded are not discussed in the narratives.	2
[REDACTED]	SAA	RELAY	16A-K62DR	The narratives are sketchy.	The coding reflects the narrative descriptions.	2
[REDACTED]	WAA	VALVE	FCV67-50	The narratives are very sketchy.	The coding gives much additional information.	3
[REDACTED]	EEA	BLOWER	DGEACOMPA	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	COH	INSTRU	NM-RC432H	The narratives are very sketchy.	The coding does not correspond to narratives. Additionally, the coding indicates damage to other equipment as an effect.	3
[REDACTED]	ECE	BATTERY	No. 12	The narratives are complete; however, the cause is unknown.	The cause coded is not addressed in the narratives.	3
[REDACTED]	EOC	CKTBRK	152-2106	The narratives describe the event rather than the circuit breaker failure.	The mode and cause of failure coded are not discussed in the narratives.	2
[REDACTED]	SGA	FILTER	AIHFL-4B	The narratives provide a good description of the failure.	The mode of failure is not appropriate.	1
[REDACTED]	IIDB	TURBIN	KC03-01	The narratives are sketchy and no cause is stated.	The coding reflects the narrative descriptions.	3
[REDACTED]	IIOC	SUPPORT	SNUDDER-7	The cause description is incomplete; however, some useful information is provided.	The cause of failure coded is not discussed in the cause description.	2
[REDACTED]	ENK	GENERA	INVERTER	The narratives provide a good description of the failure.	The coding reasonably corresponds to the narratives.	1

TABLE C-1. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative	Coding	Narrative Rank ^a
█	CCA	VALVE	203-1C	The narratives are reasonably complete.	The cause code is not appropriate.	2
█	SFA	VALVOP	3-1501-3B	The narratives describe failure of valve position modulator connector not a valve operator. However, the narratives are reasonably complete.	The cause of failure code is not discussed in the narratives.	2
█	IDA	RELAY	C71-K751B	The narratives provide a reasonable description of the failure.	The coding corresponds to the narratives.	2
█	CDA	VALVE	B21-F013M	The narratives provide a good description of the failure.	The coding corresponds to the narratives.	1
█	IBD	INSTRU	A/PC-742-1	The narratives are complete; however, the cause is unknown.	The coding reflects the narrative descriptions.	1
█	SDD	BLOWER	HVH-3	The narratives describe a heat exchanger leak. No cause given other than defective.	The cause of failure code is not discussed in the narratives.	3
█	RDD	CONROD	ROD-1-14*600101	The narratives provide a good description of the failure.	The coding reasonably corresponds to the narratives.	1
█	PCG	ACCUMU	22BAST	The narratives are complete; however, the cause is unknown.	The cause of failure code is not discussed in the narratives.	3
█	CBH	HTEXCH	SG-33	The cause narratives repeat the failure description.	The type of failure is wrong or incomplete.	2
█	CEA	TURBIN	13-TU-2	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
█	HDC	INSTRU	N1C22FY0495A	The narratives describe a potential generic problem.	The cause of failure and corrective action codes do not correspond to the narratives.	1
█	EEB	CKTBRK	SQ-B2F-PB10	The cause description is incomplete.	The corrective action: replace part not component.	2
█	COH	INSTRU	24032	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
█	WIE	MOTOR	MCMW0020	The narratives provide a good description of the failure.	The coding reasonably corresponds to the narratives.	1
█	EDA	CKTBRK	S2-304	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1

TABLE C-1. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative	Coding	Narrative Rank ^a
[REDACTED]	IAA	BATTRY	NMS.BAT.1A	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	SFG	VALVOP	SI-636	The narratives are complete, however, the cause is unknown.	The coding reflects the narrative descriptions.	1
[REDACTED]	HBG	PIPE	14"-WFPD-4	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	SAC	PENETR	1-RCL-1	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	EEB	ENGINE	2-EE-EG-2J	The cause narratives are inappropriate.	The coding reflects the narrative descriptions.	3
[REDACTED]	IIIA	ITEXCH	IIIP-HTR1A2	The narratives should supply more information.	The cause of failure does not correspond to the cause description. Additionally, the other equipment damaged is not discussed in the narratives.	2
[REDACTED]	WDD	MOTOR	2CC-P2A	The narratives are incomplete.	The mode and cause of failure do not correspond to the narratives.	3
[REDACTED]	CDD	PUMP	3RC-P302	The cause description is incomplete. However, some useful information is provided.	The mode of failure is not appropriate. Power reduction is not addressed in the narratives as an effect.	2
[REDACTED]	IDAIAA	ANNUNC	RNO6	The narratives are sketchy.	The coding does not correspond with the narratives.	3
[REDACTED]	IIIF	SUPORT	1-IIS-11	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	CFF	PUMP	2-P-100*720930	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	EEA	ENGINE	OAG12-E1	The cause narratives are not precise.	The coding is accurate.	1
[REDACTED]	EBB	CKTBRK	30A15-1503	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	PCG	HEATER	ET-1-IN	The narratives are incomplete, the corrective action is missing.	The cause of failure differs from narratives.	2
[REDACTED]	IDG	INSTRU	2TM-403V	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1

TABLE C-1. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative	Coding	Narrative Rank ^a
[REDACTED]	EEA	ENGINE	X-107A	The narratives address the failure in a good manner.	Coding: abnormal wear; Description: normal wear. The coding focuses on the belt rather than the engine.	2
[REDACTED]	HDC	INSTRU	FT-464*700701	The narratives provide a good description of the failure.	The mode of failure is inappropriate.	1
[REDACTED]	SCB	VALVE	SFV-53504	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	CEA	VALVE	FV-15013	The narratives provide a good description of the failure.	The mode of failure is inappropriate.	1
[REDACTED]	IIIJ	MECFUN	AFWP-1C	The narratives provide a good description; however, the cause is unknown.	The mode and cause of failure coded are not discussed in the cause description.	2
[REDACTED]	IIIC	CKTBRK	BAIIS0004622	The narratives provide a good description of the failure.	The coding should be more specific.	1
[REDACTED]	SFKUII	INSTRU	BQLS0014710	The narratives provide a good description of the failure.	The mode and cause were both coded as "drift".	1
[REDACTED]	IIIF	CKTBRK	42-1307	The narratives provide a good description of the failure; however, the failure description should state the controlled valves designation and function.	The coding reflects the narrative descriptions.	1
[REDACTED]	SFK	PUMP	1-CII-P-20	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	SFK	HEATER	PD-C13B	The narratives provide a good description of the failure.	The mode of failure is inappropriate.	1
[REDACTED]	SDA	VALVE	LRV0049	The cause description is incomplete; however, some useful information is provided.	The coding reasonably corresponds with the narratives.	2
[REDACTED]	HDC	VALVE	20-EDOCK-3	The narratives provide a good description of the failure.	The coding reflects the narrative descriptions.	1
[REDACTED]	IIIF	VALVOP	FCV-3-478	The narratives describe an electrical junction box failure not a valve operator failure. However, the narratives provide a good description of the failure.	The coding corresponds to the narratives.	2

TABLE C-1. (continued)

<u>Plant Code</u>	<u>System Code</u>	<u>Component Code</u>	<u>Component Identification</u>	<u>Narrative</u>	<u>Coding</u>	<u>Narrative Rank^a</u>
████	EEA	GENERA	DG-1-1A	The narratives are sketchy. This would be more appropriately filed under ENGINE.	The additional information is provided by the coding.	2
████	SCE	ENGINE	1CS003	No information to associate the narratives with the component. The narratives are incomplete.	The coding corresponds to the narratives.	3
████	EED	ENGINE	2DG002	The narratives describe the compressor failure not the engine failure. The cause description is incomplete.	The cause of failure coded is not discussed in the cause description.	2

a. The narrative rank classifies the form as follows: 1 - adequate, 2 - probably adequate, and 3 - inadequate.

TABLE C-2. NPROD-4 SAMPLE EVALUATION (FOURTH QUARTER 1983)

Plant Code	System Code	Component Code	Component Identification	Narrative	Narrative Rank ^a
	PCE	CKDRK	52-S115	The narratives provide a good description of the failure.	1
	EDD	GENRA	2K-4B	The narratives provide a good description of the failure.	1
	AAA	CKDRK	T41-1XK-ER7	The narratives provide a good description of the failure.	1
	RDA	ACCUMU	C12-1ICU3003	The narratives provide a good description of the failure; however, this should have been filed under INSTRU.	2
	RDA	ACCUMU	1ICU-3B-39	The narratives provide a good description of the failure; however, this should have been filed under INSTRU.	2
	RDA	FILTER	D.W.FILTERA	The narratives are sketchy.	2
	RDA	CRORVE	CRD-54-47	The narratives provide a good description of the failure; however, this should have been filed under VALVE.	2
	EBD	CKDRK	MOV-CH310	The narratives provide a good description of the failure.	1
	ECE	BATTRY	HO-12	The narratives provide a good description of the failure.	1
	EDC	CKDRK	152-2106	The narratives provide a good description of the failure.	1
	SFC	INSTRU	00597	The narratives provide a good description of the failure.	1
	IBC	RELAY	ES-CII-3A-AS	The narratives provide a short but adequate failure description.	1
	IIIB	PUMP	PO14-01	The narratives provide a good description of the failure.	1
	NAD	RELAY	62B0STD3	The narratives provide a good description of the failure.	1
	COII	HTEXCH	SG1	The narratives provide a good description of the failure.	1
	ECB	BATTRY	24-4BA-	The narratives provide a good description of the failure.	1
	SFA	VALVOP	3-1501-3B	The narratives provide a good description of the failure.	1
	SEA	FILTER	T46-0001B	The narratives provide a good description of the failure.	1
	EEA	ENGINE	R43-S001C	The cause of failure is incomplete, otherwise the narratives provide a good description of the failure.	2
	ECE	BATTRY	EE-8C	The narratives provide a good description of the failure.	1
	EEA	ENGINE	Q1P75E001B	The narratives provide a good description of the failure.	1

TABLE C-2. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative	Narrative Rank ^a
	EEB	ENGINE	DIESELB	The narratives are sketchy.	2
	EEB	BLOWER	C-14-1A	The narratives provide a good description of the failure.	1
	CBH	VALVE	PCV-455A	The narratives provide a good description of the failure.	1
	SEA	HEATER	1125-E-5B	The narratives provide a good description of the failure.	1
	SDB	VALVE	Q1P1711V3095	The narratives provide a good description of the failure.	1
	IDK	INSTRU	N2H11PY0485B	The narratives provide a good description of the failure.	1
	EDF	CKTBRK	16105	The narratives are sketchy.	2
	PCG	MOTOR	MNVMR0016	The narratives are sketchy.	2
	RDA	CRDRVE	HCU.14.07	The narratives are very sketchy.	3
	EDH	GENERA	INV-4	The narratives provide a good description of the failure.	1
	HOG	SUPORT	WFPD-11SS209	The narratives provide a good description of the failure.	1
	SAC	PENETR	P.11ATCH	The narratives provide a good description of the failure.	1
	CFF	PUMP	2-R11-P-1A	The narratives provide a good description of the failure.	1
	111A	11TEX11	111P-11TR1A2	The narratives are sketchy.	2
	SFF	VALVOP	2LP-17	The narratives are sketchy.	2
	ECD	BATTRY	3PACH	The narratives are very sketchy.	3
	1BA	ANNUNC	RNO6	The narratives are sketchy.	2
	SFG	INSTRU	L1A-0360	The narratives provide a good description of the failure.	1
	EEA	ENGINE	QAG12-E1	The cause of failure is incomplete, otherwise the narratives provide a good description of the failure.	2
	SFC	MOTOR	30K02	The narratives are very sketchy.	3
	1A0	INSTRU	1NQ-303A	The narratives are sketchy.	2
	S00	VALVE	CV31316	The narratives provide a good description of the failure.	1

TABLE C-2. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative	Narrative Rank ^a
	EEA	ENGINE	X-107B	The narratives provide a good description of the failure.	1
	HBC	SUPPORT	MS-160	The narratives provide a good description of the failure.	1
	CFC	INSTRU	FT2600A	The narratives provide a good description of the failure.	1
	CFA	VALVE	HV-151F031A	The narratives provide a good description of the failure.	1
	HHJ	CKTBRK	BRK-60308	The narratives provide a good description of the failure; however, no root cause is given.	2
	EED	HEATER	2A-12-CYL-NORTH	The narratives provide a good description of the failure.	1
	HHC	VALVE	DAPCY006955	The narratives provide a good description of the failure.	1
	SFK	INSTRU	BQFT0012741	The narratives provide a good description of the failure.	1
	EED	ENGINE	D/G2	The narratives provide a good description of the failure.	1
	WDC	CKTBRK	S21005ESUJ	The narratives provide a good description of the failure.	1
	EED	ENGINE	EDG3	The narratives provide a good description of the failure.	1
	SFK	CKTBRK	2111-214	The narratives provide a good description of the failure.	1
	EED	TRANSF	ECC0001A	The narratives provide a good description of the failure.	1
	EED	ENGINE	K-10601	The narratives provide a good description of the failure.	1
	SAC	PENETR	PEN-NO.41	The narratives provide a good description of the failure.	1
	EDF	CKTBRK	BRK--4A002	The narratives provide a good description of the failure.	1
	CFA	HTEXCH	E-14-1A	The narratives provide a good description of the failure.	1
	RDD	CONROD	D-00	The narratives provide a good description of the failure.	1
	SED	RECOMB	2A-112-PURGE-FAN	The narratives are sketchy.	2

TABLE C-3. NPRO-4 SAMPLE EVALUATION (FIRST QUARTER 1904)

Plant Code	System Code	Component Code	Component Identification	Narrative	Narrative Rank ^a
	PCC	INSTRU	LT-1616	The narratives are complete; however, the cause is ambiguous.	2
	PCF	PUMP	2P-36B	The narratives provide a good description of the failure.	1
	RUA	ACCUMU	C12-ICU3447	The narratives provide a good description of the failure.	1
	PCA	HEATER	HEAT-TRACE	The narratives are sketchy.	2
	WAA	VALVE	CV67-660	The narratives provide a good description of the failure.	1
	SFC	PIPE	RUPT-DIAPHIC	The narratives are sketchy.	2
	SMA	RELAY	16A-K37R	The cause description is incomplete; however, some useful information is provided.	2
	EDC	RELAY	27-VF100	The narratives are sketchy.	2
	AAC	BLOWER	1-PREXF-12	The narratives provide a good description of the failure.	1
	PCF	VALVE	2-RV-324	The information provided by the narrative is useful; however, additional details of the cause and failure are needed.	2
	IIIB	SUPORT	EFH-107	The narratives provide a reasonable description of the failure; however, the cause of the failure is incomplete.	2
	EEA	BLOWER	00023	The narratives provide a good description of the failure.	1
	CFA	PUMP	IP-070	The narratives provide a good description of the failure; however, the cause of the failure is incomplete.	2
	SCB	BLOWER	C030-02	The narratives are complete; however, cause is unknown.	2
	EEB	GENERA	AUGEXCITER	The narratives provide a good description of the failure.	1
	SFK	HEATER	CKT235TA	The narratives provide a reasonable description of the failure; however, the cause of the failure is unknown.	2
	SFA	VALVOP	2-1501-3A	The narratives provide a good description of the failure.	1
	EDA	CKTDRK	3427	The narratives provide a good description of the failure.	1
	EEA	BLOWER	R43-C001C	The narratives provide a good description of the failure.	1
	IOD	INSTRU	LC-101X	The narratives provide a good description of the failure.	1
	EDD	BATTERY	N-9243	The narratives provide a good description of the failure.	1

TABLE C-3. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative	Narrative Rank ^a
	EEA	ENGINE	Q1P75E001A	The narratives describe failure of pumps bleed off plugs nut engine; however, the narrative is reasonably complete.	2
	RBD	GENERA	MGSETA	The narratives are complete; however, the cause is unknown.	2
	RDX	MECFUN	11-SLV.CYCL	The narratives provide a good description of the failure; however, the cause of the failure is incomplete.	1
	AAD	FILTER	CCRFFILTERCHARCOAL	The narratives are reasonably complete; however, no corrective action given.	2
	WDD	CKTBRK	CCDM-32-DREAKER	The narratives provide a reasonable description of the failure; however, the cause of the failure is unknown.	2
	RBA	ACCUMU	HU4207TK125	The narratives are sketchy.	2
	ECC	BATTERY	QSR42B509D	The narratives provide a good description of the failure.	1
	CBII	CKTORK	2-LA11	The narratives provide a good description of the failure.	1
	EDF	CKTDRK	16210	The narratives are very sketchy.	3
	RDA	CONROD	26-35	The narratives provide a good description of the failure.	1
	CDII	VESSEL	MNCP20010	The narratives are sketchy; however, more detailed information is required to clarify failure.	2
	WVA	VALVE	RHRSW-1-2	The narratives provide a good description of the failure.	1
	RBA	CROOVE	HICV.22.15	The narratives provide a good description of the failure.	1
	SAU	PENETR	P-17	The narratives provide a good description of the failure.	1
	RDC	CKTDRK	TC06	The narratives provide a good description of the failure.	1
	CBII	HTEXCH	1-RC-E-1C	The narratives provide a good description of the failure.	1
	CFF	HTEXCH	2-QS-MR-1A	The narratives provide a reasonable description of the failure; however, the cause of the failure is unknown.	2
	IIIII	PUMP	1CB-P1C	The narratives provide a good description of the failure.	1
	SAB	PENETR	RDPERITCH	The narratives provide a good description of the failure.	1
	EEA	ENGINE	102	The narratives are very sketchy.	3
	CFA	HTEXCH	HU01A	The narratives are sketchy.	2

TABLE C-3. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative	Narrative Rank ^a
	WDD	ITEXCII	1-11X-12B	The narratives provide a good description of the failure.	1
	CFF	PUMP	2-P-10A	The narratives provide a good description of the failure.	1
	EBB	CKTRK	2-52-3923	The narratives provide a good description of the failure.	1
	SFC	PIPE	PS03-23-6	The narratives provide a good description of the failure.	1
	IAD	INSTRU	1N4-31A	The narratives provide a good description of the failure.	1
	IBG	RELAY	2PRB-1XA	Cause description is incomplete; however, some useful information is provided.	2
	RDA	CRDRVE	HCU22-51	The narratives provide a good description of the failure.	1
	CDA	ELECON	1-12560	The narratives provide a good description of the failure.	1
	CCA	VALVOP	2-203-2A	The narratives provide a good description of the failure.	1
	CBD	ITEXCII	E-205A	The narratives are sketchy.	2
	SFC	TURBIN	1S-211-C002	The narratives provide a good description of the failure.	1
	PCF	PUMP	CHG.-10	The narratives provide a good description of the failure.	1
	SAD	PENETR	PERSONNEL/INATCH	The narratives provide a good description of the failure.	1
	IIIA	MOTOR	WIM00006356	The narratives provide a good description of the failure.	1
	IIIC	VALVE	BALCV014434	The narratives provide a good description of the failure.	1
	IAD	GENERA	PS203-A	The narratives provide a good description of the failure.	1
	IDB	ELECON	2BRCP1401	The narratives provide a good description of the failure.	1
	SFK	HEATER	P2A1	The narratives provide a good description of the failure.	1
	IUG	INSTRU	N-31	The narratives provide a good description of the failure; however, the cause needs clarification.	2
	EDA	CKTRK	152-103	The narratives provide a good description of the failure.	1
	CBD	ACCUMU	RCT0002	The narratives provide a good description of the failure.	1
	EED	ITEXCII	ED-RAUTOR-A	The narratives provide a good description of the failure.	1

TABLE C-3. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative	Narrative Rank
[REDACTED]	EEB	CKTBRK	DRK.-4AA20	The narratives provide a good description of the failure.	1
	CFA	GENERA	UPS-1A	The narratives are sketchy.	2
	EEB	ENGINE	1DG001	The narratives provide a good description of the failure.	1
	IIIF	INSTRU	2LT-FW549	The narratives require more information on cause of failure and corrective action, otherwise, narratives are complete.	2

TABLE C-4. NPRD-4 SAMPLE EVALUATION (SECOND QUARTER 1984)

Plant Code	System Code	Component Code	Component Identification	Narrative Evaluation	Narrative Rank
	IBB	INSTRU	RPSC	The narratives are very sketchy.	3
	CBO	SUPPORT	28CA-14-1110	The narratives are sketchy.	2
	RDA	CRDRVE	C11-HCU2627	The narratives provide a good description of the failure.	1
	PCA	ACCUM	C41-A003B	The narratives are complete, however the cause is ambiguous.	2
	SFC	VALVE	FCV-73-45	The narratives provide a good description of the failure.	1
	ECA	BATTERY	EKDYCO01913	The narratives provide a good description of the failure.	1
	PCG	VALVOP	MOV-C11260	The narratives are sketchy.	2
	PCF	PUMP	1-CHGP-12	The narratives are sketchy.	2
	PCF	PIPE	2" CC7-2001-2	The narratives provide a good description of the failure.	1
	SCADIL	BLOWER	02961	The narratives are sketchy.	2
	EEG	GENERA	EGDG-1B	The narratives provide a good description of the failure.	1
	CEA	RELAY	E-15A-K32	The narratives give a good description of the failure.	1
	IBC	RELAY	2K21B	The narratives are complete, however the cause is ambiguous.	2
	IDG	ELECON	NUCABLEN32	The narratives give a good description of the failure.	1
	ECC	BATTERY	AD2CHARGER	The cause description is incomplete; however, some useful information is provided.	2
	EDA	CKTBRK	1501-19A	The cause description is incomplete; however, some useful information is provided.	2
	CBA	VALVE	3-203-3C	The narratives are sketchy.	2
	CDA	MECFUN	B31-S001A	The narratives are sketchy.	2
	CBA	VALVE	B21-F013C	The narratives are sketchy.	2
	SFG	CKTDRK	MCG-301-H04	The narratives give a good description of the failure.	1

TABLE C-4. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative Evaluation	Narrative Rank
	EDD	ELECON	N-9239	The narratives give a good description of the failure.	1
	CEA	TURBIN	Q1E51C002	The narratives give a good description of the failure.	1
	PCG	VALOP	LCV-115B	The narratives provide a reasonable description of the failure; however, the cause of the failure is incomplete.	2
	HIIF	VALVOP	FW-1301-1F	The narratives give a good description of the failure.	1
	EEB	ENGINE	DE-23	The narratives give a good description of the failure.	1
	SAC	PENETR	AIRLOCK-95	The narratives give a good description of the failure.	1
	RBA	CRDRVE	10CRDU06-43	The narrative provide a reasonable description of the failure; however, the cause of the failure is incomplete.	2
	SAC	PENETR	Q1T53D001	The narratives are sketchy.	2
	IIIC	VALVOP	Q2N12MOV3406	The narratives give a good description of the failure.	1
	PCG	HEATER	40B*740616	The narratives are very sketchy.	3
	CBA	INSTRU	1B33-K640B	The narratives are very sketchy.	3
	CFA	INSTRU	2E12-N010B	The narratives are sketchy.	2
	ECC	ENGINE	EQADE0001	The narratives give a good description of the failure.	1
	SBF	BLOWER	MNFAH0063	The narratives are sketchy.	2
	EEA	MECFUN	SDG. GOV	The narratives give a good description of the failure.	1
	WAC	FILTER	L-1C	The narratives give a good description of the failure.	1
	WDC	PUMP	P-9B	The narratives give a good description of the failure.	1
	PCG	HEATER	ET-21	The narratives give a good description of the failure.	1

TABLE C-4. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative Evaluation	Narrative Rank
	IIIII	PUMP	1CB-PID	The narratives give a good description of the failure.	1
	WDB	PUMP	2CG-P2A	The narratives give a reasonable description of the failure; however, the cause of the failure is incomplete.	2
	ECD	BATTERY	3CB	The narratives give a reasonable description of the failure; however, the cause of the failure is incomplete.	2
	CFB	PIPE	NE-2-12/12A	The narratives give a good description of the failure.	1
	IIIE	HTEXCH	1-IX-17A	The narratives give a good description of the failure.	1
	EDC	GENERA	2-DY01	The narratives give a good description of the failure.	1
	CFA	HTEXCH	2-BE-24	The narratives give a good description of the failure.	1
	RDA	CRDRVE	3-26-31	The narratives give a good description of the failure.	1
	PCG	PIPE	2-VC-73D*731216	The narratives give a good description of the failure; however, the cause of the failure is unknown.	1
	SDB	MOTOR	2R-11/12	The narratives are sketchy.	2
	SFA	VALVE	1401-28B	The narratives are sketchy.	2
	HAA	VALVE	1-3999-515A	The narratives give a good description of the failure.	1
	WDA	PUMP	2D-3701	The narratives are sketchy.	2
	EBE	CKTDRK	2B-161	The narratives are sketchy.	2
	CCA	INSTRU	LIS-IN025D	The narratives are sketchy.	2
	RDK	CKTDRK	1ARXIR1PBYP	The narratives are very sketchy.	3
	CFF	VALVE	22SJ056	The narratives are very sketchy.	3
	SAD	PENETR	PERSONNEL/HATCH	The narratives give a good description of the failure.	1

TABLE C-4. (continued)

Plant Code	System Code	Component Code	Component Identification	Narrative Evaluation	Narrative Rank
	PCF	ACCUMU	CHC-2B-SUCT	The narratives give a good description of the failure; however, the cause is unknown.	1
	SBF	BLOWER	BCCMP000262	The narratives are sketchy.	2
	DCG	FILTER	CBFLT012010	The narratives are sketchy.	2
	EED	CKTRK	42-1305*600101	The narratives are sketchy.	2
	EBI	TRANSF	S21002ETXM	The narratives are sketchy.	2
	PCF	VALVE	3PSV9206	The narratives are sketchy.	2
	SFK	HEATER	P2B1	The narratives are sketchy.	2
	WAD	MOTOR	2-SW-P-108	The narratives are sketchy.	2
	CFC	SUPORT	DIIH0197	The narratives give a good description of the failure; however, the cause is unknown.	1
	IIBC	INSTRU	PT-0525	The narratives give a good description of the failure.	1
	WOD	HTXCII	GCH-IIX-3A	The narratives give a good description of the failure.	1
	IIHF	RELAY	125-4COT*030407	The narratives give a good description of the failure.	1
	SOD	SUPORT	HK-DDII-0032*021022	The narratives are sketchy.	2
	CFA	VALVOP	MOV10-31D	The narratives are very sketchy.	3
	CDH	MOTOR	IRC310	The narratives are sketchy.	2
	SEDPREC	RECOMB	U2-II2-RECOMD	The narratives are sketchy.	2

TABLE D-1. SUMMARY OF PHASE H LERS (Phase H Tape--October 31, 1983)

Plant	Number of LERs	Faults ^a	Scope Required NPRD-4s		Number of NPRD-4s		Matches		Latest LER Event Date	Latest NPRD-4 Event Date
			Revision 8	RSCSM ^b	Reportedly Submitted ^c	Total 1983 Located	Total	Revision 8		
ANO2--Arkansas 2	3	3	3	3	2				08/31/83	
BEP1--Brunswick 1	3	6	6	6	6				09/19/83	
BRF2--Browns Ferry 2	3	4	4	4	--				08/01/83	
BRF3--Browns Ferry 3	3	5	5	5	3				09/19/83	
BVS1--Beaver Valley 1	2	2	1	--	--				09/18/83	
CCN2--Calvert Cliffs 2	4	6	2	3	1				08/11/83	
CRP3--Crystal River 3	2	2	1	2	--				09/07/83	
DAC1--Duane Arnold 1	3	3	3	3	--				09/06/83	
DBS1--Davis-Besse 1	4	6	6	5	6				09/09/83	
DCC1--D. C. Cook 1	4	9	9	8	9				09/12/83	
DRS2--Dresden 2	3	4	4	4	2				08/19/83	
EIII2--Edwin I. Hatch 2	4	4	3	4	--				08/31/83	
FCS1--Fort Calhoun 1	3	3	3	3	2				09/21/83	
JMF2--J. M. Farley 2	3	5	5	5	5				09/17/83	
KNP1--Kewaunee 1	3	3	--	2	3				09/16/83	
MNP1--Monticello 1	2	2	2	2	2				09/20/83	
MNS1--Millstone 1	3	4	4	4	3				08/29/83	
NAS2--North Anna 2	4	4	2	3	4				09/13/83	
NEE2--Oconee 2	1	1	1	1	1				08/22/83	
NEE3--Oconee 3	2	2	1	2	2				07/27/83	

TABLE D-1. (continued)

Plant	Number of LERs	Faults ^a	Scope Required NPRD-4s		Number of NPRD-4s		Matches		Latest LER Event Date	Latest NPRD-4 Event Date
			Revision B	RSCSM ^b	Reportedly Submitted ^c	Total 1983 Located	Total	Revision B		
NMP1--Nine Mile Point 1	3	4	4	4	3				07/20/83	
OCP1--Oyster Creek 1	2	2	1	2	--				09/16/83	
PBH1--Point Beach 1	2	2	2	2	--				08/30/83	
PBH2--Point Beach 2	1	1	1	1	1				08/17/83	
PBS3--Peach Bottom 3	1	1	1	1	1				09/08/83	
PIN1--Prairie Island 1	2	2	--	2	2				08/30/83	
PIN2--Prairie Island 2	1	1	1	1	1				09/09/83	
QAD1--Quad Cities 1	3	3	3	3	3				09/08/83	
SGS2--Salem 2	4	5	4	5	5				09/16/83	
SNP1--Sequoyah 1	4	5	3	3	--				09/12/83	
SPS2--Surry 2	2	2	2	2	1				08/11/83	
TMI1--Three Mile Island 1	4	4	1	2	2				09/20/83	
TNP1--Trojan 1	3	4	4	4	2				09/16/83	
TPS3--Turkey Point 3	1	1	--	1	1				08/04/83	
TPS4--Turkey Point 4	3	4	3	3	2				08/25/83	
VYS1--Vermont Yankee 1	2	3	3	3	3				08/26/83	
ZIS2--Zion 2	3	3	3	3	2				09/12/83	
Total	100	125	101	111	80	801	24	21		

a. Multiple faults in a single LER are accounted for within this column.

b. The Reportable System and Component Scope Manual (RSCSM) was also used to determine present scope coverage.

c. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-2. SUMMARY OF PHASE II LERS (Phase I Tape--December 31, 1983)

Plant	Number of LERs	Faults ^a	Scope Required NPRD-4s		Number of NPRD-4s		Matches		Latest LER Event Date	Latest NPRD-4 Event Date
			Revision B	RSCSM ^b	Reportedly Submitted ^c	Total 1983 Located	Total	Revision B		
ANO2--Arkansas 2	3	3	3	3	2				08/31/83	
BEP1--Brunswick 1	3	6	6	6	6				09/12/83	
BRF2--Browns Ferry 2	3	4	4	4	--				08/01/83	
DRF3--Browns Ferry 3	3	5	5	5	3				09/19/83	
BVS1--Beaver Valley 1	2	2	1	--	--				09/18/83	
CCN2--Calvert Cliffs 2	4	6	2	3	1				08/11/83	
CRP3--Crystal River 3	2	2	1	2	--				09/07/83	
DAC1--Duane Arnold 1	3	3	3	3	--				09/06/83	
DOS1--Davis-Besse 1	4	6	6	5	6				09/09/83	
DCC1--D. C. Cook 1	4	9	9	8	9				09/12/83	
DRS2--Dresden 2	3	4	4	4	2				08/19/83	
EIH2--Edwin I. Hatch 2	4	4	3	4	--				08/31/83	
FCS1--Fort Calhoun 1	3	3	3	3	2				09/21/83	
JMF2--J. M. Farley 2	3	5	5	5	5				09/17/83	
KNP1--Kewaunee 1	3	3	--	2	3				09/16/83	
MNP1--Monticello 1	2	2	2	2	2				09/20/83	
MNS1--Millstone 1	3	4	4	4	3				08/29/83	
NAS2--North Anna 2	4	4	2	3	4				09/13/83	
NEE2--Oconee 2	1	1	1	1	1				08/22/83	
NEE3--Oconee 3	2	2	1	2	2				07/27/83	

TABLE D-2. (continued)

Plant	Number of LERs	Faults ^a	Scope Required NPRD-4s		Number of NPRD-4s		Matches		Latest LER Event Date	Latest NPRD-4 Event Date
			Revision B	RSCSM ^b	Reportedly Submitted ^c	Total 1983 Located	Total	Revision B		
NMP1--Nine Mile Point 1	3	4	4	4	3				07/20/83	
OCPI--Oyster Creek 1	2	2	1	2	--				09/16/83	
PBH1--Point Beach 1	2	2	2	2	--				08/30/83	
PBH2--Point Beach 2	1	1	1	1	1				08/17/83	
PBS3--Peach Bottom 3	1	1	1	1	1				09/08/83	
PIN1--Prairie Island 1	2	2	--	2	2				08/30/83	
PIN2--Prairie Island 2	1	1	1	1	1				09/09/83	
QAD1--Quad Cities 1	3	3	3	3	3				09/08/83	
SGS2--Salem 2	4	5	4	5	5				09/16/83	
SNP1--Sequoyah 1	4	5	3	3	--				09/12/83	
SPS2--Surry 2	2	2	2	2	1				08/11/83	
TM11--Three Mile Island 1	4	4	1	2	2				09/20/83	
TNP1--Trojan 1	3	4	4	4	2				09/16/83	
TPS3--Turkey Point 3	1	1	--	1	1				08/04/83	
TPS4--Turkey Point 4	3	4	3	3	2				08/25/83	
VYS1--Vermont Yankee 1	2	3	3	3	3				08/26/83	
ZIS2--Zion 2	3	3	3	3	2				09/12/83	
Total	100	125	101	111	80	1,216	40	34		

a. Multiple faults in a single LER are accounted for within this column.

b. The Reportable System and Component Scope Manual (RSCSM) was also used to determine present scope coverage.

c. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-3. SUMMARY OF PHASE H LERs (Phase J Tape--March 31, 1984)

Plant	Number of LERs	Faults ^a	Scope Required NPRD-4s		Number of NPRD-4s		Matches		Latest LER Event Date	Latest NPRD-4 Event Date
			Revision 8	RSCSM ^b	Reportedly Submitted ^c	Total 1983 Located	Total	Revision 8		
ANO2--Arkansas 2	3	3	3	3	2				08/31/83	
BEPI--Brunswick 1	3	6	6	6	6				09/19/83	
BRF2--Browns Ferry 2	3	4	4	4	--				08/01/83	
BRF3--Browns Ferry 3	3	5	5	5	3				09/19/83	
BVS1--Beaver Valley 1	2	2	1	--	--				09/18/83	
CCN2--Calvert Cliffs 2	4	6	2	3	1				08/11/83	
CRP3--Crystal River 3	2	2	1	2	--				09/07/83	
DAC1--Duane Arnold 1	3	3	3	3	--				09/06/83	
DBS1--Davis-Besse 1	4	6	6	5	6				09/09/83	
DCC1--D. C. Cook 1	4	9	9	8	9				09/12/83	
DRS2--Dresden 2	3	4	4	4	2				08/19/83	
ETI12--Edwin I. Hatch 2	4	4	3	4	--				08/31/83	
FCS1--Fort Calhoun 1	3	3	3	3	2				09/21/83	
JMF2--J. M. Farley 2	3	5	5	5	5				09/17/83	
KNP1--Kewaunee 1	3	3	--	2	3				09/16/83	
MNP1--Monticello 1	2	2	2	2	2				09/20/83	
MNS1--Millstone 1	3	4	4	4	3				08/29/83	
NAS2--North Anna 2	4	4	2	3	4				09/13/83	
NEE2--Oconee 2	1	1	1	1	1				08/22/83	
NEE3--Oconee 3	2	2	1	2	2				07/27/83	

TABLE D-3. (continued)

Plant	Number of LERs	Faults ^a	Scope Required NPRD-4s		Number of NPRD-4s		Matches		Latest LER Event Date	Latest NPRD-4 Event Date
			Revision 8	RSCSM ^b	Reportedly Submitted ^c	Total 1983 Located	Total	Revision 8		
NMP1--Nine Mile Point 1	3	4	4	4	3				07/20/83	
OCPI--Oyster Creek 1	2	2	1	2	--				09/16/83	
PBH1--Point Beach 1	2	2	2	2	--				08/30/83	
PBH2--Point Beach 2	1	1	1	1	1				08/17/83	
PBS3--Peach Bottom 3	1	1	1	1	1				09/08/83	
PIN1--Prairie Island 1	2	2	--	2	2				08/30/83	
PIN2--Prairie Island 2	1	1	1	1	1				09/09/83	
QAD1--Quad Cities 1	3	3	3	3	3				09/08/83	
SGS2--Salem 2	4	5	4	5	5				09/16/83	
SNP1--Sequoyah 1	4	5	3	3	--				09/12/83	
SPS2--Surry 2	2	2	2	2	1				08/11/83	
TM11--Three Mile Island 1	4	4	1	2	2				09/20/83	
TNP1--Trojan 1	3	4	4	4	2				09/16/83	
TPS3--Turkey Point 3	1	1	--	1	1				08/04/83	
TPS4--Turkey Point 4	3	4	3	3	2				08/25/83	
VYS1--Vermont Yankee 1	2	3	3	3	3				08/26/83	
ZIS2--Zion 2	3	3	3	3	2				09/12/83	
Total	100	125	101	111	80	1,678	46	40		

a. Multiple faults in a single LER are accounted for within this column.

b. The Reportable System and Component Scope Manual (RSCSM) was also used to determine present scope coverage.

c. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-4. SUMMARY OF PHASE II LERs (Phase K Tape--June 30, 1984)

Plant	Number of LERs	Faults ^a	Scope Required NPRD-4s		Number of NPRD-4s		Matches		Latest LER Event Date	Latest NPRD-4 Event Date
			Revision 8	RSCSM ^b	Reportedly Submitted ^c	Total 1983 Located	Total	Revision 8		
ANO2--Arkansas 2	3	3	3	3	2				08/31/83	
DEP1--Brunswick 1	3	6	6	6	6				09/19/83	
BRF2--Browns Ferry 2	3	4	4	4	--				08/01/83	
BRF3--Browns Ferry 3	3	5	5	5	3				09/19/83	
BVS1--Beaver Valley 1	2	2	1	--	--				09/18/83	
CCN2--Calvert Cliffs 2	4	6	2	3	1				08/11/83	
CRP3--Crystal River 3	2	2	1	2	--				09/07/83	
DAC1--Duane Arnold 1	3	3	3	3	--				09/06/83	
DBS1--Davis-Besse 1	4	6	6	5	6				09/09/83	
DCC1--D. C. Cook 1	4	9	9	8	9				09/12/83	
DRS2--Dresden 2	3	4	4	4	2				08/19/83	
EIH2--Edwin I. Hatch 2	4	4	3	4	--				08/31/83	
FCS1--Fort Calhoun 1	3	3	3	3	2				09/21/83	
JMF2--J. M. Farley 2	3	5	5	5	5				09/17/83	
KNP1--Kewaunee 1	3	3	--	2	3				09/16/83	
MNP1--Monticello 1	2	2	2	2	2				09/20/83	
MNS1--Millstone 1	3	4	4	4	3				08/29/83	
NAS2--North Anna 2	4	4	2	3	4				09/13/83	
NEE2--Oconee 2	1	1	1	1	1				08/22/83	
NEE3--Oconee 3	2	2	1	2	2				07/27/83	

TABLE D-4. (continued)

Plant	Number of LERs	Faults ^a	Scope Required NPRD-4s		Number of NPRD-4s		Matches		Latest LER Event Date	Latest NPRD-4 Event Date
			Revision B	RSCSM ^b	Reportedly Submitted ^c	Total 1983 Located	Total	Revision B		
NMP1--Nine Mile Point 1	3	4	4	4	3				07/20/83	
OCPI--Oyster Creek 1	2	2	1	2	--				09/16/83	
PDH1--Point Beach 1	2	2	2	2	--				08/30/83	
PBH2--Point Beach 2	1	1	1	1	1				08/17/83	
PBS3--Peach Bottom 3	1	1	1	1	1				09/08/83	
PIN1--Prairie Island 1	2	2	--	2	2				08/30/83	
PIN2--Prairie Island 2	1	1	1	1	1				09/09/83	
QAD1--Quad Cities 1	3	3	3	3	3				09/08/83	
SGS2--Salem 2	4	5	4	5	5				09/16/83	
SNP1--Sequoyah 1	4	5	3	3	--				09/12/83	
SPS2--Surry 2	2	2	2	2	1				08/11/83	
TM11--Three Mile Island 1	4	4	1	2	2				09/20/83	
TNP1--Trojan 1	3	4	4	4	2				09/16/83	
TPS3--Turkey Point 3	1	1	--	1	1				08/04/83	
TPS4--Turkey Point 4	3	4	3	3	2				08/25/83	
VYS1--Vermont Yankee 1	2	3	3	3	3				08/26/83	
ZIS2--Zion 2	3	3	3	3	2				09/12/83	
Total	100	125	101	111	80	1,907	46	40		

a. Multiple faults in a single LER are accounted for within this column.

b. The Reportable System and Component Scope Manual (RSCSM) was also used to determine present scope coverage.

c. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-5. SUMMARY OF PHASE I LERs (Phase I Tape--December 31, 1983)

Plant	Number of LERs	NPRD-4			Total LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1983 Located		
ANO1--Arkansas 1	1	1	--		10/13/83	
BEP2--Brunswick 2	3	4	4		11/02/83	
BRF1--Browns Ferry 1	3	4	--		12/31/83	
BVS1--Beaver Valley 1	2	2	1		11/10/83	
CCN1--Calvert Cliffs 1	4	4	4		12/30/83	
DCC2--D. C. Cook 2	3	3	3		12/10/83	
DRS3--Dresden 3	3	3	3		10/28/83	
EIH1--Edwin I. Hatch 1	2	2	--		12/28/83	
HBR2--H. B. Robinson 2	2	3	--		11/30/83	
HNP1--Haddam Neck 1	3	3	3		12/07/83	
IPS2--Indian Point 2	3	3	3		11/23/83	
JAF1--FitzPatrick 1	4	4	4		12/28/83	
JMF1--J. M. Farley 1	3	3	3		12/26/83	
NGS1--McGuire 1	3	3	--		11/12/83	
MNP1--Monticello 1	2	2	2		12/05/83	
MNS2--Millstone 2	1	1	1		12/14/83	
MYP1--Maine Yankee 1	3	3	2		12/03/83	
NAS1--North Anna 1	2	2	2		12/20/83	
NEE1--Oconee 1	2	3	1		12/25/83	
OCPI--Oyster Creek 1	3	6	3		11/14/83	

TABLE D-5. (continued)

Plant	Number of LERs	NPRD-4			Total 1983 Located	Total Matches	Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b					
PBS2--Peach Bottom 2	2	3	2				12/23/83	
PBS3--Peach Bottom 3	3	3	2				12/13/83	
PIN1--Prairie Island 1	2	2	1				12/08/83	
PPS1--Pilgrim 1	3	3	--				12/13/83	
QAD2--Quad Cities 2	3	3	1				11/28/83	
RSS1--Rancho Seco 1	2	2	2				11/10/83	
SES1--Susquehanna 1	4	4	3				12/30/83	
SGS1--Salem 1	3	3	2				12/22/83	
SLS2--St. Lucie 2	3	3	--				11/08/83	
SNP2--Sequoyah 2	3	3	1				12/21/83	
SOS2--San Onofre 1	4	4	4				12/15/83	
SPS1--Surry 1	2	3	3				10/27/83	
TPS4--Turkey Point 4	3	3	3				12/07/83	
ZIS1--Zion 1	2	2	2				12/28/83	
Total	91	100	65	996	18			

a. Multiple faults in a single LER are accounted for within this column.

b. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-6. SUMMARY OF PHASE 1 LERs (Phase J Tape--March 31, 1984)

Plant	Number of LERs	NPRD-4			Total 1983 Located	Total Matches	Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b					
ANO1--Arkansas 1	1	1	--				10/13/83	
BEP2--Brunswick 2	3	4	4				11/02/83	
BRF1--Browns Ferry 1	3	4	--				12/31/83	
BVS1--Beaver Valley 1	2	2	1				11/10/83	
CCN1--Calvert Cliffs 1	4	4	4				12/30/83	
DCC2--D. C. Cook 2	3	3	3				12/10/83	
DRS3--Dresden 3	3	3	3				10/28/83	
EIH1--Edwin I. Hatch 1	2	2	--				12/28/83	
HBR2--H. B. Robinson 2	2	3	--				11/30/83	
IINP1--Haddam Neck 1	3	3	3				12/07/83	
IPS2--Indian Point 2	3	3	3				11/23/83	
JAF1--FitzPatrick 1	4	4	4				12/28/83	
JMF1--J. M. Farley 1	3	3	3				12/26/83	
MGS1--McGuire 1	3	3	--				11/12/83	
MNP1--Monticello 1	2	2	2				12/05/83	
MNS2--Millstone 2	1	1	1				12/14/83	
MYP1--Maine Yankee 1	3	3	2				12/03/83	
NAS1--North Anna 1	2	2	2				12/20/83	
NEE1--Oconee 1	2	3	1				12/25/83	
OCPL--Oyster Creek 1	3	6	3				11/14/83	

TABLE D-6. (continued)

Plant	Number of LERs	NPRD-4			Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1983 Located	Total Matches	
PBS2--Peach Bottom 2	2	3	2			12/23/83
PBS3--Peach Bottom 3	3	3	2			12/13/83
PIN1--Prairie Island 1	2	2	1			12/08/83
PPS1--Pilgrim 1	3	3	--			12/13/83
QAD2--Quad Cities 2	3	3	1			11/28/83
RSS1--Rancho Seco 1	2	2	2			11/10/83
SES1--Susquehanna 1	4	4	3			12/30/83
SGS1--Salem 1	3	3	2			12/22/83
SLS2--St. Lucie 2	3	3	--			11/08/83
SNP2--Sequoyah 2	3	3	1			12/21/83
SOS2--San Onofre 1	4	4	4			12/15/83
SPS1--Surry 1	2	3	3			10/27/83
TPS4--Turkey Point 4	3	3	3			12/07/83
ZIS1--Zion 1	2	2	2			12/28/83
Total	91	100	65	1,500	38	

a. Multiple faults in a single LER are accounted for within this column.

b. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-7. SUMMARY OF PHASE I LERs (Phase K Tape--June 30, 1984)

Plant	Number of LERs	NPRD-4			Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1983 Located		
ANO1--Arkansas 1	1	1	--		10/13/83	
BEP2--Brunswick 2	3	4	4		11/02/83	
BRF1--Browns Ferry 1	3	4	--		12/31/83	
BVS1--Beaver Valley 1	2	2	1		11/10/83	
CCN1--Calvert Cliffs 1	4	4	4		12/30/83	
DCC2--D. C. Cook 2	3	3	3		12/10/83	
DRS3--Dresden 3	3	3	3		10/28/83	
EIH1--Edwin I. Hatch 1	2	2	--		12/28/83	
IIR2--H. U. Robinson 2	2	3	--		11/30/83	
IINP1--Haddam Neck 1	3	3	3		12/07/83	
IPS2--Indian Point 2	3	3	3		11/23/83	
JAF1--FitzPatrick 1	4	4	4		12/28/83	
JMF1--J. M. Farley 1	3	3	3		12/26/83	
MGS1--McGuire 1	3	3	--		11/12/83	
MNP1--Monticello 1	2	2	2		12/05/83	
MNS2--Millstone 2	1	1	1		12/14/83	
MYP1--Maine Yankee 1	3	3	2		12/03/83	
NAS1--North Anna 1	2	2	2		12/20/83	
NEE1--Oconee 1	2	3	1		12/25/83	
OCP1--Oyster Creek 1	3	6	3		11/14/83	

TABLE D-7. (continued)

Plant	Number of LERs	NPRD-4				Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1983 Located	Total Matches		
PBS2--Peach Bottom 2	2	3	2			12/23/83	
PBS3--Peach Bottom 3	3	3	2			12/13/83	
PIN1--Prairie Island 1	2	2	1			12/08/83	
PPS1--Pilgrim 1	3	3	--			12/13/83	
QAD2--Quad Cities 2	3	3	1			11/28/83	
RSS1--Rancho Seco 1	2	2	2			11/10/83	
SES1--Susquehanna 1	4	4	3			12/30/83	
SGS1--Salem 1	3	3	2			12/22/83	
SLS2--St. Lucie 2	3	3	--			11/08/83	
SNP2--Sequoyah 2	3	3	1			12/21/83	
SOS2--San Onofre 1	4	4	4			12/15/83	
SPS1--Surry 1	2	3	3			10/27/83	
TPS4--Turkey Point 4	3	3	3			12/07/83	
ZIS1--Zion 1	2	2	2			12/20/83	
Total	91	100	65	1,756	41		

a. Multiple faults in a single LER are accounted for within this column.

b. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-8. SUMMARY OF PHASE J LERs (Phase J Tape--March 31, 1984)

Plant	Number of LERs	NPRD-4		Total 1984 Located	Total Matches	Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b				
ANO2--Arkansas 2	3	4	3			03/19/84	
BEP1--Brunswick 1	2	2	1			02/19/84	
BRF2--Browns Ferry 2	2	2	2			02/12/84	
BRF3--Browns Ferry 3	2	3	3			01/29/84	
CCN1--Calvert Cliffs 1	1	2	2			02/20/84	
CPR1--Cooper 1	1	1	1			01/20/84	
DAC1--Duane Arnold 1	3	5	5			32/29/84	
DBS1--Davis-Besse 1	1	4	2			03/02/84	
DRS2--Dresden 2	3	3	2			02/22/84	
EIII2--Edwin I. Hatch 2	2	6	6			02/20/84	
HUR2--H. B. Robinson 2	1	1	1			01/26/84	
IPS2--Indian Point 2	2	4	4			01/05/84	
IPS3--Indian Point 3	3	3	2			03/09/84	
JMF1--J. M. Farley 1	1	3	--			01/09/84	
JMF2--J. M. Farley 2	1	1	1			01/30/84	
MNP1--Monticello 1	3	3	3			03/18/84	
MNS2--Millstone 2	1	2	2			02/02/84	
MAS2--North Anna 2	1	3	1			03/13/84	
NEE3--Oconee 3	1	1	1			02/16/84	
PAL1--Pallisades 1	1	2	2			01/08/84	

TABLE D-8. (continued)

Plant	Number of LERs	NPRD-4				Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1984 Located	Total Matches		
PDS2--Peach Bottom 2	2	2	2			02/13/84	
QAD1--Quad Cities 1	2	7	7			03/16/84	
REG1--R. E. Ginna 1	2	4	4			03/03/84	
SGS1--Salem 1	3	3	3			03/06/84	
SGS2--Salem 2	2	3	3			02/22/84	
SLS2--St. Lucie 2	2	3	3			02/09/84	
SNP1--Sequoyah 1	1	2	1			03/01/84	
SPS1--Surry 1	3	5	5			02/06/84	
SPS2--Surry 2	1	2	1			01/14/84	
TPS3--Turkey Point 3	3	4	4			03/23/84	
TPS4--Turkey Point 4	2	3	3			02/13/84	
VYS1--Vermont Yankee 1	2	3	2			02/02/84	
ZIS1--Zion 1	3	3	3			01/24/84	
ZIS2--Zion 2	1	1	1			01/16/84	
Total	64	100	86	166	19		

a. Multiple faults in a single LER are accounted for within this column.

b. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-9. SUMMARY OF PHASE J LERS (Phase K Tape--June 30, 1984)

Plant	Number of LERs	NPRD-4			Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1984 Located	Total Matches	
ANO2--Arkansas 2	3	4	3			03/19/84
BEP1--Brunswick 1	2	2	1			02/19/84
BRF2--Browns Ferry 2	2	2	2			02/12/84
BRF3--Browns Ferry 3	2	3	3			01/29/84
CCN1--Calvert Cliffs 1	1	2	2			02/28/84
CPR1--Cooper 1	1	1	1			01/20/84
DAC1--Duane Arnold 1	3	5	5			02/29/84
DBS1--Davis-Besse 1	1	4	2			03/02/84
DRS2--Dresden 2	3	3	2			02/22/84
EIII2--Edwin I. Hatch 2	2	6	6			02/20/84
HBR2--H. B. Robinson 2	1	1	1			01/26/84
IPS2--Indian Point 2	2	4	4			01/05/84
IPS3--Indian Point 3	3	3	2			03/09/84
JMF1--J. M. Farley 1	1	3	--			01/09/84
JWF2--J. M. Farley 2	1	1	1			01/30/84
MNP1--Monticello 1	3	3	3			03/18/84
MNS2--Millstone 2	1	2	2			02/02/84
NAS2--North Anna 2	1	3	1			03/13/84
NEE3--Oconee 3	1	1	1			02/16/84
PAL1--Palisades 1	1	2	2			01/08/84

TABLE D-9. (continued)

Plant	Number of LERs	NPRD-4			Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1984 Located	Total Matches	
PBS2--Peach Bottom 2	2	2	2			02/13/84
QAD1--Quad Cities 1	2	7	7			03/16/84
REG1--R. E. Ginna 1	2	4	4			03/03/84
SGS1--Salem 1	3	3	3			03/06/84
SGS2--Salem 2	2	3	3			02/22/84
SLS2--St. Lucie 2	2	3	3			02/09/84
SNP1--Sequoyah 1	1	2	1			03/01/84
SPS1--Surry 1	3	5	5			02/06/84
SPS2--Surry 2	1	2	1			01/14/84
TPS3--Turkey Point 3	3	4	4			03/23/84
TPS4--Turkey Point 4	2	3	3			02/13/84
VYS1--Vermont Yankee 1	2	3	2			02/02/84
ZIS1--Zion 1	3	3	3			01/24/84
ZIS2--Zion 2	1	1	1			01/16/84
Total	64	100	86	734	41	

a. Multiple faults in a single LER are accounted for within this column.

b. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE D-10. SUMMARY OF PHASE K LERs (Phase K Tape--June 30, 1984)

Plant	Number of LERs	NPRD-4				Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1984 Located	Total Matches		
BEP2--Brunswick 2	1	5	5			05/22/84	
BRF1--Browns Ferry 1	1	1	1			06/20/84	
BRF3--Browns Ferry 3	1	2	--			05/17/84	
CCN1--Calvert Cliffs 1	1	6	6			05/05/84	
CPR1--Cooper 1	2	3	1			04/19/84	
CRP3--Crystal River 3	2	2	2			05/09/84	
DCC1--D. C. Cook 1	2	2	2			06/17/84	
DRS2--Dresden 2	1	1	--			06/21/84	
EIH1--E. I. Hatch 1	1	2	1			06/20/84	
FCS1--Fort Calhoun 1	1	1	1			05/16/84	
HBR2--H. B. Robinson 2	1	3	3			05/21/84	
IPS3--Indian Point 3	3	3	3			06/16/84	
JAF1--J. A. FitzPatrick 1	1	2	2			05/19/84	
JMF1--J. M. Farley 1	1	1	--			05/01/84	
KNP1--Kewaunee 1	2	4	4			05/05/84	
LSC1--LaSalle 1	2	2	2			06/24/84	
MGS2--McGuire 2	3	3	3			05/11/84	
MNS1--Millstone 1	2	5	5			06/14/84	
MYP1--Maine Yankee 1	1	1	1			05/29/84	
NAS2--North Anna 2	2	3	2			06/25/84	

TABLE D-10. (continued)

Plant	Number of LERs	NPRD-4				Latest LER Event Date	Latest NPRD-4 Event Date
		Faults ^a	Reportedly Submitted ^b	Total 1984 Located	Total Matches		
NEE1--Oconee 1	1	1	1			05/12/84	
NMP1--Nine Mile Point 1	1	3	3			06/14/84	
OCPI--Oyster Creek 1	1	2	--			06/07/84	
PBS2--Peach Bottom 2	2	2	1			06/07/84	
PDS3--Peach Bottom 3	1	2	2			06/10/84	
PPS1--Pilgrim 1	3	4	4			06/26/84	
QAD2--Quad Cities 2	2	3	3			06/10/84	
RSS1--Rancho Seco 1	2	3	3			06/01/84	
SGS1--Salem 1	1	1	1			05/27/84	
SGS2--Salem 2	1	1	1			04/28/84	
SNP1--Sequoyah 1	4	5	4			05/27/84	
SNP2--Sequoyah 2	1	1	--			05/19/84	
SOS2--San Onofre 2	1	1	--			04/23/84	
SPS2--Surry 2	1	4	4			04/19/84	
TMI1--Three Mile Island 1	1	3	3			06/30/84	
TNP1--Trojan 1	1	1	--			04/29/84	
TPS3--Turkey Point 3	1	2	1			05/14/84	
VCS1--V. C. Summer 1	2	3	3			04/29/84	
VYS1--Vermont Yankee 1	1	1	1			04/17/84	
ZIS2--Zion 2	1	5	5			05/03/84	
Total	60	100	84	831	12		

a. Multiple faults in a single LER are accounted for within this column.

b. These values reflect a "Yes" in the LER field "NPRD-4 Submitted."

TABLE E-1. NEW OR REVISED NPRD-4 COMPONENT COUNT FOR 84-2

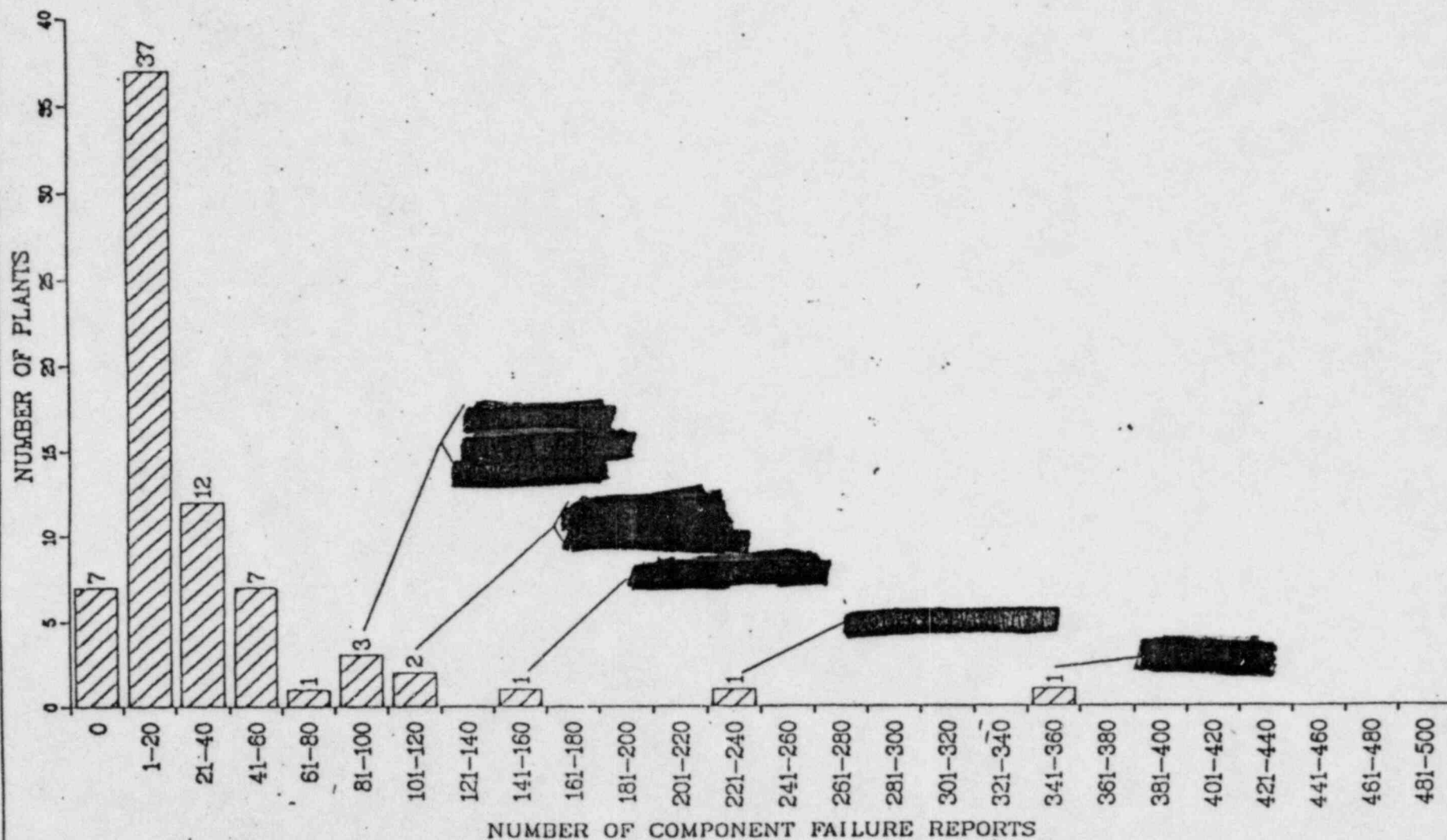
Plant	Discovery Year												Total
	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	
--	--	--	--	--	--	--	--	--	--	--	2	21	23
--	--	--	--	--	--	--	--	--	--	--	32	1	33
--	--	--	--	--	--	--	--	--	--	--	6	41	47
--	--	--	--	--	--	--	--	--	--	1	21	32	54
--	--	--	--	--	--	--	--	--	--	--	--	1	1
--	--	--	--	--	--	--	--	--	--	--	--	2	2
--	--	--	--	--	--	--	--	--	--	--	1	3	4
--	--	--	--	--	--	--	--	1	1	2	8	66	70
--	--	--	--	--	--	--	--	--	2	1	4	52	59
--	4	1	2	--	--	3	--	--	3	1	1	5	20
--	--	--	--	--	--	--	--	--	--	--	14	46	60
--	--	--	--	--	--	--	--	--	--	--	--	4	4
--	--	--	--	--	--	7	6	7	1	11	19	36	87
--	--	--	--	--	--	--	--	--	7	--	--	11	11
--	--	--	--	--	--	--	--	--	--	--	--	15	15
--	--	--	--	--	--	--	--	--	--	--	1	3	4
--	--	--	--	--	--	--	--	--	--	--	--	2	2
--	--	--	--	--	--	--	--	--	--	1	6	11	18
--	--	--	--	--	--	--	--	--	--	--	7	--	7
--	--	--	--	--	--	--	--	--	--	--	--	14	14
--	--	--	--	--	--	--	13	37	27	26	9	5	117
--	--	--	--	--	--	--	--	--	--	--	12	3	15

TABLE E-1. (continued)

Plant	Discovery Year												Total
	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	
[REDACTED]	--	--	--	--	--	--	--	--	--	--	--	8	8
	--	--	--	--	--	--	--	--	--	--	--	2	2
	--	--	--	--	--	--	--	--	--	1	--	45	46
	--	<u>1</u>	--	--	--	--	--	--	--	<u>1</u>	<u>2</u>	<u>19</u>	<u>23</u>
Total for 04-2	--	6	8	6	25	32	113	168	139	185	602	1072	2356

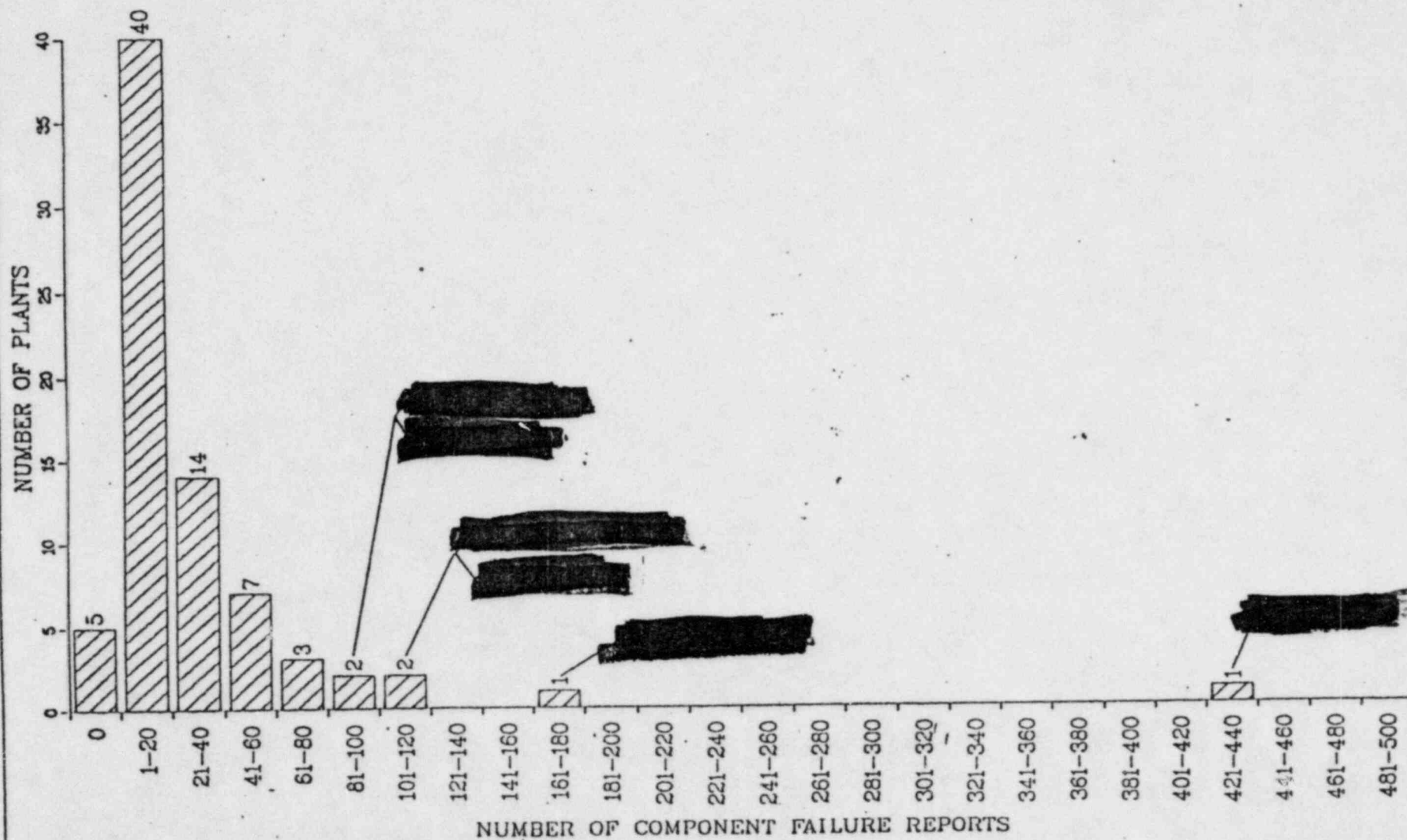
1ST QTR 84 COMPONENT FAILURE REPORT COUNTS

LEGEND
[Hatched Box] NUMBER OF PLANTS WITHIN RANGE



2ND QTR 84 COMPONENT FAILURE REPORT COUNTS

LEGEND
 [Hatched Box] NUMBER OF PLANTS WITHIN RANGE



3RD QTR 83 COMPONENT FAILURE REPORT COUNTS

LEGEND
ZZ NUMBER OF PLANTS WITHIN RANGE

