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SUBJECT: Monthly operating repts for Marc 1993 for PVNGS,units 1,2 &
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Arizona Public Service Company
PALO VERDE NUCLEAR GENERATING STATION
P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

JAMES M. LEVINE
VICE PRESIDENT
NUCLEAR PRODUCTION

417-00051-JML/BSE/FHD/GEZ
April 14, 1993

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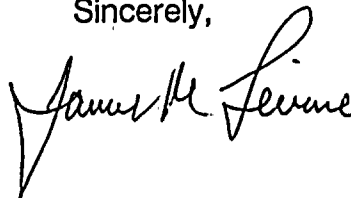
Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
Monthly Operating Reports for March 1993
File: 93-024-404; 93-056-026

Enclosed are the Monthly Operating Reports for March 1993, prepared and submitted pursuant to Specification 6.9.1.6 of Appendix A (Technical Specifications) to the PVNGS Units 1, 2, and 3 Operating Licenses. By copy of this letter, Arizona Public Service Company is also forwarding the Monthly Operating Reports to the Regional Administrator, NRC Region V.

If you have any questions, please contact Brad S. Ecklund at (602) 340-4068.

Sincerely,



JML/BSE/FHD/gez
Enclosures

cc: J. B. Martin (all w/enclosures)
A. C. Gehr
A. H. Gutterman
NRC Senior Resident Inspector
INPO Records Center
Utility Data Institute

9304150149 930331
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R PDR



NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 04/08/93
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: March 1993
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1270
6. Maximum Dependable Capacity (Gross MWe): 1303
7. Maximum Dependable Capacity (Net MWe): 1221
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
 Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	UNIT 1 GENERATING STATISTICS	This Month	Yr -to-Date	Cumulative
11.	Hours in Reporting Period	744	2,160	62,880
12.	Hours Reactor was Critical	744.0	2,118.1	37,293.7
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	2,116.1	36,449.9
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,806,238	7,913,739	133,692,750
17.	Gross Electrical Energy Generated (MWH)	976,700	2,732,500	46,362,700
18.	Net Electrical Energy Generated (MWH)	922,717	2,575,044	43,518,640
19.	Unit Service Factor (%)	100.0%	98.0%	58.0%
20.	Unit Availability Factor (%)	100.0%	98.0%	58.0%
21.	Unit Capacity Factor (Using MDC Net)	101.6%	97.6%	56.7%
22.	Unit Capacity Factor (Using DER Net)	97.7%	93.9%	54.5%
23.	Unit Forced Outage Rate (%)	0.0%	2.0%	17.3%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): Refueling outage, September 4, 1993. 80 days.

25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

	Forecast	Achieved
INITIAL CRITICALITY	<u>05/85</u>	<u>05/25/85</u>
INITIAL ELECTRICITY	<u>06/85</u>	<u>06/10/85</u>
COMMERCIAL OPERATION	<u>11/85</u>	<u>01/28/86</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 04/08/93
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

MONTH: March 1993

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1251</u>
2	<u>1251</u>
3	<u>1249</u>
4	<u>1249</u>
5	<u>1251</u>
6	<u>1251</u>
7	<u>1248</u>
8	<u>1249</u>
9	<u>1248</u>
10	<u>1247</u>
11	<u>1247</u>
12	<u>1248</u>
13	<u>1251</u>
14	<u>1248</u>
15	<u>1249</u>
16	<u>1249</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1248</u>
18	<u>1248</u>
19	<u>1250</u>
20	<u>1249</u>
21	<u>1248</u>
22	<u>1248</u>
23	<u>1248</u>
24	<u>1247</u>
25	<u>1169</u>
26	<u>1078</u>
27	<u>1248</u>
28	<u>1248</u>
29	<u>1246</u>
30	<u>1247</u>
31	<u>1249</u>

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 04/08/93
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

1. Scheduled date for next refueling shutdown.
09/04/93, 4th refueling
2. Scheduled date for restart following refueling.
11/23/93
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

There will be no need for a Technical Specification change or other license amendment.
4. Scheduled date for submitting proposed licensing action and supporting information.

N/A
5. Important Licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, and new operating procedures.

APS intends to use Guardian™ debris resistant grids in Unit 1 Batch 6 fuel and has submitted, for NRC review, a Topical Report, "System 80™ Inlet Flow Distribution, Supplement 1-P to Enclosure 1-P to LD-82-054," that discusses a revision to the analysis method.
6. The number of fuel assemblies.

a) In the core. 241
b) In the spent fuel storage pool. 276
7. Licensed spent fuel storage capacity. 1329

Intended change in spent fuel storage capacity. None
8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

2005 (18 Month reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	<u>50-528</u>
UNIT NAME	<u>PVNGS-1</u>
DATE	<u>04/08/93</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 340-4068</u>

March 1993

03/01	0000	Unit began the month in Mode 1; 100% RX power.
03/25	1613	Due to PC/CMC COLSS stalling, a power reduction was commenced to meet out of service specifications.
03/25	1707	Power reduction was stopped at 80%.
03/25	1832	CMC COLSS was restored to operable status. The PC was still halted.
03/25	2238	A power reduction from 80% to 70% was started to replace a speed probe on the Feedwater Pump Turbine "A".
03/26	0002	Power reduction was stopped at 70%.
03/26	0430	Commenced RX power ascension back to 80%.
03/26	0630	Stabilized RX power at 82%.
03/26	0639	Restored plant computer back to service and commenced RX power ascension to 100%.
03/26	0915	Stabilized RX power at 90% to perform a surveillance test.
03/26	1300	Recommenced RX power ascension to 100%.
03/26	1627	Stabilized RX power at 100%.
03/31	2400	Unit ended the month in Mode 1; 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
March 1993

DOCKET NO 50-528
UNIT NAME PVNGS-1
DATE 04/08/93
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

No.	Date	Type ¹	Outage Duration Hours	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action to Prevent Recurrence
93-03	03/25/93	F	N/A	A	5	N/A	N/A	N/A	RX power reduction to 80% due to PC/CMC COLSS stalling problems.
93-04	03/25/93	F	N/A	B	5	N/A	N/A	N/A	RX power reduction from 80% to 70% to replace a speed probe on FW Pump Turbine A.

¹F-Forced
S-Scheduled

²Reason:
A-Equipment Failure(Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License
Examination
F-Administrative
G-Operational Error
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from
Previous Month
5-Reduction of 20% or
Greater in the Past
24 Hours
9-Other-(Explain)

⁴Exhibit F-Instructions
for Preparation of the Data
Entry Sheets for Licensee
Event Report (LER) File
(NUREG 0161)

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-529
 UNIT NAME PVNGS-2
 DATE 04/08/93
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: March 1993
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1270
6. Maximum Dependable Capacity (Gross MWe): 1303
7. Maximum Dependable Capacity (Net MWe): 1221
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	UNIT 2 GENERATING STATISTICS	This Month	Yr -to-Date	Cumulative
11.	Hours in Reporting Period	744	2,160	57,264
12.	Hours Reactor was Critical	316.8	1,732.8	41,558.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	316.8	1,732.8	40,789.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	1,182,454	6,557,946	150,594,902
17.	Gross Electrical Energy Generated (MWH)	411,400	2,276,500	52,442,570
18.	Net Electrical Energy Generated (MWH)	379,856	2,131,321	49,126,040
19.	Unit Service Factor (%)	42.6%	80.2%	71.2%
20.	Unit Availability Factor (%)	42.6%	80.2%	71.2%
21.	Unit Capacity Factor (Using MDC Net)	41.8%	80.8%	70.3%
22.	Unit Capacity Factor (Using DER Net)	40.2%	77.7%	67.6%
23.	Unit Forced Outage Rate (%)	26.7%	6.2%	6.4%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): N/A
25. If Shutdown At End of Report Period, Estimated Date of Start-up: June 8, 1993

	Forecast	Achieved
INITIAL CRITICALITY	<u>03/86</u>	<u>04/18/86</u>
INITIAL ELECTRICITY	<u>06/86</u>	<u>05/20/86</u>
COMMERCIAL OPERATION	<u>11/86</u>	<u>09/19/86</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
 UNIT NAME PVNGS-2
 DATE 04/08/93
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

MONTH: March 1993

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1183</u>
2	<u>1237</u>
3	<u>1240</u>
4	<u>1239</u>
5	<u>1237</u>
6	<u>1238</u>
7	<u>1209</u>
8	<u>1197</u>
9	<u>1192</u>
10	<u>1205</u>
11	<u>1217</u>
12	<u>1226</u>
13	<u>1230</u>
14	<u>209</u>
15	<u>0</u>
16	<u>0</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>0</u>
18	<u>0</u>
19	<u>0</u>
20	<u>0</u>
21	<u>0</u>
22	<u>0</u>
23	<u>0</u>
24	<u>0</u>
25	<u>0</u>
26	<u>0</u>
27	<u>0</u>
28	<u>0</u>
29	<u>0</u>
30	<u>0</u>
31	<u>0</u>

REFUELING INFORMATION

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 04/08/93
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

1. Scheduled date for next refueling shutdown.
03/20/93, 4th refueling
2. Scheduled date for restart following refueling.
06/08/93
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

No, however, a change to the moderator temperature coefficient curve will occur in the Unit 2 Cycle 5 Core Operating Limits Report.
4. Scheduled date for submitting proposed licensing action and supporting information.

N/A
5. Important Licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, and new operating procedures.

Minor modifications to the fuel pellet design is considered to be within the current Technical Specifications and no revision is required.
6. The number of fuel assemblies.

a) In the core. 241
b) In the spent fuel storage pool. 288
7. Licensed spent fuel storage capacity. 1329

Intended change in spent fuel storage capacity. None
8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

2005 (18 Month reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 04/08/93
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

March 1993

03/01	0000	Unit began the month in Mode 1; 100% RX power.
03/14	0425	RCS pressure and pressurizer level suddenly decreased but no radiation monitors except RU140 and RU7 were alarming.
03/14	0447	Manually tripped RX and received SIAS and CIAS.
03/14	0458	Declared NUE.
03/14	0502	Upgraded emergency classification to an ALERT based on RCS leakage greater than 44 gpm.
03/14	0604	Commenced a cooldown per Functional Recovery Procedure.
03/14	0721	Recommenced RCS cooldown.
03/14	0728	Steam Generator #2 determined to have tube rupture and was isolated.
03/14	0804	Isolated aux. steam. Aux. steam now supplied by Unit 3.
03/14	1029	Entered Mode 4.
03/15	0115	ALERT terminated.
03/15	0556	Entered Mode 5.
03/19	0001	Official refueling outage start time.
03/24	1612	Entered Mode 6.
03/31	2400	Unit ended the month in Mode 6; 4th refueling outage in progress.

SHUTDOWNS AND POWER REDUCTIONS
March 1993

DOCKET NO 50-529
UNIT NAME PVNGS-2
DATE 04/08/93
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

No.	Date	Type ¹	Outage Duration Hours	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action to Prevent Recurrence
93-01	03/14/93	F	115.2	A	2	N/A	N/A	N/A	Manual RX trip due to tube rupture in SG#2.
93-02	03/19/93	S	312.0	C	9	N/A	N/A	N/A	Continued from manual RX trip on 3/14/93. Fourth refueling outage officially started at 0001 hrs. on 3/19/93.

¹F-Forced
S-Scheduled

²Reason:
A-Equipment Failure(Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from Previous Month
5-Reduction of 20% or Greater in the Past 24 Hours
9-Other-(Explain)

⁴Exhibit F-Instructions
for Preparation of the Data
Entry Sheets for Licensee
Event Report (LER) File
(NUREG 0161)

⁵Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO. 50-530
 UNIT NAME PVNGS-3
 DATE 04/08/93
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: March 1993
3. Licensed Thermal Power (MWt): 3800
4. Nameplate Rating (Gross MWe): 1403
5. Design Electrical Rating (Net MWe): 1270
6. Maximum Dependable Capacity (Gross MWe): 1303
7. Maximum Dependable Capacity (Net MWe): 1221
8. If Changes Occur In Capacity Ratings (Item Numbers 3 Through 7)
Since Last Report, Give Reasons: N/A
9. Power Level to Which Restricted, If Any (Net MWe): None
10. Reasons For Restrictions, If Any: N/A

	UNIT 3 GENERATING STATISTICS	This Month	Yr -to-Date	Cumulative
11.	Hours in Reporting Period	744	2,160	45,840
12.	Hours Reactor was Critical	744.0	2,088.5	33,096.2
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator was On-Line	744.0	2,064.2	32,588.4
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated (MWH)	2,756,155	7,578,081	119,595,086
17.	Gross Electrical Energy Generated (MWH)	963,800	2,649,900	41,877,700
18.	Net Electrical Energy Generated (MWH)	909,919	2,498,511	39,401,831
19.	Unit Service Factor (%)	100.0%	95.6%	71.1%
20.	Unit Availability Factor (%)	100.0%	95.6%	71.1%
21.	Unit Capacity Factor (Using MDC Net)	100.2%	94.7%	70.4%
22.	Unit Capacity Factor (Using DER Net)	96.3%	91.1%	67.7%
23.	Unit Forced Outage Rate (%)	0.0%	4.4%	7.7%

24. Shutdowns Scheduled Over Next 6 Months (Type, Date and Duration of Each): N/A

25. If Shutdown At End of Report Period, Estimated Date of Start-up: N/A

	Forecast	Achieved
INITIAL CRITICALITY	<u>07/87</u>	<u>10/25/87</u>
INITIAL ELECTRICITY	<u>07/87</u>	<u>11/28/87</u>
COMMERCIAL OPERATION	<u>09/87</u>	<u>01/08/88</u>

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-530
 UNIT NAME PVNGS-3
 DATE 04/08/93
 COMPLETED BY B. S. Ecklund
 TELEPHONE (602) 340-4068

MONTH: March 1993

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1265</u>
2	<u>1263</u>
3	<u>1261</u>
4	<u>1002</u>
5	<u>842</u>
6	<u>1003</u>
7	<u>1143</u>
8	<u>1260</u>
9	<u>1261</u>
10	<u>1259</u>
11	<u>1258</u>
12	<u>1258</u>
13	<u>1260</u>
14	<u>1258</u>
15	<u>1258</u>
16	<u>1257</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1254</u>
18	<u>1255</u>
19	<u>1257</u>
20	<u>1257</u>
21	<u>1258</u>
22	<u>1256</u>
23	<u>1252</u>
24	<u>1254</u>
25	<u>1254</u>
26	<u>1256</u>
27	<u>1257</u>
28	<u>1258</u>
29	<u>1259</u>
30	<u>1257</u>
31	<u>1255</u>

REFUELING INFORMATION

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 04/08/93
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

1. Scheduled date for next refueling shutdown.
03/12/94, 4th refueling.
2. Scheduled date for restart following refueling.
05/31/94.
3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?
Unknown at this time. Unit 3 Cycle 5 is presently in the preliminary design stages.
4. Scheduled date for submitting proposed licensing action and supporting information.
Mid 1993.
5. Important Licensing considerations associated with refueling, e.g., new or different fuel design or supplier, unreviewed design or performance analysis methods, significant changes in fuel design, and new operating procedures.

The NRC granted a license amendment (No. 35) which allows the use of 80 fuel rods clad with advanced zirconium based alloys (other than Zircaloy-4) in two fuel assemblies during Unit 3 Cycles 4, 5, and 6 for in-reactor performance evaluation. Date of issuance was July 20, 1992.
6. The number of fuel assemblies.
a) In the core. 241
b) In the spent fuel storage pool. 284
7. Licensed spent fuel storage capacity. 1329

Intended change in spent fuel storage capacity. None
8. Projected date of last refueling that can be discharged to spent fuel storage pool assuming present capacity.

2005 (18 Month reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>04/08/93</u>
COMPLETED BY	<u>B. S. Ecklund</u>
TELEPHONE	<u>(602) 340-4068</u>

March 1993

03/01	0000	Unit began the month in Mode 1, 100% RX power.
03/04	1315	Control channels for the steam generator level control in feedwater control system 2 (FWCS 2) were observed to be oscillating with large amplitude swings. Variation in main feedwater pump speed caused by the level oscillations caused a decrease in main feedwater pump suction pressure to the extent that the low suction pressure trip circuits energized for both feedwater pumps. FWCS 2 master controller was placed in manual and main feedwater pump A was tripped in a successful attempt to restore suction pressure. The trip of the "A" main feedwater pump initiated a reactor power cutback which was successfully completed. CEA regulating Groups 4 & 5 dropped and the turbine generator ranback to 55% power.
03/04	1400	Stabilized RX power at 55%.
03/04	1434	Commenced RX power ascension to 60% at 5% per hour.
03/04	1535	Stabilized RX power at ~60%.
03/05	0517	Commenced RX power increase to 70%.
03/05	0606	Stabilized RX power at ~70%.
03/05	2105	Commenced RX power increase to 80%.
03/06	0100	Stabilized RX power at 80%.
03/07	0800	Commenced RX power increase to 100%.
03/07	1345	Stabilized RX power at 100%.
03/31	2400	Unit the ended month in Mode 1; 100% RX power.

SHUTDOWNS AND POWER REDUCTIONS
March 1993

DOCKET NO 50-530
UNIT NAME PVNGS-3
DATE 04/08/93
COMPLETED BY B. S. Ecklund
TELEPHONE (602) 340-4068

No.	Date	Type ¹	Outage Duration Hours	Reason ²	Method of Shutting Down Reactor ³	LER No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action to Prevent Recurrence
93-03	03/04/93	F	N/A	A	5	N/A	N/A	N/A	RX power reduction to 55% due to the conditions identified on page 14 at 1315 hrs. on 3-4-93.

¹F-Forced
S-Scheduled

²Reason:
A-Equipment Failure(Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License
Examination
F-Administrative
G-Operational Error
H-Other (Explain)

³Method:
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from
Previous Month
5-Reduction of 20% or
Greater in the Past
24 Hours
9-Other-(Explain)

⁴Exhibit F-Instructions
for Preparation of the Data
Entry Sheets for Licensee
Event Report (LER) File
(NUREG 0161)

⁵Exhibit H-Same Source