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 STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530
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 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: Monthly operating repts for Apr 1988 W/880513 ltr.

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Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

212-00198-JGH/TJB

May 13, 1988

Docket Nos. STN 50-528/529/530

U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Document Control Desk

Gentlemen:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2 and 3
April Monthly Operating Report
File: 88-024-404/88-056-026

Attached are the April Monthly Operating Reports prepared and submitted pursuant to Specification 6.9.1.6 of Appendix A (Technical Specifications) to the Palo Verde Nuclear Generating Station, Units 1, 2 and 3 Operating Licenses. By copy of this letter, we are also forwarding a copy of the Monthly Operating Reports to the Regional Administrator of the Region V Office.

If you have any questions, please contact Mr. T. J. Bloom, at (602) 371-4187.

Very truly yours,

J. G. Haynes
Vice President
Nuclear Production

JGH/TJB/ve
Attachments

cc: E. E. Van Brunt, Jr. (all w/attachments)
J. A. Amenta
A. C. Gehr
E. A. Licitra
J. B. Martin
INPO Records Center

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11

NRC MONTHLY OPERATING REPORT

DOCKET NO.	50-528
UNIT NAME	PVNGS-1
DATE	05/11/88
COMPLETED BY	T. J. Bloom
TELEPHONE	(602) 371-4187

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 1
2. Reporting Period: April 1988
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 (Items Number 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

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	<u>720</u>	<u>2,904</u>	<u>19,776</u>
12. Number of Hours Reactor Was Critical	<u>635.8</u>	<u>1,216.0</u>	<u>11,193.2</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>623.6</u>	<u>1,142.3</u>	<u>10,859.4</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,300,328.0</u>	<u>3,967,829.0</u>	<u>39,000,666.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>805,300.0</u>	<u>1,387,300.0</u>	<u>13,530,600.0</u>
18. Net Electrical Energy Generated (MWH)	<u>758,479.0</u>	<u>1,288,858.0</u>	<u>12,616,783.0</u>
19. Unit Service Factor	<u>86.6%</u>	<u>39.3%</u>	<u>54.9%</u>
20. Unit Availability Factor	<u>86.6%</u>	<u>39.3%</u>	<u>54.9%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>86.3%</u>	<u>36.3%</u>	<u>52.3%</u>
22. Unit Capacity Factor (Using DER Net)	<u>82.9%</u>	<u>34.9%</u>	<u>50.2%</u>
23. Unit Forced Outage Rate	<u>13.4%</u>	<u>52.3%</u>	<u>28.8%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>None</u>			

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

INITIAL CRITICALITY
INITIAL ELECTRICITY
COMMERCIAL OPERATION

Forecast	Achieved
<u>05/85</u>	<u>05/25/85</u>
<u>06/85</u>	<u>06/10/85</u>
<u>11/85</u>	<u>01/28/86</u>

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AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-528
 UNIT NAME PVNGS-1
 DATE 05/11/88
 COMPLETED BY T. J. Bloom
 TELEPHONE (602) 371-4187

MONTH: APRIL

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1,272</u>
2	<u>1,276</u>
3	<u>1,272</u>
4	<u>1,272</u>
5	<u>1,272</u>
6	<u>1,276</u>
7	<u>1,273</u>
8	<u>1,261</u>
9	<u>1,273</u>
10	<u>1,272</u>
11	<u>1,276</u>
12	<u>1,268</u>
13	<u>1,268</u>
14	<u>1,268</u>
15	<u>1,264</u>
16	<u>1,276</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1,268</u>
18	<u>1,264</u>
19	<u>49</u>
20	<u>0</u>
21	<u>702</u>
22	<u>1,256</u>
23	<u>1,255</u>
24	<u>1,214</u>
25	<u>1,222</u>
26	<u>1,226</u>
27	<u>1,222</u>
28	<u>600</u>
29	<u>0</u>
30	<u>125</u>
31	<u></u>

REFUELING INFORMATION

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 05/11/88
COMPLETED BY T. J. Bloom
TELEPHONE (602) 371-4187

1. Scheduled date for next refueling shutdown.

03/21/89

2. Scheduled date for restart following refueling.

05/29/89

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

To be determined

4. Scheduled date for submitting proposed licensing action and supporting information.

To be determined

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, new operating procedures.

To be determined

6. The number of fuel assemblies

a) In the core. 241

b) In the spent fuel storage pool. 80

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.

2006 (18 Months reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	50-528
UNIT NAME	PVNGS-1
DATE	05/11/88
COMPLETED BY	T. J. Bloom
TELEPHONE	(602) 371-4187

APRIL 1988

04/01	0000	Reactor Power at 100%.
04/19	0148	Inadvertent Opening of the Main Generator Output Breaker Resulted in a Reactor Trip and the Unit was Stabilized in Mode 3 (Hot Standby).
04/20	2139	Entered Mode 2 (Reactor Critical).
04/20	2332	Entered Mode 1 (Power Operation).
04/21	0239	Main Generator Synchronized to the Grid.
04/21	0342	Reactor Power at 19%.
04/21	1034	Reactor Power at 50%.
04/21	1800	Reactor Power at 100%.
04/23	1830	Reactor Power at 95% for Moderator Temperature Coefficient Determination.
04/25	1840	Reactor Power at 100%.
04/28	0925	Commenced Power Reduction for Shutdown to Resolve Oil Leak on Reactor Coolant Pump 2A.
04/28	1240	Manually Tripped the Turbine and Opened the Main Generator Output Breakers.
04/28	1302	Entered Mode 3.
04/30	0521	Entered Mode 2.
04/30	0941	Entered Mode 1.
04/30	1210	Main Generator Synchronized to the Grid.
04/30	2400	Reactor Power at 53%.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-528
UNIT NAME PVNGS-1
DATE 05/11/88
COMPLETED BY T. J. Bloom
TELEPHONE (602) 371-4187

No.	Date	Type ¹	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
3	04/19	F	48.9	G	3	1-88-011	FK	DISC	Reactor Trip Resulting from Inadvertent Opening of Main Generator Output Breaker.
4	04/28	F	47.5	A	1	N/A	N/A	N/A	Leaking Oil Filter on Reactor Coolant Pump necessitated a Reactor Shutdown to Replace Filter.

1	2	3	4
F-Forced S-Scheduled	Reason: 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)	Method: 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)	Exhibit F-Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161) 5 Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>05/11/88</u>
COMPLETED BY	<u>T. J. Bloom</u>
TELEPHONE	<u>(602) 371-4187</u>

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 2
2. Reporting Period: April 1988
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 (Items Number 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

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	<u>720</u>	<u>2,904</u>	<u>14,160</u>
12. Number of Hours Reactor Was Critical	<u>0.0</u>	<u>1,202.0</u>	<u>10,477.1</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>0.0</u>	<u>1,202.0</u>	<u>10,328.2</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>0.0</u>	<u>4,508,600.0</u>	<u>37,715,767.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>0.0</u>	<u>1,588,100.0</u>	<u>13,249,370.0</u>
18. Net Electrical Energy Generated (MWH)	<u>0.0</u>	<u>1,487,775.0</u>	<u>12,424,657.0</u>
19. Unit Service Factor	<u>0.0%</u>	<u>41.4%</u>	<u>72.9%</u>
20. Unit Availability Factor	<u>0.0%</u>	<u>41.4%</u>	<u>72.9%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>0.0%</u>	<u>42.0%</u>	<u>71.9%</u>
22. Unit Capacity Factor (Using DER Net)	<u>0.0%</u>	<u>40.3%</u>	<u>69.1%</u>
23. Unit Forced Outage Rate	<u>0.0%</u>	<u>0.0%</u>	<u>5.9%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>Currently in 1st Refueling Outage.</u>			
25. If Shutdown At End of Report Period, Estimated Date of Startup: <u>06/16/88</u>			

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

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-529
 UNIT NAME PVNGS-2
 DATE 05/11/88
 COMPLETED BY T. J. Bloom
 TELEPHONE (602) 371-4187

MONTH: APRIL

DAY	AVERAGE DAILY POWER LEVEL
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>
4	<u>0</u>
5	<u>0</u>
6	<u>0</u>
7	<u>0</u>
8	<u>0</u>
9	<u>0</u>
10	<u>0</u>
11	<u>0</u>
12	<u>0</u>
13	<u>0</u>
14	<u>0</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 05/11/88
COMPLETED BY T. J. Bloom
TELEPHONE (602) 371-4187

1. Scheduled date for next refueling shutdown.

09/15/89

2. Scheduled date for restart following refueling.

11/24/89

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

To be determined

4. Scheduled date for submitting proposed licensing action and supporting information.

To be determined

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, new operating procedures.

To be determined

6. The number of fuel assemblies

a) In the core. 241

b) In the spent fuel storage pool. 108

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.

2006 (18 Months reloads and full core discharge capability).

SUMMARY OF OPERATING EXPERIENCE FOR THE MONTH

DOCKET NO.	<u>50-529</u>
UNIT NAME	<u>PVNGS-2</u>
DATE	<u>05/11/88</u>
COMPLETED BY	<u>T. J. Bloom</u>
TELEPHONE	<u>(602) 371-4187</u>

APRIL 1988

04/01 Core Off Load Completed 03/21/88. Reconstitution of Fuel Assemblies with failed fuel pins and Top Hat Installation Activities Underway.

04/15 Entered Mode 6. Reactor Engineering Completed Core Alignment Verification Following the Core Reload.

04/30 Unit in Mode 6.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-529
UNIT NAME PVNGS-2
DATE 05/11/87
COMPLETED BY T. J. Bloom
TELEPHONE (602) 371-4187

No.	Date	Type ¹	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
2	02/20	S	1702	C	4	N/A	N/A	N/A	Refueling Outage Underway.

1	2	3	4	5
F-Forced S-Scheduled	Reason: 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)	Method: 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)	Exhibit F-Instructions for Preparation of the Data Entry Sheets for Licensee Event Report (LER) File (NUREG 0161)	Exhibit H-Same Source

NRC MONTHLY OPERATING REPORT

DOCKET NO.	<u>50-530</u>
UNIT NAME	<u>PVNGS-3</u>
DATE	<u>05/11/88</u>
COMPLETED BY	<u>T. J. Bloom</u>
TELEPHONE	<u>(602) 371-4187</u>

OPERATING STATUS

1. Unit Name: Palo Verde Nuclear Generating Station, Unit 3
2. Reporting Period: April 1988
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 (Items Number 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

	This Month	Yr.-to-Date	Cumulative
11. Hours in Reporting Period	<u>720</u>	<u>2,736</u>	<u>2,736</u>
12. Number of Hours Reactor Was Critical	<u>720.0</u>	<u>2,736.0</u>	<u>2,736.0</u>
13. Reactor Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
14. Hours Generator On-Line	<u>720.0</u>	<u>2,736.0</u>	<u>2,736.0</u>
15. Unit Reserve Shutdown Hours	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
16. Gross Thermal Energy Generated (MWH)	<u>2,543,723.0</u>	<u>10,131,635.0</u>	<u>10,131,635.0</u>
17. Gross Electrical Energy Generated (MWH)	<u>894,800.0</u>	<u>3,576,800.0</u>	<u>3,576,800.0</u>
18. Net Electrical Energy Generated (MWH)	<u>843,053.0</u>	<u>3,380,837.0</u>	<u>3,380,837.0</u>
19. Unit Service Factor	<u>100.0%</u>	<u>100.0%</u>	<u>100.0%</u>
20. Unit Availability Factor	<u>100.0%</u>	<u>100.0%</u>	<u>100.0%</u>
21. Unit Capacity Factor (Using MDC Net)	<u>95.9%</u>	<u>101.2%</u>	<u>101.2%</u>
22. Unit Capacity Factor (Using DER Net)	<u>92.2%</u>	<u>97.3%</u>	<u>97.3%</u>
23. Unit Forced Outage Rate	<u>0.0%</u>	<u>0.0%</u>	<u>0.0%</u>
24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each): <u>None</u>			

25. If Shutdown At End of Report Period, Estimated Date of Startup:
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 05/11/88
 COMPLETED BY T. J. Bloom
 TELEPHONE (602) 371-4187

MONTH: APRIL

DAY	AVERAGE DAILY POWER LEVEL
1	<u>1,216</u>
2	<u>1,183</u>
3	<u>1,150</u>
4	<u>1,242</u>
5	<u>1,267</u>
6	<u>1,267</u>
7	<u>1,262</u>
8	<u>1,258</u>
9	<u>1,262</u>
10	<u>1,267</u>
11	<u>1,267</u>
12	<u>1,262</u>
13	<u>1,254</u>
14	<u>1,267</u>
15	<u>1,254</u>
16	<u>1,262</u>

DAY	AVERAGE DAILY POWER LEVEL
17	<u>1,262</u>
18	<u>1,258</u>
19	<u>1,158</u>
20	<u>1,229</u>
21	<u>433</u>
22	<u>425</u>
23	<u>800</u>
24	<u>1,067</u>
25	<u>1,267</u>
26	<u>1,267</u>
27	<u>1,267</u>
28	<u>1,258</u>
29	<u>1,258</u>
30	<u>1,237</u>
31	<u></u>

REFUELING INFORMATION

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 05/11/88
COMPLETED BY T. J. Bloom
TELEPHONE (602) 371-4187

1. Scheduled date for next refueling shutdown.

03/03/89

2. Scheduled date for restart following refueling.

05/27/89

3. Will refueling or resumption of operation thereafter require a Technical Specification change or other license amendment?

To be determined

4. Scheduled date for submitting proposed licensing action and supporting information.

To be determined

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, new operating procedures.

To be determined

6. The number of fuel assemblies

a) In the core. 241

b) In the spent fuel storage pool. 0

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.

2007 (18 Months 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>05/11/88</u>
COMPLETED BY	<u>T. J. Bloom</u>
TELEPHONE	<u>(602) 371-4187</u>

APRIL 1988

04/01	0000	Reactor Power at 100%.
04/02	0210	Power Reduction to 89% for Control Element Assembly Surveillance Testing.
04/04	0210	Reactor Power at 100%.
04/15	1250	Reactor Power at 95% for Main Steam Safety Valve Setpoint Verification.
04/15	1620	Reactor Power at 100%.
04/18	2100	Power Reduction to approximately 60% in preparation for Feedwater Pump and Condenser Maintenance.
04/19	0625	Reactor Power returned to 100% following Notification of the Unit 1 Reactor Trip.
04/21	0323	Power Reduction to 40% for Feedwater Pump and Condenser Maintenance.
04/23	1140	Reactor Power at 70%.
04/24	1206	Reactor Power at 95%.
04/24	1400 (Est.)	Reactor Power at 100%.
04/30	0626	Reactor Power at 92% for Control Element Assembly Surveillance Testing.
04/30	1427	Reactor Power at 100%.
04/30	2400	Reactor Power at 100%.

SHUTDOWNS AND POWER REDUCTIONS

DOCKET NO. 50-530
UNIT NAME PVNGS-3
DATE 05/11/88
COMPLETED BY T. J. Bloom
TELEPHONE (602) 371-4187

No.	Date	Type ¹	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
2	04/18	S	N/A	B	5	N/A	N/A	N/A	Power Reduction to 60% in Preparation for Feedwater Pump and Condenser Maintenance.
3	04/21	S	N/A	B	5	N/A	N/A	N/A	Power Reduction for Feedwater Pump and Condenser Maintenance.

1

F-Forced
S-Scheduled

2

Reason:
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)

3

Method:
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)

4

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

5

Exhibit H-Same Source

