

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC ENERGY
AND LICENSING BOARD

In the Matter of)
)
WASHINGTON PUBLIC POWER) Docket No. 50-460-CPA
: SUPPLY SYSTEM)
)
(WPPSS Nuclear Project No. 1))

AFFIDAVIT OF EUGENE ROSOLIE
REGARDING THE CONSTRUCTION PERMIT EXTENSION FOR WNP-1

I, Eugene Rosolie, being first duly sworn, do depose and state as follows: I am Director of the Coalition For Safe Power (Coalition). As such I am personally familiar with the material facts of this case and other facts related to the deferral of construction of WNP-1. A statement of my education and professional qualification is attached as Attachment 1 to this affidavit. This affidavit addresses the causes of deferral of WNP-1 and the reasonableness of the requested extension.

1. As admitted by the Licensing Board in its Memorandum and Order dated March 25, 1983, the Coalition Amended Contention #2 states:

Petitioner contends that the Permittee's decision April 1982 to "defer" construction for two to five years, and subsequent cessation of construction at WNP-1, was dilatory. Such action was without "good cause" as required by 10 CFR 50.55(b). Moreover, the modified request for extension of completion date to 1991 does not constitute a "reasonable period of time" provided for in 10 CFR 50.55(b).

2. The NRC Staff and Applicant state that applicant's justification for extension of construction permit No. CPPR-134 to June 1, 1991 was beyond the control of Applicant and thus constitutes good cause as defined in Commission Order CL1-82-29 and ALAB-722, 17 NRC 1221;

3. NRC Staff states that the extension of the construction permit to June 1, 1991 is for a reasonable period of time;

4. I have performed a review of all documents filed by the Staff and the Applicant in this proceeding, including responses to Coalition interrogatories and the motions for summary disposition. I have also examined documents made public by the Northwest Power Planning Council (NWPPC), the Bonneville Power Administration (BPA), Natural Resources Defense Council (NRDC) and the Northwest Conservation Act Coalition (NCAC). These documents have been identified and made available to the Staff and Applicant at the offices of the Coalition;

5. I have attended meetings of the NWPPC at which the deferral of WNP-1 was discussed;

6. After reviewing the material facts it is my conclusion that Applicant was responsible for the deferral of WNP-1. The Applicant requested the recommendation from BPA and concurred in it;

7. The Applicant had other options in addition to seeking the requested extension to 1991. These options included the termination of the project, placing the project in mothball or a preservation state (as it did with its WNP-4 and 5 projects), and/or negotiated with the 30% owners of WNP-3 for earlier completion of WNP-1.

Given the level of completion of WNP-1 (63%) compared to WNP-3 (50%) this last option would have been the prudent action to take. Therefore, the requested extension was without valid purpose;

8. The Applicant's request for the extension came eight months after it decided to defer the plant;

9. The Applicant has been unable to issue any bonds for any of its project since May 1982. Since that time it has defaulted on bonds it issued to fund construction of WNP-4 and 5 and is currently in a position of being unable to issue any bonds. It is presently in the position of having its assets (WNP-1,2 and 3) attached by creditors. The Applicant has stated that completion of WNP-1 is tied to the ability to finance the plant. Given the above information it is my conclusion that the Applicant will never be able to finance completion of completion of WNP-1. Thus no good cause exists for extending the completion date to June, 1991;

10. The WPPSS Executive Board has not decided on a completion date and will not do so until October 1984. (Management Plan For Extended Construction Delay of WNP-1, June 29, 1982 at 1 and Comparison of Present WNP-1 Delay Plan with Alternatives, presented to Participants Review Board October 8, 1982 at 2; Attachments C and D to Coalition Response to Motions For Summary Disposition.);

11. The NWPPC has tied the completion of WNP-1 to the completion of WNP-3. According to NWPPC the most likely completion date for WNP-1 would be 1996. (NWPPC meeting November 4, 1983, Portland, Oregon.);

12. Therefore the completion date for WNP-1 is uncertain and no good cause exists for extending the completion date to June, 1991;

13. The Applicant stated in its January 11, 1983 letter to NRC:

The actual length of the delay will depend on regional energy demand considerations.

On August 17, 1983 the EPA issued its power forecast showing a decline in regional energy demand by 900 average megawatts over its 1982 forecast (Attachment B to Coalition Response to Motions For Summary Disposition);

14. Given this fact no need for WNP-1 exist and the requested extension to June, 1991 is unreasonable;

15. Due to the facts stated above it is my conclusion that good cause did not exist for the deferral of WNP-1, that such deferral was dilatory, that good cause does not exist to extend the construction permit and that the requested extension is for an unreasonable period of time.

Eugene Rosolie
Eugene Rosolie, Director
Coalition For Safe Power

SUBSCRIBED and sworn to before me this 13 day of December 1983.

Frances Lee Holsclaw

Notary Public
My commission expires: March 31, 1984

EUGENE ROSOLIE

PROFESSIONAL QUALIFICATIONS

I am Director of the Coalition for Safe Power. I have held that position since 1976. My responsibilities include oversight of the operation of the organization. Specifically I am responsible for overseeing litigation before the Nuclear Regulatory Commission, the Oregon Public Utility Commissioner and any other cases which may arise. I am also responsible for the financial matters of the organization.

As Director of the Coalition, I appear before federal, state and local government agencies to present the views of the organization. I also make numerous appearances before civic organizations.

I was a witness for the Coalition before the Oregon Public Utility Commissioner in UM-13 and as such was responsible for presenting testimony on the prudence of utility investments into the Skagit/Hanford Nuclear Projects.

I received a Bachelor of Science degree in Economics from Portland State University, Portland, Oregon.

MEMO ROUTE SLIP

Form AEC-95 (Rev. May 14, 1947) AECM 0240

See me about this.
Note and return.

For concurrence.
For signature.

For action.
For information.

TO (Name and unit)		INITIALS	REMARKS
<i>Ray Canale</i>		DATE	
			<i>As per our conversation</i>
TO (Name and unit)		INITIALS	REMARKS
		DATE	
TO (Name and unit)		INITIALS	REMARKS
		DATE	
FROM (Name and unit)		REMARKS	
<i>Allen Sears</i>		<i>- n4.??</i>	
PHONE NO.	DATE		
<i>7391</i>	<i>8/9/52</i>		

USE OTHER SIDE FOR ADDITIONAL REMARKS

Washington

LINE NO.	ITEM	PUBLIC UTILITY DISTRICT NO. 1 OF CHELAN (A)	PUBLIC UTILITY DISTRICT NO. 1 OF CHELAN (B)	CHENEY	FELENSHUNG	PUBLIC UTILITY DISTRICT NO. 1 OF FERRY COUNTY	PUBLIC UTILITY DISTRICT NO. 1 OF FRANKLIN COUNTY	PUBLIC UTILITY DISTRICT NO. 1 OF COWLETT COUNTY	PUBLIC UTILITY DISTRICT NO. 1 OF COWLETT COUNTY
		DECEMBER 31	DECEMBER 31	DECEMBER 31	DECEMBER 31	DECEMBER 31	DECEMBER 31	DECEMBER 31	DECEMBER 31

BALANCE SHEET

1	Assets and other debits:								
2	Electric utility plant	\$ 60 608 684	\$ 221 129 746	\$ 1 241 740	\$ 2 717 784	\$ 3 069 265	\$ 9 706 859	\$ 25 214 549	\$ 19 563 136
3	Accumulated provisions for depreciation and amortization	7 632 606	6 713 360	380 665	727 541	661 661	2 727 618	9 456 899	3 115 745
4	Net electric utility plant	52 976 078	214 416 386	861 075	1 990 243	2 407 604	6 979 241	15 757 650	16 447 391
5	Other utility plant								
6	Accumulated provisions for depreciation and amortization								
7	Net other utility plant								
8	Total utility plant	60 608 684	221 129 746	1 241 740	2 717 784	3 069 265	9 706 859	25 214 549	19 563 136
9	Accumulated provisions for depreciation and amortization	7 632 606	6 713 360	380 665	727 541	661 661	2 727 618	9 456 899	3 115 745
10	Net Total Utility Plant	52 976 078	214 416 386	861 075	1 990 243	2 407 604	6 979 241	15 757 650	16 447 391
11	Investment and fund accounts less reserves	14 262 663	67 909 404	18 063	200 247	150 660	291 478	1 141 653	1 289 070
12	Current and accrued assets less reserves	2 259 588	3 457 800	200 283	300 547	125 604	933 683	5 259 492	1 423 334
13	Deferred debits	4 805 534	23 880 545	1 404	7 611	31 716	343 508	546 927	1 003 819
14	Total Assets and Other Debits	74 304 063	309 664 225	1 081 365	2 508 649	2 571 651	8 547 910	22 746 157	20 753 574
15	Liabilities and other credits:								
16	Investment of municipality			136 412					
17	Constructive surplus or deficit								
18	Earned surplus	3 968 732	12 133 071	907 063	6 316 102	369 239	4 706 492	18 365 241	407 756
19	Total investment and surplus	3 968 732	12 133 071	1 038 474	6 316 102	369 239	4 706 492	18 365 241	407 756
20	Long-term debt	67 316 000	288 595 698		150 000	1 925 594	3 185 000	1 870 000	16 330 000
21	Current and accrued liabilities	1 679 152	8 686 860	41 619	100 161	46 864	268 519	1 471 590	1 015 816
22	Deferred credits	1 115 049	62 592			1 442	90 793	206 699	
23	Operating reserves			1 272				77 815	
24	Contributions in aid of construction	229 130	186 004		22 386	78 693	267 106	254 615	
25	Total Liabilities and Other Credits	74 304 063	309 664 225	1 081 365	2 508 649	2 371 651	8 547 910	22 746 157	20 753 574

INCOME ACCOUNT

26	Electric utility operating income:								
27	Operating revenues	\$ 4 669 941	\$ 17 469 093	\$ 406 440	\$ 855 001	\$ 378 544	\$ 2 282 081	\$ 7 670 144	\$ 1 277 029
28	Operation expenses	914 595	1 523 710	246 127	470 612	176 411	1 306 651	4 986 647	76 212
29	Maintenance expenses	312 731	320 465		24 389	22 654	65 532	459 695	
30	Depreciation and amortization	711 327	1 014 782	35 089	84 145	86 844	267 510	868 316	313 603
31	Taxes and tax equivalents	280 914	918 250	34 144	73 568	25 280	184 361	677 158	50 415
32	Total operating expenses	2 219 567	3 785 207	315 364	667 715	311 101	1 823 054	6 547 816	440 525
33	Net operating revenues	2 450 374	13 683 886	84 076	192 287	67 355	459 027	722 834	836 504
34	Income from electric plant leased to others								
35	Electric utility operating income	2 450 374	13 683 886	84 076	192 287	67 355	459 027	722 834	836 504
36	Other utility operating income								
37	Total utility operating income	2 450 374	13 683 886	84 076	192 287	67 355	459 027	722 834	836 504
38	Other income:								
39	Interest income	723 142	1 290 282	4 413	71 123	3 731	25 870	259 774	112 273
40	Income from investments	3 173 716	14 976 168	93 449	214 010	71 665	484 842	902 612	988 772
41	Income deductions:								
42	Interest on long-term debt	2 414 062	12 497 300		6 637	36 163	116 427	48 115	730 443
43	Interest charged to construction - Cr.								
44	Other income deductions	476 701		8 145	24 673	4 847	5 844	2 663	77 340
45	Total income deductions	2 890 763	12 505 301	8 145	30 249	42 657	127 271	50 764	807 183
46	Net income	729 594	2 002 167	8 145	161 770	24 688	331 576	239 689	149 299

ELECTRIC OPERATING REVENUES

47	Number of customers:								
48	Residential			1 607	4 690	1 204	7 139	23 715	
49	Commercial and industrial:								
50	Small (for commercial)			240	1 752	159	2 119	2 672	
51	Large (for industrial)			1	1	3	11	7	
52	Other ultimate consumers	2		0	2	3	11	7	
53	Total ultimate consumers	2		240	1 755	162	2 133	2 686	
54	Retail	2		240	1 755	162	2 133	2 686	
55	Total Customers	4		1 847	6 445	1 376	9 271	26 398	
56	Kilowatt-hour sales (thousands):								
57	Residential			24 247	64 456	13 191	114 178	433 475	
58	Commercial and industrial:								
59	Small (for commercial)			14 879	145 133	2 334	116 680	132 018	
60	Large (for industrial)			2 704	1 711	9 718	1 034 651	1 034 651	
61	Other ultimate consumers	214		1 361	2 250	106	4 502	11 058	
62	Total sales to ultimate consumers	214		16 442	153 110	11 255	122 310	143 571	
63	For resale	1 462 722	4 630 722	52 270	91 839	25 345	252 074	1 610 273	
64	Total Kilowatt-hour Sales	1 502 536	4 610 722	104 540	245 649	36 600	374 384	1 753 844	
65	Revenue:								
66	Residential			226 719	414 430	202 174	1 068 888	3 414 085	
67	Commercial and industrial:								
68	Small (for commercial)			144 658	1 381 959	49 863	967 517	1 307 893	
69	Large (for industrial)			18 484	1 711	117 613	108 844	2 636 245	
70	Other ultimate consumers	206		9 297	15 775	2 628	90 134	134 134	
71	Total revenues from ultimate consumers	206		170 441	1 599 115	172 210	1 166 575	3 986 272	
72	From sales for resale	4 630 722	17 394 691	402 158	814 172	174 501	2 213 733	14 234	
73	Total Revenue from Sales of Electricity	4 630 722	17 394 691	402 158	1 414 172	346 711	3 380 308	14 248 506	
74	Other electric revenues	30 443	74 202	4 232	40 829	6 045	28 458	156 271	
75	Total Electric Operating Revenues	4 669 941	17 469 093	406 440	855 001	378 544	2 282 081	7 670 144	1 277 029

ELECTRIC UTILITY PLANT

76	Electric plant in service:								
77	Investable plant:								
78	Production plant:								
79	Steam								
80	Hydroelectric	55 160 280	206 311 532					4 576 043	18 762 230
81	Internal combustion engine								
82	Total Production Plant	55 160 280	206 311 532					4 576 043	18 762 230
83	Transmission plant:								
84	Distribution plant	5 254 776	10 402 622						
85	General plant	151 536	2 315 441	1 241 740	4 137 174	2 091 099	7 398 246	15 056 181	941 505
86	Total Electric Plant in Service	60 566 592	219 029 595	1 241 740	4 137 174	2 091 099	7 398 246	15 056 181	941 505
87	Electric plant leased to others								
88	Construction work in progress	38 285	2 080 153		57 482	46 762	84 153	413 221	
89	Electric plant held for future use								
90	Electric plant acquisition adjustments								
91	Total Electric Utility Plant	60 608 684	221 129 746	1 241 740	4 194 656	2 137 861	7 482 400	15 469 382	941 505
92	Accumulated provisions for depreciation and amortization	7 632 606	6 713 360	380 665	727 541	661 661	2 727 618	9 456 899	3 115 745
93	Net Electric Utility Plant	52 976 078	214 416 386	861 075	3 467 115	1 476 199	4 754 782	15 757 650	16 447 391

MUNICIPAL ELECTRIC UTILITIES
(Having Annual Electric Revenues of \$250,000 or More)

ANNUAL REPORT

OF

Hanford Number One Electric Steam Generating Project

Washington Public Power Supply System
(Exact legal name of respondent)

TO THE

FEDERAL POWER COMMISSION

FOR THE

YEAR ENDED August 31 1971

ANNUAL REPORT TO THE
FEDERAL POWER COMMISSION
For the Year Ended August 31, 19 71

OF

Washington Public Power Supply System

(Exact legal name of respondent)

P.O. Box 6510, 132 Vista Way Kennewick, Washington 99336

(Address of principal business office at end of year)

GENERAL INSTRUCTIONS

An original and three conformed copies of this report form, completed in the best manner possible from available records and verified, shall be filed with the Federal Power Commission, Washington D.C., 20426, on or before the last day of the third month following the close of the calendar or other established fiscal year, by each municipality which is engaged in the generation, transmission or distribution of electricity, and whose annual electric operating revenues amount to \$250,000 or more.

One copy of the report should be retained by the respondent in its files. The conformed copies may be carbon copies. If the respondent publishes financial and operating statements of its utility department submit three copies of such statements with this report. If the respondent maintains a one line geographic map or schematic diagram of its principal lines and substations, one copy should be submitted with this report.

Account numbers and titles used in the schedules herein relate to account numbers and titles in the Uniform System of Accounts Prescribed for Public Utilities and Licensees (Class A and Class B). A copy of this system will be furnished upon request for the information and guidance of respondent in the preparation of this annual report.

EXCERPTS FROM THE LAW

(Federal Power Act, 16 U. S. C., 791a-825r)

"Sec. 3. The words defined in this section shall have the following meanings for purposes of this Act, to wit:
* * * "municipality" means a city, county, irrigation district, drainage district, or other political subdivision or agency of a State competent under the laws thereof to carry on the business of developing, transmitting, utilizing, or distributing power; * * *

"Sec. 311. In order to secure information necessary or appropriate as a basis for recommending legislation, the Commission is authorized and directed to conduct investigations regarding the generation, transmission, distribution, and sale of electric energy, however produced, throughout the United States and its possessions, whether or not otherwise subject to the jurisdiction of the Commission, including the generation, transmission, distribution, and sale of electric energy by any agency, authority, or instrumentality of the United States, or of any State or municipality or other political subdivision of a State. It shall, so far as is practicable, secure and keep current information regarding the ownership, operation, management, and control of all facilities for such generation, transmission, distribution, and sale; the capacity and output thereof and the relationship between the two; the cost of generation, transmission, and distribution; the rates, charges, and contracts in respect of the sale of electric energy and its service to residential, rural, commercial, and industrial consumers and other purchases by private and public agencies; * * *

GENERAL INFORMATION

1. Name, title, address and telephone number (including area code) of the person to be contacted concerning this report. Paul E. Cox, Controller - P.O. Box 6510 132 Vista Way
Kennewick, Washington 99336 509-783-6141
2. State the classes of utility and other services furnished by respondent during the year. Electrical energy production - wholesale only

BALANCE SHEET - End of Year

Line No.	Assets and Other Debits	Amount (a)	Liabilities and Other Credits	Amount (b)
1	UTILITY PLANT	\$	INVESTMENT OF MUNICIPALITY & SURPLUS	\$
2	Utility Plant	68,097,632	Investment of Municipality (c)	
3	Less Accumulated Provision for		Constructive Surplus or Deficit (d).....	
4	Deprec. & Amortization	10,836,377	Earned Surplus (e)	
5	Net Utility Plant	57,261,255	Total Investment & Surplus	
6	INVESTMENTS		LONG-TERM DEBT	
7	Nonutility Property (less Accum.		Bonds	78,145,000
8	prov. for Deprec. and		Advances from Municipality (f)	
9	Amortization \$		Other Long-Term Debt	
10	Advances to Municipality (a) ...	11,857,050	Total Long-Term Debt	78,145,000
11	Investments & Special Funds ...	11,857,050	CURRENT AND ACCRUED LIABILITIES	
12	Total Investments	11,857,050	Warrants Payable	20,705
13	CURRENT AND ACCRUED ASSETS		Notes and Accounts Payable	1,836,723
14	Cash & Working Funds	8,363,036	Payables to Municipality (g)	
15	Temp. Cash Investments		Customer Deposits	
16	Notes & Accts. Receivable		Taxes Accrued	71,466
17	(less Accum. Prov. for		Interest Accrued	
18	Uncoll. Accounts \$	1,980,013	Misc. Current & Accrued Liabilities ...	1,981,975
19	Receivables from Municipality (b).		Total Current & Accrued Liabilities.	3,910,869
20	Materials & Supplies	218,369	DEFERRED CREDITS	
21	Prepayments	253,060	Unamortized Premium on Debt	
22	Misc. Current & Accrued Assets..	2,563,605	Customer Advances for Construction	
23	Total Current & Accrued Assets.	13,378,083	Other Deferred Credits	12,612,248
24	DEFERRED DEBITS		Total Deferred Credits	12,612,248
25	Unamort. Debt Discount & Expense.		OPERATING RESERVES	
26	Extraordinary Property Losses ..		Property Insurance Reserve	
27	Miscellaneous Deferred Debits ..	12,192,652	Injuries and Damages Reserve	
28	Total Deferred Debits	12,192,652	Pensions and Benefits Reserve	
29	.....		Miscellaneous Operating Reserves	
30	.....		Total Operating Reserves	
31	.....		CONTRIBUTIONS IN AID OF CONSTRUCTION	
32	.....		Contributions in Aid of Construction ...	20,923
33	.....		
34	.....		
35	TOTAL ASSETS & OTHER DEBITS.	94,689,040	TOTAL LIABILITIES & OTHER CREDITS.	94,689,040

(Footnotes on page 4).

EXPENDITURES FOR CERTAIN CIVIC, POLITICAL AND RELATED ACTIVITIES

1. Report below all expenditures incurred by the respondent during the year for the purpose of influencing public opinion with respect to the election or appointment of public officials, referenda, legislation, or ordinances (either with respect to the possible adoption of new referenda, legislation or ordinances or repeal or modification of existing referenda, legislation or ordinances) or approval, modification, or revocation of franchises; or for the purpose of influencing the decisions of public officials, but shall not include such expenditures which are directly related to appearances before regulatory or other governmental bodies in connection with the reporting utility's existing or proposed operations.
2. Advertising expenditures included in this Schedule

shall be classified according to subheadings, as follows: (a) radio, television, and motion picture advertising; (b) newspaper, magazine, and pamphlet advertising; (c) letters or inserts in customers' bills; (d) inserts in reports to stockholders; (e) newspaper and magazine editorial services; and (f) other advertising.

3. Expenditures within the definition of Instruction (1), other than advertising shall be reported according to captions or descriptions, clearly indicating the nature and purpose of the activity.
4. If respondent has not incurred any expenditures contemplated by Instruction (1), so state.
5. For reporting years which begin during the calendar year 1964 only, minor amounts may be grouped by classes if the number of items so grouped is shown.

Line No.	Item (a)	Amount (b)
1		
2		
3		
4	NONE	
5		
6		
7		
8		
9		
10		

THE FOLLOWING EXPLANATIONS ARE FURNISHED FOR THE INFORMATION OF PERSONS NOT FAMILIAR WITH THE ACCOUNTS INDICATED.

- (a) **ADVANCES TO MUNICIPALITY**, This account is designed to include the amount of loans and advances made by the utility department to the municipality or its other departments, when such loans or advances are subject to repayment but not subject to current settlement.
- (b) **RECEIVABLES FROM MUNICIPALITY**, This account is designed to include all charges by the utility department against the municipality or its other departments which are subject to current settlement.
- (c) **INVESTMENT OF MUNICIPALITY**, This account is designed to include the investment of the municipality in its utility department, when such investment is not subject to cash settlement on demand or at a fixed future time. Include herein the cost of debt-free utility plant constructed or acquired by the municipality and made available for use of the utility department, cash transferred to the utility department for working capital, and other expenditures of an investment nature.
- (d) **CONSTRUCTIVE SURPLUS OR DEFICIT**, This account is designed to include amounts representing the exchange of services, supplies, etc., between the utility department and the municipality and its other departments without charge or at a reduced charge. Charges to this account would include utility and other services, supplies, etc., furnished by the utility department to the municipality or its other departments without charge, or the amount of the reduction if furnished at a reduced charge. Credits to the account would consist of services, supplies, office space, etc., furnished by the municipality to the utility department without charge or the amount of the reduction if furnished at a reduced charge.
- (e) **EARNED SURPLUS**, This account is designed to include the balance, either debit or credit, of appropriated or unappropriated surplus of the utility department arising from earnings.
- (f) **ADVANCES FROM MUNICIPALITY**, This account is designed to include the amount of loans and advances made by the municipality or its other departments to the utility department when such loans and advances are subject to repayment but not subject to current settlement.
- (g) **PAYABLES TO MUNICIPALITY**, This account is designed to include amounts payable by the utility department to the municipality or its other departments which are subject to current settlement.
- (h) **AUTHORIZED CASH DISTRIBUTION TO MUNICIPALITY**, This account is designed to include the cash distributions authorized to be made to the municipality out of the earned surplus of the utility department.
- (i) **EXTRAORDINARY INCOME (DEDUCTIONS)**, These accounts are designed to include those items related to transactions of a nonrecurring nature which are not typical or customary business activities of the utility and which would significantly distort the current year's net income if reported other than as extraordinary items.

SALES OF ELECTRICITY FOR RESALE

(ADP Code 041)

1. Report below the information called for concerning sales during year to other electric utilities, cooperatives, and to cities or other public authorities for distribution to ultimate consumers.
2. For each sale designate statistical classification in column (b) thus: FP, for firm power supplying total system requirements of customer or total requirements at a specific point of delivery; FP(P), for firm power supplementing customer's own generation or other purchases; O, for other power. Note: Include in the O classification sales in which the power delivered cannot be classified under either of the above definitions.
3. The number of kilowatt-hours sold should be the quantities shown on the bills rendered.

Line No.	Sales to (a)	Statistical Classification (b)	Point of Delivery (c)	Voltage (d)	Kilowatt-hours (e)	Annual Maximum Demand 1/ (f)	Revenues	
							Amount (g)	Per Kwh (h)
1	See Note (A) page 22						\$	Cents
2								
3								
4								
5								
6								
7								

OPERATION AND MAINTENANCE EXPENSES

(ADP Code 050)

Line No.	Item (a)	Operation (b)	Maintenance (c)	Total (d)
	Production expenses:	\$	\$	\$
11	Steam power generation	4,286,421	325,460	4,611,881
12	Nuclear power generation			
13	Hydraulic power generation			
14	Other power generation (specify)			
15	Purchased power			
16	Other production expenses			
	Total production expenses:	4,286,421	325,460	4,611,881
17	Transmission expenses	12,103	29,775	41,878
18	Distribution expenses			
19	Customer accounts penses			
20	Sales expenses	627,275	3,885	631,160
21	Administrative & general expenses			
22	TOTAL ELECT. OPERATION & MAINT. EXPENSES	4,925,799	359,120	5,284,919

PURCHASED POWER

(ADP Code 052)

1. Report below the information called for concerning power purchased for resale during the year.
2. The number of kilowatt-hours purchased should be the quantities shown on the bills rendered.
3. Interchange transactions should be reported net in this schedule whether the net is a receipt or a delivery by respondent. Indicate such transactions with an asterisk.

Line No.	Purchased From (a)	Point of Receipt (b)	Voltage (c)	Kilowatt-hours (d)	Annual Maximum Demand 1/ (e)	Cost	
						Amount (f)	Per Kwh (g)
31	NONE					\$	Cents
32							
33							
34							
35							
36							
37							
38							
39							

1/ Kw or kva (specify which).

UTILITY PLANT

Line No	Item (a)	Balance Beginning of Year (b)	Additions During Year (c)	Retirements During Year (d)	Transfers and Adjustments (e)	Balance End of Year (f)
	Electric Utility Plant:					
	Electric Plant in Service:					
1	Intangible Plant					
	Production Plants:					
2	Steam Production					
3	Nuclear Production					
4	Hydraulic Production					
5	Other Production (specify)					
6	Total Production Plant					
7	Transmission Plant					
8	Distribution Plant					
9	General Plant					
10	Total Electric Plant in Service					
11	Electric Plant Leased to Others					
12	Construction Work in Progress-Electric	68,060,559				68,097,632
13	Electric Plant Held for Future Use					
14	*Electric Plant Acquisition Adjustments					
15	Total Electric Plant	68,060,559				68,097,632
16	Plant of Other Utility Depts. (specify)					
17	.....				
18	Total Utility Plant	68,060,559				68,097,632

* This account is designed to include the difference between (a) the cost to the respondent utility of electric plant acquired as an operating unit or system by purchase and (b) the depreciated original cost, estimated if not known, of such property.

ACCUMULATED PROVISIONS FOR DEPRECIATION OF UTILITY PLANT

Line No	Name of Utility Department (a)	Balance Beginning of Year (b)	Depreciation Accruals for Year (c)	Net Charges for Plant Retired During Year (d)	Other Items Debit or Credit (Explain) (e)	Balance End of Year (f)
21	Electric	8,544,899	2,291,478			10,836,377
22	Other utility department (specify)					
23	.....				
24	.....				
25	Total	8,544,899	2,291,478			10,836,377

LONG-TERM DEBT

Line No.	Class and Series of Obligation (a)	Nominal Date of Issue (b)	Date of Maturity (c)	Outstanding per Balance Sheet (d)	Interest for Year	
					Rate (e)	Amount (f)
31	See attached Schedule					
32						
33						
34						
35						
36						
37						
38						
39						
40						

STATEMENT OF BONDED DEBT

HANFORD PROJECT ELECTRIC REVENUE BONDS, SERIES OF 1963

HANFORD PROJECT OF
WASHINGTON PUBLIC POWER SUPPLY SYSTEM

August 31, 1971

Redemption on September 1, of:	Balance of Principal	Interest Rate	Annual Interest		Annual Debt Requirement
			Fiscal Year	Amount	
1971	\$ 5,135,000	2.6	1971	\$ 2,403,905	\$ 7,538,905
1972	2,205,000	2.6	1972	2,270,395	4,475,395
1973	1,430,000	2.7	1973	2,213,065	3,643,065
1974	1,150,000	2.75	1974	2,174,455	3,324,455
1975	1,130,000	2.8	1975	2,142,830	3,272,830
1976	2,200,000	2.8	1976	2,111,190	4,311,190
1977	2,510,000	2.9	1977	2,049,590	4,559,590
1978	2,635,000	2.9	1978	1,976,800	4,611,800
1979	2,710,000	3.0	1979	1,900,385	4,610,385
1980	2,810,000	3.0	1980	1,819,085	4,629,085
1981	2,915,000	3.1	1981	1,734,785	4,649,785
1982	2,915,000	3.1	1982	1,644,420	4,559,420
1983	3,010,000	3.1	1983	1,554,055	4,564,055
1984	3,125,000	3.1	1984	1,460,745	4,585,745
1985	3,240,000	3.1	1985	1,363,870	4,603,870
1986	3,255,000	3.1	1986	1,263,450	4,518,430
1987	3,360,000	3.25	1987	1,162,525	4,522,525
1988	3,485,000	3.25	1988	1,053,325	4,538,325
1989	3,455,000	3.25	1989	940,062	4,395,062
1990	5,065,000	3.25	1990	827,775	5,892,775
1991	5,585,000	3.25	1991	663,162	6,248,162
1992	5,835,000	3.25	1992	481,650	6,316,650
1993	6,060,000	3.25	1993	292,012	6,352,012
1994	2,925,000	3.25	1994	95,062	3,020,062
	<u>\$78,145,000</u>				

TAXES, TAX EQUIVALENTS, CONTRIBUTIONS AND SERVICES DURING YEAR

- Report below the information called for respecting contributions and services to the municipality or other government units by the electric utility and, conversely, by those bodies to the electric utility. Do not include: (a) loans and advances which are subject to repayment or which bear interest, (b) payments in retirement of loans or advances previously made, (c) contributions by the municipality of funds or property which are of the nature of investment in the electric utility department.
- Enter in column (c) the total contributions made or received. Show in column (d) amounts included in column (c) which have been accounted for in the respondent's financial statements, i.e., balance sheet, income account, earned surplus, operating revenues,

- operating expenses, etc., and in column (e) show amounts which are not accounted for in respondent's financial statements. For those amounts not included in respondent's financial statements, explain in a footnote the reason for their omission.
- Taxes included in this schedule should be limited to those amounts chargeable to operations of the electric utility department. Exclude gasoline and other sales taxes which are included in the cost of transportation and materials.
- Tax equivalents included in this schedule should be amounts which are understood to constitute payments equivalent to or in lieu of amounts which would be paid if the electric utility department were subject to local tax levies.

Line No.	Item (a)	kwh 1,000's (b)	Amount of Contribution or Value of Services		
			Total (c)	Included in Financial Statements (d)	Not included in Financial Statements (e)
	By the Electric Utility to the Municipality or Other Government Units:		\$	\$	\$
1	Taxes	xxxxxxxxxxxx			
2	Tax equivalents	xxxxxxxxxxxx	24,877	24,877	
3	To general funds of the municipality	xxxxxxxxxxxx			
4	Other (specify*)	xxxxxxxxxxxx			
5	.....	xxxxxxxxxxxx			
6	Total contributions	xxxxxxxxxxxx	24,877	24,877	
7	Street and highway lighting				
8	Municipal pumping				
9	Other municipal light and power				
10	Other electric service				
11	Nonelectric service (specify*).....	xxxxxxxxxxxx			
12	.....	xxxxxxxxxxxx			
13	Total services				
14	Total contributions and services by the electric utility		24,877	24,877	
	By the Municipality or Other Government Units to the Electric Utility:				
15	For operations and property maintenance				
16	Other (specify*)				
17	.....			
18	Total contributions				
19	Office space				
20	Water				
21	Engineering service				
22	Legal service				
23	Other service (specify*)				
24	.....			
25	Total services				
26	Total contributions and services by the municipality				
27	Net Contributions and Services by the Electric Utility to the Municipality or Other Government Units (line 14 minus line 26)		24,877	24,877	

* Use insert sheet if necessary.

STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)

1. Large plants are steam plants of 25,000 kw. or more of installed capacity (name plate rating). Include gas-turbine and internal combustion plants of 10,000 kw. and more in this schedule. Include nuclear plants.
2. If any plant is leased or operated as a joint facility, indicate such facts by the use of asterisks and footnotes.
3. If net peak demand for 60 minutes is not available, give that which is available, specifying period.
4. If a group of employees attends more than one generating plant, report on line 11 the approximate average number of employees assignable to each plant.
5. If gas is used and purchased on a term basis, the B.t.u. content of the gas should be given and the quantity of fuel burned converted to M cu. ft. (14.73 psia at 60 °F).
6. Quantities of fuel burned (line 38) and average cost per unit of fuel burned (line 41) should be consistent with charges to expense accounts 501 and 547 (line 42) as shown on line 21.
7. If more than one fuel is burned in a plant furnish only the composite heat rate for all fuels burned.
8. The items under cost of plant represents accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production

Line No.	Item (a)	Plant Name (b)	(c)		
1	Kind of plant (steam, internal combustion, gas turbine or nuclear).....	Nuclear			
2	Type of plant construction (conventional, outdoor boiler, full outdoor, etc.).....	Generating only - Purchase			
3	Year originally constructed.....	Nuclear steam			
4	Year last unit was installed.....	1966	N/A		
5	Total installed capacity (maximum generator name plate ratings in kw.).....	1966			
6	Net peak demand on plant—kw. (60 minutes)...	642,000			
7	Plant hours connected to load.....	860,000			
8	Net continuous plant capability, kilowatts:	4,663.38			
9	(a) When not limited by condenser water....	860,000			
10	(b) When limited by condenser water.....	Not limited			
11	Average number of employees.....	41			
12	Net generation, exclusive of plant use.....	1,690,858,000			
13	Cost of plant:				
14	Land and land rights.....				
15	Structures and improvements.....	Plant not yet unitized			
16	Equipment costs.....				
17	Total cost.....	68,097,632			
18	Cost per kw. of installed capacity (Line 5).....	891			
19	Production expenses:				
20	Operation supervision and engineering.....	60,381			
21	Fuel.....				
22	Coolants and water (nuclear plants only)....	54,737			
23	Steam expenses.....				
24	Steam from other sources.....	3,712,331			
25	Steam transferred (Cr.).....				
26	Electric expenses.....	219,048			
27	Misc. steam power expenses (of nuclear)....	239,914			
28	Rents.....	10			
29	Maintenance supervision and engineering....	46,270			
30	Maintenance of structures.....	52,940			
31	Maintenance of boiler plant (or reactor plant)...	73,898			
32	Maintenance of electric plant.....	143,170			
33	Maintenance of misc. steam plant (or nuclear)...	9,182			
34	Total production expenses.....	4,611,881			
35	Expenses per net kwh. (Mills—2 places)....	2.73			
36	Fuel: Kind.....		Coal	Gas	Oil
37	Unit: (Coal—tons of 2,000 lb.) (Oil—barrels of 42 gals.) (Gas—M cu. ft.) (Nuclear, indicate).....				
38	Quantity (units) of fuel burned.....	The System purchases excess steam from the U. S. Atomic Energy Commission New Production Reactor. This reactor is used for the production of weapons grade plutonium. The fueling costs are classified.			
39	Average heat content of fuel burned (B.t.u. per lb. of coal, per gal. of oil, or per cu. ft. of gas)...				
40	Average cost of fuel per unit, as delivered f.o.b. plant during year.....				
41	Average cost of fuel per unit burned.....				
42	Avg. cost of fuel burned per million B.t.u.				
43	Avg. cost of fuel burned per kwh. net gen....				
44	Average B.t.u. per kwh. net generation.....				

STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants) (Continued)

expenses do not include Purchased Power, System Control and Load Dispatching, and Other Expenses classified as "Other Power Supply Expenses."

9. For I.C. and G.T. plants report Operating Expenses, Acc'ts. Nos. 548 and 549 on line 26 "Electric Expenses," and Maintenance Acc'ts. Nos. 553 and 554 on line 32 "Maintenance of Electric Plant." Indicate plants designed for peak load service. Designate automatically operated plants.

10. If any plant is equipped with combinations of steam, hydro, internal combustion or gas turbine equipment, each should be reported as a separate plant. However, if a gas turbine unit functions in a com-

bined cycle operation with a conventional steam unit, the gas turbine should be included with the steam plant.

11. If the respondent operates a nuclear power generating plant append: (a) a brief explanatory statement concerning accounting for the cost of power generated including any attribution of excess costs to research and development expenses; (b) a brief explanation of the fuel accounting specifying the accounting methods and types of cost units used with respect to the various components of the fuel cost, and (c) such additional information as may be informative concerning the type of plant, kind of fuel used, and other physical and operating characteristics of the plant.

(d)			(e)			(f)			Line No
N/A			N/A			N/A			1
									2
									3
									4
									5
									6
									7
									8
									9
									10
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27
									28
									29
									30
									31
									32
									33
									34
									35
Cool	Gas	Oil	Cool	Gas	Oil	Cool	Gas	Oil	36
									37
									38
									39
									40
									41
									42
									43
									44

HYDROELECTRIC GENERATING PLANT STATISTICS (Large Plants)

1. Large plants are hydro plants of 10,000 kw. or more of installed capacity (name plate ratings).

3. If net peak demand for 60 minutes is not available, give that which is available, specifying period.

2. If any plant is leased, operated under a license from the Federal Power Commission, or operated as a joint facility, indicate such facts by the use of asterisks and footnotes. If licensed project give project number.

4. If a group of employees attends more than one generating plant, report on line 11 the approximate average number of employees assignable to each plant.

FPC Licensed Project No. and Plant Name:		(b)	(c)
Line No.	Item (a)		
1	Kind of plant (run-of-river or storage).....		
2	Type of plant construction (conventional or outdoor).....		
3	Year originally constructed.....	N/A	N/A
4	Year last unit was installed.....		
5	Total installed capacity (generator name plate ratings in kw.).....		
6	Net peak demand on plant—kilowatts (60 minutes).....		
7	Plant hours connected to load.....		
8	Net plant capability, kilowatts:		
9	(a) Under the most favorable oper. conditions		
10	(b) Under the most adverse oper. conditions		
11	Average number of employees.....		
12	Net generation, exclusive of plant use.....		
13	Cost of plant:		
14	Land and land rights.....		
15	Structures and improvements.....		
16	Reservoirs, dams, and waterways.....		
17	Equipment costs.....		
18	Roads, railroads, and bridges.....		
19	Total cost.....		
20	Cost per kw. of installed capacity (Line 5).....		
21	Production expenses:		
22	Operation supervision and engineering.....		
23	Water for power.....		
24	Hydraulic expenses.....		
25	Electric expenses.....		
26	Misc. hydraulic power generation expenses.....		
27	Rents.....		
28	Maintenance supervision and engineering.....		
29	Maintenance of structures.....		
30	Maintenance of reservoirs, dams, and waterways.....		
31	Maintenance of electric plant.....		
32	Maintenance of misc. hydraulic plant.....		
33	Total production expenses.....		
34	Expenses per net kwh. (Mills—2 places).....		

HYDROELECTRIC GENERATING PLANT STATISTICS (Large Plants) (Continued)

5. The items under cost of plant represent accounts or combinations of accounts prescribed by the Uniform System of Accounts. Production expenses do not include Purchased Power, System Control and Load Dispatching, and Other Ex-

penses classified as "Other Power Supply Expenses."
6. If any plant is equipped with combinations of steam, hydro, internal combustion engine or gas turbine equipment, each should be reported as a separate plant.

(d)	(e)	(f)	Line No.
			1
			2
			3
			4
N/A	N/A	N/A	5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
			16
			17
			18
			19
			20
			21
			22
			23
			24
			25
			26
			27
			28
			29
			30
			31
			32
			33
			34

STEAM-ELECTRIC GENERATING PLANT STATISTICS (Large Plants)

Average Annual Heat Rates and Corresponding Net Kwh Output for Most Efficient Generating Units

1. Report only the most efficient generating units (not to exceed 10 in number) which were operated at annual capacity factors of 50 percent or higher. List only unit type installations, i.e., single boiler serving one turbine-generator. It is not necessary to report single unit plants in this schedule. Do not include non-condensing or automatic extraction-type turbine units operated for processing steam and electric power generation.

2. Report annual system heat rate for total conventional steam-power generation and corresponding net generation (Line 11).

3. All heat rates on this page and also on page 8 and 9 should be computed on the basis of total fuel burned including burner lighting and banking fuel.

Line No.	Plant Name (a)	Unit No. (b)	MW* (c)	B.t.u. Per Net Kwh. (d)	Net Generation Million Kwh. (e)	Kind of Fuel (f)
1	Hanford No. 1	One	463,000	14,278	820	Nuclear
2	Hanford No. 1	Two	463,000	14,211	871	Nuclear
3						
4						
5						
6						
7						
8						
9						
10						
Total System Steam Plants						
11			926,000	28,489	1,691	

*Generator rating at maximum hydrogen pressure.

Net Generation—Kwh:

†Annual Unit Capacity Factor=

Unit KW. Capacity (as included in plant total—line 5, pg. 8 & 9) x 8,760 hours

GENERATING PLANT STATISTICS (Small Plants)

1. Small generating plants are steam plants of less than 25,000 kw.; internal combustion and gas turbine-plants, conventional hydro plants and pumped storage plants of less than 10,000 kw. installed capacity (name plate rating).

2. Designate any plant leased from others, operated under a license from the Federal Power Commission, or op-

erated as a joint facility, and give a concise statement of the facts in a footnote. If licensed project give project number in footnote.

3. List plants appropriately under subheadings for steam, hydro, nuclear, internal combustion and gas turbine plants. For nuclear, see instruction 10, page 432a.

4. If net peak demand for 60 minutes is not available,

give that which is available, specifying period.

5. If any plant is equipped with combinations of steam, hydro, internal combustion or gas turbine equipment, each should be reported as a separate plant. However, if the exhaust heat from the gas turbine is utilized in a steam turbine regenerative feed water cycle, or for preheated combustion air in a boiler, report as one plant.

Line No.	Name of Plant (a)	Year Orig. Const. (b)	Installed Capacity-Name Plate Rating-KW (c)	Net Peak Demand KW (60 Min.) (d)	Net Generation Excluding Plant Use (e)	Cost of Plant (f)	Plant Cost per KW Inst. Capacity (g)	Production Expenses			Kind of Fuel (k)	Fuel Cost Cents per Million B.t.u. (l)
								Operation Exc'l. Fuel (h)	Fuel (i)	Maintenance (j)		
1	N/A											
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												

STEAM-ELECTRIC GENERATING PLANTS

1. Include in this schedule steam-electric plants of 25,000 kw. (name plate rating) or more of installed capacity.
2. Report the information called for concerning generating plants and equipment at end of year. Show unit type installation, boiler and turbine-generator, on same line.
3. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.
4. Designate any generating plant or portion thereof for

which the respondent is not the sole owner. If such property is leased from another company give name of lessor, date and term of lease, and annual rent. For any generating plant, other than a leased plant or portion thereof for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output, expenses or revenues, and how

Line No.	Name of Plant	Location of Plant	BOILERS				
			Number and Year Installed	Kind of Fuel and Method of Firing	Rated Pressure psig.	Rated Steam Temperature*	Rated Max. Continuous M lbs. Steam per Hour
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Hanford No. 1	Benton County Wash.	This owned by the Atomic Energy Commission. The steam is purchased from them.				
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							

Note reference:

*Indicate reheat boilers thusly, 1050/1000

STEAM-ELECTRIC GENERATING PLANTS (Continued)

expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

5. Designate any generating plant or portion thereof leased to another company and give name of lessee, date and term of lease and annual rent and how determined. Specify whether lessee is an associated company.

6. Designate any plant or equipment owned, not operated,

and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

7. Include in this schedule gas-turbines operated in a combined cycle with a conventional steam unit with its associated steam unit.

TURBINE-GENERATORS**													Line No.
Year Installed	TURBINES				GENERATORS						Plant Capacity, Maximum Generator Name Plate Rating††††		
	Max. Rating Kilowatt †††††	Type†	Steam Pressure at Throttle psig. †††††	R.P.M.	Name Plate Rating in Kilowatts		Hydrogen Pressure ††		Power Factor	Voltage K.v.†††			
					At Minimum Hydrogen Pressure	At Maximum Hydrogen Pressure †††††	Min. (o)	Max. (p)					
(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)		
1966	430,000	TC	125	1800	421,000	463,000	30	60	97.5	22 kv	430,000	1	
1966	430,000	TC	125	1800	421,000	463,000	30	60	97.5	22 kv	430,000	2	
												3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	
												11	
												12	
												13	
												14	
												15	
												16	
												17	
												18	
												19	
												20	
												21	
												22	
												23	
												24	
												25	
												26	
												27	
												28	
												29	
												30	
												31	
												32	
												33	

Note references:

** Report cross-compound turbine-generator units on two lines— H.P. section and L.P. section.

† Designate units with shaft connected boiler feed pumps. Give capacity rating of pumps in terms of full load requirements.

†† Indicate tandem-compound (T.C.); cross-compound (C.C.); single casing (S.C.); topping unit (T.); and noncondensing (N.C.). Show back pressure.

††† Designate air cooled generators.

†††† If other than 3 phase, 60 cycle, indicate other characteristic.

††††† Should agree with column (n).

†††††† Include both ratings for the boiler and the turbine-generator of dual-rated installations.

HYDROELECTRIC GENERATING PLANTS

- 1. Include in this schedule Hydro plants of 10,000 kw. (name plate rating) or more of installed capacity.
- 2. Report the information called for concerning generating plants and equipment at end of year. Show associated prime movers and generators on the same line.
- 3. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.

- 4. Designate any plant or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating plant, other than a leased plant, or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement ex-

Line No.	Name of Plant (a)	Location (b)	Name of Stream (c)	WATER WHEELS			
				Attended or Unattended (d)	Type of Unit* (e)	Year Installed (f)	Gross Static Head With Pond Full (g)
1	N/A						
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

*Horizontal or vertical. Also indicate type of runner—Francis (F), fixed propeller (FP), automatically adjustable propeller (AP), Impulse (I). Designate reversible type units by appropriate footnote.

HYDROELECTRIC GENERATING PLANTS (Continued)

plaining the arrangement and giving particulars as to such matters as percent ownership by respondent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

5. Designate any plant or portion thereof leased to another company and give name of lessee, date and term of lease and

annual rent and how determined. Specify whether lessee is an associated company.

6. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

WATER WHEELS—Continued			GENERATORS						Total Installed Generating Capacity in Kilowatts (name plate ratings)	Line No.
Design Head (h)	R.P.M. (i)	Maximum hp. Capacity of Unit at Design Head (j)	Year Installed (k)	Voltage (l)	Phase (m)	Frequency or d.c. (n)	Name Plate Rating of Unit in Kilowatts (o)	Number of Units in Plant (p)		
N/A									1	
									2	
									3	
									4	
									5	
									6	
									7	
									8	
									9	
									10	
									11	
									12	
									13	
									14	
									15	
									16	
									17	
									18	
									19	
									20	
									21	
									22	
									23	
									24	
									25	
									26	
									27	
									28	
									29	
									30	
									31	
									32	
									33	
									34	
									35	
									36	
									37	
									38	
									39	
									40	

INTERNAL-COMBUSTION ENGINE AND GAS-TURBINE GENERATING PLANTS

1. Include in this schedule internal-combustion engine and gas-turbine plants of 10,000 kilowatts and more.
2. Report the information called for concerning plants and equipment at end of year. Show associated prime movers and generators on same line.
3. Exclude from this schedule, plant, the book cost of which is included in Account 121, Nonutility Property.

4. Designate any plants or portion thereof for which the respondent is not the sole owner. If such property is leased from another company, give name of lessor, date and term of lease, and annual rent. For any generating plant other than a leased plant or portion thereof, for which the respondent is not the sole owner but which the respondent operates or shares in the operation of, furnish a succinct statement explaining the arrangement and giving particulars as to such

Line No.	Name of Plant (a)	Location of Plant (b)	PRIME MOVERS			
			Internal-Combustion or Gas-Turbine (c)	Year Installed (d)	Cycle* (e)	Belted or Direct Connected (f)
1	N/A					
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						

Note references:

- *Indicate basic cycle for gas-turbine: open or closed.
- Indicate basic cycle for internal-combustion, 2 or 4.

INTERNAL-COMBUSTION ENGINE AND GAS-TURBINE GENERATING PLANTS (Continued)

matters as percent of ownership by respondent, name of co-owner, basis of sharing output, expenses, or revenues, and how expenses and/or revenues are accounted for and accounts affected. Specify if lessor, co-owner, or other party is an associated company.

5. Designate any plant or portion thereof leased to another company and give name of lessee, date and term of lease and

annual rent and how determined. Specify whether lessee is an associated company.

6. Designate any plant or equipment owned, not operated, and not leased to another company. If such plant or equipment was not operated within the past year, explain whether it has been retired in the books of account or what disposition of the plant or equipment and its book cost are contemplated.

PRIME MOVERS Continued	GENERATORS						Total Installed Generating Capacity in Kilowatts (name plate ratings) (n)	Line No
	Rated hp. of Unit (g)	Year Installed (h)	Voltage (i)	Phase (j)	Frequency or d.c. (k)	Name Plate Rating of Unit in Kilowatts (l)		
N/A								1
								2
								3
								4
								5
								6
								7
								8
								9
								10
								11
								12
								13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30
							31	
							32	
							33	
							34	
							35	
							36	
							37	
							38	
							39	
							40	

CHANGES MADE OR SCHEDULED TO BE MADE IN GENERATING PLANT CAPACITIES

Give below the information called for concerning changes in electric generating plant capacities during the year.

A. Generating Plants or Units Dismantled, Removed from Service, Sold, or Leased to Others During Year

Line No.	Name of plant (a)	Disposition* (b)	INSTALLED CAPACITY—KILOWATTS			Date** (f)	If sold or leased to another give name and address of purchaser or lessee (g)
			Hydro (c)	Steam (d)	Other (e)		
1	NONE						
2							
3							
4							
5							
6							
7							

*State whether dismantled, removed from service, sold, or leased to another. Plants removed from service include those not maintained for regular or emergency service. **Date dismantled, removed from service, sold, or leased to another. Designate complete plants as such.

B. Generating Units Scheduled for or Undergoing Major Modifications

Line No.	Name of plant (a)	Character of Modification (b)	Installed Plant Capacity After Modification— Kilowatts (c)	ESTIMATED DATES OF CONSTRUCTION	
				Start (d)	Completion (e)
1	NONE				
2					
3					
4					
5					
6					
7					

C. New Generating Plants Scheduled for or Under Construction

Line No.	Plant Name and location (a)	Type* (b)	INSTALLED CAPACITY KILOWATTS		ESTIMATED DATES OF CONSTRUCTION	
			Initial (c)	Ultimate (d)	Start (e)	Completion (f)
1	Middle Snake-Middle reach of the Snake River-Application jointly with PNPC Hanford No. 2	Hydro	1,470,000	3,430,000	1975	1979
2		Nuclear	1,100,000	1,100,000	1972	1977
3						
4						
5						
6						
7						

D. New Units in Existing Plants Scheduled for or Under Construction

Line No.	Plant Name and location (a)	Type* (b)	Unit No. (c)	Size of Unit Kilowatts (d)	ESTIMATED DATES OF CONSTRUCTION	
					Start (e)	Completion (f)
1	NONE					
2						
3						
4						
5						
6						
7						

* Hydro, pumped storage, steam, internal-combustion, gas-turbine, nuclear, etc.

TRANSMISSION LINE STATISTICS

1. Report below information requested concerning each transmission line. Show highest voltages first. If more space is required use an insert page with column headings as shown in this schedule.
2. The type of supporting structure reported in column (d) should indicate whether (1) single pole, wood or steel; (2) H-frame, wood or steel poles; (3) tower; or (4) underground construction.
3. Designate any transmission line or portion thereof for which the respondent is not the sole owner. If such property is leased from another give name of lessor.
4. Designate any transmission line leased to another and give name of lessee.

Line No.	DESIGNATION		Voltage (c)	Type of Supporting Structure (d)	LENGTH (POLE MILES)		Number of Circuits (g)	Size of Conductor and Material (h)
	From (a)	To (b)			On Structures of Line Designated (e)	On Structures of Another Line (f)		
1	Hanford No. 1	BPA Vantage substation	500 kv	steel	24.9 mi.	N/A	1	Bundle Conductor Chucker (2) ACSR
2								
3								
4								
5								
6								
7								
8								
9								
10								

TRANSMISSION LINES ADDED DURING THE YEAR

1. Report below the information called for concerning transmission lines added during the year. It is not necessary to report minor revisions of lines. If more space is required use an insert page with column headings as shown in this schedule.
2. Show each transmission line separately. If construction is underground indicate by footnote. If actual costs of completed construction are not readily available for reporting at lines 32 through 35 it is requested that estimated final completion costs be shown. Designate if estimated amounts are reported. Include costs of Clearing Land and Rights-of-way, and Roads and Trails, at line 32 with appropriate footnote, and costs of Underground Conduit at line 33.
3. If design voltage differs from operating voltage indicate such fact by footnotes; also where line is other than 60 cycle, 3 phase indicate such other characteristic.

Line No.	NONE				
21	Line designation:	xxxx	xxxx	xxxx	xxxx
22	From				
23	To				
24	Line length in miles	xxxx	xxxx	xxxx	xxxx
25	Supporting structure:				
26	Type	xxxx	xxxx	xxxx	xxxx
27	Average number per mile				
28	Circuits per structure:	xxxx	xxxx	xxxx	xxxx
29	Present				
30	Ultimate	xxxx	xxxx	xxxx	xxxx
31	Conductorst:				
32	Size	xxxx	xxxx	xxxx	xxxx
33	Material				
34	Configuration and spacing				
35	Voltage - kv (operating)				
	Line Cost (omit cents):				
	Land and land rights	\$	\$	\$	\$
	Poles, towers, and fixtures ..				
	Conductors and devices				
	Total				

ELECTRIC ENERGY ACCOUNT

Report below the information called for concerning the disposition of electric energy generated, purchased, and interchanged during the year.

Line No.	Item (a)	Kilowatt-hours (b)
SOURCES OF ENERGY		
Generation (excluding station use):		
1	Steam	1,694,526,000
2	Nuclear	
3	Hydro	
4	Other (specify)	
5	Total generation	1,694,526,000
6	Purchases	
7		
8	*Interchanges _____	
9	In (gross) _____ Kwh	
10	Out (gross) _____ Kwh	
11	net	
12	Received _____ Kwh	
13	Delivered _____ Kwh	
14	Net	
15	*Transmission for/by others (wheeling) _____	
16	Received _____ Kwh	
17	Delivered _____ Kwh	
18	Net	
19	Total	1,694,526,000
DISPOSITION OF ENERGY		
20	Sales to ultimate consumers (including interdepartmental sales)	1,690,858,000
21	Sales for resale	
22	Energy furnished without charge	
23	Energy used by the utility (excluding station use):	
24	Electric department only (use by other departments should be accounted for as sales)	
25	Energy losses: Transmission and conversion losses	3,668,000
26	Distribution losses	
27	Unaccounted for losses	
28	Total energy losses	
29	(..... percent of total energy generated, purchased and interchanged)	
30	TOTAL	1,687,190,000
*Submit an explanatory statement of any interchange, transmission, or wheeling transaction, giving name of other party and amount of compensation for the service to or by the respondent.		

- (A) The System delivers all of its power output from Hanford Number One to the Bonneville Power Administration's transmission grid at Vantage, Washington. BPA then distributes this power according to its requirements. The System issues monthly billings representing one-twelfth of an annual budget based upon cost recovery to some 76 participants who are BPA customers. These participants receive a credit in a like amount of their System bill on their BPA bill. For a more detailed explanation refer to the Exchange Agreement submitted with the 1967 Annual Report.

ATTESTATION

The foregoing report must be attested by an authorized officer of the reporting utility.

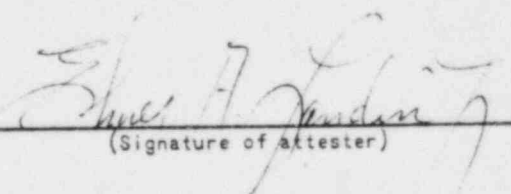
Elmer A. Landin, Jr. certifies
(insert here the name of the attester)

that he is Treasurer
(insert here the official title of the attester)

of Washington Public Power Supply System
(insert here the exact legal title or name of respondent)

that he has examined this report; that to the best of his knowledge, information, and belief, all statements of fact contained in the said report are true and the said report is a correct statement of the business and affairs of the above-named respondent in respect to each and every matter set forth therein during the period -

September 1, 1970, to and including August 31,
1971.


(Signature of attester)

Tri-City Herald
New a-plant estimates cloud WPPSS plans

11-30-72

By MARILYN DRUBY
 Herald Staff Writer

New cost estimates for two Washington Public Power Supply System nuclear power plants — nearly double the costs predicted two years ago — have sparked top-level discussions and questions about the plans.

The estimate for the replacement of N reactor in a new Hanford No. 1 plant, formerly figured at \$346.1 million, now is estimated at \$60 million, the Washington Public Power Supply System reports.

And for its third nuclear power plant, the site to be recommended in January, costs are expected at \$723,989,000 instead of \$455,300,000.

The resulting increase in costs to participating Pacific Northwest utilities would have a major effect on wholesale power rates charged by the Bonneville Power Administration, WPPSS Managing Director Jack Stein noted.

The executive committee of the Public Power Council has scheduled a closed meeting today in Portland to review the issues its technical committee has been studying. The PPC voted last spring to have WPPSS plan the two new power sources for the Pacific Northwest.

"There is concern," Stein commented when asked if he'd received any feedback from utilities about the rising cost estimates. "The real question is whether all the Northwest utilities will support the program under the revised costs."

BPA is sending out notices this week and by Jan. 1 WPPSS should have "the definitive indication" of whether the 104 utilities will support plans, Stein said.

WPPSS is wondering whether the large utilities, such as Seattle City Light, will approve the increased costs, Stein said, but he noted the agency recently announced it had dropped plans to build a nuclear plant at Kikut Island near Anacortes and there's opposition to raising Ross Dam for more power on the Skagit River.

WPPSS is sending copies this week of draft environmental impact statements on the Hanford No. 1 plans, seeking comments by Feb. 1 from various state and federal agencies particularly on plans for direct discharge of reactor coolant water into the Columbia.

"It's not cut and dried by any means," Stein said of the chances of seeing a new Hanford No. 1 built. The original aim of construction at the N reactor site was to save money by utilizing turbines and other present equipment, including \$10 million in water intake and discharge systems.

"It's part of the regional hydro-thermal program through 1981. If this doesn't go, I don't know if any of it's going to go," he added.

United Engineers and Constructors Inc. of Philadelphia, consultants to BPA, did both sets of estimates, Stein said, but some factors weren't predicted or were mistakenly left out.

Sales tax of about \$19,600 on a 1,233,000 kilowatt plant wasn't included. And the base cost of that size plant is estimated at \$323.9 million whereas planners originally made cost estimates of \$212.5 million for a 1,126,000-kilowatt plant. That's now figured at \$301.9 million.

Interest during construction more than doubled, to \$91,894,000. Cost of the first fuel load of uranium was figured at \$34.8 million. Engineers had left it out because private power plants don't forecast costs in the same way, Stein said.

Officials didn't realize transmission lines and a railroad spur at Hanford would have to be realigned west of the present N reactor complex, Stein noted.

"They did the best they could

at the time," he added of the consultants. Other newly estimated requirements were \$8 million for flood protection and costs of a main power transformer and construction to connect with the present WPPSS steam plant.

Bechtel architect-engineers recently announced that inflationary and "normal escalation" for larger nuclear power plants are running at 8 per cent yearly, Stein noted.

"But evolutionary costs are 7 per cent a year and those two must be compounded to 15 per cent a year," Stein said.

In evolutionary costs he included stiffening Atomic Energy Commission requirements for better earthquake resistance, "near zero"

radiation release, new mechanical engineering and electrical engineering codes and designs for waste handling within the plant which will include conversion of all nuclear wastes into solids.

He also noted in the predictions of labor costs, estimates rose from \$8.33 per kilowatt hour to \$10.35 estimates rose

from 5.85 man hours per kilowatt at \$8.33 per hour to 8.8 man hours per kilowatt at \$10.35 per hour.

The only alternative to nuclear power planning would be a coal-fired steam plant, but coal in the Pacific Northwest isn't readily available and the pollution control requirements are equally stiff, he noted.

PO-12-11 (WPPSS)