

INT OF THE INTERIOR

10:99074149

TN 110 Mailing List 3



Filing Code 3500

Date Issued 6/70

no.llo

Bureau of Land Management U.S. DEPARTMENT OF THE INTERIOR

Subject: Coal, Value

Selected References:

- 1. Federal Power Commission, <u>Steam-Electric Plant Construction</u> <u>Cost and Annual Production Expenses</u>. Supplements published yearly, GPO. Typical contents of this publication are shown in Attachment 1-A. Typical construction cost and production expense figures are shown in Attachment 1-B. <u>NOTE</u>: The cost of coal at the plant is given in Attachment 1-B. By obtaining railroad tariffs and other transportation expenses, it is possible to work back to the value of the coal at the mine. (1967, cost \$1.25).
- 2. National Coal Association, <u>Steam-Electric Plant Factors</u>. Published yearly by the National Coal Association, 1130 17th Street, N. W., Washington, D. C. 20036. A typical table of contents is shown in Attachment 2-A. A typical table, giving cost data is shown in Attachment 2-B. See the note above. Also contains a table showing new and expansion plans over the next seven years, Attachment 2-C (1967, cost \$5.00).
- 3. Bureau of Mines, <u>Minerals Yearbook</u>, Volume III, Area Reports: Domestic. Published yearly, GPO. Gives average values of coal statewide by type of mining: underground or strip.

Please send any additional references on this subject or other minerals subjects to DSC (D-310). If the complete article or publication is needed, DSC (D-310) will attempt to obtain a copy or a loan for you.

FOR ADDITIONAL COPIES WRITE TO DIRECTOR, PORTLAND SERVICE CENTER, BOX 3861, PORTLAND, ORE., 97208

# Attachment 1-A

. .

#### CONTENTS

•

	Page
PREFACE	v
INTRODUCTION	vi
Highlights	vi
THE PLANT DATA SHEETS	vii
Sources of Information	vii
Changes in Format of Data Sheets	vii
Characteristics of New Generating Equipment	vii
Plant Investment Costs	vii
Annual Fixed Charges Not Included	viii
Rerating of Turbine-Generators	viii
CONVENTIONAL FOSSIL-FUELED PLANT DESIGN AND CONSTRUCTION FEATURES	ix
Major Advances in Conventional Steam-Electric Power Generation	ix
Environmental Factors	ix
Unit Size	x
Mine-Mouth Plants	x
Thermal Peaking Canacity	xi
NUCLEAR STEAM-ELECTRIC PLANTS	xii
ANNUAL PRODUCTION EXPENSES	xiv
Operation and Maintenance Exclusive of Fuel	xiv
FOSSIL FUEL_KINDS COSTS ON ANTITIES BURNED HEATING VALUES AND UTILIZATION EFFICIENCIES	XY
Fuel Costs	XX
Fuel Concumption	A V
Western Cool and Lignite Consumption	vvi
Heating Values of Fossil Fuels	xvi xvi
Netional Average Heat Bate for Fassil Evaled Steam Electric Plants	xvi
Sentem Uset Potes	xvi xvi
Plant Heat Potes	
Init Heat Dates	· AVII
Table 1 Convertional Resail Evolad Steam Floating Plants, Capacities and Annual	XVIII
Table 1Conventional Fossil-Fueled Steam-Diecult Generating Trants, Capacities and Annual Wilconste Hour Droduction for the Total Floatric Power Industry 1028 1047 1057 1065 and	
Knowatt-nour Froduction for the fotal Electric Fower industry, 1956, 1947, 1957, 1965, and	viv
Table 9 Selected Conventional Facil Fueled Steam Flactric Conventing Plants, Conventions	
Table 2.—Selected Conventional Fossi-Fueled Steam-Dectric Generating Flants, Capacities	
and Annual Kilowatt-Hour Production—Steam-Electric Flant Cost Dook Series, 1958, 1947, 1957,	
1965, and 1966	XX :
Table 3.—Fossil-Fueled Steam-Electric Plants Initially Reported in This Report	
Table 4.—Steam-Electric Generating Capacity Retirements, 1948 to 1966, Inclusive	XXIII
Table 5.—Steam-Electric Plants Deleted. (Last Reported in 1965 Supplement)	XXIV
Table 6.—Fifteen Largest Steam-Electric Plants in the United States	XXV
Table 7.—Large Unit Projects—New Plants and Additions to Existing Plants:	
Fossil-Fueled Steam—500 Megawatts and Larger	XXV1
Nuclear—300 Megawatts and Larger	XXVII
Table 8.—National Average Annual Heat Kates for Fossil-Fueled Steam-Electric Plants: Total	
Electric Power Industry, 1930 to 1966, Inclusive	XXX ·
Table 9.—System (Co.) Heat Rates Under 10,000 Btu per Net Kilowatt-Hour—1966	XXXI
Table 10.—Fossil-Fueled Steam-Electric Plants With Average Annual Heat Kates Below 9,500	
Btu Per Net Kilowatt-Hour—1966	xxxn
Table 11.—Fossil-Fueled Steam-Electric Generating Units With Best Annual Heat Rates—1966	XXXIV
POWER SUPPLY AREA MAP	XXXVII
LIST OF PLANTS BY STATES	xxxviii
DATA SHEETS FOR 526 CONVENTIONAL PLANTS	1-153
DATA SHEETS FOR FIVE NUCLEAR PLANTS	154-159
TECHNICAL AND DESCRIPTIVE REFERENCES	160-162
ALPHABETICAL INDEX OF PLANTS	163-173

# Attachment 2-A

### TABLE OF CONTENTS

	. <u>Page</u>
Foreword	v
Comparison of Steam-Electric Utility Fuel Consumption and Unit Costs, 1966 vs 1965	
Explanation of Tables 1, 2 and 3	1-2
Table 1 - Steam-Electric Plant Capacity, Net Generation, Fuel Consumption, and Unit Costs, 1966	1-2
Table 2 - Perional and State design of many states	3-44
Table 2 - Regional and State Summary of Table 1	45-46
Table 3 - 1961-66 Comparative Summary of Fuel Consumption and Unit Costs	47
Explanation of Tables 4, 5, 6 and 7	47
	48
Units Planned or Under Construction, 1967-73	10.00
Table 5 - Regional and State Summers of Table (	49-60
Table 4	61-62
Table 6 - Nuclear Power Projects (10MW Electric and Larger) In Operation, Under Construction, Design or Consideration, 1957-1973	63-64
Table 7 - The Other Plants or Units Planned or Under Construction, 1967-73: Hydro-Electric, Internal Combustion and Gas Turbino	
Trends in the Efficiency of D 1 Willing and the out of the Difference of D 1 Willing and the D 1 Wil	65-80
Plants, 1956-65	81-98
Table 8 - The Heat Rate: Average Number of Btula Required to Deck	<sup>1</sup> 01-00
One Kilowatt-Hour, by Regions, 1965 vs 1956	82
Figure 1 - U.S. Steam-Electric Utility Heat Rate Experience, 1956-65	83
Table 8A - Trends in the Efficiency of Coal Utilization at Steam-Floctric	00
Plants, for Selected Years 1956-65	85
Table 8B - Trends in the Efficiency of Oil Utilization at Steam-Electric	
Plants, for Selected Years 1956-65	86
Table 8C - Trends in the Efficiency of Gas Utilization at Steam-Electric	
Trants, for Selected lears 1956-65	87
Trends in Steam-Electric Utility Fuel Consumption and Costs, 1966 vs 1957	89-99
Table 9 - Trends in Steam-Electric Utility Fuel Consumption and Cost	
Experience, 1966 vs 1957	91-92
Chart 1 - Steam-Electric Utility Fuel Consumption Trends, Coal, Oil, and Gas, by Regions, 1956-66	93-94
Chart 2 - Steam-Electric Utility Fuel Cost Trends Cost of and C	JJ-J4
Regions, 1956-66	95-96
Index of Regional, State and Company Data	101-104

# A Hachment 1

#### STEAM-ELECTRIC PLANT CONSTRUCTION COST AND ANNUAL PRODUCTION EXPENSES

1966

.

.

Name of	fUtility	UTAH POWE	R & LIG	HT COMPANY						
Line No.	Name of Plant Region and Power Supply Area	Carbon Secti VII-	County on I 41	Carbon Sectic VII-	County n II 41			Naug VII	hton -41	
	Location of Plant	Castle Ga	te,U <b>ta</b> h	Castle Ga	te,Utah			Kemmerer, Wyo.		
1 2 3 4	Installed Generating Capacity - Max. Gen. Nameplate Rating - Megawatts Net Generation, Million Kilowatt-hours Plant Factor, Percent, Based on Nameplate Rating (Line 1) Peak Demand on Plant, Megawatta (60 Minutes) (Net)		75.0 314.6 48		113.6 645.6 65 107.0			1 1,0 1	63.2 31.5 72 70.0	
5	Net Continuous Plant Capability, Megawatts When not Limited by Condenser Water When I brited by Condenser Water		66.0		100.0			160.0.		
8 9 10	COST OF PLANT (Thousands of Dollars) Land and Land Rights Structures and Improvements Equipment		70 2,635 9,270	1	174 1,878 1,571		5			
12	Total Cost	1	1,975	1	3,623			26	,555	
13	Cost per Kilowatt of Installed Capacity (Line 12/Line 1) \$		160		120		Thur		103	
14	PRODUCTION EXPENSES	\$1000	Kwh	\$1000	Mills Kwh	\$1000	Kwh	\$1000	Mills Kwh	
15 16	Operation Supervision and Engineering Steam Expenses	12 56	.04	12 55	.02 .09			24 70	.02 .07	
17 18 19 20	Steam from Other Sources Steam Transferred (Cr.) Electric Expenses Misc. Steam Power Expenses	75	.24	78 28	.12			83 43	.08	
21 22 22	Rents Maintenano Eventricio and Engineering	-	-	-	-			12		
23 24 25	Maintenance Supervision and Engineering Maintenance of Structures Maintenance of Boiler Plant	15 64	.05	4 80	.01 .12			7	.01	
26 27 28	Maintenance of Liectric Plant Maintenance of Misc. Steam Plant	16	.08	15	.02			27 29	.03	
29	Total, Exclusive of Fuel	301	.96	1,526	2.36			2.052	1.99	
31	Total Production Expenses	1,157	3.68	1,836	2.84			2,484	2.41	
32	FUEL USED	Quentity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
33 34 35	Coal burned, 1000 tons of 2000 lbs. and Cost per ton \$ Btu per Pound and Cost per Million Btu ¢ Cost per Ton, as delivered, f.o.b. Plant during reported year \$	145.5	22.95 5.64	12,575	5.72 22.74 5.64		•	9,400	3.73 19.85 3.72	
36 37 38	Oil burned, 1000 bbls. of 42 gala. and Cost per bbl.       \$         Btu per Gallon and Cost per Million Btu       \$         Cost per Barrel, as delivered, f.o.b. Plant during reported year       \$									
39 40 41 42 43	Gas burned, Million cu. ft., and Cost per 1000 cu. ft. ¢ Btu per Cubic Foot and Cost per Million Btu ¢									
14										
44	Average Btu per Kilowatt-hour Net Generation	11,	693	10,	384			10,	003	
45 46 47 48	Total Number of Units (Exclusive of House Service Units) Number of Reheat Units Reheat Units — Total Megawatts Condensing Water Supply	Price Riv	er &	1 113 Price Ri 29	.6 .ver &	a		16 Hams Fork	1 3.2 River	
50 51	Plant Bullding - Type of Construction (Conv., Semi-O.D., O.D.) Initial Year of Plant Operation	Outdoor 1954	Boiler	Outdoor 1957	Boiler			Outdoor 196	Boiler	

ADDITIONS, RETIREMENTS AND CHANGES IN 1966

		GENERATORS				TURE	BINES			BOILERS												
No. of	Max.	Coolant	DE	Voltage	Max.		Throttle		RPM		1000 lbs. per hr. Max. Cont.		Temp. <sup>o</sup> F		Fuel & Methods of Firing							
Units	Rating MW	(Hydrogen or Other)	rer) KV Rating MW PSI Temp.°F No. Max. Cont. Rating MW PSI	Max. Cont.	Max. Cont. Pating	Max. Cont. Rating	Max. Cont. Rating	Max. Cont.	Max. Cont.	Max. Cont.		Max. Cont.	Max. Cont.	PSI	PSI	PSI	Initial	Reheat	(Pulv. Coal, Cyclone Furnace, Stoker, Gas, Oil)	Year		
							Initial	Reheat														
	1											ĺ										
					1																	
			1																			
						1																

FPC Form 1159 Rev (4-67)

## Attachment 2-B

Table 1. Steam-Electric Plant Capacity, Net Generation, Fuel Consumption, and Unit Costs, 1966

in high

A. Cart

-		· ·		1		FUEL	c	DAL	C 0	AL		0 1	L			GAS		co	ST PER MI	LLION BTU	(CENTS)			T.
H	CITY.	CONSTNA	DI ANT	GENERATING	NET	OESIGNEO FOR: C-COAL	1	COST PER	COST PER			COST PER	BARREL	B.T.II		COST 14	BTU	F.O.B.				CONS	LENT OF	IN
H	City	COMPART	, PLAN	CAPACITY (Thous. Kw)*	(Million Kwh)*	P - PULV'D. O - OIL	(Thous.)	F.O.B.	TON AS	BTU PER LB.	BARRELS (Thous.)	F.O.8.	AS	PER	CUBIC	BURNEO	PER CUBIC	PLANT*		AS BURNEO	- <u></u>	EN .	B T.U.	E
F	· · · · · · · · · · · · · · · · · · ·		1	1	(2)	G - GAS (3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	F00T	COAL (15)	COAL	01L	GAS	COAL	OIL GAS	0.
M	DUNTAIN - Cont'd				<b>V</b> - <b>V</b>	(-)		(-)					. ,		( )	(14)	(,	(13)	(10)	(0)	(10)	(19)	(20) (21)	
1	1 Alamosa	Public Service Co. of Colorado	Alamosa <u>2</u>	19.5	67.1	C(S)0C	-	\$ -	\$ -	-	-	\$ -	\$ -	-	1,390	na	762	7 -	_	_	na	_	- 100	
	2 Denver 3 Cameo	r r	Arapahoe Cameo	250.5 75.0	867.0 339.1	CC COG	215 120	4.87 5.30	5.18 5.51	9,973 10,508	.2	- 5.18	- 5.18	-	7,621	18.3 17.0	842 854	24.4	26.0	-	21.7	40	- 60	2
	4 Deover 5 Grand Junctio	" "	Cherokee Crand Junction 14	420.5 16.3	2,460.2	CC C(S)C	870	5.05	5.17	11,173	-	-	-	-	7,412	18.3	842	22.6	23.1	-	21.7	76	- 24	4
	6 Boulder		Valmont	273.8	1,101.8	сс	520	4.57	4.73	10,328	-	-	-	-	1,683	21.7	826	22 1	22 9	Ē	26.3	-		
	7 Denver 8 Montrose	Western Colorado Power Company	Zuni Jim 8ullock 2	115.3 10.0	460.8 ′94.5	COC C(P)O	105 56	4.61 na	4.76	9,503 12,500 7	19	2.47	2.47	148,001	5,193	18.4	824	24.3	25.0	39.7	21.9	31	2 67	7
1	9 Durango 0 Somerset	<b>1</b>	Durango 2 Oliver 2	5.0 3.0	10.5 9.7	C(P)OC C(S)	6 8	na na	na na	$10,681\overline{4}$ 10,681\overline{4}	-	-	-	-	30	na	1,050	4 na	18.8 na	-	- na	100 80	- 20	8
1	1 Canon City	Westero Power & Gas Company	- W. N. Clark	38.5	320.5	C (S)	198	na	4.30	10,681 4	-	_	-		Ē		-	na	20.1.4	•	-	100		10
1	2 Pueblo 3 Rocky Ford	п П	Pueblo Rocky Ford	30.0 7.5	. 140.7 29.6	C(SP)C OC	8 -	na -	6.15	10,681 4	-	- na	-	150,000 /	2,224	19.2	1,050	$\frac{4}{4}$ na	$28.8\frac{4}{4}$	-	18.3 4	7	- 93	11
1	4 Colo.Springs 5 Colo.Springs	Colorado Springs Dept. Utilities	Martin Drake 7 Ceorge Birdsall 7	75.0 62.5	327.0 266.9	C(P)OG OG	6 -	na -	na -	10,400	0.4	na	na	146,800	3,680	na	975	na	na	44.6 <u>4</u> na	22.6 <u>4</u> na	3	1 99 - 97	13
1	6 Fort Collins	Fort Collins Light & Power Dept.	Fort Collins	11.0	27.5	C(S)0G	13	na	<u>na</u>	9,800	-	-			214	na	1 050	-	-	na	na	-	1 99	15
1	7 Lemar 8 Trinidad	Lamar Light & Power Department Trioidad Elec. Power & Lt. Dept.	Lamar Trinidad	9.0 7.5	39.8 23.4	0C C(S)0C	- 9	- 5.76	5.76-	11.000	-0.1	4.26	4.26	-	676	21.5	1,031	11a - 26 2	na -	-	20.9	53	- 47	16
1	9 Walsenburg 0 Montrose	Walsenburg Utilitiea Colorado-Ute Elec. Assn., Inc.	Walsen <u>6e</u> Nucla 7	11.0 38.0	24.1 122.9	C(S) C	18 72	5.25 na	4.94	11,500 12,121	-	-	-	-	-	-	-	22.8	20.2		-	100	- 60	18
2	1 Hayden 2 Stemboat Spr	n rings r	Hayden 7 McCregor 14	163.2 5.3	1,098.0	OG C	493 -	na -	D.E.	10,360	1	na -	na	130,000		-	-	па	na na	- na	-	100		20
		TOTAL COLORADO		1,647.4	7,831.1		2,717	4.89	4.98	10,681	25	2.51	. 2.52	147,195	35,913	18.8	- 886	- 22.9	- 23.3	- 40.6	- 21.6	- 65	- 35	22
	MONTANA									•							·····							
	1 Glendive	Montana-Dakota Utilities Company	Gleodive 2	7.0	(0.2)	OG C(T)C	-	¥ -		-	-	-	· _	-	1	na	1,050 4	_	-	-	32.8	-	- 100	1
	3 Miles City	H Mantena Brazza Garmana	Miles City 2	2.0	(0.1)	00	-	-	2.71	6,650 -	-	-	-	-	15 30	34.0 na	1,042 1,050 <u>4</u>	20.0	20.4	1	32.6 32.6	100	 - 1 <b>0</b> 0	2
	- Diffings		FIANK BILD	128.0	622 0	00	-	2 66	-	-	82	1.16	1.16	153,095	2,930	23.7	1,176	-	-	18.0	20.1	- 1	.3 87	4
+		TOTAL HONTANA	v		0.52.9			2.00	2.71	6,650	82	1.16	1.16	153,095	2,976	23.8	1,174	20.0	20.4	18.0	20.2	52	6 42	
	NEVADA	Nevada Power Company	Clark	190 3	516.6	c	_	_																
	2 Las Vegas	n n	Sunrise	81.6	487.0	C C	302	- 7 57	7 70-		-	-	-	-	5,394 4,505	39.6 39.6	1,082 1,082	-	-	-	36.6 36.6	-	- 100 - 100	1
	4 Sparks	Sierra Pacific Power Company	Tracy	133.0	578.6	OG	-	-	-	-	0.4	3.69	4.15	137,863	6,431	40.0	- 1,057	29.6	29.8	71.7 66.4	- 37.8	100		3
		TOTAL NEVADA		518.5	2,360.7		302	7.57	7.70	12,785	3	4.10	4.15	139,356	16,330	39.8	1,072	29.6	29.8	70.9	37.1	31	- 69	
1	NEW MEXICO							•																
	1 Shiprock 2 Lordsburg	Arizona Public Service Company Community Public Service Co.	Four Corners Lordsburg	633.6 29.5	3,547.7 128.7	CC C	2,011	2.41	2,50	8,968	-	-	-	-	278	38.4	1,100	13.4	14.0	-	34.9	99	- 1	1
	3 El Paso 4 Albuquerque	El Paso Electric Company Public Service Co. of New Mexico	Rio Crande Persoo	235.0 125.0	462.8 361.5	C OC	-	-	-	-	3 13	2.42	2.42	151,379	5,125	29.4	1,000	-	-	38.2	33.3	-	- 100 - 100	2
	5 Albuquerque	n	Prager	35.0	(0.2)	OG	-		-	-	•	-	-	-	18	25.7	1,061		-	-	24 <b>.0</b> 24.2	-	2 98 - 100	4
	6 Albuquerque 7 Santa Fe	n	Reeves Saota Fe	175.0 12.0	1,172.3	OG OC	-	-	-	-	20	1.52	1.52	151,140	11,758	25.5	1,061	-	-	24.0	24.0	-	1 99	6
	8 Carlsbad 9 Hobbs	Southwestern Public Service Co.	Carlabad Cunningham	46.8 265.4	151.6 1,359.2	OG C	-	1	-	-	1	-	-	-	2,071	18.9	1,000	-	-	-	24.6 18.9	-	- 100 - 100	7
1	10 Roswell	n	Roswell	26.7	85.2	OC	-	-	-	-	-	-	-	-	1,263	20.1	1,008	1	-	-	18.9	-	- 100 - 100	9 10
	11 Farmington 12 Gallup	Farmington Elec. Utility System Gallup Elec. Light & Power System	Animas <u>6b</u> Camerco	36.0 16.1 6b	109.2 14 -	C CG	1	-	-	-	-	-	-	-	1,325	16.0	1,122	-	- '	-	14.3	-	- 100	11
	13 Rates	Ratoo Public Service Company Plains Elec. Gen. & Trans. Coon.	Raton <u>6b</u> Algodooes	12.0	22.8 107.6	C OC	18	4.16	4.16	11,128	1	- 112	-	-	-	-	1 000	18.7	18.7	-	37.9	100	- 100	12 13
		TOTAL NEW MEXICO		1,709.0	7,509.0		2,029	2.43	2.51	8,987	37	1.61	1.61	150 257	43 075	23.4	1,000	12 5	-	oa of s	na	-	- 100	14
L	1												1.01			23.4	1,036	13.5	14.0	25.5	22.6	45	- 55	

. •

							SCHEDULED	YEAR OF COMPLE	TION AND KILOWAT	CAPACITY OF N	EW UNITS			
			N - NEW F - EXISTINC	190	57	1	968	1	969	19	70	1971	1972	1973
	COMPANY	PLANT	PLANT	NAMEPLATE 1/	DEPENDABLE 2/	NAMEPLATE 1.	DEPENDABLE 2/	NAMEPLATE 1	DEPENDABLE 2/	NAMEPLATE 1/	DEPENDABLE 2/	CAPACITY 3/	CAPACITY 3/	CAPACITY
						)								
ARIZONA	These Flee, Light & Power Co.	Irvington No.4	Е	173,300	165,000	-	-	-	~	-	-	-	-	-
1. S.E. of Tucson	Tucaou des, Erect, stant e tant i			173,300	165,000	-	-	-	· -	-	-	-	-	-
TOTAL ARIZONA											·	•		
COLORADO	- to the sectors part of Public Utils	Martin Drake No.6	Е	-	-	75,000	76,000	-	-	-	-		-	_
<ol> <li>Colorado Springs</li> <li>North Denver</li> </ol>	Public Service Company of Colorado	Cherokee No.4	E	-	-	350,000	350,000	-	-	-	-	-	-	-
TOTAL COLORADO				-	-	425,000	426,000	-	-	-	-	-	-	-
MONTANA 1. Billings	Montana Power Company	Frank Bird No.2	ΎΕ	-	-	163,000	180,000	-	-	-	-	-	-	-
TOTAL MONTANA				-	-	163,000	180,000	-	-		-	-	-	-
NEVADA	Normale Berton Company	Reid Cardner No.2	E	-	-	113,636	113,636	-	-	-	-	-	-	-
1. Moapa 2. Yearington	Sierra Pacific Power Company	Ft. Churchill	N N		-	-	-	-		755,000	755,000 3/	755,000		-
3. Mohave	WEST <u>10</u> /	Monave No.1 G 2		_		223,636	223,636	-	-	755.000	755.000	755,000		
TOTAL NEVADA														
WEW NETICO						-	_	755,000	755.000 3/	755 000	755 000 3/			~
1. Shiprock	Arizona Public Service Company	Four Corners No.4 & Lordsburg No.4	E E	22,000	22,000	-	-	-		-	-	1	-	-
2. Lordsburg 3. West of Hobbe	Wew Mexico Electric Service Corp.	Maddox No.1	N	115,085	109,000 6		-		-	- 7d/	-	-		-
4. N.W. of New Mexico	Plains Electric Gen. & Trans. Coop.	Unassigned		137 085	131.000	_		755,000	755 000	755 000	755 000			
TOTAL NEW MEXICO														
					_	-	-	_	_	7e/				
1. Gillette	Black Hills Power & Light Company	Wyodak Dave Johnston No.5	E		-	-	-	-	-	250,000	250,000 3/	-	-	
2. Glenrocks 3. Kemerer	Utah Power & Light Company	Naughton No.2	E	-	-	200,000	220,000	-	-	-	-	-	-	-
TOTAL WYOMING				-	-	200,000	220,000	-	-	250,000	250,000	-	-	-
		· · ·												
PACIFIC														
CALIFORNIA	Tenerial Trrigstion District	El Centro No.4	Е	-	2/2.000	75,000	75,000 <u>3</u> /	-	-	-	-		-	-
2. Seal Beach	Los Angeles Dept. of Water & Power	Haynes No.6	E ۶.7 E	700,000	735,000	700,000	735,000	-	-	1	1	1		
3. Hoss Landing	Pacific Gas & Electric Company Southern California Edison Company	Redondo No.7 & 8	E	450,000	450,000	-	-	-	-	-	-	-	-	-
4. Redondo peaca	Southern Cartering the			450,000	4,00,000	775 000	-	-	-	-	-	-	-	-
TOTAL CALIFORNIA	•			1,943,000	1,978,000		810,000	-	-	-	-	-	-	-
	•													
WASHINGTON 1. Centralia	Pacific Power & Light Company	Unassigned	N	-	•		-	-	-	-	•	- ,	-	500,000 <u>1</u>
TOTAL WASHINGTON	1			-	-	-	-	-	-	-	-	-	-	500,000
· UNASSIGNED	12/	Unassigned	N	-	•	. *	• •	-	-	-	-	505,000	-	

Table 4 Conventional Steam-Electric Generating Plants or Units Planned or Under Construction, 1967-73

1/ Maximum generetor nameplate rating which appears on manufacturer's nameplate. 2/ Dependable capacity of unit is the capacity ratings as nameplate or index diring the period 1967. 1/ Additional capacity being considerated for installation to meet estimated to the period 1967. 1/ Additional capacity being considerated for installation to meet estimated to the period being considerated for installation to meet estimated to the period being considerated for installation to meet estimated to the period being considerated for installation to meet estimated to the period being considerated for installation to meet estimated to diring the period 1967-1970: 7a/75,000 Kw; 7b/ 105,000 Kw; 7c/ 33,000 Kw; 7d/ 100,000 Kw; 7e/ 16,500 Kw. 8/ Dependable taing for svailable - capacity approximated for purposes of this study. 9/ Nameplate rating not available - capacity approximated for purposes of this study. 9/ Nameplate rating not available - capacity approximated for purposes of this study. 10/ Western Energy Supply and Transmission Associates (West) is comprised of ten companies.
by the Aluminum Compeny of America, unit four owned jointly with Southern Indiana Cas and Electric Company. 6/ Unit placed in 1/ Additional capacity of 500,000 Kw scheduled for installation after 1973. 12/ State and region unannounced as of April 1, 1967.

Sources: Federal Power Commission Report form 12E (dats available as of April 1, 1967); FPC Annual Report form No.1, The Edison Electric Institute and news releases.

