

Power

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PLAINTIFF'S EXHIBIT

GE-110

Modern Plant Yearbook Issue

MODERN PLANT SURVEY 37

New plants of 1955: Design trends, tabulated data on more than 400 steam and hydro units on order, being built, just completed

POWER'S MODERNIZATION AWARDS 59

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Source book of power-field equipment and services: over 700 products, 1800 firms

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New Bulletins: Handy guide to literature and catalogs available at drop of a card

Power presents its

1955

modern plant survey



These pages bring you the most data available anywhere on design features of steam and hydro units planned, under construction and starting operation. Because of the way we must compile facts, the survey does not include all current programs, nor does it consist only of current construction. Let us tell you how the job's done and point out listing limitations—so you can use the survey effectively.

- **HOW WE DO THE JOB.** As a continuing service, POWER'S editors assemble news of installations planned or ordered. We send questionnaires to individual companies asking for project details. The replies go into the tables, compiled at yearly intervals—last survey appeared in the Mid-September 1954 issue.

- **ITS LIMITATIONS.** In the nature of things, you can see these tabulations can't be complete. Nor can published lists correspond exactly in point of time with actual installations or announcements of them. Data may appear in the tables well before construction starts, or if engineering is delayed, may not appear until long after a project is announced. Revised listings duplicated from previous surveys are so marked.

- **HOW TO USE SURVEY.** Being representative of design and construction in progress in 1954 and early 1955, the following tables give useful information on general trends. These trends appear on the pages preceding the tables.

- **HOW NOT TO USE IT.** Remember, these are not complete lists, only extensive samples. Don't use survey facts to get total figures on capacities, sales, etc., or to make comparisons where incompleteness distorts results.

MID-SEPTEMBER 1955

1955 Design Survey: Typical Industrial

Compiled by H. P. Kalien, Assistant Editor		First operation, new units	Operating steam pressure, psig	Operating steam temperature, F	BOILERS					Furnace volume, 1000 cu ft	Heat release, 1000 Btu per cu ft per hr	Economizer surface per boiler, 1000 sq ft	Air-heater surface per boiler, 1000 sq ft	Air-heater type	Dust-collector type	Firing	
Company & Location	Consulting Engineers				Number	Capacity, each, 1000 lb per hr	Manufacturer	Boiler & WW surface, 1000 sq ft	Superheater surface, 1000 sq ft								
600 PSI AND ABOVE																	
Elze Mining Co., Taconite Harbor, Minn.	Anaconda Copper Mining Co.	1957	1500	1900	2	550	CE	16.0	36.7	44	17.3	20.3	56.9	Re	Me	P	
Reserve Mining Co., Silver Bay, Minn.	Sargent & Lundy	7-55	1325	1005	1	450	BW	3.3	23.3	—	17.3	8.5	129.6	Re	Me	P	
M&O Paper Co. Int'l Falls, Minn.	J. F. Pritchard	9-56	1290	900	1	240	CE	17.2	4.8	1.4	22.4	5.4	28.6	Re	Me	P	
Cherritt Gordon Mines Ltd., Ft. Saskatchewan, Alberta	Chemical Constr. Corp.	5-54	900	750	2	150	CE	13.1	1.0	6.3	31.3	—	22.7	Tu	—	G	
Boston Naval Shipyard, Boston, Mass.	Chas. T. Main Inc.	9-54	875	825	1	150	RS	18.3	—	10.3	17.7	—	25.5	Re	Me	P	
Kalamazoo Vegetable Parchment Co., Parchment, Mich.	United Engrs. & Constructors	11-55	360	325	1	200	CE	21.3	5.0	15.3	15.4	—	31.7	Re	Me	P	
Bowaters Southern Paper Corp., Duthoun, Tenn.	United Engrs. & Constructors	3-55	350	300	1	250	BW	28.0	14.0	22.3	21.4	—	38.2	Re	—	O, G	
Remondis Metals Co., Canton, Ohio	J. Road & Assoc.	3-53	850	820	2	225	FW	21.6	1.6	8.6	33.7	—	34.5	Re	—	G	
Michigan Edison Co., Battle Creek, Mich.	J. Road & Assoc.	9-55	750	750	1	140	BW	17.1	4.0	7.4	25.8	9.0	—	—	Me	SS(17)	
E. Paso Natural Gas Co., Bloomfield, N. Mex.	Albert Kahn Assoc.	10-53	675	600	3	17	VO	—	—	—	—	—	—	—	—	G	
Chevrolet, Detroit Forge Div., SMC, Detroit, Mich.	Bechtel Corp.	9-55	350	325	1	150	RS	19	2.3	10.5	20.8	—	20.3	Re	Me	P	
Riverside Cement Co., Oro Grande, Calif.	Bechtel Corp.	1-55	350	825	2	20	CE	7.0	1.2	—	—	—	2.9	—	Me	E	
Shell Oil Co., Anacortes, Wash.	Bechtel Corp.	11-55	350	750	1	175	CE	16.0	—	7.2	39.2	13.7	—	—	Me	O, G	
Barrett Div., Allied Chem. & Dye Corp., Phila., Pa.	Girdler Co.	2-54	525 ¹⁴	500 ¹⁴	2	230	BW	19.3	1.2	8.8	31.9	3.3	—	—	—	O, G	
Copper River Pulp Chem. Assn., Lawrence, Kansas	Girdler Co.	7-54	525	750	2	150	VO	15.3	—	—	—	—	—	—	—	O, G	
Milwaukee County Inst., Milwaukee, Wis.	Pfeifer & Shultz	10-55	525	750	3	110	UI	14.2	3.2	6.0	22.0	3.9	—	—	Me	SS(243)	
Pennsylvania RR, Altoona, Pa.	Gibbs & Hill, Inc.	1-55	625	635	3	60	RS	7.2	1.1	2.7	29.9	3.3	—	—	Me	SS(156)	
Scott Paper Co., Chester, Pa.	—	12-54	620	750	1	210	CE	17.4	—	—	—	—	32.0	Re	Me	O	
Southland Paper Mills, Lufkin, Tex.	—	5-56	610	750	2	175	BW	12.9	—	8.1	—	—	17.9	Tu	—	PF	
Commercial Solvents Corp., Sterlington, La.	—	6-55	505 ¹⁴	500 ¹⁴	1	110	RS	11.0	2.0	5.5	29.9	—	10.0	Tu	—	G	
Central Fibre Products Co., Quincy, Ill.	H. M. Wilson Co.	9-55	500 ¹⁴	500 ¹⁴	2	90	CE	3.4	—	7.0	—	—	4.5	—	—	SS(300)	
Container Corp. of America, Carthage, Ind.	H. M. Wilson Co.	—	500 ¹⁴	500 ¹⁴	1	100	CE	9.0	—	—	—	—	4.2	—	—	TG(321)	
P. H. Glatfelter Co., Spring Grove, Ont.	H. M. Wilson Co.	9-56	500	550	1	240	CE	29.2	—	18.5	17.6	—	32.0	Re	Me	P	
Marathon Corp., Rothschild, Wis.	—	1-56	500	750	1	30	—	—	—	—	—	—	—	Tu	Me	SS	
Texas Eastman Co., Lufkin, Tex.	—	12-54	500	750	1	150	CE	14.7	—	7.2	28.3	—	20.2	Tu	—	G	
BELOW 600 PSI																	
Line Air Products, Long Beach, N. Cal.	Day & Zimmerman	9-55	525	525	2	40	CE	6.2	—	2.3	25.0	2.0	14.3	Tu	Me	SS	
Johns-Manville Corp., Lombard, Calif.	—	2-55	500	500	1	12	CE	1.9	—	—	—	—	—	—	—	PF	
Sun Oil Co., Toledo, Ohio	—	3-55	500	600	1	220	BW	—	—	—	—	—	—	—	—	O, G ¹⁴	
Great Lakes Paper Co. Ltd., Ft. Worth, Pa.	E. & B. Cowan	1-56	450	650	1	200	CE	17.2	—	—	—	24.3	—	63.0	Tu	—	P
Sun Oil Co., Marcus Hook, Pa.	—	4-55	450	500	1	50	BW	3.5	—	—	—	—	2.0	—	—	PF	
Sen Oil Co., San Diego, Calif.	—	9-53	450	500	1	25	FW	3.1	—	—	—	—	—	—	—	PF	
Mendota State Hospital, Madison, Wis.	Butter & Childs	11-55	425 ¹⁴	425 ¹⁴	2	50	UI	7.2	0.2	2.3	—	—	3.2 ¹⁴	—	—	TG(172)	
Parkland-Sixty & Sugar, Inc., Flanders, N. Y.	Anderson-Vreeland	7-55	425 ¹⁴	425 ¹⁴	1	125	CE	—	—	7.0	21.3	—	3.5	Re	Me	P, O	
Northern Chemical Ind., Inc., Joliet, Ill.	Girdler Co.	1-56	415	750	1	154	EO	12.0	—	—	—	—	—	—	—	O	
Fluorid Sugar Co., Thompson, La.	—	2-55	400	550	3	56	BW	—	—	—	—	—	—	—	—	G	
Unilever Chemical Co., Memphis, Tenn.	—	10-54	400	750	2	110	CE	—	—	—	—	—	—	—	—	G	
Rock Island Millwork Co., Rock Island, Ill.	Pfeifer & Shultz	9-55	400 ¹⁴	450 ¹⁴	2	30	BW	—	—	—	—	—	—	—	—	TG(95)	
Standard Oil Co., B. & O. Div., B. & O. Div., N. Y.	—	11-54	400	450	2	30	CE	—	—	—	—	—	—	—	—	O, G	
Colonial Sugar Co., Gramercy, La.	—	9-55	300	475	1	27	RS	3.4	0.3	2.9	—	—	—	—	—	PF	
Manitowoc Co., Manitowish, Wis.	—	1-54	300	700	1	200	CE	—	—	—	—	—	—	—	—	G	
John H. McLaughlin Co., Detroit, Mich.	Burns & Roe, Inc.	9-55	140	400	2	75	PA	1.3	1.5	4.1	25.3	3.3	—	—	—	SS(200)	
Arnold, Hoffman & Co., Inc., Dighton, Mass.	Jenks & Ballou	7-54	115	114	1	15	PA	2.0	2.4	2.5	—	—	1.9	Tu	—	SS(222)	
Eastman Kodak Co., New Haven, Conn.	Westcott & Mues	11-55	250	450	2	47	BW	6.0	—	—	—	—	—	—	—	P	
Phelps Dodge Copper Products Corp., Phoenix, N. Y.	F. H. McGraw	1-55	240	340	2	13	CE	—	—	—	—	—	—	—	—	G	
Rock Hill Printing & Finishing Co., Rock Hill, S. C.	Lockwood Greene	4-55	240	340	2	130	RS	3.3	—	1.0	21.0	2.4	—	—	Me	SS(257)	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	240	340	2	130	CE	—	—	—	—	—	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	2-54	250	375	2	40	UI	4.0	—	2.5	30.0	1.5	—	—	—	TG(185)	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	1-50	250	375	2	40	PA	4.0	—	1.5	29.7	1.5	—	—	—	SS(183)	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing & Finishing Co., Rock Hill, S. C.	—	4-54	250	375	2	40	PA	4.0	2.4	1.5	29.3	1.5	—	—	—	SS	
W. H. H. Printing &																	

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19 - Also byproduct propane
20 - Oil, 19,550 Btu per lb
Gas, 1020 Btu per cu ft
Propane, 21,710 Btu per lb
21 - Also cone freeze

Compiled by F. F. Hatten, Assistant Editor		BOILERS										TURBINES		ELECTRICAL POWER					Total boiler capacity including new units, 1000 lb per hr	Total generator capacity including new units, 1000 kw
Company & Location	Consulting Engineers	First operation, new units	Operating steam pressure, psig	Operating steam temperature, F	Number	Capacity, each, 1000 lb per hr	Manufacturer	Firing	Ash handling	Type	Manufacturer	Source	Plant distribution voltage, kv	Transformer type	Switchgear relay protection	Neutral grounding				
Watts Inc. Division, C. C. Mills, Chicago, Ill.	Chas. T. Main Inc.	7-55	150	360	30	CE	O.C.	—	—	—	—	PP	0.5	O	Ov	Pr, Se	60			
Motor Co. Livonia, Mich.	Argent-Rand Assoc.	7-55	150	360	30	CE	O.C.	—	—	—	—	PP	—	—	—	—	200			
Motor Co. Warren, Mich.	H. H. Ferguson Co.	1954	150	360	40	CE	TG-1321	—	—	—	—	PP	—	—	—	—	120			
Chim Co. Memphis, Tenn.	Strom & Root	1-52	150	360	30	CE	O.C.	—	—	—	—	PP	—	—	—	—	30			
Northern Co. St. Cloud, Minn.	—	7-55	150	360	25	WB	O.C.	—	—	—	—	PP	—	—	—	—	50			
Watts Inc. Pittsburgh, Pa.	Peter F. Lottus Co.	4-52	150	360	50	BN	SS-1351	—	—	—	—	PP	—	—	—	—	100			
State Hospital, Greenvale, N.Y.	Burns & Roe, Inc.	6-54	150	366	30	FW	O.C.	—	—	—	—	PP	—	—	—	—	150			
Western Univ. Evanston, Ill.	Geo. C. Rice, Inc.	7-55	150	360	30	BN	O	—	—	—	—	PP	—	—	—	—	—			
State School, Tuscon, Ariz.	—	6-55	150	360	30	BN	UF-901	—	—	—	—	PP	—	O	—	Se	—			
Can. Pulp Co. St. Louis, Mo.	—	6-55	150	360	30	CE	O.C.	—	—	—	—	PP	—	—	—	—	—			
A. Robinson Ltd. Toronto, Ont.	A. J. McKee	1-54	150	365	1	18	UI	O	—	—	—	PP	0.6	O	Ov, Gr	Se	36			
Gen'l. Hosp. St. John, N.B.	E. Gruenberg	5-55	150	365	3	10.5	CB	O	—	—	—	PP	0.5	O, Dr	Ov	—	31.5			
Inc. Ontario, N.Y.	—	—	150	360	1	15	BN	O	—	—	—	PP	0.5	O, Dr	Ov	—	26			
W. Lumber Co. Schenectady, N.Y.	Heat Engineering Co.	9-55	150	366	1	20	UI	O	—	—	—	PP	—	—	—	—	20			
W. Lumber Co. Winston-Salem, N.C.	—	6-53	150	—	1	5.2	CB	O	—	—	—	PP	—	—	—	—	—			
W. State Hospital, Silverdale, Wash.	James A. Foster	1-54	150	366	6	60	EC	O	—	—	—	PP	—	—	—	—	360			
W. Div. Gen'l. Tire & Rubber Co. Toledo, Ohio	Fab. Chester	9-55	150	360	1	40	BN	SS-1221	—	—	—	PP	—	—	—	—	50			
W. Roller Bearing Co. Bucyrus, Ohio	—	1955	150	360	1	75	CE	UF-841	—	—	—	PP	0.5	O	Ov	N	200			
W. W. Co. Ltd. Toronto, Ont.	H. H. Angus & Assoc.	5-55	150	360	1	100	FW	O	—	—	—	PP	—	—	—	—	24			
W. W. Co. Ltd. Toronto, Ont.	H. H. Angus & Assoc.	10-55	150	360	2	12	FWL	SS-571	—	—	—	PP	0.6	O	Ov	N	24			
W. Center, Louisville, Ky.	E. R. Ronald	11-54	140	350	3	41	Vo	TG-1171	—	—	—	PP	—	—	—	—	150			
W. Refractories Ltd. St. John, N.B.	H. G. Acres Co. Ltd.	1-54	140	400	1	80	CE	O	—	—	—	PP	—	—	—	—	230			
W. Paper Corp. Ltd. One	H. G. Acres Co. Ltd.	10-55	140	360	2	80	CE	O	—	—	—	PP	—	—	—	—	—			
W. Oil & Refining Ltd. Ft. Worth, Tex.	—	7-55	140	360	1	32	BN	O	—	—	—	PP	0.6	O	Ov	Se	40			
W. Mills, Chicago, Ill.	—	1-55	135	350	1	5	BN	P-55	—	—	—	PP	0.4	O	Ov	N	90			
W. State Auth. Wernersville, Pa.	—	9-55	135	350	1	30	—	TG	—	—	—	PP	—	—	—	—	—			
W. Supers, Inc. Reserve, La.	—	10-55	125	360	1	130	CE	O	—	—	—	PP	—	—	—	—	40			
W. Mills Co. La Grange, Ga.	—	5-55	130	360	1	40	BN	O	—	—	—	PP	0.4	O	—	—	85			
W. Piece Dye Works, Charleston, S.C.	—	1-55	130	350	1	35	CE	O	—	—	—	PP	—	—	—	—	—			
W. Universities, Inc. Udon, U.S.S.R.	Stone & Webster Eng'g Corp.	11-55	125	350	1	60	CE	O	—	—	—	PP	13.8, 2.4	O	{Ov, Gr}	Se	100			
W. Div. Allied Chemical & Dye Corp. Phila., Pa.	—	7-51	125	400	2	25	CE	O.C.	—	—	—	PP	0.2	O	—	N	58			
W. Coal of America, Lancaster, Pa.	—	1-54	125	350	0	20	BN	O	—	—	—	PP	0.5	O	—	N	40			
W. Empire of Canada Ltd. Chalk River, Ont.	C. O. Howe Co. Ltd.	12-51	125	450	1	50	FW	TG-1201	—	—	—	PP	—	O	Ov, Gr	Se	200			
W. Finishing Co. Paterson, N.J.	—	1-54	125	—	1	30	CE	O	—	—	—	PP	—	O	Ov	Pr, Se	—			
W. W. Co. Jackson, Miss.	—	8-54	125	350	1	28	FW	O	—	—	—	PP	—	—	—	—	—			
W. Collier, Charleston, S.C.	Lockwood Greene Engrs.	1955	125	360	1	40	CE	SS	—	—	—	PP	—	O	—	Pr, Se	130			
W. A. & M. Co. Ft. Collins, Colo.	—	9-55	125	350	1	20	UI	SS	—	—	—	PP	—	O	Ov	Pr, Se	115			
W. of National Defense, Centerville, Ohio	—	1955	125	350	1	27	VK	UF-851	—	—	—	PP	0.6	O, Dr	Ov	—	82			
W. of National Defense, Goose Bay, Labrador	H. A. Hammett	11-53	125	360	1	25	Ov	O	—	—	—	PP	—	—	—	—	85			
W. Eng'g Works Ltd. Waltham, Mass.	—	1-54	125	350	1	21	DB	O	—	—	—	PP	—	—	—	—	—			
W. Realty Co. Ltd. North York, Ont.	H. R. Assoc. & Assoc.	1-55	125	350	1	25	FWL	O	—	—	—	PP	—	O	Ov	N	—			
W. RR, Boston, Mass.	—	1954	125	360	1	20	CE	O.C.	—	—	—	PP	—	—	—	—	44			
W. Motor Co. Louisville, Ky.	Argent-Rand Assoc.	11-54	125	350	1	50	BN	SS	—	—	—	PP	—	—	—	—	300			
W. Motor Co. Sandusky, Ohio	—	4-55	125	360	1	20	BN	O	—	—	—	PP	12.2, 0.5	O	Ov, Gr	N	180			
W. Motor Co. Detroit, Mich.	—	5-55	125	360	1	20	BN	O	—	—	—	PP	13.2, 0.5	O	Ov, Gr	N	210			
W. Center, Capitol Hill, N.Y.	—	4-55	125	350	1	50	CE	O	—	—	—	PP	—	—	—	—	190			

PP — Pressurized turbine
 Pr — Pneumatic
 PP — Purchased power
 L — Lignite
 PC — Flywheel storage
 Se — Secondary

CE — Coal-fired stoker
 SS — Superior Combustion Industries, Inc.
 TG — Traveling-grate stoker
 FW — Treadwell Iron Works Co.
 UF — Underfeed stoker
 UI — Union Iron Works

VK — Vickers-Keefer
 Vo — Henry Voigt Machine Co.
 WB — Wm. Bros. Boiler & Mfg. Co.
 W — Wickes Boiler Co.
 No — Worthington Corp.
 (125 — Stoker grate area, sq. ft.)

1 — In Hg absolute
 2 — 1000 Btu per cu. ft.
 3 — One unit also burns bark
 4 — Future
 5 — Initial
 6 — For coal and coke breeze
 7 — For coal and lignite
 8 — Steam

INDUSTRIALS, INSTITUTIONALS: Below 250 psi

Compiled by H.P. Kallen, Assistant Editor		BOILERS										TURBINES		ELECTRICAL POWER					Total boiler capacity including new units, 1980 to now in new units, 1000 to one million	
Company & Location	Consulting Engineers	First operation, new units	Operating steam pressure, psig	Operating steam temperature, F	Number	Capacity each, 1000 lb per hr	Manufacturer	Firing	Asst handling	Type	Manufacturer	Source	Plant distribution voltage, kv	Transformer type	Switchgear relay protection	Neutral grounding	Total boiler capacity including new units, 1980 to now in new units, 1000 to one million			
Gen Electric Co., Waynesboro, Va.	Whitman, Requaert & Assoc.	3-55	125	341	2	15	BW	OG	-	-	-	PP	0.3-3.3	0 As	0v Gr	Pr Se	20			
Gen. Motors Inc., Toledo, Ohio	H.K. Ferguson Co.	7-55	125	353	3	25	GE	0	-	-	-	PP	0.4	As	0v	Pr Se	15			
Gen. State Authority, Shamokin, Pa.	Kuljan Corp.	10-55	125	353	2	7.5	Ke	As	Mn	-	-	PP	-	0	0v	Pr Se	15			
Grasslands Hospital, Mahanwa, N.Y.	Krev & Hunt	9-55	125	354	1	33	BW	CS	Hy	-	-	PP	0.2	Dr	-	Pr Se	105			
Greenlee Bros. & Co., Rockford, Ill.		10-55	125	353	2	20	BW	CS	Ph	-	-	PP	1.4	0 As	0v	N	25.3			
Hamilton Mfg. Corp., Columbus, Ind.		1-54	125	353	1	24	Ke	CS	Ph	-	-	-	-	-	-	-	43			
R.M. Hoovershoe Corp., Garden, N.Y.		3-55	125	-	2	17.5	Ke	0	-	-	-	PP	0.2	0 Dr	-	N	15			
Pharma Chemical Corp., Birmmgham, N.Y.	J.W. Leatherdale	1953	125	341	2	9.3	CB	0	-	-	-	-	-	-	-	-	-			
Marine Land Hospital, Portland, Me.		9-56	125	380	4	25	Bt	0	-	-	-	-	0.2	0	-	-	-			
Mo. Terminals Corp., Baltimore, Md.		12-54	125	350	1	23.5	BW	0	-	-	-	-	-	-	-	-	23.5			
Mass. Hospital School, Canton, Mass.		1-54	125	341	1	20	BW	0	-	-	-	PP	0.2	As	0v	Se	20			
National Brewing Co., Baltimore, Md.	Egli & Goepl	8-54	125	341	1	15	RS	0	-	-	-	PP	0.1	0	0v	Se	40			
Infant Hospital, Penetanguishene, Ont.		2-55	125	341	1	15	FAL	0	Ph	Me	-	PP	-	0	-	Pr Se	10			
Finchurst Inc., Finchurst, N.D.	Wiley & Wilson	-	125	-	2	17	BW	0	Ph	Me	-	PP	-	0	-	-	14			
Claker Jars Co., Chattanooga, Tenn.		10-55	125	341	1	14	Bu	0	-	-	-	-	-	-	-	-	18			
Imperial Seals Ltd., Etobicoke, Can.	M. Baccoca Assoc.	9-54	125	345	3	20	FW	CS	Ph	-	-	-	-	-	-	-	40			
U.S. Naval Air Station, Oceana, Va.		1-55	125	352	1	50	UI	0	-	-	-	-	-	-	-	-	-			
U.S. Army, Ft. Dix, N.J.		-	125	354	3	55	EO	CS	Ph	-	-	-	-	-	-	-	135			
Wis. State College, LaCrosse, Wis.		4-55	125	378	1	12	UI	0	Ph	Me	-	PP	-	-	-	-	10			
Marathon State Hospital, Marathon, S.D.	Tyne Engrg. Co.	1954	125	352	1	40	BW	0	-	-	-	PP	0.1	0 Dr	-	-	16			
Aras Powder Co., Houston, Mich.		1955	120	-	1	20	BW	0	-	-	-	PP	-	-	-	-	40			
Ont. Dept. of Highways, Downsview, Ont.	H.H. Angus	4-55	110	341	2	15	FAL	0	-	-	-	PP	-	-	-	-	10			
Fluorid Inc., Jessup, Md.	Whitman, Requaert & Assoc.	10-54	110	-	2	20	EO	0	Ph	-	-	PP	-	0	0v	Se	-			
Toronto Western Hospital, Ont.	H.H. Angus	1-55	110	341	2	12	UI	0	Ph	Me	-	PP	0.5	0	0v	Pr Se	40			
U.S. Army, Ft. Meade, Md.	Anderson Nichols & Co.	7-55	110	343	3	13	UI	0	-	-	-	PP	-	0	0v	Se	17			
U.S. Army, Ft. Meade, Md.	Rumler, Klepper & Kant	-	110	343	3	13	UI	0	Ph	-	-	PP	-	0	0v	Se	14			
American Sterilizer Co., Erie, Pa.		7-55	100	328	1	22.5	UI	0	-	-	-	PP	0.4	0	0v	Dr	12.5			
Briggs & Stratton Corp., Adamstown, Wis.	Albert Mann Assoc.	1955	100	341	2	15	EO	0	-	-	-	PP	-	-	-	-	40			
Century Mfg. Co., Jackson, Miss.		-	100	-	1	30	FW	0	-	-	-	PP	0.4	0	0v	Pr Se	-			
Gravel Cleveland P.O., Elizabeth, N.J.	Runyon & Carey	1-55	100	200	2	12	Tr	0	-	-	-	PP	-	0	-	-	-			
Carborundum Div., GE Co., Edmore, Mich.	Smith, Hinchman & Grylls	2-53	100	336	2	18	FW	0	-	-	-	-	-	-	-	-	15.4			
Continental Engrg. Works, Machine, Que.		1954	100	-	1	25	EO	0	-	-	-	-	-	-	-	-	23			
First Motor Co., Duluth, Conn.	Albert Mann Assoc.	3-54	100	333	3	12	CB	0	-	-	-	-	-	-	-	-	51			
Greenham, Corning Glass, Greenham, Conn.		-	100	-	1	12	CB	0	-	-	-	PP	0.2	-	-	-	-			
Heide Pump & Co., Elmhurst, Pa.		2-54	100	341	1	12	CB	0	-	-	-	PP	-	-	-	-	-			
McDonnell Douglas, Dayton, Ohio	Whitman, Requaert & Assoc.	9-54	100	-	2	12	CB	0	-	-	-	PP	-	-	-	-	12			
McMaster-Carr, Harrisburg, Pa.	L.H. Schwindt	11-54	100	341	1	20	FAL	0	Ph	Me	-	PP	-	-	-	-	20			
Parkway, Inc., New York, Pa.	Scott Assoc.	11-54	100	353	1	18	Ke	0	-	-	-	-	-	-	-	-	15			
Rockwell International, Rockwell, Pa.	S.M. Martin	4-55	100	355	2	9	CB	0	-	-	-	-	0.4	0	-	Pr Se	15			
Rockwell International, Rockwell, Pa.		2-54	100	-	1	1	BW	0	-	-	-	-	-	-	-	-	-			
Rockwell International, Rockwell, Pa.		1-55	100	341	1	15	EO	0	-	-	-	PP	0.1	0	-	Pr Se	40			
Rockwell International, Rockwell, Pa.	Douglas & Griffin	1-55	100	341	1	15	EO	0	-	-	-	-	-	-	-	-	11			

As - Asbestos
B - Bismuth
C - Cast
D - Diesel
E - Electric
F - Fuel
G - Gas
H - Hydraulic
I - Iron
J - Jet
K - Kerosene
L - Lubricant
M - Motor
N - Nitrogen
O - Oil
P - Power
Q - Quartz
R - Rubber
S - Steel
T - Tin
U - Uranium
V - Vanadium
W - Wax
X - X-ray
Y - Yttrium
Z - Zinc

FAL - Foster Wheeler Ltd.
FW - Foster Wheeler
H - Hydro
I - Industrial
J - Jet
K - Kerosene
L - Lubricant
M - Motor
N - Nitrogen
O - Oil
P - Power
Q - Quartz
R - Rubber
S - Steel
T - Tin
U - Uranium
V - Vanadium
W - Wax
X - X-ray
Y - Yttrium
Z - Zinc

0 - Oil
1 - Diesel
2 - Gas
3 - Hydro
4 - Industrial
5 - Jet
6 - Kerosene
7 - Lubricant
8 - Motor
9 - Nitrogen
10 - Oil
11 - Power
12 - Quartz
13 - Rubber
14 - Steel
15 - Tin
16 - Uranium
17 - Vanadium
18 - Wax
19 - X-ray
20 - Yttrium
21 - Zinc

22 - Diesel
23 - Gas
24 - Hydro
25 - Industrial
26 - Jet
27 - Kerosene
28 - Lubricant
29 - Motor
30 - Nitrogen
31 - Oil
32 - Power
33 - Quartz
34 - Rubber
35 - Steel
36 - Tin
37 - Uranium
38 - Vanadium
39 - Wax
40 - X-ray
41 - Yttrium
42 - Zinc

Compiled by Althea Thornton, Assistant Editor					Unit No. new units	First operation new units	Throttle pressure, psig	Steam temp., F		BOILERS				
Company	Location	Plant name	Consulting engineers					Throttle	Reheat	Number	Capacity, each, 1000 lb per hr	Manufacturer	Surface, 1000	
Detroit Edison Co.	River Rouge, Mich.	River Rouge			3	10-57	2400	1050	1000	1	2000	FW	14.6	57.5
Duke Power Co.	Belmont, N. C.	Allen			1	5-57	2400	1050	1000	1	1150	CE	51.0	99.5
Niagara Mohawk Power Corp.	Burlato, N. Y.	C. R. Huntley			2	3-57	2400	1050	1000	1	1150	CE	51.0	99.5
Commonwealth Edison Co.	Will County, Ill.	Will County	Stone & Webster Engrg. Corp.		3	10-57	2000	1050	1050	1	1800	CE	34.6	194.0
Consolidated Edison Co. of N. Y. Inc.	New York, N. Y.	Astoria			3	1958	2000	1050	1000	1	2400	CE	43.6	113.9
Consumers Power Co.	Muskegon, Mich.	B. C. Cobb	Commonwealth Associates Inc.		4	1956	2000	1050	1000	1	1050	CE	43.6	113.9
					5	1957	2000	1050	1000	1	1050	CE	43.6	113.9
Mississippi Valley Generating Co.	West Memphis, Ark.	West Memphis	Ebasco Services Inc.		1	12-57	2000	1050	1000	1	1550 ⁶	BW	32.8	160.4
					2	12-57	2000	1050	1000	1	1550 ⁶	BW	32.8	160.4
					3	12-57	2000	1050	1000	1	1550 ⁶	BW	32.8	160.4
Pennsylvania Electric Co.	Jewett, Pa.	Jewett	Gilbert Associates Inc.		5	4-57	2000	1050	1000	1	900	CE	25.4	89.5
Public Service Co. of Oklahoma	Tulsa, Okla.	Tulsa	Black & Veatch		2	3-56	1800	1000	1000	1	1150 ⁶	BW	8.5	50.4
					4	3-56	1800	1000	1000	1	1150 ⁶	BW	8.5	50.4
Boston Edison Co.	Everett, Mass.	Mytic	Jackson & Moreland		4	3-57	1800	1000	1000	1	335	CE	25.3	80.8
Dayton Power & Light Co.	Dayton, Ohio	Frank M. Tait	Gilbert Associates Inc.		1	10-57	1800	1000	1000	1	930 ⁷	CE	12.1	36.9
Delaware Power & Light Co.	Near Millsboro, Del.	Indian River	United Engrs & Constructors Inc.		1	6-57	1800	1000	1000	1	625	BW	12.1	36.9
Georgia Power Co.	Newnan, Ga.	Yates	Southern Services Inc.		4	5-57	1800	1000	1000	1	900	CE	44.7	80.9
Mississippi Power Co.	Near Gulfport, Miss.	Gulf Coast	Southern Services Inc.		1	5-57	1800	1000	1000	1	530	CE	14.0	48.4
Oklahoma Gas & Electric Co.	Muskogee, Okla.	Riverbank	Sargent & Lundy		3	5-56	1800	1000	1000	1	1200	BW	3.9 ⁷	62.4
Potomac Electric Power Co.	Alexandria, Va.	Palomac River ¹⁰	Stone & Webster Engrg. Corp.		4	3-56	1800	1050	1000	1	725	CE	36.1	72.8
Rochester Gas & Electric Corp.	Rochester, N. Y.	Russell	Gilbert Associates Inc.		4	3-57	1800	1050	1000	1	560	CE	16.9	53.7
Rockland Light & Power Co.	Tomkins Cove, N. Y.	Lovett	Burns & Roe Inc.		3	3-55	1800	1050	1000	1	500	CE	21.7	45.0
Southern California Edison Co.	El Segundo, Calif.	El Segundo, Calif.	Bechtel Corp.		2	3-56	1800	1000	1000	1	1140 ⁶	BW	13.2	78.3
	Alamitos Bay	Alamitos	Bechtel Corp.		1	11-56	1800	1000	1000	1	1140 ⁶	BW	13.2	78.3
					2	9-57	1800	1000	1000	1	1140 ⁶	BW	13.2	78.3
Virginia Electric & Power Co.	Yorktown, Va.	Yorktown	Stone & Webster Engrg. Co.		1	7-57	1800	1000	1000	1	1200 ⁶	CE	59.7	90.1
Carolina Power & Light Co.	Wilmington, N. C.	Wilmington	Ebasco Services Inc.		2	4-55	1450	1000	1000	1	775	BW	17.6	46.6
Central Illinois Light Co.	Peoria, Ill.	R. S. Wallace	Commonwealth Associates Inc.		7	8-57	1450	1000	1000	1	690	RS	38.4	33.6
Central Illinois Public Service Co.	Grand Tower, Ill.	Grand Tower	Sargent & Lundy		4	3-57	1450	1000	1000	1	700	BW	12.7	45.4
General Louisiana Electric Co. Inc.	Baldwin, La.	Teché	Sargent & Lundy		2	3-56	1450	1000	1000	1	350 ⁶	RS	6.3	16.0
Dallas Power & Light Co.	Dallas, Texas	Parkdale	Ebasco Services Inc.		3	2-57	1450	1000	1000	1	1050 ⁶	BW	14.9	—
Florida Power & Light Co.	South Florida	South Florida	Bechtel Corp.		4	5-57	1450	1000	1000	1	1100 ⁶	BW	14.9	—
					5	5-58	1450	1000	1000	1	1100 ⁶	BW	14.9	—
Florida Power Corp.	Ellaville, Fla.	Suwannee River	Black & Veatch		2	11-54	850	900	—	1	350	BW	27.7	13.9
Gulf States Utilities Co.	Beaumont, Texas	Neches ¹⁴	Stone & Webster Engrg. Corp.		3	11-56	1450	1000	1000	1	600	RS	29.3	28.7
					7	4-56	1450	1000	1000	1	700 ⁶	CE	21.7	—
Kansas Power & Light Co.	Lawrence, Kansas	Lawrence	Black & Veatch		1	1-55	1450	1000	1000	1	475	CE	20.4	—
	Tecumseh, Kansas	Tecumseh	Bechtel Corp.		6	11-55	850	900	—	1	700	BW	11.3	27.7
San Diego Gas & Electric Co.	Carlsbad, Calif.	Encina	Pioneer Service & Engrg. Co.		2	3-56	1450	1000	1000	1	700	BW	11.3	27.7
Southwestern Gas & Electric Co.	Mooringport, La.	Lieberman	Sargent & Lundy		3	4-57	1450	1000	1000	1	725 ⁶	CE	29.5	30.3
Tampa Electric Co.	Tampa, Fla.	Jannett	Stone & Webster Engrg. Corp.		1	6-57	1450	1000	1000	1	300 ⁶	BW	—	—
United Illuminating Co.	Bridgeport, Conn.	Bridgeport Harbor	Jackson & Moreland		1	7-58	1450	1000	1000	1	575	BW	—	—
Western Massachusetts Electric Co.	West Springfield, Mass.	West Springfield	Stone & Webster Engrg. Corp.		3	7-57	1450	1000	1000	1	750	CE	13.0	40.3
Columbus & Southern Ohio Electric Co.	South of Columbus, Ohio	Picway	Commonwealth Associates Inc.		5	11-55	1250	950	—	1	300 ¹⁵	RS	45.1	45.8
Madison Gas & Electric Co.	Madison, Wis.	Blount St.	Pioneer Service & Engrg. Co.		6	3-57	1250	950	—	1	425	BW	3.0	5.0
Southwestern Public Service Co.	Moobs, N. Mex.	Cunningham			1	3-57	1250	950	—	1	625 ⁶	CE	16.6	—
New York Edison Co.	Hempstead, N. Y.	Water St.			5	7-57	900	900	—	1	500	BWG	25.8	17.6
Quebec Power Co. Ltd.	Quebec, Alberta	Quebec	Montreal Engrg. Co. Ltd.		2	3-56	850	900	—	1	625	BWG	39.4	44.3
San Antonio Electric Light Co.	San Antonio, Texas	San Antonio	Sargent & Lundy		2	4-56	850	900	—	1	620	BW	32.5	15.8
El Paso Electric Co.	El Paso, Texas	Rio Grande	Stone & Webster Engrg. Corp.		5	5-57	850	900	—	1	450	BW	24.5	3.9
Interstate Power Co.	Lansing, Iowa	Lansing	Sargent & Lundy		3	3-57	850	900	—	1	300	RS	35.0	13.2
Iowa Electric Light & Power Co.	Marshalltown, Iowa	Sutherland			1	7-55	850	900	—	1	325	RS	33.7	0.9
					2	3-55	850	900	—	1	325	RS	33.7	0.9
Pacific Gas & Electric Co.	South of Eureka, Calif.	Humboldt Bay	Bechtel Corp.		1	5-56	850	900	—	1	475 ⁶	BW	25.7	17.0

AC - Allis-Chalmers Mfg. Co.
Ad - Admiralty
Adb - Admiralty brass
Abl - Admiralty unlaminated
Al - Aluminum
Alb - Aluminum brass
Aas - Aluminum silicate
AlCu - Aluminum copper
AlA - Aluminum aluminum

BB - Brown Boveri Corp.
BW - Babcock & Wilcox Co.
BWD - Babcock-Wilcox & Corlies
McL - McLoughlin Ltd.
C - Cast
CE - Cast engineering
CEB - Cast engineering
CEB - Cast engineering

CN - Cupronickel
Cu - Condenser operation
Co - Cooper
Cy - Cyclone furnace
D - Damper
DB - Dry bottom
DST - DeLaval Steam Turbine Co.
Du - Dual turbine and motor drive

EL - Elliott Co.
FW - Foster Wheeler Corp.
G - Natural gas
GE - General Electric Co.
H - Hydraulic coupling
L - Lignite
M - Motor drive
Ma - Magnetic coupling
MI - Murray Iron Works Co.

Mo - Two motors per fan
Mu - Muntz metal
WV - Metropolitan-Vickers Electrical Co. Ltd.
N - None
O - Oil
P - Pulverized
PAD - Phosphorized admiralty
Pl - Plate

- Regulator
- Regenerative
- Riley Stoker Corp.
- Speed control
- Springfield Boiler Co.
- Spreader stoker
- Stag tag
- Superloy
- Turbine drive

- TG - Traveling plate stoker
- TL - Tubular
- UF - Underfeed stoker
- V - Vane control
- WE - Westinghouse Electric Corp
- WI - Wickes Boiler Co
- WO - Worthington Corp
- Yc - Yorkbrook Mfg.

(3/8) - Stoker grate area, sq ft

- 1 - No 3600 rpm, 1p 3800 rpm
- 2 - flameless rating
- 3 - Preflashed standard unit
- 4 - Pressurized furnace
- 5 - High viscosity ra
- 6 - Outdoor installation
- 7 - Monotube boiler
- 8 - Bit per cent
- 9 - boiler only, furnace 18.4

- 10 - Revised data, previously listed
9/55
- 11 - Delayed refinery coke
- 12 - Future coal
- 13 - 3 motor-driven pumps for 2 boilers
- 14 - Revised data, previously listed
9/54
- 15 - Semi-outdoor boiler
- 16 - Future pulverized

- 17 - Modified for 1450 psig operation
- 18 - Future lignite
- 19 - Owned by Central Iowa Power Co.
operative, but operated by Iowa
Electric Light and Power Co
- 20 - One automatic, one uncontrolled
- 21 - Fusion temperature
- 22 - 90-10

⁸ Vertical-shaft, 4-nozzle type

Government Agency Hydroelectric Plants

(Does not include municipal plants)

Government agency	Project	State or Possession	River	Ultimate capacity, hp	Initial capacity, hp	Installed capacity, hp	On order or being installed, hp
U. S. Bureau of Reclamation	Eklutna	Alaska	Lake Eklutna	50,000	50,000		50,000
	Grand Coulee	Wash.	Columbia	3,022,000	538,000	3,102,000	
	Hungry Horse	Mont.	S. F. Flathead	420,000	420,000	420,000	
FED. No. 1 Oregon County	Rock's and	Wash.	Columbia	238,000	24,000	238,000	
	Booneville	Ore. & Wash.	Columbia	129,000	137,000	129,000	
	Big Chitt	Ore.	North Santiam	25,500	25,500	25,500	
	Lookout Point	Ore.	N. Fork Willamette	157,500	157,500	157,500	105,000
	Detroit	Ore.	North Santiam	140,000	140,000	140,000	
U. S. Corps of Engineers	Chief Joseph	Wash.	Columbia	2,797,000	1,507,000		1,607,000
	Darles	Ore. & Wash.	Columbia	2,730,000	1,779,000		1,779,000
	McNary Dam	Ore. & Wash.	Columbia	2,225,000	1,555,000	452,000	1,113,000
	Neenah Falls	Idaho	Pend Oreille	53,000	53,000		53,000
FED. No. 1 Pend Oreille County	Box Canyon	Wash.	Pend Oreille	122,500	98,000		98,000
	Anderson Ranch	Idaho	Boise	55,500	37,000	37,000	
	Minidoka	Idaho	Snake	18,500	9,000	18,500	
U. S. Bureau of Reclamation	Paradises	Idaho	Snake	158,000	158,000		158,000
	Shasta	Calif.	Sacramento	522,000	419,000	522,000	
	Keswick	Calif.	Sacramento	102,000	102,000	102,000	
	Folsom	Calif.	American	225,000	225,000		225,000
Internal Irrigation District	Drop No. 4	Calif.	All Am. Canal	28,000	10,000	28,000	
	Drop No. 5	Calif.	All Am. Canal	50,000	50,000		50,000
	Parker Dam	Ariz. & Calif.	Colorado	150,000	120,000	150,000	
	Davis Dam	Ariz. & Calif.	Colorado	311,000	311,000	311,000	
	Hoover Dam	Ariz. & Nev.	Colorado	1,357,000	522,000	1,742,000	
	Elegant Butte	N. M.	Rio Grande	34,500	34,500	34,500	
	Green Mountain	Colo.	Blue	30,000	30,000	30,000	
U. S. Bureau of Reclamation	Estes Park	Colo.	Gold Big Thompson	53,000	53,000	53,000	
	Pike Hill	Colo.	Gold Big Thompson	47,500	47,500	47,500	
	Florin	Colo.	Gold Big Thompson	108,000	108,000	108,000	
	Kortes	Nev.	North Platte	55,500	55,500	55,500	
	Alcova	Nev.	North Platte	50,000	50,000		50,000
	Jerome	Nev.	North Platte	33,500	33,500		
	Seminole	Nev.	North Platte	45,000	45,000	45,000	
	Canyon Ferry	Mont.	Missouri	70,500	70,500	70,500	
U. S. Corps of Engineers	Fort Peck	Mont.	Missouri	150,000	70,000	120,000	
Platte Valley Public Pwr. & Irr. Dist.	Sutherland	Neb.	North Platte	35,000	35,000	35,000	
Upper River Public Power Dist.	Columbus	Neb.	Lower	54,000	54,000	54,000	
Central Neb. Public Pwr. & Irr. Dist.	Jeffery Canyon	Neb.	Platte	26,000	25,000	26,000	
	Johnson No. 1	Neb.	Platte	26,000	25,000	26,000	
	Johnson No. 2	Neb.	Platte	50,000	25,000	25,000	
	Fort Randall	S. D.	Missouri	460,000	460,000	57,500	402,500
	Dane	S. D.	Missouri	485,000	131,000		
	Garrison	N. D.	Missouri	440,000	440,000		440,000
	Savins Point	S. D. & Neb.	Missouri	152,000	152,000		152,000
U. S. Corps of Engineers	St. Mary's Falls	Mich.	St. Mary's	72,750	23,925	23,925	
	Norfolk	Ark.	North Fork	158,000	42,540	84,540	
	Glazely Mountain	Ark.	Quadrata	104,000	104,000	104,000	
	Gull Shoals	Ark.	White	419,000	211,000	211,000	
	Table Rock	Ark.	White	272,000	272,000		136,000
	Narrows	Ark.	Little Missouri	75,000	24,000	24,000	
Grand River Dam Authority	Pensacola Dam	Okla.	Grand	120,750	30,750	120,750	
U. S. Corps of Engineers	Fort Gibson	Okla.	Grand	96,000	64,000	54,000	
	Tenkiller Ferry	Okla.	Illinois	47,000	47,000	47,000	
	Jennison Dam	Okla. & Texas	Red	282,080	56,080	114,080	
Lower Colorado River Authority	Buchanan Dam	Texas	Colorado	51,000	34,500	51,000	
	Marshall Ford	Texas	Colorado	30,000	30,000	30,000	
	Marble Falls	Texas	Colorado	42,000	42,000	42,000	
Brasos River Conserv. & Reclam. Dist.	Possum Kingdom	Texas	Brasos	51,000	34,000	34,000	
International Boundary & Water Comm.	Falcon Dam	Texas & Mex.	Rio Grande	38,500	38,500	38,500	
U. S. Corps of Engineers	Whitney Dam	Texas	Brasos	41,400	41,400	41,400	
	Wolf Creek	Nv.	Quineland	377,000	377,000	377,000	
	Kentucky	Ky.	Tennessee	229,000	175,000	229,000	
	Rockwell	Tenn.	Tennessee	302,000	95,000	302,000	
	Wilson	Ala.	Tennessee	610,000	206,000	610,000	
	Wheeler	Ala.	Tennessee	250,000	90,000	250,000	
	Juniperville	Ala.	Tennessee	141,000	102,000	141,000	
	Hales Bar	Tenn.	Tennessee	140,000	70,000	140,000	
	Chickamauga	Tenn.	Tennessee	144,000	108,000	144,000	
	Watts Bar	Tenn.	Tennessee	210,000	125,000	210,000	
	Yates	Tenn.	Tenn.	30,000	132,000	132,000	
Tennessee Valley Authority	Fort Loudoun	Tenn.	Tennessee	175,000	48,000	175,000	
	Cherokee	Tenn.	Holston	175,000	82,000	175,000	
	Chickasaw	Tenn.	French Broad	154,000	33,000	154,000	
	South Holston	Tenn.	South Holston	49,500	49,500	49,500	
	Elgin	Tenn.	South Holston	50,000	50,000	50,000	
	Roanoke	Tenn.	South Holston	102,000	102,000	102,000	
	Watauga	Tenn.	Watauga	49,000	49,000	49,000	
	Montana	N. D.	Little Tennessee	274,000	183,000	274,000	
	Alachua	Tenn.	Watauga	174,000	105,000	174,000	
	Watauga	N. D.	Watauga	140,000	80,000	140,000	80,000
	Little No. 1	Tenn.	Little	23,500	23,500	23,500	
	Little No. 2	Tenn.	Little	23,500	23,500	23,500	
	Little No. 3	Tenn.	Little	23,500	23,500	23,500	
	Little No. 4	Tenn.	Little	23,500	23,500	23,500	
	Little No. 5	Tenn.	Little	23,500	23,500	23,500	
	Little No. 6	Tenn.	Little	23,500	23,500	23,500	
	Little No. 7	Tenn.	Little	23,500	23,500	23,500	
	Little No. 8	Tenn.	Little	23,500	23,500	23,500	
	Little No. 9	Tenn.	Little	23,500	23,500	23,500	
	Little No. 10	Tenn.	Little	23,500	23,500	23,500	
	Little No. 11	Tenn.	Little	23,500	23,500	23,500	
	Little No. 12	Tenn.	Little	23,500	23,500	23,500	
	Little No. 13	Tenn.	Little	23,500	23,500	23,500	
	Little No. 14	Tenn.	Little	23,500	23,500	23,500	
	Little No. 15	Tenn.	Little	23,500	23,500	23,500	
	Little No. 16	Tenn.	Little	23,500	23,500	23,500	
	Little No. 17	Tenn.	Little	23,500	23,500	23,500	
	Little No. 18	Tenn.	Little	23,500	23,500	23,500	
	Little No. 19	Tenn.	Little	23,500	23,500	23,500	
	Little No. 20	Tenn.	Little	23,500	23,500	23,500	
	Little No. 21	Tenn.	Little	23,500	23,500	23,500	
	Little No. 22	Tenn.	Little	23,500	23,500	23,500	
	Little No. 23	Tenn.	Little	23,500	23,500	23,500	
	Little No. 24	Tenn.	Little	23,500	23,500	23,500	
	Little No. 25	Tenn.	Little	23,500	23,500	23,500	
	Little No. 26	Tenn.	Little	23,500	23,500	23,500	
	Little No. 27	Tenn.	Little	23,500	23,500	23,500	
	Little No. 28	Tenn.	Little	23,500	23,500	23,500	
	Little No. 29	Tenn.	Little	23,500	23,500	23,500	
	Little No. 30	Tenn.	Little	23,500	23,500	23,500	
	Little No. 31	Tenn.	Little	23,500	23,500	23,500	
	Little No. 32	Tenn.	Little	23,500	23,500	23,500	
	Little No. 33	Tenn.	Little	23,500	23,500	23,500	
	Little No. 34	Tenn.	Little	23,500	23,500	23,500	
	Little No. 35	Tenn.	Little	23,500	23,500	23,500	
	Little No. 36	Tenn.	Little	23,500	23,500	23,500	
	Little No. 37	Tenn.	Little	23,500	23,500	23,500	
	Little No. 38	Tenn.	Little	23,500	23,500	23,500	
	Little No. 39	Tenn.	Little	23,500	23,500	23,500	
	Little No. 40	Tenn.	Little	23,500	23,500	23,500	
	Little No. 41	Tenn.	Little	23,500	23,500	23,500	
	Little No. 42	Tenn.	Little	23,500	23,500	23,500	
	Little No. 43	Tenn.	Little	23,500	23,500	23,500	
	Little No. 44	Tenn.	Little	23,500	23,500	23,500	
	Little No. 45	Tenn.	Little	23,500	23,500	23,500	
	Little No. 46	Tenn.	Little	23,500	23,500	23,500	
	Little No. 47	Tenn.	Little	23,500	23,500	23,500	
	Little No. 48	Tenn.	Little	23,500	23,500	23,500	
	Little No. 49	Tenn.	Little	23,500	23,500	23,500	
	Little No. 50	Tenn.	Little	23,500	23,500	23,500	
	Little No. 51	Tenn.	Little	23,500	23,500	23,500	
	Little No. 52	Tenn.	Little	23,500	23,500	23,500	
	Little No. 53	Tenn.	Little	23,500	23,500	23,500	
	Little No. 54	Tenn.	Little	23,500	23,500	23,500	
	Little No. 55	Tenn.	Little	23,500	23,500	23,500	
	Little No. 56	Tenn.	Little	23,500	23,500	23,500	
	Little No. 57	Tenn.	Little	23,500	23,500	23,500	
	Little No. 58	Tenn.	Little	23,500	23,500	23,500	
	Little No. 59	Tenn.	Little	23,500	23,500	23,500	
	Little No. 60	Tenn.	Little	23,500	23,500	23,500	
	Little No. 61	Tenn.	Little	23,500	23,500	23,500	
	Little No. 62	Tenn.	Little	23,500	23,500	23,500	
	Little No. 63	Tenn.	Little	23,500	23,500	23,500	
	Little No. 64	Tenn.	Little	23,500	23,500	23,500	
	Little No. 65	Tenn.	Little	23,500	23,500	23,500	
	Little No. 66	Tenn.	Little	23,500	23,500	23,500	
	Little No. 67	Tenn.	Little	23,500	23,500	23,500	
	Little No. 68	Tenn.	Little	23,500	23,500	23,500	
	Little No. 69	Tenn.	Little	23,500	23,500	23,500	
	Little No. 70	Tenn.	Little	23,500	23,500	23,500	
	Little No. 71	Tenn.	Little	23,500	23,500	23,500	
	Little No. 72	Tenn.	Little	23,500	23,500	23,500	
	Little No. 73	Tenn.	Little	23,500	23,500	23,500	
	Little No. 74	Tenn.	Little	23,500	23,500	23,500	
	Little No. 75	Tenn.	Little	23,500	23,500	23,500	
	Little No. 76	Tenn.	Little	23,500	23,500	23,500	
	Little No. 77	Tenn.	Little	23,500	23,500	23,500	
	Little No. 78	Tenn.	Little	23,500	23,500	23,500	
	Little No. 79	Tenn.	Little	23,500	23,500	23,500	
	Little No. 80	Tenn.	Little	23,500	23,500	23,500	
	Little No. 81	Tenn.	Little	23,500	23,500	23,500	
	Little No. 82	Tenn.	Little	23,500	23,500	23,500	
	Little No. 83	Tenn.	Little	23,500	23,500	23,500	
	Little No. 84	Tenn.	Little	23,500	23,500	23,500	
	Little No. 85	Tenn.	Little	23,500	23,500	23,500	
	Little No. 86	Tenn.	Little	23,500	23,500	23,500	
	Little No. 87	Tenn.	Little	23,500	23,500	23,500	
	Little No. 88	Tenn.	Little	23,500	23,500	23,500	
	Little No. 89	Tenn.	Little	23,500	23,500	23,500	
	Little No. 90	Tenn.	Little	23,500	23,500	23,500	
	Little No. 91	Tenn.	Little	23,500	23,500	23,500	
	Little No. 92						