

POWER

McGraw-Hill PUBLICATION

Plant Design Issue

Practical ways to meet today's biggest challenge...

OCTOBER 1958

TWO DOLLARS

McGraw-Hill's 34 business publications join in a major editorial effort to show why and how American industry must modernize now. This is PLAN '58.

As its part in this program, POWER presents this special issue packed with pace-setting plant-layout ideas and the equipment to put them to work.

*Modernize now
for growth and profits*

PLAN '58

AN ANNUAL REPORT FROM MCGRAW-HILL TO AMERICA'S BUSINESS EXECUTIVES

PLAINTIFF'S EXHIBIT

WH-1054

1958 design survey of typical

Note that each listing covers four pages. The project number helps you keep track of a specific installation after you turn the facing page

Project No.	Company	Location	Plant Name	Consulting Engineers	Unit No. - new unit	Final operation, new unit	Throttle pressure, psig	Steam temperature, F		Number	Capacity each, 1000 lb per hr
								Throttle	Reheat		
1	Central Hudson Gas & Electric Corp.	Roseton, N.Y.	Danskammer Point	Burns and Roe, Inc.	34	4-54	2400	1250	1000	1	950
2	Chautauque Power Co.	Essexville, Mich.	Essexville	Jan E. Karn	14	3-51	2400	1250	1000	1	1750
3	Wetropoliitan Edison Co.	Portland, Pa.	Portland	Commonwealth Associates and Gibson Associates, Inc.	14	4-55	2400	1250	1000	1, 2	1150
4	Potomac Electric Power Co.	Dickerson, Md.	Dickerson 12 th	Stone & Webster Engrg Corp.	11	3-54	2400	1250	1000	1	1300
5	Potomac Electric Power Co.	Dickerson, Md.	Dickerson 12 th	Stone & Webster Engrg Corp.	11	4-50	2400	1250	1000	1	1300
6	Connecticut Light and Power Co.	South Norwalk, Conn.	Norwalk Harbor	United Engrs & Constructors, Inc.	4	4-50	2400	1200	1000	1	1150
7	Florida Power & Light Co.	Maittwood, Fla.	Port Everglades	Bechtel Corp.	4	4-50	2400	1200	1000	1, 2	1550
8	Louisiana Power & Light Co.	Laplace, La.	Little Gypsy	Ebasco Services, Inc.	1	1-51	2000	1000	1000	1	1650
9	Arizona Public Service Co.	Tempe, Ariz.	Ocotillo	Ebasco Services, Inc.	4	4-51	2000	1000	1000	1, 2	2500
10	Arizona Public Service Co.	Tempe, Ariz.	Ocotillo	Ebasco Services, Inc.	11	4-50	1800	1000	1000	1, 2	800
11	Arizona Public Service Co.	Tempe, Ariz.	Ocotillo	Ebasco Services, Inc.	11	4-50	1800	1000	1000	1, 2	800
12	California Electric Power Co.	San Bernardino, Calif.	San Bernardino	The Fluor Corp. Ltd.	4	3-53	1800	1000	1000	1, 2	650
13	California Electric Power Co.	Jaggett, Calif.	Coar Water	The Fluor Corp. Ltd.	4	4-51	1800	1000	1000	1, 2	650
14	California Electric Power Co.	Jaggett, Calif.	Coar Water	Ebasco Services, Inc.	4	1-51	1800	1000	1000	1, 2	650
15	Duquesne Light Co.	Eirama, Pa.	Eirama	Stone & Webster Engrg Corp.	4	4-50	1800	1000	1000	1, 2	1300
16	South States Utilities Co.	Westlake, La.	Ray S. Neilson	Stone & Webster Engrg Corp.	4	4-50	1800	1000	1000	1, 2	1100
17	South States Utilities Co.	St. Gabriel, La.	Willow Glen	Stone & Webster Engrg Corp.	4	4-50	1800	1000	1000	1, 2	1100
18	Kansas Gas and Electric Co.	Wichita, Kan.	Genbo Evans	Ebasco Services, Inc.	1	3-51	1800	1000	1000	1	1020
19	Northern States Power Co.	Winnepois, Minn.	Black Lake	Pioneer Service & Engrg Co.	4	1-50	1800	1000	1000	1	1240
20	Public Service Co. of New Hampshire	Bow, N.H.	Merrimack	Jackson & Moreland, Inc.	1	10-50	1800	1000	1000	1	850
21	Tampa Electric Co.	East Tampa, Fla.	Juniper	Stone & Webster Engrg Corp.	1	10-50	1800	1000	1000	1	1140
22	Tennessee Power & Light Co.	Indianapolis, Ind.	Harding	Locks & Co., Inc.	5	9-51	1550	1000	1000	1	750
23	Central Illinois Electric & Gas Co.	Rockford, Ill.	Sabrook	Stone & Webster Engrg Corp.	4	3-51	1350	1000	1000	1	640
24	Arizona City Electric	Phoenix, Ariz.	Wendover	Locks & Co., Inc.	1	11-51	1400	1000	1000	1	640
25	Central Power and Light Co.	Mission, Tex.	W. Bales	Sargent & Lundy	2	3-50	1410	1000	1000	1, 2	640
26	El Paso Electric Co.	Newman, Tex.	Newman	Stone & Webster Engrg Corp.	1	3-50	1400	1000	1000	1, 2	540
27	Puget Service Co. of Colorado	Denver, Colo.	Cherokee	Ebasco Services, Inc.	4	3-51	1400	1000	1000	1, 2	1140
28	Public Service Co. of Colorado	Canon	The Fluor Corp. Ltd.	The Fluor Corp. Ltd.	4	3-50	1250	950	950	1, 2	650
29	Puerto Rico Water Resources Auth.	Palo Seco, P.R.	Palo Seco	Jackson & Moreland, Inc.	1	1-50	1400	1000	1000	1, 2	650
30	Puerto Rico Water Resources Auth.	Palo Seco, P.R.	Palo Seco	Jackson & Moreland, Inc.	1	1-51	1400	1000	1000	1, 2	650
31	Southwestern Gas and Electric Co.	Shreveport, La.	Shreveport	Sargent & Lundy	3	4-50	1400	1000	1000	1, 2	650
32	Southwestern Public Service Co.	Amarillo, Tex.	Nichols	Locks & Co., Inc.	1	3-50	1400	1000	1000	1, 2	650
33	Wisconsin Public Service Corp.	Koshong, Wis.	Weston	Pioneer Service & Engrg Co.	2	10-50	1400	1000	1000	1, 2	650
34	Missouri Public Service Co.	Sibley, Mo.	Sibley	Burns & McDonnell Engrg Co.	2	—	1250	—	—	1	600
35	Public Service Co. of New Mexico	Albuquerque, N.M.	Keedes	Stearns & Porter	2	11-51	1250	—	—	1, 2	600
36	Southern Nevada Power Co.	Whitnev, Nev.	Clark	Locks & Co., Inc.	3	1-51	1250	—	—	1, 2	600
37	Upper Peninsula Power Co.	L'Anse Mich., Mich.	John H. Warren	Stone & Webster Michigan, Inc.	1	—	900	—	—	1	280
38	Central Kansas Power Co.	Hill City, Kan.	Pass Beach	Locks & Co., Inc.	2	1-51	800	—	—	1	280
39	Mid-Tex Generation & Transmission	Abilene, Tex.	—	Idrett & Gee	1	4-50	650	400	—	1, 2	220
40	Mid-Tex Generation & Transmission	Abilene, Tex.	—	Idrett & Gee	2	1-50	650	400	—	1, 2	220
41	St. Joseph Light & Power Co.	St. Joseph, Mo.	Lane Road	Black & Veatch	2	10-51	350	400	—	1, 2	250
42	Standard Power Corp.	Glace Bay, N.S.	Seacord	—	6	3-54	600	500	—	1	180
43	Service Falls Power & Paper	Kapuskeasing, Ont.	—	H. W. Acres & Co. Ltd.	4	3-54	255	500	—	1	180

MUNICIPAL, FEDERAL AND COOPERATIVE INSTALLATIONS

44	Chippewa Valley Authority	Briggspoint, Wis.	Woods Creek	—	7	4-50	400	500	—	1	380
45	Chippewa Valley Authority	Toronto, Ont.	Lakeside	Stone & Webster Engrg Corp.	1	1-51	400	500	—	1	200
46	Chippewa Valley Authority	Toronto, Ont.	Lakeside	Stone & Webster Engrg Corp.	1	1-51	400	500	—	1	200
47	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	350	500	—	1	1300
48	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
49	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
50	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
51	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
52	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
53	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
54	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
55	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
56	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
57	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
58	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
59	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
60	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
61	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
62	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
63	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
64	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
65	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
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67	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
68	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
69	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
70	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
71	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
72	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
73	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
74	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
75	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
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78	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
79	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
80	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
81	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
82	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
83	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
84	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
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86	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
87	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
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89	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
90	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
91	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
92	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
93	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
94	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
95	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
96	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
97	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300
98	Chippewa Valley Authority	Toronto, Ont.	R. L. Mayhew	Stone & Webster Engrg Corp.	5	1-51	400	500	—	1	1300</

new central-station installations

Project No.	BOILERS				FURNACE				D-D FANS				H-D FANS				Project No.											
	Surface area sq ft	Superheater	Reheater	Evaporator	Air heater	Superheat control	Reheat control	Air heater type	Pressure in water	Volume 1000 cu ft	Heat release 1000 Btu per cu ft per hr	No. of burners	Bottom	No. of boiler	Capacity each 1000 lfm	Manufacturer		Air flow control	Drive	Drive hp	Drive manufacturer	No. of boiler	Capacity each 1000 lfm	Manufacturer	Gas flow control	Drive	Drive hp	Drive manufacturer
1	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

- ABC - ABC Co.
- DEF - DEF Co.
- GHI - GHI Co.
- JKL - JKL Co.
- MNO - MNO Co.
- PQR - PQR Co.
- STU - STU Co.
- VWX - VWX Co.
- YZA - YZA Co.
- BCD - BCD Co.
- EFG - EFG Co.
- HIJ - HIJ Co.
- KLM - KLM Co.
- NOP - NOP Co.
- QRS - QRS Co.
- TUV - TUV Co.
- WXY - WXY Co.
- ZAB - ZAB Co.
- ACD - ACD Co.
- BEF - BEF Co.
- CGH - CGH Co.
- DIJ - DIJ Co.
- EKL - EKL Co.
- FGM - FGM Co.
- HNQ - HNQ Co.
- IPR - IPR Co.
- JQS - JQS Co.
- KRT - KRT Co.
- LSU - LSU Co.
- MVW - MVW Co.
- NXY - NXY Co.
- OZB - OZB Co.
- PAE - PAE Co.
- QBF - QBF Co.
- RCH - RCH Co.
- SDI - SDI Co.
- TEJ - TEJ Co.
- UFL - UFL Co.
- VGM - VGM Co.
- WHN - WHN Co.
- XYO - XYO Co.
- ZAP - ZAP Co.
- ABC - ABC Co.
- DEF - DEF Co.
- GHI - GHI Co.
- JKL - JKL Co.
- MNO - MNO Co.
- PQR - PQR Co.
- STU - STU Co.
- VWX - VWX Co.
- YZA - YZA Co.
- BCD - BCD Co.
- EFG - EFG Co.
- HIJ - HIJ Co.
- KLM - KLM Co.
- NOP - NOP Co.
- QRS - QRS Co.
- TUV - TUV Co.
- WXY - WXY Co.
- ZAB - ZAB Co.
- ACD - ACD Co.
- BEF - BEF Co.
- CGH - CGH Co.
- DIJ - DIJ Co.
- EKL - EKL Co.
- FGM - FGM Co.
- HNQ - HNQ Co.
- IPR - IPR Co.
- JQS - JQS Co.
- KRT - KRT Co.
- LSU - LSU Co.
- MVW - MVW Co.
- NXY - NXY Co.
- OZB - OZB Co.
- PAE - PAE Co.
- QBF - QBF Co.
- RCH - RCH Co.
- SDI - SDI Co.
- TEJ - TEJ Co.
- UFL - UFL Co.
- VGM - VGM Co.
- WHN - WHN Co.
- XYO - XYO Co.
- ZAP - ZAP Co.

- ABC - Canadian Ingersoll-Rand Co Ltd
- DEF - Confrane Corp
- GHI - Constancia Gin Co
- JKL - CJA Parsons & Co Ltd
- MNO - Canadian S. Rock Co Ltd
- PQR - Colas Steel & Mfg Co Inc
- STU - Canadian Vulcan Div. Braw-Andri Co
- VWX - Lewis Engineering Corp
- YZA - Diamond & Robinson
- BCD - Duquia Steam Turbine Co
- EFG - Diamond Power Societies Corp
- HIJ - Drake Corp
- KLM - Diamond Specialty Ltd
- NOP - Dextron Stoker Co
- QRS - Erie City Iron Works
- TUV - English Electric Co Ltd
- WXY - Elvick Co
- ZAB - Electric Machinery Mfg Co
- ACD - Electric Div. General Motors Corp
- BEF - Filv Ash Arrestor Corp
- CGH - Fairfield Engineering Co
- DIJ - Fairbanks Morse & Co
- EKL - Foster Wheeler Corp
- FGM - Foster Wheeler Ltd
- HNQ - General Electric Co
- IPR - Green Fuel Economizer Co Inc
- JQS - G & J Weir Ltd
- KRT - General Precision Laboratories, Inc
- LSU - Grisco-Russell Co
- MVW - Graver Water Conditioning Co
- NXY - Hartland Engineering
- OZB - Ingersoll-Rand Co
- PAE - Ingersoll-Rand Co
- QBF - Ingersoll-Rand Co
- RCH - Ingersoll-Rand Co
- SDI - Ingersoll-Rand Co
- TEJ - Ingersoll-Rand Co
- UFL - Ingersoll-Rand Co
- VGM - Ingersoll-Rand Co
- WHN - Ingersoll-Rand Co
- XYO - Ingersoll-Rand Co
- ZAP - Ingersoll-Rand Co

- ABC - James Howden & Co (Canada)
- DEF - John Inglis Co Ltd
- GHI - Koppers Co Inc
- JKL - LA Water Softener Co
- MNO - Link-Belt Co
- PQR - Link-Belt Co
- STU - Link-Belt Co
- VWX - The Luminous Co. Heat Exchanger Div
- YZA - Lanes Dynamo & Crypto
- BCD - Lancashire Dynamo & Crypto Ltd
- EFG - Leeds & Northrup Co
- HIJ - Laclede Stoker Co
- KLM - Montreal Locomotive Works Ltd
- NOP - Maryland Shipbuilding & Drydock Co
- QRS - Grisco-Russell Co
- TUV - Graver Water Conditioning Co
- WXY - Hartland Engineering
- ZAB - Ingersoll-Rand Co
- ACD - Ingersoll-Rand Co
- BEF - Ingersoll-Rand Co
- CGH - Ingersoll-Rand Co
- DIJ - Ingersoll-Rand Co
- EKL - Ingersoll-Rand Co
- FGM - Ingersoll-Rand Co
- HNQ - Ingersoll-Rand Co
- IPR - Ingersoll-Rand Co
- JQS - Ingersoll-Rand Co
- KRT - Ingersoll-Rand Co
- LSU - Ingersoll-Rand Co
- MVW - Ingersoll-Rand Co
- NXY - Ingersoll-Rand Co
- OZB - Ingersoll-Rand Co
- PAE - Ingersoll-Rand Co
- QBF - Ingersoll-Rand Co
- RCH - Ingersoll-Rand Co
- SDI - Ingersoll-Rand Co
- TEJ - Ingersoll-Rand Co
- UFL - Ingersoll-Rand Co
- VGM - Ingersoll-Rand Co
- WHN - Ingersoll-Rand Co
- XYO - Ingersoll-Rand Co
- ZAP - Ingersoll-Rand Co

Central-station installations TABLE 1 continued

BOILER FEED PUMPS				FUELS										FIRING			EQUIPMENT						
Manufacturer	Flow control	Drive	Drive hp	Drive manufacturer	Fuel type	Heating value, 1000 Btu/lb	Ash fusion temp. F	Fuel delivery method	Coal unloading system	Unloading system mfr	Handling system to storage	Handling system mfr	Coal firing equipment	Firing equipment mfr	No pulverizers per boiler	Ash-handling system	Ash-handling system mfr	Suel blower type	Soot blowing medium	Soot blower mfr	Dust collector type	Dust collector mfr	
GE	R	2M	2500	GE	C	13.2	2100	RR	CS	HR	Co	CB	P	CE	4	Pn, Hyd	UC	Ro, Ret	Air	DP	Me	PC	
AC	R	3M	3000	AC	C	10.7	2100	Sh	SU	—	Bu	HR	P	BW	6	Hyd	—	Ro, Ret	Air	DP	El	KC	
WE	R	2M	4000	WE	C	13.3	2000	RR	Dump	HP	Co, Bu	LB	P	CE	4	Pn	ASH	Ro, Ret	Air	CV	Me, El	BU	
GE	R	2T	1215	GE	C	11.0	2000	RR	Dump	LB	Co, Bu	LB	P	CE	4	Pn, Hyd	ASH	Ro, Ret	St	DP	El	RC	
GE	R	2T	1215	GE	C	11.0	2000	RR	Dump	LB	Co, Bu	LB	P	CE	4	Pn, Hyd	ASH	Ro, Ret	St	DP	El	RC	
WE	R	2M	3000	WE	C	13.2	2200	9a	CT	—	Co	—	P	CE	4	Pn, Hyd	—	Ro, Ret	Air	CV	Me, El	RC	
GE	R	3M	3650	GE	C	18.1	—	—	—	—	—	—	—	—	—	—	—	Ret	St	DP	Me	PD	
GE	R	2M	3000	GE	C	1040 ²¹	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
GE	R	2M	3800	GE	C	11.4	2100	3a	CT	—	Co	—	P	FW	3	Hyd	—	Ro, Ret	—	—	—	—	
EL	R	2M	1750	EL	G, O	1097 ²¹	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
EL	R	2M	1750	EL	G, O	1097 ²¹	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
WE	R	2M	1750	WE	G, O	1100 ²¹	—	Pi, RR, Tr	—	—	—	—	—	—	—	—	—	Ret	St	CV	—	—	
GE	R	2M	1750	GE	G, O	1035 ²¹	—	Pi, RR, Tr	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
AC	R	2M	2500	AC	G, O	1070 ²¹	—	Pi, RR	—	—	—	—	—	—	—	—	—	N	—	—	—	—	
GE	R	2M	2500	GE	C	11.8	2150	3a, RR	CS, CT	DR, HR	Co, Bu	HR	P	BW	5	Pn, Hyd	ASH	Ret	St	DP	Me, El	WP	
GE	R	2M	2500	GE	G, O	1060 ²¹	—	Pi, RR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
WE	R	2M	2500	WE	G, O	1060 ²¹	—	Pi, RR	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
WE	R	2M	2250	WE	G, O	1035 ²¹	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
EM	R	3M	2500	EM	C, G	10.4	1900	3a, Pi	Cr	AH	Sc	EJ	P	BW	4	Hyd	ASH	Ret	St	DP	El	RC	
WE	R	2M	1750	WE	C, O	12.3	—	RR	—	—	Co, Bu	Cy	BW	—	Hvd	—	—	—	St	DP	El	TH	
WE	R	2M	2500	WE	C	11.7	2050	3a, RR	CS, CT	—	Co, Bu	CON	Cy	BW	—	Pn, Hyd	—	—	St	—	—	—	
—	R	3M	1250	—	C	11.0	1950	RR	CS	RM	Co	LB	P	CE	4	Hyd	UC	Ro, Ret	Air	DP	Me	WP	
—	R	2M	1000	—	C, G	10.6	1950	RR, Pi	CS	HR	Co	BS	P	CE	2	—	—	—	St	—	—	—	
—	R	2M	1250	—	G	13.2	2490	RR	CS	—	Co	FE	Cy	BW	—	Hyd	ASH	Sta	Air	DP	El	RC	
—	R	2M	1000	—	G	1050 ²¹	—	Pi	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	3M	1500	—	L	9.5	2050	RR	CS	SA	Co, Bu	SA	P	RS	4	Pn	ASH	Ro, Ret	—	CV	Me	AT	
—	R	3M	—	—	C	11.6	2200	Co	—	—	Co	HR	P	RS	3	Pn	UC	Ro, Ret	Air	DP	Me	WP	
—	R	2.5M	1500	—	O ²⁸	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2.5M	1500	—	O ²⁸	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	1500	—	G	1040 ²¹	—	Pi	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	2000	—	WE	1000 ²¹	—	Pi	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	2000	—	AC	11.2	1900	RR	—	—	—	—	P	CE	3	Hyd	—	Sta, Ret	St	DP	—	—	
—	R	2M	1500	—	C	10.4	1900	RR	CS	—	Co, Bu	—	Cy	BW	—	Hyd	—	Ret	St	DP	—	—	
—	R	2M	1000	—	WE	1000 ²¹	—	Pi	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	—	—	—	G, O	1040 ²¹	—	Pi, Tr	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	—	—	—	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	450	—	AC	1000 ²¹	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	—	—	G, O	1000 ²¹	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	—	—	G, O	1000 ²¹	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	1M	—	—	C, O, G	11.3	2030	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	—	—	C	13.0	1350	RR	CS	HR	Co	SA	P	FWL	2	Hyd	ASH	Ro, Ret	St	DP	Me	PD	
—	R	2M	—	—	C, G, Bk	13.0	2600	RR	—	RHB	—	Rhb	P	FWL	2	Pn	UC	—	St	DP	Me	TCC	

SEMI-INDUSTRIAL AND COOPERATIVE INSTALLATIONS

—	R	3	2M	10,000	GE	C	11.6	1950	RR, Tr	Dump	LB	Co, Bu	LB	P	CE	10	Hyd	—	Ro, Ret	St	DP	El	WP
—	R	3M	5000	WE	C	13.2	2100	Sh	SU	—	TS	—	P	BWG	6	Pn, Hyd	—	Ret	St	CV	Me, El	TCC	
—	R	3M	5000	WE	C	13.2	2100	Sh	SU	—	TS	—	P	BWG	6	Pn, Hyd	—	Ret	St	CV	Me, El	TCC	
—	R	3M	3000	BT	C	13.5	2100	Sh	—	—	—	—	P	BWG	6	—	—	Ro, Ret	St	DS	Me, El	TCC	
—	R	3M	3000	MV	C	13.5	2100	Sh	SU	—	Co	LBL	P	GES	5	Pn, Hyd	FEL	Ret	St	DS	Me, El	TCC	
—	R	3M	3000	MV	C	13.5	2100	Sh	SU	—	Co	LBL	P	GES	5	Pn, Hyd	FEL	Ret	St	DS	Me, El	TCC	
—	R	3M	—	HA	C	13.5	2100	Sh	—	—	—	—	P	BWG	6	—	—	—	—	—	—	—	
—	R	2M	—	—	C	13.2	2100	3a	Cr	—	Co	—	P	FWL	4	—	—	—	—	—	—	—	
—	R	3M	1750	EL	G, O	950 ²¹	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	3M	—	—	C, G	11.5	2030	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	1750	GE	C	13.5	—	—	—	—	—	—	—	—	—	—	—	—	Ret	Air	CV	Me, El	
—	R	2M	—	—	C	17.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	1000	EL	G, O	18.2	—	—	Pi, RR	Dump	—	—	—	P	GES	3	—	—	Ret	St	DP	Me, El	
—	R	2M	—	—	C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	400	WE	C	18.5	—	—	—	—	—	—	—	—	—	—	—	—	Ro, Ret	St	DP	Me	
—	R	2M	—	—	C	12.3	1250	3a, RR	CS	—	Co	FE	P	BW	3	Hyd	—	—	Ret	St	DP	Me	
—	R	2M	900	GE	G, O	15.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	2M	1750	EL	C	15.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
—	R	—	—	—	O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

- RS - Riley Stoker Corp
- SA - Stephens-Adamson Mfg Co
- SB - Sulzer Brothers Ltd
- SE - Southwestern Engineering Co
- SP - Springfield Boiler Co
- SA - Sturtevant Div. Westinghouse Electric Corp
- TCC - T. O. Draken Ltd
- TE - Terry Steam Turbine Co
- TEL - Taylor Engineering Co Ltd
- TH - Thermo Corp
- UC - United Conveyor Co
- UCP - United Centrifugal Pumps
- WD - Henry Watt Machine Co
- WC - Water Conditioning, Inc
- WE - Westinghouse Electric Corp
- WEB - Webster Engineering Co
- WF - Western Filter Co
- WM - Whitlock Manufacturing Co
- WO - Worthington Corp
- WP - Western Precipitation Corp
- YU - Yuba Heat Transfer Div
- SYMBOLS USED ABOVE
- Ad - Admiralty
- AdBr - Inhibited Admiralty Brass
- AdD - Admiralty D
- AdI - Admiralty, Inhibited
- Air - Air
- AlBr - Aluminum Brass
- AnAd - Antimonial Admiralty
- AnAdI - Antimonial Admiralty, Inhibited
- AsAd - Arsenical Admiralty
- AsCu - Arsenical Copper
- Ba - Barge
- Bk - Bark
- Br - Brass
- Bu - Bulwazer
- C - Coal Bituminous
- CC - Cross compound
- CG - Chain grate stoker
- CNI - Cupro Nickel
- Co - Conveyor
- Cr - Crane
- CS - Car shaft
- CT - Coal tower
- Cu - Copper
- Cy - Cyclone filter
- De - Demineralizer
- Dump - Dumper
- Dr - Duronite IV
- Ed - Eddy current
- El - Electrostatic
- Ev - Evaporator
- G - Gas

1958 design survey: typical industrial

Note that each listing covers 4 pages. Project number helps you track a specific installation after turning facing page

Project Number	Company	Location	Consulting Engineers	New or existing plant	Date of initial operation	Principal steam use	BOILERS				SURFACE, 1000 SQ FT			
							Oper. press., psig	Oper. steam temp. F	Number new units	Manufacturer	Capacity each, 1000 lb per hr	Boiler and waterwalls	Economizer	Superheater
1600 TO 801 PSIG														
1	Kennecott Copper Corp.	Magna, Utah	Kulhan Corp.	Ex	1-50	Po	1525	1010	1	CE	600	14.65	18.2	32.31
2	Great Northern Paper Co.	Millinocket, Maine	Stone & Webster Engr. Corp.	New	1-58	Po, Pr	1300	855	2	CE	330	17.0		10.4
3	Great Northern Paper Co.	Millinocket, Maine	Stone & Webster Engr. Corp.	New	3-58	Po, Pr	1300	855	1	CE	330	17.0		10.4
4	Fraser Companies Limited	Edmundston, N. B., Canada	H. G. Acres & Co. Ltd.	Ex	6-58	Po, Pr	1250	950	1	CE	220	4.9		
5	Abitibi Corp.	Auburn, Michigan	Stone & Webster Engr. Corp.	New	1-58	Po, Pr	900	825	2	BW	80	8.6	5.8	1.27
6	Texas Co.	Port Arthur, Texas	Jackson & Moreland	New	1-58	Po, Pr	900	750	3	RS	300	31.0		4.26
7	Brown Company	Berlin, N.H.	Jackson & Moreland		6-57	Po, Pr	885	775	1	CE	225	18.0		
8	Container Corp. of America	Fernandina Beach, Florida	Reynolds, Smith & Hill		8-57	Po, Pr	875	825	1	BW	138	25.0	5	5
9	Bowaters Carolina Corp.	Catawba, South Car.	United Engrs & Constructors, Inc.		1959	Po	850	825	1	BW	208	37.0	6.8	14.5
10	Hammermill Paper Co.	Erie, Pa.	Rust Engineering Co.	Ex	8-59	Pr	675	700	1	RS	206	22.5	5	
11	Texas Company	Anacortes, Wash.	Bectel Corp.	New	1958	Pr	650	700	2	EC	225	23.0		2.7
12	Texas Company	Anacortes, Wash.	Bectel Corp.	New	1958	Pr	650	700	1	BW	225	21.0	11	
13	Southland Paper Mills, Inc.	Lufkin, Texas			10-58	Po	655	765	1	CE	150	15.9		
14	Canada and Dominion Sugar Co., Ltd.	Toronto, Canada	H. G. Acres & Co. Ltd.	New	1958	Po, Pr, Sh	625	750	1	BWG	100	15.2		2.24
15	East Texas Pulp and Paper Co.	Evadale, Texas	H. A. S. Sons	Ex	10-58	Pr	625	750	1	CE	243	30.7	10.1	12.3
16	Charles Pfizer & Co.	Graston, Conn.	Laramore, Douglass and Poonam	Ex	4-59	Pr	625	750	1	CE	165	16.2		
17	Southland Paper Mills, Inc.	Herty, Texas			10-58	Po, Pr	625	750	1	CE	33.5	12.7	3.25	4.48
18	Standard Oil Co. (Indiana)	Neodesha, Kansas		Ex	8-58	Pr	625	710	1	VO	175	14.6		2.69
800 TO 401 PSIG														
19	Deere & Co.	Moine, Ill.		New	11-58	Po, Pr, Sh	600	750	1	RS	135	17.0	6.7	
20	Deere & Co.	Moine, Ill.		New	11-58	Po, Pr, Sh	600	750	1	RS	135	17.0	6.7	
21	Manchester Board & Paper Co.	Richmond, Va.	Blackburn, Brown & Blairell	Ex	3-58	Po, Pr	600	700	1	BW	65	6.7		
22	Northwest Paper Co.	Brainerd, Minn.		Ex	11-58	Pr	600	750	2	BW	75	15.6		
23	Odessa State Line Co.	Odessa, Texas	Fluor Corp.	New	9-57	Po, Pr	600	750	2	VO	130	13.0		2.03
24	Vickers Petroleum Co.	Pawin, Kansas	Procon	New	6-58	Pr	600	466	1	VO	12	1.53		
25	Corn Products Refining Co.	Peekin, Illinois	Sargent & Lundy		7-59	Po	450	580	1	CE	270	21.7		1.9
26	Rain Packing Co.	Waterloo, Iowa	Hermit & Lutz	Ex	9-57	Po, Pr	450	750	1	WI	125	20.0		2.6
27	Synstone Refining Co.	Viola, Texas		Ex	8-58	Pr	450	625	1	VO	85	8.75		0.58
28	Union Starck & Refining Co.	Granite City, Ill.	Rogers-Schmidt Engr. Co.	Ex	7-59	Po, Pr	450	750	1	VO	125	15.6	3.45	
29	Florida State Hospital	Chattahoochee, Florida	Reynolds, Smith & Hill	Ex	3-59	Po	425	575	1	RS	90	7.2		
30	St. Regis Paper Co.	Sartell, Minn.	Pfeifer & Schuitz	Ex	1-58	Po, Pr	415	750	1	WI	90	15.2		1.62
400 TO 200 PSIG														
31	Aljoma Steel Corp. Ltd.	Sault Ste. Marie, Ont., Can.	Arthur G. McKee & Co. of Canada	Ex	11-58	Po	400	750	1	FWL	175	23.3		
32	Utah Oil Refining Co.	Salt Lake City, Utah	Stearns-Roger Mfg. Co.	Ex	3-58	Po	310	540	1	BW	138	14.9	5.58	9.34
33	Calumet Chemical Co.	Muskogee, Okla.	Ralph M. Parsons Co.	New	7-58	Po, Pr	300	472	3	WI	150	14.5		
34	Carthage Paper Makers Inc.	Carthage, N.Y.	Zack C. Hinds	Ex	1-58	Po, Pr	300	475	1	BW	50	5.6	3.7	0.38
35	Mead Johnson & Co.	Evansville, Indiana		Ex		Pr	300	Sat	1	CE	55	9.09		
36	United States Rubber Co.	Chicopee Falls, Mass.		Ex	12-58	Pr	300	Sat	1	RS	90	10.7	2.6	
37	General Tire & Rubber Co.	Wabash, Indiana	J. A. Young Co.	Ex	11-57	Pr	250	Sat	1	BW	40			
38	Owens-Illinois Glass Co.	Bridgeton, New Jersey		Ex	10-58	Pr	250	460	1	RS	70	10.0	2.25	0.4
39	United States Plywood Corp.	Roseburg, Oregon			3-58	Pr	250	500	1	K	147			
40	St. Olaf College	Northfield, Minnesota			4-58	Po	240	450	1	RS	50	5.95		
41	Northwestern States Hospital	Macomb, Ohio		Ex	4-58	Po, Sh	235	401	2	BW	30	10.8		
42	Owens-Corning Fiberglass Corp.	Newark, Ohio		Ex	1-58	Pr	235	550	1	RS	40	5.0	9.0	
43	Marquardt Aircraft Company	Ogden, Utah		Ex	12-58	Sh	220	370	1	CE	121.9	1.1		
44	Reynolds Tobacco Co.	Lexington, Kentucky	Stone & Webster Engr. Corp.	New	3-58	Po, Sh	220	395	3	EC	10	4.55		
45	Imperial Paper Co.	Millwood, Washington		Ex		Po	200	Sat	1	CE	100	9.92		
100 TO 125 PSIG														
46	University of New Hampshire	Durham, New Hampshire	Jennison Co.	Ex	10-58	Sh	195	Sat	1	BW	39	4.83		
47	Farmer's Union Terminal Exchange	Laurel, Montana			3-58	Pr	175	Sat	1	VO	200			
48	Grain Processing Corp.	Muscatine, Iowa		Ex	10-58	Pr	170	Sat	2	P	40	5.5	2.0	
49	R. J. Reynolds Tobacco Co.	Stokes County, North Carolina	Stone & Webster Engr. Corp.	New		Pr	170	375	3	BW	70	7.73		
50	Domitona Paper Co.	Jonhanna, Quebec, Canada		Ex	4-58	Pr	165	500	1	FW	122	11.3		6.65
51	Mowest Manufacturing Co.	Salesburg, Illinois				Pr	165	360	1	BW	50	6.26		
52	Carli-Kandolin Corp.	Chicago, Illinois	Brooke & Chappuis	Ex		Sh	160	338	3	BW	30	3.72		
53	Norton Co. Steel Manufacturing	Crav, New York	J. J. Ross	Ex	7-57	Pr, Sh	150	367	1	FHW	132.8			
54	W. D. DuBois Chemicals & Co.	Washington, Delaware				Pr	150	Sat	1	BW	90	7.4		
55	Wetzel Center Brake Company	Chicago, Illinois	Stone & Webster Engr. Corp.	Ex	12-59	Sh	150	400	1	BW	40	10.23	4.19	
56	W. D. DuBois Chemicals & Co.	Chicago, Ill.	J. J. Platt & Carlson	Ex	12-58	Pr, Sh	145	400	1	WI	80	10.76		0.22
57	Chattanooga State Hospital	Chattanooga, Tenn.	Dumhart & Miller	Ex	4-58	Pr, Sh	130	Sat	1	CE	90	7.90		
58	Thompson Submarine Cable Co.	Irving, Texas	Dumhart & Miller	Ex	4-58	Pr, Sh	130	Sat	2	EC	90	9.52		
25 TO 100 PSIG														
59	Chlorine Chemicals Co.	Los Angeles, California	Less Kellie	Ex	10-57	Pr, Sh	125	Sat	1	BW	50	6.0		
60	Chlorine Chemicals Co.	Los Angeles, California	J. B. Richardson & Co.	New	1-57	Sh	125	Sat	2	K	120	16.5		
61	Chlorine Chemicals Co.	Los Angeles, California	J. B. Richardson & Co.	New	1-57	Sh	125	Sat	1	K	90	8.3		
62	Chlorine Chemicals Co.	New Bedford, Massachusetts	J. B. Richardson & Co.	Ex	10-57	Pr, Sh	120	Sat	1	BW	100	9.52		
63	Chlorine Chemicals Co.	New Bedford, Massachusetts	Kummersly & Stuard	Ex		Sh	115	Sat	1	BW	50	8.01		
64	Chlorine Chemicals Co.	New Bedford, Massachusetts	Penney & Weyerberg	Ex		Pr, Sh	100	Sat	1	K	10			
65	Chlorine Chemicals Co.	New Bedford, Massachusetts			3-58	Pr, Sh	100	338	1	K	33			
66	Chlorine Chemicals Co.	New Bedford, Massachusetts				Sh	100	Sat	1	K	33			

- 66 - Ballcock float
- 67 - Bucket elevator
- 68 - Belt
- 69 - Capacity discharge bucket elevator
- 70 - Choker
- 71 - Block loader
- 72 - Roller
- 73 - Conveyor
- 74 - Drive pulley
- 75 - Drive pulley
- 76 - Drive pulley
- 77 - Drive pulley
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- 100 - Drive pulley

Design survey of typical industrial plants

Plant Number	F. D. FANS			I. D. FANS			AIR & GAS FLOW CONTROL		SOOT BLOWERS			Ash handling system	Manufacturer	FEED WATER PUMPS					WATER TREATMENT			
	No. and drive	Fan mfr	Drive mfr	No. and drive	Fan mfr	Drive mfr	Air flow	Gas flow	No. per boiler	Type	Manufacturer			No. per boiler	Pump mfr	Drive	Drive mfr	Pump control	Use	Flow rate	Softening	Deminceralizing
1	2M	AB	GE	2M	AB	GE	D.V	S.D	22	St	CV	Hyd	ASH	3	BPC	M	GE	R	31	60	HLZ	
2	1M	DF	EL	1M	SA	WE	D	D	14	St	DP			1	IR	T	GE	R	31	600	Ca	Mu
3	1M	GF	EL	1M	SA	WE	D	D	14	St	DP			1	IR	T	GE	R	31	600	Ca	Mu
4	1M	SA		1M	SA		V	D	4	St	DP	Ph	UC	2	DL	T	WE	R	31	315		Mu
5	1M	DF	WE	1M	GF	WE	D	D	1	St	DP	Ph	NC	1	DL	M	WE	R	31		HLZ	
6	1M	SW	EL											1	31	M.T Du	EL	R		2000		Mu
7	1M	SW	WE	1M	SW		V	D	11	St	DP	Ph		2	IR	T	WE	R	31		HLZ	Mu
8	1M	SW		1M	SW		V	D	11	St	DP			1	IR	T	WE	R	31		HLZ	
9	1M	SW		1M	BF		V	D	2	St	CV	Ph	UC	2	WO	2M		R	31	1760	HLZ	
10	2T	AB	WE				V	V	14	St	CV	Ph	UC	1	BPC	Du	WE	S R	31	1600	CLZ	
11	2T	AB	WE				V	V	14	St	CV			1	BPC	Du	WE	S R	31	1600	CLZ	
12	1M	AB	AC	1M	AB	AC	V	D	4	St	DP	Ph	UC	1	IR	T	EL	S				
13	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
14	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
15	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
16	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
17	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
18	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
19	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
20	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
21	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
22	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
23	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
24	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
25	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
26	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
27	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
28	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
29	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
30	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
31	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
32	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
33	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
34	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
35	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
36	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
37	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
38	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
39	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
40	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
41	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
42	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
43	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
44	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
45	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
46	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
47	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
48	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
49	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
50	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
51	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
52	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
53	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
54	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
55	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
56	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
57	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
58	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
59	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
60	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
61	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
62	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
63	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
64	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
65	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
66	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
67	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
68	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
69	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
70	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
71	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
72	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R			210	
73	1M	DF	AC	1M	DF	AC	V	D	3	St	DS	Ph	TEC	2	DIR	M	DGE	R	</			

Typical hydroelectric plants continued

Project No.	Company or government agency	Designing or consulting engineers	Project name	New or redeveloped	River	State	Projected start year	Dam, type	Crest length, ft	Max. height, ft	Type of powerhouse
PACIFIC COAST STATES, Cont.											
64	California Oregon Power Co.	Pioneer Service & Engineering Co.	Eagle Point	New	Canal	Ore.	1956	CG	120	15	I
65	U. S. Army Engineers	U. S. Army Engineers	Hills Creek	New	M. F. Williams	Ore.	1956				I
66	U. S. Army Engineers	U. S. Army Engineers	Gaugar	New	McKenzie	Ore.	1956	RF			I
67	U. S. Bureau of Reclamation	U. S. Bureau of Reclamation	Green Springs	New	Emigrant Creek	Ore.	1956				O
68	Idaho Power Co.	International Engr. Co. J. P. Growdon	Brownlee	New	Snake	Ore. & Calif.	1955	E & RF	1,320	395	O
69	Idaho Power Co.	H. C. Steer & Harold Stearns	Odowd	New	Snake	Idaho	1955	E & RF	1,100	200	O
70	Pacific Gas & Electric Co.	Pacific Gas & Electric Co.	Poe	New	Snake	Calif.	1954	CG	430	60	S
71	Pacific Gas & Electric Co.	Pacific Gas & Electric Co.	Butt Valley	New	Butt Creek	Calif.	1956	HF	1,250	130	I
72	Pacific Gas & Electric Co.	Pacific Gas & Electric Co.	Caribou No. 2	New	Feather	Calif.	1956	Earth	1,370	80	I
73	Pacific Gas & Electric Co.	Pacific Gas & Electric Co.	Belden	New	Feather	Calif.	1957	CG	505	150	I
74	Pacific Gas & Electric Co.	Pacific Gas & Electric Co.	Kings River	New	Kings	Calif.	1959	Arch	190	183	O
75	Pacific Gas & Electric Co.	Pacific Gas & Electric Co.	Balch	Red	Kings	Calif.	1956	Arch	388	148	O
76	Pacific Gas & Electric Co.	Pacific Gas & Electric Co.	Hias	New	Kings	Calif.	1955	RF	950 2,350	360 270	U
77	Southern California Edison Co.	I. Campolli, J. Rindis, K. Terzaghi S. D. Wilson, G. R. Rankin, Bechtel Corp. & So. Calif. Edison Engrg. Dept.	Mammoth Pool	New	San Joaquin	Calif.	1958	EF	820	330	O
78	Sacramento Municipal Utility Dist.	Bechtel Corp. & F. F. Bonner Consultant B. & S. Erdrup & Parcel	Jaybird	New	American	Calif.	1958				I
79	City & County of San Francisco	Consultant B. & S. Erdrup & Parcel	Cherry	New	Cherry	Calif.	1955	E & RF	2,600	330	I
80	Dakota & San Joaquin Irr. Dist.	Tri-Dam Goodenough Engineering Co.	Tri-Dam Tuleton	New	Stanislaus	Calif.	1955	CG	1,620	200	I
81	Dakota & San Joaquin Irr. Dist.	International Engineering Co. & George E. Goodall Co.	Tri-Dam Donnellis	New	Stanislaus	Calif.	1955	CA	300	477	I
82	Dakota & San Joaquin Irr. Dist.	George E. Goodall Co.	Tri-Dam Beardslay	New	Stanislaus	Calif.	1955	EF	1,000	320	I
U. S. POSSESSIONS											
83	Ketchikan Public Utilities	R. W. Peck & Associates	Ketchikan Lake	Red		Alaska	1957	RF	1,197	35	I
CANADA											
PROVINCE											
84	Newfoundland Light & Power Co. Ltd.	Montreal Engineering Co.	Rattling Brook	New	Rattling Brook	N.F.	1957	Earth	3,500	40	I
85	United Towns Electric Co. Ltd.	Power Corp. of Canada Ltd.	New Cheseba	New	Cheseba	N.F.	1955	Earth			I
86	Union Electric Light & Power Co. Ltd.	G. H. Desjarais	Lockston	New	Trinity	N.F.	1954	CG	200	10	I
87	United Towns Electric Co. Ltd.		Lookout Brook	New		N.F.					I
88	Bowater Power Co. Ltd.	Shawinigan Engineering Co.	Corner Brook	New	Corner Brook	N.F.	1956	CG	98	25	I
89	Nova Scotia Light & Power Co. Ltd.	Company Engineers	Avon No. 1	Red	Avon	N.S.	1957	EF	900	45	I
90	Nova Scotia Power Commission	N. S. Power Comm. & K. E. Whitman	Ridge	New	Bear	N.S.	1956	EF-CW	2,966	42	I
91	New Brunswick Electric Power Comm.	Shawinigan Engineering Co.	Beachwood	New	St. John	N.B.	1955	CG	380	100	I
92	Quebec Hydro-Electric Commission	H. G. Acres & Co.	Bersimis No. 1	New	Bersimis	Que.	1953	RF	1,942 2,215 200 200	230 200	U
93	Quebec Hydro-Electric Commission	H. G. Acres & Co.	Bersimis No. 2	New	Bersimis	Que.	1956	CG EF EF	2,000 1,600 3,300	290 40	I
94	Quebec Hydro-Electric Commission		Beauharnois No. 1	New	St. Lawrence	Que.	1929				I
95	Quebec Hydro-Electric Commission	H. G. Acres & Co.	Beauharnois No. 2	New	St. Lawrence	Que.	1948	P & G	4,500	31	I
96	Quebec Hydro-Electric Commission	H. G. Acres & Co.	Beauharnois No. 3	New	St. Lawrence	Que.	1956				I
97	Shawinigan Water & Power Co.	Shawinigan Engineering Co.	Beaumont	New	St. Maurice	Que.	1956	CG	1,575	135	S
98	Aluminum Company of Canada	H. G. Acres & Co.	Chute des Passes	New	Peribonka	Que.	1956	CG	1,156	170	U
99	Mancouagan Power Co.	H. G. Acres & Co.	McCormick Dam	New	Mancouagan	Que.	1951	CG	4,575	95	I
100	Price Brothers & Co.	Montreal Engineering Co.	Chute Wilson	New	Shoepshaw	Que.	1956				I
101	Eastern Smelting & Refining Corp.	Montreal Engineering Co.	Smelter Power	New	Chicoutimi	Que.	1955	CG	460	50	I
102	James Mac Intyre Co.	Shawinigan Engineering Co.	Dufferin Falls	New	Livre	Que.	1957	CG	700	94	I
103	E. B. Leav Co.		Hull	Red	Ottawa	Que.	1956				I
104	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Sir Adam Beck Niagara No. 2	New	Niagara	Ont.					I
105	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Sir Adam Beck Niagara No. 2	New	Niagara	Ont.	1952	RF	2,437	68	O
106	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Robert H. Saunders	New	St. Lawrence	Ont.	1954	CG	3,120	145	S
107	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Manitou Falls	New	English	Ont.	1953	CG	1,069	40	I
108	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Whitford Falls	New	Whitford	Ont.	1955	CG	1,120	30	I
109	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Caribou Falls	New	English	Ont.	1956	CG & EF	1,300	75	I
110	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Silver Falls	New	Kaministiquia	Ont.	1957				I
111	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Alexander Falls	New	Niagon	Ont.	1926	EF	750	90	I
112	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Cameron Falls	New	Niagon	Ont.	1918				I
113	Hydro-Electric Power Comm. of Ontario	Hydro-Electric Power Comm. of Ontario	Abitibi Canyon	New	Abitibi	Ont.	1930				I
114	Great Lakes Power Co.	Harza Engineering Co.	Car Falls	New	Michipicoten	Ont.	1957	CG & EF	1,500	140	I
115	Great Lakes Power Co.	Harza Engineering Co.	Carthage Falls	New	Montreal	Ont.	1956	CG	1,100	130	I
116	Great Lakes Power Co.	Harza Engineering Co.	Upper Falls	New	Montreal	Ont.	1955	CG	1,300	40	I
117	Manitoba Hydro-Electric Board	H. G. Acres & Co.	Kelsey	New	Nelson	Man.	1957	RF	350		I
118	Manitoba Hydro-Electric Board	H. G. Acres & Co.	Laure River No. 2	New	Laure	Man.	1956	CG	1,000	65	I
119	Manitoba Hydro-Electric Board	H. G. Acres & Co.	Island Falls	New	Sask.	Sask.	1956				I
120	Tasara Power Co.	Montreal Engineering Co.	Cascade Extension	New	Cascade	Alta.	1956				I
121	Tasara Power Co.	Montreal Engineering Co.	Rumple	New	Bow	Alta.	1950	Earth			I
122	Tasara Power Co.	Montreal Engineering Co.	Spray	New	Spray	Alta.	1948	R & EF	625	190	I
123	Aluminum Company of Canada	B. I. International Engrs. Co.	Kemano	New	Nechako	B.C.	1951	RF	1,350	319	U
124	British Columbia Electric Co.	B. I. International Engrs. Co.	Selon	New	Selon & Coombs Creek	B.C.	1954	TC CG	800 450	20 25	I
125	British Columbia Electric Co.	B. I. International Engrs. Co.	Cheakamus	New	Cheakamus	B.C.	1954	EF	2,000	90	I
126	British Columbia Electric Co.	B. I. International Engrs. Co.	Bridge No. 2	New	Bridge	B.C.	1956	EF	1,300	175	I
127	British Columbia Electric Co.	B. I. International Engrs. Co.	Downham	Red	Downham	B.C.	1956	CG	1,250	73	I
128	British Columbia Electric Co.	B. I. International Engrs. Co.	La Ode	New	Bridge	B.C.	1956	RF	3,390	272	S
129	British Columbia Electric Co.	B. I. International Engrs. Co.	Labore	New	Campbell	B.C.	1955	CG			S
130	British Columbia Electric Co.	B. I. International Engrs. Co.	Upper Campbell Lake	New	Campbell	B.C.	1955	EF	1,100	170	I
131	British Columbia Electric Co.	B. I. International Engrs. Co.	Amulet	New	Amulet	B.C.	1957	EF	305	100	I
132	British Columbia Electric Co.	B. I. International Engrs. Co.	Dawson Creek	New	Dawson Creek	B.C.	1956				I
133	British Columbia Electric Co.	B. I. International Engrs. Co.	Mead River	New	Mead	Yukon	1951	Earth	300	100	I
134	British Columbia Electric Co.	B. I. International Engrs. Co.	Yukon	New	Yukon	Yukon	1950	EF	260	63	I

45G - Ansaldo-San Giorgio
 58 - Brown, Govers, Carr
 3L - Baldwin Lima-Hamilton Corp.
 DEC - Dominion Engine
 EC - Elliott Co.
 CBS - Charles Barber & Sons
 ICF - International
 CVL - Canadian Victoria
 CWC - Canadian Westing
 DEC - Dominion Engine
 EC - Elliott Co.
 CBS - Charles Barber & Sons
 ICF - International

continued

Typical packaged-boiler installations

Company & Location	Consulting engineers	First operation, new units	Operating pressure, psig	Operating temperature, F	Number of boilers	Capacity, each, 1000 lb per hr	Manufacturer	Boiler type	Firing equipment	Firing equipment manufacturer	Combustion control manufacturer	Draft system	Fan manufacturer	Low water cut-off and feedpump control manufacturer	Water column manufacturer	Feedwater pumps	Feedwater pump manufacturer	Feedwater treatment	
Gardner Machine Co. Beloit, Wis.	Milwaukee heat transfer Div.	4-58	150	366	1	3.5	YS	FT	G	MHI	COM	Fo	GF	FS	FS	3-M	BC	De So	
Gardner Machine Co. Beloit, Wis.	Milwaukee heat transfer Div.	4-58	150	366	2	20	BW	WT	G	MHI	COM	Fo	GF	FS	FS	3-M	BC	De So	
General Motors Corp. Allison Div. Yandana, O			150	300	1	45	CE	WT	0	0		Fo	GF	RG	RG	2-M, 1-T	IR	So	
Goodhue Corp. Creamery, Goodhue, Minn.	C. D. Bremer		150	300	1	10	AI	FT	0	0		Fo	AI	GP	AI	M	GP	Int	
Homestead Mining Co. Grants, N. Mex.	Western Knapp Engrg Co.	3-58	150	366	3	13.8	AI	FT	G, O	AI	GC	Bal	AI	AI	AI	1-M	AU	So	
Illinois Central R.R. Co. Louisville, Ky.			150		2	5.2	CB	FT	G, O	CB	COM	Fo	CB	MM	MM	2-M	AU	So, Int	
International Bus Machn. Kingston, N.Y.	Giffels & Vale		150	366	1	40	WT	WT	0	0		Bal	AB						
McDonnell & Sons, Inc. Walla Walla, Wash.			150	366	1	10.4	OS	FT	0	OS	COM	Fo	OS	OS	OS	3-M		De	
Person's Lumber Co. Emeryville, Calif.	Montgomery & Davis		150	300	1	30	CE	WT	G, O	CC	RIM	Fo				2-M		So	
Procter & Gamble Co. Cincinnati, Ohio		5-59	150	366	2	22	VO	WT	G, O	PE	PE	Fo	CF		RG	1-M, 1-T	GP	So	
St. Joseph Hospital, Chatam, Ont.	Nicholas Fodor Assoc. Ltd.	4-58	150	366	3	12	CB	FT	G, O	CB	MH	Fo	CB	MA	MA	2-M, 1-T	DA	De	
St. Peter's Hospital, New Brunswick, N.J.		4-58	150	500	1	11	BW	WT	0	TS	BW	Fo			RG	3-T		Int	
Standard Oil Co. of Calif. Richmond Bch Calif.		1-58	150	300	1	40	CE	WT	0	CE	CE	Fo	CF	RG	RG	1-M, 1-T	BF, WO	So	
Tolpado Hospital, Toledo, Ohio	Elterbe & Co.		150	300	2	40	K	WT	G, O	X	4F	Fo	CF	SC	RG	1-M, 1-T	2HP	So	
Trojan Hardware Co. Green Island, N.Y.	L. Rosetti		150	300	1	17.3	OS	FT	0	OS	COM	Fo	OS	OS	OS	1-M	IR	Int	
Vickers Petroleum Co. Patwin, Kans.	Procar	6-58	150	300	2	30	VO	WT	G, O	PE	PE	Fo		RG	RG	2-M	AC	So	
149 TO 155 PS10																			
Allen Mfg Co. Bloomfield, Conn.		8-58	125	353	2	24	CE	WT	G, O	CE	OPE	Fo	CF	RG	RG	1-M, 1-T	WO	Int	
American Airlines, Tulsa, Okla.	Coston & Frankfort	7-58	125		3	25	B	WT	G	AEB	AEB	Fo		F	F	1-M, 1-T	GP	So	
Beckett Laundry, Dalton, Ga.	Bob Johnson Co.	9-58	125	151	1	30	CE	WT	G, O	PE	PE	Fo		CV	RG	1-M, 1-T	BF	So	
Blarey Laundry, Trenton, N.J.	George London	7-58	125	151	1	25.5	K	WT	0	IH	AWC	Bal	ST	MA	RG	2-T	IR, WO	So, Int	
Dundee Corp. Creamery Ltd. New Dundee, Ont.		5-58	125	353	1	21	FWL	WT	0	PE	PE	Fo		DY		2-M	STM	So, Int	
Empire Laundry, Baltimore, Md.	Power & Combustion	1-58	125		1	17.3	AI	FT	0	AI	COM, MH	Fo		MM		2-M	FS	So	
Ford Motor Co. Rawsonville, Mich.	J.F. Pritchard & Co.	11-50	125	353	3	40	UI	WT	G, O		MH	Fo	SW			1-T	3F	So	
R.T. French Co. Shelly, Idaho	Henry Peck Assoc.	7-57	125		1	17.3	CB	FT	G, O	CB	Fo		MA	MA	2-M			So	
R.T. French Co. Shelly, Idaho	Henry Peck Assoc.	9-58	125		1	22	K	WT	G	PE	COM	Fo				1-M	FM	So	
W.A. Gundry Canada Ltd. New Toronto, Ont.			125	353	1	30	FWL	WT	G, O	PE	PE, MH	Int		MH	MA	2-M, 1-T	AL, DJW	So	
Hot Springs Co. Mem. Hospital, Ther. Hosp., Wv.		1-59	125	353	3	5.7	UI	WT	G, O			Fo		MM				So	
New Jersey State Prison, Trenton, N.J.	Grady & Meyer	5-58	125	353	1	40	SCJ	WT	0		HC, COM			RG	RG	1-T	UP, PP	So	
Orange County Mem. Hospital, Orange, Calif.	A.M. Hagler		125	353	1	20	BW	WT	G, O	BW	3M	Fo	GF	3M	RG	1-M	DL	So	
Texas Co. Brason, N.Y.		10-58	125	353	1	36	CE	WT	0	CC	HCC	Fo	AB	RG, CV	RG	2-T	IR, DBP	Int	
U.S. Navy, Whiting Field, Milton, Fla.			125	353	1	27.5	CE	WT	G, O	CE									
124 TO 101 PS10																			
Alexian Brothers Hospital, St. Louis, Mo.	H. Wilson & Assoc.		115	347	1	18	CE	WT	G, O	CC	CC	Fo	AB	RG	RG	2-T	UP	So, Int	
A.F. Mutch Co. Paw Paw, Mich.		4-57	115	347	1	20.7	CB	FT	G	CB	CB	Fo	CB	MA	MA	1-M	FS	So, Int	
Beafoot Sate Co. Wadsworth, Ohio	Urban, Klug & Pittenger	3-58	110		1	30	BW	WT	G	BW	BM	Fo	GF	RG	RG	1-M, 1-T	PA	So	
100 PS10																			
Beth Memorial Hospital, Green Div., Wis.	John Myers		100	338	1	10	CE	WT	G, O	PE	PE	Fo	CF	RG	RG	2-M	FS	So	
Boring Airplane Co. Moses Lake, Wash.	Burton & Griffin	5-58	100	338	2	45	CE	WT	0	EN	RF	Fo	CF	CV	CV	2-M, 1-T		De, So	
Devoe & Harbison Co. Louisville, Ky.	E.R. Ronald & Assoc.	1-58	100		1	20	VO	WT	G, O	PE	PE	Fo	CF	RG	RG	1-M	AU		
Federal Canteen Corp. Annapolis, Md.		7-58	100	338	2	40	B	WT	0	PE	CV	Int	CF	CV	CV	1-T	DHP	So	
John Sumner Hospital, Madison, Wis.	C. J. Lunnie		100	338	3	15	BW	WT	G, O	BA	CV	Fo	GF	3M	RG	1-M, 1-T	IR	So, Int	
John Sumner Hospital, Lebanon, Pa.	George Ewing	4-57	100	338	3	3.5	CB	FT	G, O	CB	COM	Fo	CB	MA	MA	3-M		So	
Madison-Walker Airrac Co. Hammond, Ind.		10-57	100	338	1	21	CE	WT	G, O	CE	CE	Fo	CF	CV	RG	2-M	BJ	Int	
Line Division, Corning Corp. Newark, N.J.		1-58	100	338	1	13.8	AI	FT	0	AI	COM	Fo	AI					So	
Perkins McManis, Lemont, Ill. Div.	Praxair, Phos. Inc.		100	350	4	4.3	VL	FT	0	YW	COM	Fo	VL	AL	MM	1-M	NY		
Phos. Power Project, W. Malone, Ill.	Praxair, Phos. Inc.		100	350	1	5.2	VL	FT	0	YW	COM	Fo	VL	AL	MM	1-M	NY		
Phos. Power Project, W. Malone, Ill.	Praxair, Phos. Inc.		100	350	3	5.5	VL	FT	0	YW	COM	Fo	VL	AL	MM	1-M	NY		
Phos. Power Project, W. Malone, Ill.	Praxair, Phos. Inc.		100	350	3	2.4	VL	FT	0	YW	COM	Fo	VL	AL	MM	1-M	NY		
Praxair, Phos. Inc.			100	350	1	10	K	WT	0	PE	HCC	Bal	LVA		RG	1-T	AW	Int	
Stirling-Winterop Re. Lab. Pennsylvania, N.Y.			100																
Union Carbide Nuclear Co. Madison, Ind.	Southwestern Engrg. Co.	4-57		105	2	10.5	HW	WT	0	TS	FD	Int	SA			2-M	2HP	So	
Yarns, Stearns Co. Madison, Ind.	Barnes Engrg. Co.	12-57			1	27	K	WT	0	LS	CV	Bal	AE, PD	CV			2-M	PPD	So, Int
Bishop's Co. Madison, Pa.		12-58			1	15.1	CE	WT	0	CC	CC	Fo	CC				2-M		So
U.S. Naval Air Station, Columbus, Ind.	Brewster's Mach.	1-58			2	1.1	HW	WT	0	PE		Fo	CF	MM			2-M	AW	Int

- GD - General Controls Co.
- GF - Green Fuel Evaporator Co. Inc.
- GW - G.S. Water Ltd.
- GP - Gous Pumps, Inc.
- GV - Greiner Water Conditioning Co.
- HO - Harsco Corp.
- HCC - Hazen Chemicals & Controls, Inc.
- HM - H.M. Miller Corp.
- HW - Henderson's Press, Inc.
- ISW - International Boiler Works
- IR - International Pump Co.
- JA - J.A. Water Softener Co.
- JW - J.W. King Mfg. Co.
- LS - Luskhoe Sproker Co.
- LU - Lunkenheimer Co.
- MA - Magnetrol, Inc.
- MH - Minneapolis Honeywell Regulator Co.
- MM - Milwaukee Heat Transfer Div.
- MM - McDonnell & Miller, Inc.
- MW - Monarch Mfg. Works, Inc.
- NA - National Automatic Corp.
- NM - North American Yogurt Products Co.
- OS - Orr & Semower, Inc.
- PA - Pennsylvania Pump & Compressor Co.
- PB - Penberthy Mfg. Co. Div. of the Buffalo Engine Corp.
- PC - The Permutit Co.
- PD - Pratt-Daniel Corp.
- PE - Peabody Engineering Corp.
- PH - Patti B. Purette Co. Inc.
- PP - Pacific Pumps, Inc.
- PPD - Peerless Pump Div. Food Machinery & Chemical Corp.
- PS - Pumps & Sumpers Ltd.
- RF - Republic Flow Meters Co.
- RG - Reliance Gauge Column Co.
- RIM - Reliance Instrument Mfg. Co.
- RS - Riley Sproker Corp.
- SC - Swartout Co.
- SCH - Strong, Carlisle & Hammond Co. Inc.
- SCI - Superior Combustion Industries Inc.
- SP - Springfield Sproker Co.
- ST - Spencer Turbine Co.
- STM - Stuart-Turner Machine Co. Ltd.
- SW - Sturtevant Div. Westinghouse Electric Corp.
- TE - Terry Steam Turbine Co.
- TS - Todd Shipyards Corp. Prod. Div.
- UP - Union Iron Works
- UL - Union Steam Pump Co.
- RS - Riley Sproker Corp.
- VL - Volcano Ltd.
- VO - Vought-John Machine Co.
- WA - Wright-Austin Co.
- WEB - Webster Engineering Co.
- AI - Aircase Boiler Co.
- AO - Aorington Corp.
- NS - Nelson-Spencer Works, Milwaukee
- SS - States Steel Corp.
- ASP - A.S. Power Steam Pump Co.
- FS - Fox-Shopey Inc.