

PLAINTIFF'S EXHIBIT

WH-1053

Dear Building a more powerful America

POWER

DECEMBER 1957
ONE DOLLAR
A MCGRAW-HILL PUBLICATION

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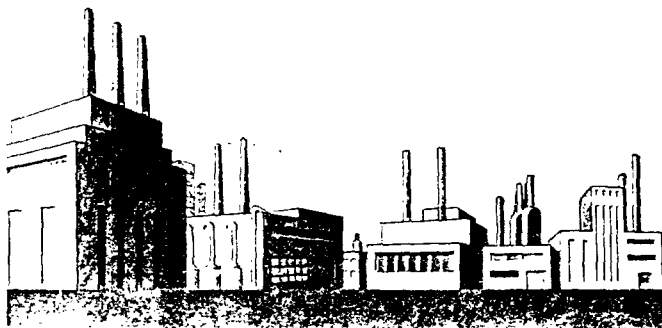
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The new ...

MODERN PLANT SURVEY



ATS IN THE UNITED STATES AND CANADA

[illegible]

1957 Design Survey: Typical Hydroelectric

Compiled by F. A. Asnett, Contributing Editor

[illegible]

as in the United States and Canada

[illegible]

1957 Design Survey: Typical Hydroelectric

Continued by F. A. Auer, Continuing Editor

Company or Government Agency	Design of Consulting Engineers	Project Name	Year of Construction	River	State	Project started date	Year type	Crest length, ft	Year length, ft	Year of completion
NEW ENGLAND STATES										
Central Maine Power Co.		San Wells	1951	Androscoggin	Me.	1951	---	---	---	---
St. Croix Paper Co.	Chas. T. Power Co.	Headwaters	1951	St. Croix	Me.	1951	---	---	---	---
State of Maine		Madison No. 2A	1951	Penobscot	Me.	1951	---	160	---	---
Western Electric Engineers			1952	Connecticut	N.Y. & N.J.	1952	C.R.E.	1,440	180	---
Connecticut Power and Light Co.		Windsor No. 1	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 2	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 3	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 4	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 5	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 6	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 7	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 8	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 9	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 10	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 11	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 12	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 13	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 14	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 15	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 16	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 17	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 18	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 19	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 20	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 21	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 22	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 23	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 24	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 25	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 26	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 27	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 28	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 29	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 30	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 31	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 32	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 33	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 34	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 35	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 36	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 37	1952	---	Conn.	1952	---	---	---	---
Connecticut Power and Light Co.		Windsor No. 38	1952	---						

[illegible]

1. 1990年12月31日，公司资产总额为1000万元，负债总额为400万元，所有者权益总额为600万元。

1. The first part of the text is a list of items, possibly a table of contents or a list of references, with some items marked with a checkmark.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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$$\begin{aligned} 10 &= 10 \cdot 10^{-1} = 10^0 \cdot 10^{-1} = 10^{-1} \\ 27 &= 27 \cdot 10^{-1} = 3^3 \cdot 10^{-1} \\ 81 &= 81 \cdot 10^{-2} = 3^4 \cdot 10^{-2} \\ 100 &= 100 \cdot 10^{-2} = 10^2 \cdot 10^{-2} \\ &= 10^0 \end{aligned}$$

Steam Central-Station Installations

1000

[illegible]

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1975/ Design Survey: Typical Industrial, Institutional Plants, Above 200 psi

[illegible]

1957 Design Survey: Typical Industrial

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Figure 1. Comparison of the results of the two methods. The figure shows a series of plots comparing the results of the two methods. The plots are arranged in a grid. The top row shows the results for the first method, and the bottom row shows the results for the second method. The columns represent different parameters: α , β , γ , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , $\omicron$, π , ρ , σ , τ , υ , ϕ , χ , ψ , ω , κ , λ , μ , ν , ξ , $\omicron$, π , ρ , σ , τ , υ , ϕ , χ , ψ , ω . The plots show the results of the two methods for each parameter, with the first method on the left and the second method on the right. The results are compared for each parameter, showing the difference between the two methods. The plots are arranged in a grid, with the top row showing the results for the first method and the bottom row showing the results for the second method. The columns represent different parameters: α , β , γ , δ , ϵ , ζ , η , θ , ι , κ , λ , μ , ν , ξ , $\omicron$, π , ρ , σ , τ , υ , ϕ , χ , ψ , ω . The plots show the results of the two methods for each parameter, with the first method on the left and the second method on the right. The results are compared for each parameter, showing the difference between the two methods.

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1957 Design Survey: Typical Industrial,

Compiled by R C Bellas, Assistant Editor

Complied by R.C. Bellas, Assistant Editor

Company & Location	Consulting engineers	First operation, new units	Nominal steam pressure, psig	Nominal steam temperature, F	BOILERS				Ash handling	TURBINES		ELECTRICAL POWER						Total boiler capacity including new units, 1000 lb per hr	Total capacity including new units, 1000 lb per hr
					Number	Capacity each 1000 lb per hr	Manufacturer	Firing		Type	Manufacturer	Source	Final distribution voltage	Transformer	Switchgear relay protection	Neutral grounding			
175 TO 200 PSIG																			
Sicks Breweries Ltd., Leominster, Ont.		8-56	200	285	2	26	FAL	O.G.	-	-	-	PP	0.22	0	Ov	-	50	-	
Ray & Co., Searchmont, Ont.		5-57	200	253	2	26	FW	#	4v	Co	AC	CP	3.44	0	Ov	-	60	-	
Chen Oil Co. of Canada Ltd., Sherburne, Vancouver	Swanson Wright & Co. Eng. Ltd.	1-58	200	495	1	50	3W	O	-	-	-	-	3.31	0	-	-	180	-	
Jones & Laughlin Steel Corp., Altoona, Pa.	Kalpan Corp.	2-57	200	510	1	50	3W	TO	-	-	-	-	-	-	-	-	-	-	
Quintus Canada Ltd., Cornwall, Ont.		4-57	200	358	1	115	3W	O	-	-	-	-	-	-	-	-	550	-	
Conway, Div. of Gen'l Dynamics, Palmolive, Cal.		11-56	200	504	4	20	3W	O	-	-	-	PP	3.48	0 As	Ov	Pr, Se	140	-	
For Motor Co., Mt. Clemens, Mich.	Austin Co.	1-58	185	3at	2	25	W	O.G.	-	-	-	PP	0.48	As	-	-	50	-	
Chevrolet-St. Louis, St. Louis, Mo.	Boddy, Benjamin & Woodhouse	10-58	180	3at	1	150	1H	TO G	Pr	-	-	-	-	-	-	-	-	-	
Euclyd Div. G.M.C., Hudson, O.		2-58	175	3at	2	40	CE	O.G.	-	-	-	PP	0.48	Dr	Alt	Se	30	-	
N.J. State Prison Farm, Leesburg, N.J.	Philo H. Doenneheimer	-	175	378	2	14	3W	O	-	-	-	PP	-	-	-	-	28	-	
Rochester Products Div. G.M.C., Rochester, N.Y.		3-55	175	180	1	50	3W	TO	-	-	-	PP	0.44	0, Dr	Ov, Dr	Se	154	-	
Newberry State Hospital, Newberry, Mich.	E.R. Little Associates, Inc.	3-57	175	358	1	15	FW	TO	-	-	-	-	-	-	-	-	-	-	
		4-56	175	-	3	42.5	W	TO	Pr	VC	W	CP	-	5	Ov	-	120	-	
Fisher Body Div. G.M.C., Marshall, O.		11-56	175	377	1 1/2	50	3W	TO	Pr	-	-	PP	12.5	0	Ov	Pr	220	-	
151 TO 174 PSIG																			
New Jersey Zinc Corp. Pat. Gloucester, N.J.	Gilbert Associates, Inc.	4-58	170	575	1	100	CE	O	-	-	-	PP	-	-	-	-	180	-	
		-	170	-	2	70	3W	O, C, BL	-	VC	GE	PP	-	2	Ov	Se	194	-	
		-	-	-	1	47	FW	-	-	-	-	-	-	-	-	-	-	-	
		-	-	-	3	30	3W	-	-	-	-	-	-	-	-	-	-	-	
Aluminum Co. of America, Lafayette Ind.	Draw Corp.	2-58	155	-	1	50	3W	TO	Pr	-	-	PP	-	0	-	-	220	-	
For Motor Co., Highland Park, Mich.		4-58	155	3at	4	50	3W	O.G.	-	-	-	PP	3.48	0	Ov, Dr	-	200	-	
Anderson-Furford Oil Corp., Arkansas City, Kan.	Jack Woods	1-57	155	375	2	50.75	EO	O.G.	TO	-	-	PP	2.2	0	-	-	250	-	
Conroy Fire & Boiler Co., Buffalo, N.Y.		10-57	155	504	2	46.3	3W	TO	Me	-	-	PP	-	-	-	-	-	-	
Monahan Paper Mills Inc., Jones, N.Y.		-	150	175	1	35	K	SS	Me	VC	GE	PP	3.60	0	Ov	Pr, Se	73	-	
Monahan Paper Mills Inc., Watertown, N.Y.		-	150	375	1	35	K	SS	Me	VC	GE	PP	3.60	2	Ov	Pr, Se	70	-	
Detroit Div. of Education, P.O. Box 1000, Detroit	Shiner & McLynn	10-57	160	5at	2	10	K	UF	Me	-	-	PP	0.22	0	-	-	29	-	
Westinghouse Elec. Corp., Harrison, S.C.		-	160	5at	1	35	CE	O	-	-	-	PP	4.15	0	Ov	Pr, Se	125	-	
125 TO 150 PSIG																			
Tracy Lumber Co., Albany, N.Y.	John Quinn's	4-57	150	360	1	25	UL	UF	Me	-	-	PP	-	-	-	-	-	-	
Ball Aircraft Corp., Buffalo, N.Y.	John Quinn's	1-57	150	360	2	25	4H	O	-	-	-	PP	-	-	-	-	-	-	
Acetylene Products Corp., Allison Div. G.M.C., Pontiac, O.		4-58	150	355	2 1/2	25	3W 1	O.G.	-	-	-	PP	3.44	Dr	Ov	-	25	-	
University of Michigan, Westland, Mich.		12-56	150	325	1	36	4H	O, A	-	-	-	PP	2.1	0	Ov	Se	122	-	
Mass. Chgo. & Term. Rd. Co., Essex, Essexboro, O.		11-56	150	325	1	12.5	2B	O, A	-	-	-	PP	2.2	1	-	-	133	-	
Continental Tire & Rubber Co., Piquette, Mich.	Continental Process & Program	-	140	3at	1	100	2H	TO G	Pr	-	-	PP	1.1	As	Ov, Dr	Pr	400	-	
General Tire & Rubber Co., Akron, Mich.	H.K. Ferguson	10-57	140	3at	3	17	4H	TO G	Pr	-	-	PP	1.1	As	Ov, Dr	Pr	151	-	
Electric Power Div. G.M.C., La Grange, Ill.	Smith, Jensen & Jensen	10-56	150	410	1	150	3W	TO	Pr	-	-	PP	0.48	Dr	Ov	Pr	150	-	
Trinity Ind. Co., 1100 Perry St., Tampa, Fla.		-	127	265	1	120	3W	O.G.	Pr	-	-	PP	0.24	0	Ov, Dr	Se	180	-	
Ohio Air Div. Co., Akron, O.	F. Brenner & Associates	2-57	50	-	1	35	3H	O	-	-	-	PP	-	-	-	-	-	-	
International Div. of Gen'l Dynamics, Pittsburgh, Pa.	Raymond House	4-57	150	360	1	40	3W	O	Pr	-	-	PP	2.16	-	Ov	Pr, Se	125	-	
Plastics & Rubber Div. of Gen'l Dynamics, Pitt.		10-56	150	3at	1	30	3W	TO	Pr	-	-	-	-	-	-	-	-	-	
Bay State Pressing Corp., Waltham, Mass.	Kenneth Warrington	-	150	360	1	25	HS	O	-	-	-	PP	-	-	-	-	-	-	

AC - Allis-Chalmers Mfg Co	BWG - Babcock & Wilcox, Globe	Co - Consolving	FW - Foster Wheeler Corp	Gr - Ground
Af - 2-mes iron works	McClough	DB - Dominion Bridge Co Ltd	FNL - Foster Wheeler Limited	Hv - Hydraulic
As - Ascham	C - Coal	Di - Differential	G - Gas	JL - Jones-Smith Co, Ltd
BL - Black Lion	CB - Cleaver-Brooks Co	Dv - Dry Pipe	GE - General Electric Co	K - Kneeler Co
PS - Babcock & Wilcox Co	CE - Combustion Engineering, Inc.	EC - Erie City Iron Works	GP - Generates own power	Me - Mechanical

Institutional Plants, 200 psi and Below

U.S. Assistant Secretary

[illegible]

-congruence

Se = secundar.
 S₁ = 1^o in serie de ordine Sc
 S₂ = 2^o in serie de ordine.

TS - Traveling plate stoker
 T - Trustmark Iron Works Co
 UF - Underfeed Stoker
 U - Union Iron Works
 VC - Henry Vogt Machine Co

W - Wood
WS - William Bros Boiler & Mfg Co
W - Wickes Boiler Co
Wc - Worthington Corp
: - All types, Di, Ov, Gi