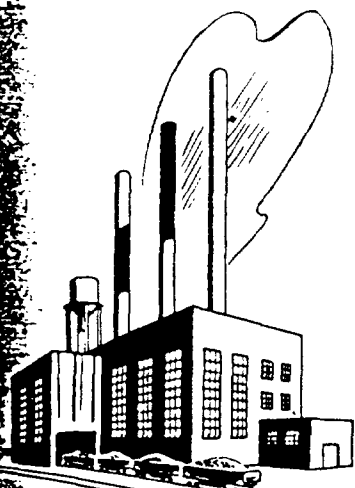


1948 MODERN PLANT SURV

PLAINTIFF'S EXHIBIT

GE-103



Technical highlights of utility and industrial power-plant construction to meet unprecedented load growth; tabulated engineering features of over 700 new steam and hydroelectric stations

SINCE THE WAR'S END pitched us into the greatest wave of construction the industry has yet known, power engineers have had little time for anything but their own immediate problems—keeping existing machines rolling and putting new kilowatts on the line as fast as possible. Yet from the hundreds of new plants being built, or old ones being extended or modernized, much can be learned. Hence this special section—POWER's 69th.

Here we have tried to dig out answers to the questions you would ask if you had time to sit back and examine current practice in power-plant design. As a basis, we started with POWER's continuing survey of new plant installations. The returns proved exceptionally good, so we are able to tabulate for your reference the technical highlights of over 700 plants now being designed or built.

For the benefit of busy engineers we have analyzed this mass of data and summarized in charts and words the principal design trends in both central-station and industrial installations. In these pages you will see at a glance what other engineers have done about pres-

ures, temperatures, capacities, heat-release rates, fuels, firing equipment, boiler auxiliaries, fan and pump drives, etc.

To build some flesh on these bare bones of data, this special section also includes concise descriptions of six central stations and eight industrial power plants. We selected these to give, as far as possible, a broad cross-section of today's practice as it is influenced by geographical location, plant size and type, nature of fuels available, and type of load served. Comprehensive equipment tables show the specific choices made by individual designers.

The current high level of construction and operating costs, which is likely to continue, puts tremendous emphasis on plant design—layout simplification for lower first cost, heat-balance ingenuity for high economy, and sound equipment selection for reliability and low maintenance. Power engineers everywhere are burning the midnight oil on these problems and working out their own solutions. This special section is our report to you on what others have done—use it as a guide in working out the answers for your plant.

1340 LISTING OF TYPICAL CENTRAL-STATION

For Notes on Uses and Limitations
of this Tabulation • See page 122

Compiled by B G A Skrotzki, Associate Editor

Company	Location	Plant Name	Consulting Engineers	First Operation, New Units	Nominal Pressure, psi	Nominal Steam Temperature, F	BOILERS						Unit Release, 1000 Btu per cu ft
							Number	Capacity, Each 1000 lb per hr	Manufacturer	Superheater Surface, 1000 sq ft	Boiler, Waterwall Surface, 1000 sq ft	Furnace Volume, 1000 cu ft	
Houston Lighting & Power Co.	Houston, Texas	Greene Bayou	Thibault Services	6-40	900	900	1	675	RS		31.6	30.0	31.8
Jersey Central Power & Light Co.	Bayville, N. J.	Raritan River	Burns & Roe	6-40	900	900	1	675	RS		31.6	30.0	31.8
Kentucky Utilities Co.	Tyrone, Ky.	Tyrone	Sargent & Lundy	7-48	900	900	2	150	BW	9.2	13.3	10.1	18.0
Georgia Power Co.	Harrys, Ga.	Atkinson	Commonwealth & South	10-43	900	900	1	600	CE		27.5	35.5	23.1
Bd Water & Elec Light Comm.	Lansing, Mich.	Ottawa St.	Burns & Roe	2-49	900	900	3	275	BW	13.2	16.5	17.7	26.9
Public Svc Co of Colorado	Denver, Colorado	Lacombe	Electric Advisors	1948	900	850	1	350	BW	13.3	8.7	5.1	8.7
Public Service Co of N. H.	Portsmouth, N. H.	Resistance 7	A A Winters	11-47	900	850	2	170	BW	2.0	16.5	5.1	16.5
Georgia Power Co.	Arkwright, Ga.	Arkwright	Comm & Southern	10-48	900	860	1	400	BW		9.8	22.3	22.3
500 PSI TO 599 PSI													
Roseland Light & Power Co.	Tomkins Cove, N. Y.	Hudson Station C	Burns & Roe	12-48	380	999	1	200	BW	7.9	17.7	16.3	16.1
Braddock Light & Power Co., Inc.	Alexandria, Va.		Stone & Webster	6-49	475	125	1	500	CE	29.9	20.0	26.0	16.9
				6-50	475	125	1	500	CE	29.9	20.0	26.0	16.9
City of Burbank	Burbank, Calif.	Burbank	C A Henze	7-49	475	900	1	215	CE	3.3	17.1	13.3	33.8
Virginia Electric & Power Co.	Wheelwright, Va.	Chestersfield	Stone & Webster	10-49	475	900	1	650	CE	17.3	26.4	40.3	22.6
Virginia Electric & Power Co.	Possum Point, Va.	Possum Point	Stone & Webster	12-48	475	900	1	650	CE	17.3	26.4	40.3	22.6
Connecticut Light & Power Co.	Uncasville, Conn.	Montville	United Engr & Const	3-48	850	950	1	300	CE	10.5	25.5	17.0	20.5
				1-49	850	950	1	300	CE	10.5	25.5	17.0	20.5
Alabama Power Co.	Devon, Conn.	Devon	United Engr & Const	5-47	850	925	2	225	CE	4.5	29.6	12.6	22.9
	Gadsden, Ala.	Gadsden	Comm & Southern	2-49	850	900	1	600	CE	13.7	28.4		21.0
				2-49	850	900	1	600	CE	13.7	28.4		21.0
Mississippi Power Co.	Madison, Miss.	Madison	Comm & Southern	7-47	850	900	1	230	RS	7.4	19.6	13.4	21.4
				8-49	850	900	1	230	RS	7.4	19.6	13.4	21.4
Public Svc Co of Indiana	Noblesville, Ind.	Noblesville	Sargent & Lundy	6-50	850	950	3	300	RS	11.8	28.3	22.5	16.9
Empire District Elec Co of Kan.	Green River, Kan.	Green River	Black & Veatch	1-50	850	900	1	300	FW	11.8	18.7	25.0	16.8
Kentucky Utilities Co.	Green River, Ky.	Green River	Sargent & Lundy	10-49	875	910	3	215	BW	7.1	15.3	14.7	18.1
Florida Power Corp.	Enterprise, Fla.	Geo E Turner	J G White Engrg Corp.	2-48	860	900	1	300	BW		20.3	21.9	17.0
Florida Power Corp.	Englis, Fla.	Englis	J G White Engrg Corp.	6-47	860	900	1	300	BW		20.3	21.9	17.0
Central Illinois Light Co.	Meredosia, Ill.	Meredosia	Comm & Southern	1-49	850	900	2	300	RS	49.3	21.0		18.6
Central Illinois Pub Svc Co	Meredosia, Ill.	Meredosia	Sargent & Lundy	1-48	850	900	1	255	CE	11.6	19.2	20.2	18.6
				10-48	850	900	1	255	CE	11.6	19.2	20.2	18.6
Central Power and Light Co.	Corpus Christi, Tex.	Nueces Bay	Sargent & Lundy	5-49	850	900	1	300	BW	7.5	15.1	38.2	19.8
Cons Gas, Elec Lt & Pwr Co, Balt.	Baltimore, Md.	Westport		1-50	850	900	1	610	BW	21.5	14.8		19.8
Dairymaid Power Cooperative	Alma, Wis.	Alma	Vern E Alden	1-47	850	825	2	190	BW	21.5	14.8		19.8
Ohio Public Service Co.	Shadyside, Ohio	R E Burger	Electric Advisors	6-50	850	950	2	500	BW	23.9	37.7	24.2	26.8
N. State Elec & Gas Corp.	Greenidge, N. Y.	Greenidge	Gilbert Assoc.	4-50	850	910	2	388	BW	12.6	21.2	17.4	17.3
Arkansas-Missouri Power Co.	Campbell, Mo.	Jim Hill	Loosen Services	9-49	850	900	1	350	CE		18.9	18.7	
Union Electric Power Co.	Venice, Ill.	Venice No. 2	Stone & Webster	7-50	850	900	1	900	BW	29.2	22.0	83.8	13.7
				1-51	850	900	1	900	BW	29.2	22.0	83.8	13.7
Mississippi Power & Light Co.	Nr Jackson, Miss.	Rex Brown	Thibault Services	6-48	850	900	1	350	CE	4.0	14.4	18.7	26.0
New Bedford Gas & Edison Lt Co	New Bedford, Mass.	Cannon Street	Gilbert Assoc.	1950	850	900	1	300	CE	10.5	31.6	22.2	16.7
Kansas Gas & Electric Co.	Wichita, Kan.	Rupley	Thibault Services	5-50	850	900	1	350	CE		29.7	26.0	18.5
The Hartford Electric Light Co.	Hartford, Conn.	South Meadow	Stone & Webster	1949	850	900	1	425	BW		18.2	38.4	14.3
Illinois Power Company	Havana, Ill.	Havana	Sargent & Lundy	1947	850	900	3	235	CE	12.5	19.0	20.0	18.0
Indianapolis Power & Light Co.	Nr Martinsville, Ind.	White River	Gibbs & Hill	5-50	850	900	1	400	CE	14.0	26.0	23.2	22.8
Interstate Power Company	Lansing, Ia.	Lansing	Sargent & Lundy	8-48	850	900	2	120	RS		13.4	9.9	17.4
Iowa Public Service Co.	Waterloo, Iowa	Maynard	J F Pritchard	6-49	850	900	2	200	RS	9.5	14.5	17.5	19.8
City of Jacksonville	Jacksonville, Fla.	No. 2	Reynolds, Smith & Hills	7-47	425	825	1	120	L.M.		11.6	9.0	29.8
				1951	850	900	1	500	BW		20.6		24.9
				1951	850	900	1	500	BW		20.6		24.9
City of Lakeland	Lakeland, Fla.	Lakeland	Charles Larsen	7-49	800	900	1	260	BW	5.7	14.4	8.4	32.1
Louisville Gas & Electric Co.	Louisville, Ky.	Paddy's Run	Pioneer Serv & Eng Co	13-47	800	900	1	640	FW	20.8	30.3	47.1	18.0
				1-50	850	900	1	640	FW	20.8	30.3	47.1	18.0
Metropolitan Edison Co.	Middletown, Pa.	Crawford	Gilbert Associates	10-50	850	900	1	640	FW	20.8	30.3	47.1	18.0
				12-47	850	900	2	250	FW	7.2	64.5	19.6	20.0
Northern Virginia Power Co.	Riverton, Va.	Riverton	Sanderson & Porter	12-49	850	900	1	550	RS		26.3	21.2	20.8
Orlando Utilities Comm.	Orlando, Fla.	Orlando	Robert A. Lee	2-49	850	900	1	350	BW	5.9	12.9	9.4	21.0
San Antonio Electric Light & Power Co.	San Antonio, Calif.	San Antonio	Carl Hoseney	8-49	850	900	2	250	CE	6.1	15.3	11.5	28.6
San Diego Gas & Electric Co.	San Diego, Calif.	Silver Gate	Thibault Serv & Eng Co	1-48	850	900	2	340	BW	8.6	21.5	12.3	35.8
Pennsylvania Electric Co.	Warren, Pa.	Warren	Gilbert Assoc.	2-48	850	900	4	185	CE	3.6	17.2	13.1	17.4
Southern California Edison Co.	Redondo, Calif.	Redondo	Stone & Webster	2-48	850	900	2	400	BW	14.7	17.2	13.1	17.4
				2-48	850	900	2	400	BW	14.7	17.2	13.1	17.4
South Carolina Power Co.	Charleston, S.C.	Hay Hill	Commonwealth & South	11-47	850	900	1	280	RS	7.4	11.7	5.4	21.4
Southwestern Gas & Electric Co.	Longview, Texas	Knox Lee	Sargent & Lundy	3-50	850	900	1	325	BW				34.3
Southwestern Public Service Co.	Houston, Texas	Houston		3-50	850	900	1	340	RS			14.0	19.7
Staten Island Edison Co.	Travis, S. I., N. Y.	Arthur Hill	George E. Lee	11-47	850	900	2	420	FW	4.4	12.3	7.6	18.0
Utah Power & Light Co.	Alpharetta, Utah	Alpharetta	Thibault Services	6-49	850	900	1	450	RS	12.0	44.1	33.0	15.0
Washington Power & Light Co.	Bellevue, Wash.	Bellevue	Sargent & Lundy	7-49	850	900	1	275	BW	9.3	15.1	11.5	21.0
Minnesota Power & Light Co.	Minneapolis, Minn.	Minneapolis	Thibault Services	7-49	850	900	1	350	CE	8.8	29.7	21.3	21.0
Dallas Power & Light Co.	Dallas, Texas	Mt. Tabor	Thibault Services	3-49	850	900	1	450	BW	8.8	29.7	21.3	21.0
				3-49	850	900	1	450	BW	8.8	29.7	21.3	21.0
Oklahoma Power & Light Co.	Dallas, Texas	Dallas	Thibault Services	3-51	850	900	1	575	CE		21.2	14.2	26.0
Winnipeg Electric Co.	Winnipeg, Man.	Winnipeg	United Engr & Const	1950	850	900	1	325	RS	11.2	33.1	20.0	19.6
Southern Bell Telephone & Power Co.	San Antonio, Texas	San Antonio	Comm & Southern	11-47	850	900	2	250	BW	7.2	22.5	15.7	22.0
600 PSI TO 599 PSI													
Central Texas Light & Gas Co.	San Antonio, Texas	San Antonio	Stone & Webster	8-47	725	530	2	180	BW	3.4	16.1	10.4	23.3
San Antonio Electric Light & Power Co.	San Antonio, Texas	San Antonio	Stone & Webster	8-47	725	530	2	180	BW	3.4	16.1	10.4	23.3

A - Air	1 - Air	2 - Air	3 - Air	4 - Air	5 - Air	6 - Air	7 - Air	8 - Air	9 - Air	10 - Air	11 - Air	12 - Air	13 - Air	14 - Air	15 - Air	16 - Air	17 - Air	18 - Air	19 - Air	20 - Air	21 - Air	22 - Air	23 - Air	24 - Air	25 - Air	26 - Air	27 - Air	28 - Air	29 - Air	30 - Air	31 - Air	32 - Air	33 - Air	34 - Air	35 - Air	36 - Air	37 - Air	38 - Air	39 - Air	40 - Air	41 - Air	42 - Air	43 - Air	44 - Air	45 - Air	46 - Air	47 - Air	48 - Air	49 - Air	50 - Air	51 - Air	52 - Air	53 - Air	54 - Air	55 - Air	56 - Air	57 - Air	58 - Air	59 - Air	60 - Air	61 - Air	62 - Air	63 - Air	64 - Air	65 - Air	66 - Air	67 - Air	68 - Air	69 - Air	70 - Air	71 - Air	72 - Air	73 - Air	74 - Air	75 - Air	76 - Air	77 - Air	78 - Air	79 - Air	80 - Air	81 - Air	82 - Air	83 - Air	84 - Air	85 - Air	86 - Air	87 - Air	88 - Air	89 - Air	90 - Air	91 - Air	92 - Air	93 - Air	94 - Air	95 - Air	96 - Air	97 - Air	98 - Air	99 - Air	100 - Air
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F-D FANS		I-D FANS		FUEL		FEED PUMPS		TURBINES		CONDENSERS		Total Boiler Capacity Incl New Units, 1000 lb	Total Generator Capacity Incl New Units, 1000 kw									
At-Heater No. Boiler, 1000 sq ft	At-Heater Type	Drive	At-Volume Control	Drive	Gas-Volume Control	Firing	Type	Heating Value, 1000 Btu per lb	Asb-Fusion Temperature, F	Drive	Flow Control	Capacity, 1000 kw	Speed, rpm	Manufacturer	Back pressure, psia	No. of Bleed Points	Generator Cooling	Surface, 1000 sq ft	No. Water Passes	Tube Material	Total New Units, 1000 lb	Total New Units, 1000 kw
67	Tu	M	V	M	D	G	G	10184	3M, IT			60	3600	WE	1.75	4	H	60	2	AsCu	675	66
70	Tu	M	D, V	M	M	P	C	14.0	2550	3M, IT		60	3600	WE	1.75	4	H	60	2	AsCu	1350	135
70	Tu	M	D	M	M	P	C	12.0	2300	1M	H ₂	25	3600	GE	300	0	H	25	2	Mu	1560	105
84	Re	M	Hy	M	Hy	P	C&G	13.1	2400	4M	R	60	3600	GL	1.0	4	H	23.5	2	Ad	2700	240
84	Tu	M	V	M	V	P, G, O	C, G, O	8504	2100	2M, IMT	R	35	3600	GE	0.6	7	H	25.0	2	PAd	1275	75
152	Tu	M	V	M	V	P, G, O	C, G, O					30	3600	GE	1.0	4	H	31.3	2	Ad	340	30
47.7	Re	M	V	M	S	P, G	C, G	13.1	2200	2M	S	43.8	3600	GE	1.0	4	H	31.3	2	Ad	1600	175
40.7	Tu	M	D	M	Hy	P	C	13.4	2050	2M	R	22	3600	GE	0.5	4	H	17.5	1	Ad	200	22
121.5	Tu	M	V	M	Ma	P	C	13.5	2450	3M	R	80	1800	GE	0.5	5	H	75	2	Ad	800	80
121.5	Tu	M	V	M	Ma	P	C	13.5	2450	3M	R	80	1800	GE	0.5	5	H	75	2	Ad	1600	160
31.7	Re	M	S, V	M	D, V	G, O	C, O	11004	2400	2M	R	20	3600	AC	0.75	4	H	18	2	AnAd	585	40
48.9	Re	M	D, V	M	D, V	P	C	13.6	2400	3M, IT	R	60	3600	GE	0.75	4	H	45	1	AAAd	1175	110
48.9	Re	M	D, V	M	D, V	P	C	12.5	2360	3M, IT	R	60	3600	GE	0.75	4	H	50	2	AAAd	650	60
82.0	Re	M	V	M	Hy	P	C	12.5	2400	2M	R	31.25	3600	GE	0.5	5	H	24	2	AlBr	690	70
40.8	Re	M	V	M	Hy	P	C	12.5	2400	2M	R	31.25	3600	GE	0.5	5	H	24	2	AlBr	940	101
63.0	Re	M	Hy	M	Hy	P	C	12.0	2750	2M	R	45	3600	WE	0.5	5	H	30	1	AlBr	2025	165
63.0	Re	M	Hy	M	Hy	P	C	12.0	2750	2M	R	60	3600	GE	1.0	4	H	47.0	2	Ad	600	60
33.3	Tu	Mp	V	Mp	V	G, O	C, O	10004	2100	2M	R	22.5	3600	GE	1.0	3	H	20.3	2	Ad	460	45
117.1	Re	M	V	M	V	P, G, O	C, G, O	10004	2100	2M	R	22.5	3600	WE	1.0	3	H	20.3	2	Ad	690	67.5
100.2	Re	2M	V	2M	D, Hy	P, O, G	C, O, G	11.8	2040	1M, IT	R	30	3600	WE	0.75	4	H	32.5	2	Ad	900	80
50.5	Pl	M	D	M	Hy	P	C	11.0	2200	2M, IT	R	30.04	3600	WE	0.75	4	H	27.5	2	Ad	1325	100
64.5	Tu	M	V	M	S	O	C	18.4	2M	R	R	25.0	3600	WE	1.0	4	H	25.0	1	Ad	450	37.5
64.5	Tu	M	Hy	M	Hy	P	C	9.8	1900	2M	R	35	3600	WE	0.5	4	H	23.0	1	Ad	700	50
51.4	Tu	M	Ma	M	Ma	P	C	9.8	2000	1M, IT	R	50	3600	GL	0.5	4	H	45	1	AsCu ²⁰	1790	141
51.4	Tu	M	Ma	M	Ma	P	C	9.8	2000	1M, IT	R	50	3600	GL	0.5	4	H	45	1	AsCu ²⁰	1570	50
42.4	Tu	M	V	M	S, D	G	C	10504	2376	1M, IT	R	30	3600	WE	0.75	4	H	27.5	2	AAAlBr	1140	100
58.6	Re	M	V	M	Hy	P	C	12.0	2100	3M	R	60	3600	GE	0.5	5	H	55	2	AAAlBr	3936	307.5
58.6	Tu	Mp	V	Mp	V	P	C	11.0	2100	3M	R	30	3600	GE	0.5	4	H	12	2	Ad	380	30
2	Re	M	V	M	V	P	C	12.4	1900	4MT	R	100	3600	WE	0.75	6	H	70.0	2	Ad	2400	230
0.8	Tu	M	V	M	V	P	C	13.2	2000	1M, IT, IMT	S	40	3600	GE	0.5	4	H	32.5	2	Ad	680	80
0.8	Tu	M	V	M	V	P	C	11.0	1900	2M	R	80	1800	GE	0.7	4	H	75.0	2	Ad	350	30
170.8	Re	M	Hy	M	Hy	P	C	11.0	1900	2M	R	80	1800	GE	0.7	4	H	75.0	2	Ad	3980	320
52.8	Tu	M	D	M	D, V	G	C	10004	1900	2M, IT	R	30	3600	GL	0.75	4	H	27.5	2	AlBr	350	30
62.8	Tu	M	V	M	V	P	C	12.430	1900	1M, IMT	R	30	3600	WE	0.75	5	H	25.0	2	AlBr	1723	137.5
76.2	Re	M	D, V	M	D	G, O	C, O	10134	2150	3M, IT	R	45	3600	WE	0.75	4	H	30.0	2	AsCu	990	78
43.5	Re	M	D, Hy	M	D, Hy	P	C	12.6	2150	3M, IT	R	45	3600	GL	0.75	3	H	36.0	2	Ad	2300	230
49.9	Tu	M	D, Hy	M	D, Hy	P	C	10.5	1900	3M, IT	R	404	3600	GE	0.5	4	H	30.0	1	AsCu	855	80
69.7	Re	M	V	M	V	P	C	11.0	1970	2M, IMT	R	40	3600	GE	0.75	5	H	30.0	2	AAAd	800	80
20.8	Tu	M	V	M	Hy	P	C	10.5	2050	1M, IT	R	15	3600	AC	0.5	4	H	15.0	2	PAd	240	15
68.1	Re	M	V	M	Hy	P, G	C, O, G	10.0	1930	2M		40	3600	GL	0.75	5	H	37.5	2	PAd	1660	109.7
15.0	Tu	M	D, V	M	D	S, (425)	C	10.5	1900	1M, IT	S, R	20	3600	GE	0.75	4	H	18.0	2	Ad	715	60
9.0	Tu	M	D, V	M	D	S, (291)	C	10.5	1900	1M, IT	S, R	10	3600	GE	0.75	4	H	10	1	Ad	515	40
51.1	Tu	Mp	V	Mp	D	C	C	18.4	2M	R	R	30	3600	WE	0.75	4	H	27.5	1	AlBr	300	30
51.1	Tu	Mp	V	Mp	D	C	C	18.4	2M	R	R	30	3600	WE	0.75	4	H	27.5	1	AlBr	600	60
73.0	Tu	M	V	M	V	C	C	16.6	2M, IT	R	R	20	3600	AC	1.0	4	H	32.5	2	Ad	330	35
144.0	Re	M	Ma	M	Ma	P	C	10.2	1900	3M		60	3600	WE	0.75	5	H	55.0	2	Ad	1165	120
144.0	Re	M	Ma	M	Ma	P	C	10.2	1900	3M		60	3600	GL	0.75	5	H	55.0	2	Ad	1905	180
144.0	Re	M	Ma	M	Ma	P	C	10.2	1900	3M		60	3600	WE	0.75	5	H	55.0	2	Ad	2545	240
43.0	Re	M	V	Mp	V	P	C	15.0	2100	2M, IMT	R	35	3600	GE	0.5	4	H	34.0	2	Ad		
59.0	Tu	M	V	M	D	P	C	15.0	2000	2M	R	30	3600	GL	0.75	4	H	27.5	2	Ad	350	30
36.7	Re	Mp	V	Mp	V	G, O	C, O	11004	2600	3M	R	25	3600	GL	1.0	4	H	30.0	2	Ad	325	43
44.7	Tu	M	V	M	D, Hy	G, O	C, O	10604	2600	3M	R	35	3600	AC	1.0	4	H	25.0	2	AsCu	1300	75
31.8	Tu	M	V	Mp	V	P	C	12.3	2600	2M, IMT	R	35	3600	GE	0.75	4	H	40.7	2	AlBr	1000	65
62.4	Re	M	D, V	M	D, V	G, O	C, O	12.3	2600	3M, IT	R	60	3600	WE	0.75	4	H	42.5	2	AlBr	750	70
62.4	Re	M	D, V	M	D, V	G, O	C, O	12.3	2600	3M	R	60	3600	GE	0.75	4	H	42.5	2	AlBr	800	60
31.8	Tu	Mp	V	Mp	V	C	C	10004	2M	R	R	22.5	3600	GL	1.0	3	H	20.4	2	Ad	250	22.5
51.5	Tu	Mp	D, V	Mp	D, V	G, O	C, O	935.4	2600	1M, IT	R	30	3600	WE	1.0	4	H	25.0	1	Ad	325	35
24.6	Tu	M	V	Mp	V	P	C	12.5	1950	2M, IMT	R	25	3600	WE	0.5	4	H	18.0	2	AAAd	240	25.5
66.0	Tu	M	V	M	V	P	C	12.0	1950	2M, IT	R	40	3600	WE	0.75	4	H	35.0	2	AnAd	650	59
46.6	Tu	M	V	M	V	P	C	11.5	1950	1M	R	25	3600	GL	0.5	4	H	25.0	2	Ad	550	50
51.8	Re	M	D	M	D	P	C	13.4	1950	1M, IT	R	30	3600	GL	1.0	5	H	20.0	1	Ad	975	85
81.0	Re	M	V	M	V	P	C	10004	1M	R	R	60	3600	GL	1.5	5	H	50.0	1	AsCu	1400	116.25
30.0	Pl	M	V	M	V	G	C	10204	1M	R	R	60	3600	WE	1.5	5	H	50.0	1	Cu	1945	142.5
104.7	Tu	M	V	M	V	P	C	10004	2M	R	R	30	3600	WE	0.75	5	H	18.3	2	Ad	70	0
72.5	Tu	M	V	M	V	P	C	10004	2M	R	R	30	3600	WE	0.75	5	H	18.3	2	Ad	1510	42.5
63.4	Tu	Mp	V	Mp	D	P	C	10.0	2000	1M	R	20	3600	AC	0.5	0	H	18.3	2	Ad		
18.0	Tu	M	D	M	Ma	S, (426)	C	10.6	1950	2M, IT	R	204	3600	AC	0.75	3	H	17.4	2	Ad	1055	75
3.6	Tu	M	V	M	S, D	S, (166)	C, O, G	10.6	2070	1M	R	7.5	3600	WE	1.0	3	H	7.6	2	PAd	360	16

—Tubular
 —Underfeed stoker
 —Cannon Iron Works
 —One engine
 —Jenny Wood MacNamee Co.
 —Wickes Power Co.
 —Westinghouse Electric Corp.
 —Northwestern Electric & Mach. Corp.
 —Coker grate area, sq ft
 —at 1033 ft
 —water surface, 31,200 sq ft
 —per boiler

1—12,000 to 14,000 Btu per lb
 2—2000 to 2900 F
 3—boiler at 400 psia
 4—motor, 1 turbine, 2 fans, 1 shaft
 5—one bleed point for industrial steam
 6—12,000 to 13,900 Btu per lb
 7—gas, 1615 Btu per cu ft
 8—Reheater surface, 9500 sq ft
 9—60,000-kw rating, 75,000-kw max
 10—120 per cu ft
 11—3 turbines being installed
 12—traction at 200 ppg for industrial sales

1—600,000 lb per hr with 12,000-Btu
 2—Boothville, Ala.
 3—Floating power plant
 4—Boothville, 1940, built in 1943
 5—2 units of 1 motor driving one i-d,
 one o-d fan
 6—Capitol, 10 ft top rows of con-
 denser
 7—gas-fired, 30,750 Btu on oil
 8—An i-d and 1-o fan driven by one
 motor
 9—gas-fired, 29,800 Btu on oil
 10—Reheat to 850 F

11—Radiant reheater, 2964 sq ft
 12—Reheat to 900 F
 13—Radiant reheater, 3414 sq ft
 14—12,350 to 14,400 Btu per lb
 15—2045 to 2800 F
 16—12,410 to 14,600 Btu per lb
 17—Cool breeze, gas tar 165,000 Btu per
 cu ft
 18—Started operation Jan 1945
 19—11-p element 2600 rpm, 1-p element
 1800 rpm
 20—See also 1940 unit at 656 ps

1948 Listing of Typical Central-Station

For Notes on Uses and Limitations
of this Tabulation • See page 122

Compiled by B G A Skrotzki, Associate Editor

Company	Location	Plant Name	Consulting Engineers	First Operation, New Units	Nominal Pressure, psi	Nominal Steam Temperature, °F	BOILERS						Heat release, 1000 Btu per sq ft per hr
							Number	Capacity, Each 1000 lb per hr	Manufacturer	Superheater Surface, 1000 sq ft	Roller, Waterwall Surface, 1000 sq ft	Furnace Volume, 1000 cu ft	
1500 PSI AND ABOVE													
✓ Appalachian Elec Pwr Co	Graham Sta., W. Va.	Philip Sporn	Amer Gas & Elec Serv	7-49	2080	1050	1	930	BW	60 52	29.6	79.8	16.4
✓ The Ohio Power Co	Graham Sta., W. Va.	Philip Sporn	Amer Gas & Elec Serv	6-50	2080	1050	1	930	BW	60 52	29.6	79.8	16.4
✓ Indiana & Mich Elec Co	Mishawaka, Ind.	Twin Branch	Amer Gas & Elec Serv	5-49	2080	1050	1	930	BW	60 52	23.5	65.7	19.8
✓ City of Detroit Pw & Ltg Comm	Detroit, Mich	Mistersky	SH & G, B & R	1950	1675	1000	1	400	BW	16 4	6.8	22.6	19.8
✓ Consolidated Edison Co of N Y	Manhattan, N. Y. C.	Waterside No. 1		12-48	1600	950	1	1000	CE	28.2	30.3	61.0	17.1
				1948	200	500							
✓ Consolidated Edison Co of N Y	Bronx, N. Y. C.	Sherman Creek		10-47	1600	950	1	1000	CE	28.2	59.0	53.7	21.9
✓ Columbus & So. Ohio Elec Co	Nr. Athens, Ohio	Poston	Ebasco Services	6-49	1500	955	1	425	FW	25.5	12.5	30.6	17.9
				6-50	1500	955	1	425	FW	25.5	12.5	30.6	17.9
✓ Consolidated Edison Co of N Y	Manhattan, N. Y. C.	East River		6-50	1500	1000	1	1100	BW	39.1	21.8	88.0	15.3
				4-51	1500	1000	1	1100	BW	39.1	21.8	88.0	15.3
✓ Iowa Power & Light Co	Des Moines, Iowa	Des Moines No. 2		6-48	1500	925	1	375	CE	13.0	9.7	25.0	14.0
1200 PSI TO 1499 PSI													
✓ Boston Edison Co	Weymouth, Mass	Edgar	Jackson & Moreland	9-49	1450	1000	1	585	CE				15.9
✓ Buffalo Niagara Elec Corp	Dunkirk, N. Y.	Dunkirk		1950	1450	1000	1	670	CE	38 611		58	15.9
				1950	1450	1000	1	670	CE	38 611		58	15.9
✓ Metropolitan Edison Co	Reading, Pa.	Titus	Gilbert Associates	11-50	1450	1000	1	510	CE	34 711	29.3	44.6	15.8
				11-50	1450	1000	1	510	CE	34 711	29.3	44.6	15.8
✓ New England Power Co	Salem, Mass	Salem Harbor	United Engrs & Const.	5-51	1450	1000	1						
				10-51	1450	1000	1						
✓ The Ohio Power Co	Brilliant, Ohio	Tidd	Amer Gas & Elec Serv Corp	8-48	1375	925	1	950	BW	34.7	24.2	66.5	17.1
✓ Florida Power & Light Co	Cutler, Fla.	Cutler	Ebasco Services	1949	1350	955	1	430	CE		16.9	22.0	24.4
				1949	650	835	1	150	CE	3.5	13.3	6.0	32.3
				1949	650	835	1	150	CE	3.5	13.3	6.0	32.3
✓ City Public Service Board	San Antonio, Texas	Mission Road	Gibbs & Hill	7-48	1350	900	1	325	BW			18.1	32.3
✓ Pacific Gas & Electric Co	Bakersfield, Calif	Kern	Stone & Webster	5-48	1350	925	2	450	BW	15.0	9.5	18.4	18.4
✓ West Penn Power Co	Nr. Courtney, Pa.	Mitchell	Sanderson & Porter	12-48	1350	925	2	500	BW	21.4	16.6	44.1	18.4
				2-50	1350	925	1	500	BW	21.4	16.6	44.1	18.4
✓ West Penn Power Co	Springdale, Pa	Springdale	Sanderson & Porter	12-45	1250	925	1	800	BW	34.7	23.2	62.6	18.4
✓ Nebraska Public Power System	Bellevue, Nebr	Bellevue	Sargent & Lundy	6-49	1325	950	3	220	BW	12.1	9.07	14.5	18.4
✓ Pacific Gas & Electric Co	San Francisco, Calif	Station P	Stone & Webster	11-48	1300	950	4	475	BW	16.4	8.6	20.6	18.4
✓ Cambridge Electric Light Co	Cambridge, Mass	Kendall Sq	Gilbert Associates	12-48	1320	900	2	200	BW	7.9	9.9	14.3	18.4
✓ The Dayton Power & Light Co	Miamisburg, Ohio	O H Hutchings	Ebasco Services	5-48	1300	950	1	550	CE	15.8	16.4	31.6	18.4
				1949	1300	950	1	550	CE	15.8	16.4	31.6	18.4
✓ The Detroit Edison Co	Trenton, Mich	Trenton Channel		8-49	1300	950	4	660	CE		26.6	42.2	18.4
✓ Wisconsin Electric Power Co	Port Washington, Wis	Port Washington		9-48	1290	825	1	690	CE	8.525	64.2	61.0	18.4
				6-49	1380	900	1	655	CE	11 027	63.8	61.0	18.4
✓ Buffalo Niagara Elec Corp	Nr. Buffalo, N. Y.	C R Huntley		9-48	1250	950	1	875	BW	29.1	18.4	38.8	18.4
✓ Central New York Power Corp	Osawego, N. Y.	Osawego		12-48	1250	950	1	875	BW	27.2	17.4	43.5	18.4
✓ The Cincinnati Gas & Elec Co	Cincinnati, Ohio	West End		11-48	1250	925	3	350	BW	15.6	19.8	12.3	18.4
✓ The Cincinnati Gas & Elec Co	Columbia Park, Ohio	Columbia	Sargent & Lundy	11-49	1250	950	2	375	BW	24.2	22.6	31.8	18.4
✓ N. Y. C. Board of Transportation	Manhattan, N. Y. C.	59th Street	Burns & Roe	10-40	1250	950	1	600	BW	30.6	12.3	34.6	18.4
✓ Duke Power Co	Cliffside, N. C.	Cliffside		3-48	1250	950	1	620	CE	24.3	24.0	39.0	18.4
				11-48	1250	950	1	620	CE	24.3	24.0	39.0	18.4
✓ Duke Power Co	Leaksville, N. C.	Dan River		11-49	1250	950	1	670	CE	24.8	27.3	42.9	18.4
				4-50	1250	950	1	670	CE	24.8	27.3	42.9	18.4
✓ Connecticut Light & Power Co	Devon, Conn	Devon	United Eng & Constr	1-50	1250	950	1	600	CE		19.7	40.0	18.4
				1-51	1250	950	1	600	CE		19.7	40.0	18.4
✓ Long Island Lighting Co	Port Jefferson, L. I.	Port Jefferson	Ebasco Services	9-48	1250	950	1	425	CE	16.2	15.6	29.2	18.4
				11-49	1250	950	1	425	CE	16.2	15.6	29.2	18.4
✓ New Orleans Pub Service, Inc	New Orleans, La	Industrial Canal	Ebasco Services	7-47	1250	950	1	400	FW	13.5	16.0	28.1	18.4
				8-48	1250	950	1	400	FW	13.5	16.0	28.1	18.4
				2-49	1250	950	1	500	BW	25.6	16.9	22.0	18.4
✓ Kansas City Gas & Elec Co	Harris, Oklahoma	Horseshoe Lake	Pioneer Serv & Lmrg Co	7-47	1250	950	1	290	BW	13.7	9.5	22.0	18.4
✓ Rochester Gas & Electric Corp	Nr. Cheektowick, N. Y.	Lakeside	Gilbert Associates	10-48	1250	950	1	400	CE		15.1	27.1	18.4
✓ Narragansett Electric Co	Providence, R. I.	Manchester St	United Engrs & Constr	10-47	1200	950	1	450	CE	14.9	15.3	24.0	18.4
				4-40	1200	950	1	450	CE	14.9	15.3	24.0	18.4
900 PSI TO 1199 PSI													
✓ Arkansas Power & Light Co	Lake Catherine, Ark	Lake Catherine	Ebasco serv	11-47	1050	900	2	450	CE				21.0
				11-48	1050	900	1	570	RS	23.5	30.9	22.5	21.0
✓ Los Angeles Dept of Water & Pwr	Wilmington, Calif	Harbor		12-48	947	900	1	650	RS	29.0	32.4	28.0	21.0
				4-49	947	900	1	650	RS	29.0	32.4	28.0	21.0
	✓ Lake Charles, La	Riverside	Stone & Webster	5-47	925	825	1	420	FW				20.5
				7-50	900	910	1	400	CE	7.7	26.2	20.5	20.5
✓ Gulf States Utilities Co	✓ Baton Rouge, La	Louisiana	Stone & Webster	5-50	900	900	1	400	CE	7.7	26.2	20.5	20.5
				2-51	900	900	1	400	CE	7.7	26.2	20.5	20.5
	✓ Beaumont, Texas	Necenes	Stone & Webster	5-49	875	910	1	400	CE	8.5	13.6	18.0	18.0
				10-51	875	910	1	400	CE	8.5	13.6	18.0	18.0
✓ Florida Power & Light Co	Miami, Florida	Miami	Ebasco Services	5-48	920	905	2	215	BW	5.6	18.0	9.5	18.0
✓ Georgia Power Co	Stonewall, Ga	Stonewall	Ebasco Services	5-51	900	905	1	675	CE				18.8
✓ Columbus & So. Ohio Elec Co	Nr. Columbus, Ohio	Howay		7-48	900	900	1	375	FW	9.8	14.4	18.8	18.8
✓ Duquesne Light Co	So. Heights, Pa	Phidias		12-44	900	900	1	600	FW	17.8			18.8

1	— Anthracite	GE	— General Electric Co	PA4	— Phosphorized adm
2	— Bituminous	GP	— Gas turbine	PL	— Plate
3	— Lignite	H	— Hydrogen cooled	R	— Regulator
4	— Steam turbine	HA	— Hydraulic coupling	RB	— Red brass
5	— Turbine	L	— Lignite	RS	— Regenerative
6	— Steam turbine	M	— Motor drive	R	— Riley stoker Corp
7	— Turbine	MA	— Magnetic coupling	S	— Speed control
8	— Turbine	MI	— Motor drive	SHAG	— Smith, Hinchman
9	— Turbine	MT	— Motor and turbine drive	SS	— Spreader stoker
10	— Turbine	MT	— Motor and turbine drive	ST	— Stag tap
11	— Turbine	MT	— Motor and turbine drive	ST	— Stag tap
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100	— Turbine	MT	— Motor and turbine drive	ST	— Stag tap

And Municipal Power-Plant Installations

Air-Heater Surface per Boiler, 1000 sq ft	I-D FANS		I-D FANS		FUEL			FEED PUMPS		TURBINES			CONDENSERS				Total Roller Capacity Incl New Units, 1000 lb	Total Generator Capacity Incl New Units, 1000 kw			
	Air-Heater Type	Drive	Air-Volume Control	Drive	Gas-Volume Control	Firing	Type	Heating Value, 1000 Btu per lb	Ash-Fusion Temperature, F	Drive	Flow Control	Capacity, 1000 kw	Speed, rpm	Manufacturer	Back pressure, psia	No. of Bleed Points			Generator Cooling Surface, 1000 sq ft	No. Water Passes	Tube Material
21.4	Re	M	V	M	V	P	O	11.4	2300	3M	R	125	3600	GE	0.5	6	65.0	1	AsCu	930	125
21.4	Re	M	V	M	V	P	O	11.4	2300	3M	R	125	3600	GE	0.5	6	65.0	1	AsCu	1860	250
21.4	Re	M	V	M	V	P	O	10.9	2200	3M	R	125	3600	GE	0.5	6	65.0	1	AsCu	3460	366.5
24.0	Re	M	V	M	Hy	P	O	13.0	2300	2M	Hy	44	3600	WE	0.25	4	27.5	1	Ad	1250	120
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T	Hy	50	3600	WE	0.20	16	74.5	2	AlB	2000	2000
26.0	Re	M	V	M	D	P	O	13.0	2400	3T</											

- | | | | |
|---------------------------------|--|--|---|
| 1-Tubular | 2-12,000 to 14,000 Btu per lb | 17-600,000 lb per hr with 12,640-Btu | 21-Radiant reheater, 2964 sq ft |
| 2-Underfeed stoker | 3-2000 to 2400 psi | subnormal coal | 22-Reheat to 900 F |
| 3-Union Iron Works | 4-Bored at 400 gals | 18-Floating power plant | 23-Radiant reheater, 3414 sq ft |
| 4-Valve control | 5-1 motor, 1 turbine, 2 fans, 1 shaft | 19-bought in 1946, built in 1943 | 24-12,330 to 14,400 Btu per lb |
| 5-Heavy Duty Machine Co | 6-the bored plant for industrial steam | 20-2 units of 1 motor driving one i-d, | 25-2043 to 2800 F |
| 6-Winchouse Electric Corp | 7-12,000 to 13,900 Btu per lb | one i-d fan | 26-12 416 to 14,066 Btu per lb |
| 7-Wicks Motor Co | 8-gas, 1015 Btu per cu ft | 21-Cupronickel in top rows of con- | 27-Coke breeze; gas tar 165,000 Btu per |
| 8-Worthington Pump & Mach | 9-14 water surface, 9500 sq ft | denser | 28-Started operation Jan 1948 |
| 9-Stoker grate area, sq ft | 10-60,000-kw rating, 75,000-kw max | 22-Gas-fired, 30,350 Btu on oil | 29-11-o element 3600 rpm, 1-p element |
| about to 1000 F | 11-Btu per cu ft | 23-At i-d and i-d fan driven by one | 1800 rpm |
| 10-Stoker surface, 30,200 sq ft | 12-Turbines being installed | motor | 24-See also 1949 unit at 650 psi |
| 11-1400 per boiler | 13-Extraction at 200 psig for industrial | 24-Gas-fired, 29,800 Btu on oil | |
| | sales | 25-Reheat to 515 F | |

1948 Listing of Typical Central-Station

For Notes on Uses and Limitations
of this Tabulation • See page 122

Compiled by B G A Skrotzki, Associate Editor

Company	Location	Plant Name	Consulting Engineers	First Operation, New Units	Nominal Pressure, psi	Nominal Steam Temperature, F	Number	BOILERS					Furnace Volume, 1000 cu ft	Heat Rate, 1000 Btu per cu ft per hr
								Capacity, Each 1000 lb per hr	Manufacturer	Superheater Surface, 1000 sq ft	Boiler, Waterwall Surface, 1000 sq ft	Purifier Volume, 1000 cu ft		
✓ Consolidated Edison Co of N Y	Bronx, N. Y.	Hunts Point	Stone & Webster	9-48	650	750	2	150	CE	4.0	17.9	13.1	13.1	13.1
✓ Gulf States Utilities Co	Baton Rouge, La.	Louisiana	Gilbert Assoc.	5-49	650	750	1	500	CE	4.7	35.0	37.3	37.3	37.3
✓ New York State Elec & Gas Corp	Bainbridge, N. Y.	Jennison	Gilbert Assoc.	10-50	650	910	2	300	CE	8.1	22.9	9.7	9.7	9.7
✓ Oklahoma Gas & Electric Co	Ponca City, Okla.	Beerbower	Pioneer Serv & Eng Co.	7-48	650	900	1	250	FW	9.9	17.4	17.0	17.0	17.0
✓ Eastern Shore Pub Serv of Md.	Vienna, Md.	Vienna	United Eng & Const.	2-48	650	825	1	160	BW			9.6	9.6	9.6
✓ Kansas Gas & Electric Co	Wichita, Kan.	Ripley	Ebasco Services	3-48	650	825	2	160	BW	3.5	10.9	6.1	6.1	6.1
✓ Missouri Utilities Company	Oran, Mo.	Harry Newman	J F Pritchard	8-49	650	825	1	90	CE		12.1			
✓ Northwestern Public Service Co.	Mitchell, S. D.	Mitchell	Sargent & Lundy	10-48	650	825	2	30	RS	2.3	7.7	2.4	2.4	2.4
✓ Public Service Co of Oklahoma	Weleetka, Okla.	Weleetka	Sargent & Lundy	1-50	650	825	1	300	BW		24.2			
✓ Southwestern Public Serv Co	Abernathy, Texas	Taco		9-49	650	825	1	275	BW	5.3	18.7	11.2	11.2	11.2
✓ Southwestern Public Serv Co	Amarillo, Texas	East		5-51	650	825	1	380	BW		32.2	17.6	17.6	17.6
✓ Southwestern Public Serv Co	Carlsbad, N. M.	Carlsbad		9-48	650	825	2	30	BW			3.3	3.3	3.3
✓ Texas Electric Service Co	Monahans, Texas	Ferman Basin	Ebasco Services	10-48	650	800	2	150	CE	3.2	12.0			
				1949	650	800	2	150	CE	3.2	12.0			
✓ Texas Electric Service Co	Wichita Falls, Texas	Wichita Falls	Ebasco Services	6-50	650	800	1	150	CE	3.2	12.0	6.1	6.1	6.1
✓ Kansas City Power & Light Co.	Kansas City, Mo.	Grand Avenue	United Lt & Rwy Serv.	9-48	636	950	1	375	CE	9.9	21.4	21.2	21.2	21.2
✓ Iowa Public Service Co.	Eagle Grove, Iowa		J F Pritchard	4-49	635	835	1	100	BW			4.8	4.8	4.8
✓ Iowa Public Service Co.	Storm Lake, Iowa	Hawkeye	J F Pritchard	4-49	635	835	1	100	BW			4.8	4.8	4.8
✓ Central Louisiana Electric Co.	St Landry, La.	Coughlin	Sargent & Lundy	6-48	625	825	2	90	BW	2.1	18.4	4.3	4.3	4.3
✓ Glendale Public Service Dept	Glendale, Calif.	Glendale	Carl Heinze	10-47	625	825	1	200	CE	2.5	15.0	7.8	7.8	7.8
✓ Public Service Co of New Mexico	Albuquerque, N. M.	Albuquerque	Stearns, Roger	11-48	600	825	1	125	BW	2.2	11.7	5.0	5.0	5.0
				8-47	400	750	2	35	BW	0.8	4.9	0.5	0.5	0.5
✓ City of Lubbock	Lubbock, Texas	Lubbock	Truman Green	7-49	600	825	1	100	UI		11.0	3.9	3.9	3.9
✓ Missouri Power & Light Co	Mexico, Mo.	Mexico	Black & Veatch	1949	600	825	1	90	CE		12.0			
✓ West Texas Utilities Co	Abilene, Texas	Abilene	Sargent & Lundy	7-48	600	825	1	100	BW	2.1	8.3	4.3	4.3	4.3
✓ Menasha Elec & Water Util.	Menasha, Wis.		Laramore & Douglass	2-49	600	750	2	60	Wt		8.2	2.9	2.9	2.9
599 PSI AND BELOW														
✓ El Paso Electric Co	El Paso, Texas	Rio Grande	Stone & Webster	5-49	450	750	1	185	BW	4.2	12.0	8.5	8.5	8.5
✓ Provo City	Provo, Utah	Provo City	Burns & McDonnell	12-48	450	750	1	125	RS	2.0	11.2			
✓ City of Crawfordsville	Crawfordsville, Ind.	Crawfordsville	Comm Testing & Engrg Co	12-48	450	750	1	90	BW		9.6	3.3	3.3	3.3
✓ Montana-Dakota Utilities Co	Acmé, Wyo	Acmé		2-48	450	750	1	45	BW	1.5	3.6	5.4	5.4	5.4
✓ Public Utilities Commission	New Ulm, Minn.		J T Rynda, Jr.	5-48	450	750	1	80	BW	2.5	10.7	3.6	3.6	3.6
				12-48	450	750	1	80	BW	2.5	10.6	3.0	3.0	3.0
✓ Village of Winnetka	Winnetka, Ill.	Winnetka	Sargent & Lundy	10-48	455	750	1	60	BW	3.3	14.0	2.3	2.3	2.3
✓ Florida Power & Light Co	Lake Monroe, Fla.	Sanford	Ebasco Services	12-47	425	750	1	125	CE	2.5	12.5	5.8	5.8	5.8
✓ Dept of Utilities	Fremont, Nebr.		Lutz & May	1949	460	825	1	75						
✓ Southwestern Public Service Co.	Denver City, Texas	Denver City	W C Olsen	3-48	450	750	2	150	CE	2.1	12.9	6.5	6.5	6.5
✓ City of Rocky Mount	Rocky Mount, N. C.		Rogers Schmidt	1948	450	750	1	150	BW		17.0			
✓ Board of Public Works	Poplar Bluff, Mo.			4-48	450	750	1	40	Vo		3.7	1.8	1.8	1.8
✓ Southwestern Electric Service Co.	Jacksonville, Texas	Jacksonville	D C Pfeiffer	7-48	450	750	1	60	BW		6.2	5.0	5.0	5.0
✓ Water & Electric Dept	McPherson, Kan.	McPherson		6-48	450	750	1	100	RS	1.5	10.6	5.2	5.2	5.2
✓ City of Fairbury	Fairbury, Nebr.		Black & Veatch	12-48	450	750	1	60	EM	1.5	7.6			
✓ Greenwood Elec Lt & Water	Greenwood, Miss.			9-48	450	750	1	110	BW		11.3			
✓ Town of Wilson	Wilson, N. C.		W C Olsen	4-48	450	725	1	100	BW	1.4	9.8			
✓ City of Thomasville	Thomasville, Ga.	Thomasville		9-47	450	725	1	50	BW		6.4	2.4	2.4	2.4
✓ City of Hagerstown	Hagerstown, Md.		A C Wood & Assoc.	7-49	450	715	2	70	EC		6.0	5.0	5.0	5.0
✓ City of Hastings	Hastings, Nebr.		Black & Veatch	1948	425	825	1	70	BW	2.7	6.6			
✓ Greenwood County Elec Pwr Comm.	Chappells, S. C.	Buzzards Roost	G Hill	8-48	425	725	1	130	BW		10.4			
✓ Manitowish Public Utilities	Manitowish, Wis.			4-48	425	700	1	120	Wt	14.2	17.0	5.6	5.6	5.6
✓ Water & Light Dept	Virginia, Minn.		Laramore & Douglass	11-48	425	700	2	60	EM	1.1	5.5	2.7	2.7	2.7
✓ Borough of Vineland	Vineland, N. J.		H A Kuhn	1948	420	750	1	105	BW	3.6	6.7	4.2	4.2	4.2
✓ Public Service Dept	Moorehead, Minn.		Helmick, Edeskuty, Lutz	8-47	420	750	1	55	BW		6.7	2.8	2.8	2.8
✓ City of Kansas City	Kansas City, Kan.	Quindaro	Burns & McDonnell	4-48	410	750	1	200	BW		19.5	16.2	16.2	16.2
✓ Municipal Light & Water	Clay Center, Kan.		A C Kirkwood	12-48	400	750	1	40						
✓ City of Winmar	Winmar, Minn.	Winmar	Pfeifer & Smutz	11-48	400	750	1	35	BW			4	4	4
✓ Municipal Utilities	Seelye Eye, Minn.		Pfeifer & Smutz	1-48	400	750	1	40	BW	2.5	6.6	2.4	2.4	2.4
✓ Mt Carmel Water & Light	Mt Carmel, Ill.	Mt Carmel		10-47	400	750	1	60	BW		1.1			
✓ City of Gainesville	Gainesville, Fla.		Robert & Co	1949	400	750	1	65	BW		7.3	3.5	3.5	3.5
✓ City of Carville	Carville, Ill.			1949	400	750	1	37	EC		7.1	1.9	1.9	1.9
✓ Austin, Minn.	Austin, Minn.		Edeskuty	2-48	400	750	1	30	BW					
✓ Alexandria, La.	Alexandria, La.		Stamps Eng Co	9-44	400	750	1	35	NI	1.0	5.9			
✓ Alexandria, La.	Alexandria, Minn.		Pfeifer & Smutz	8-48	400	750	1	30	BW					
✓ City Light & Water Utilities	Kalamazoo, Mich.		Hampard Eng Co	12-47	400	750	1	40	Wt		4.5	2.0	2.0	2.0
✓ Missouri Public Serv of Mo	Clinton, Mo.	Clinton	Burns & McDonnell	7-49	400	750	1	110	BW		12.4	4.8	4.8	4.8
✓ Missouri Public Serv of Mo	Selima, Mo.	Selima	Burns & McDonnell	7-49	400	750	1	100						
✓ Devils Lake Power Co	Devils Lake, N. D.	Devils Lake		11-47	400	750	1	75	RS		19.0	3.4	3.4	3.4
✓ The Western Electric Power Co	Durango, Colo.	Durango		10-48	400	750	1	75	LT		3.5	4.3	4.3	4.3
✓ City of Frankfort	Frankfort, Ind.		Emery, Marker & Emery	4-49	400	750	2	110	BW		15.5	5.0	5.0	5.0
✓ City Water & Light	Jonesboro, Ark.		N B Thayer	1-49	400	700	2	55	BW					
✓ Mount City Gas & Electric	Mount City, Tenn.	Big Stone	J F Pritchard	10-48	360	750	1							
✓ Consolidated Edison Co of N Y	Long Island City, N. Y.	Raynwood	W. White Eng Corp	1-47	325	840	3	275	BW	0	35.7	17.1	17.1	17.1
✓ Consolidated Edison Co of N Y	Manhattan, N. Y.	Manhattan	Raker & Spencer	2-48	325	840	1	275	BW	0	3.1	17.1	17.1	17.1
✓ Southwestern Gas & Elec Co	Karnack, Texas	Karnack	Sargent & Lundy	6-48	290	585	4	100	CE					
✓ Toledo Power & Light Co	Toledo, Ohio	Toledo	Ebasco Services	1-48	185	525	1	150	BW	0.6	13.5	6.4	6.4	6.4
✓ Toledo Power & Light Co	Toledo, Ohio	Toledo	Ebasco Services	12-47	175	550	1	35	Wt	9.5	6.0	1.9	1.9	1.9
✓ Toledo Power & Light Co	Toledo, Ohio	Toledo	Ebasco Services	12-47	175	550	1	89	BW	0	7.1	1.9	1.9	1.9

A — Air cooled	CA — Centrifugal	GE — General Electric Co	PH — Phosphorized admiralty
AB — Air blast	CB — Centrifugal	HL — Horizontal	PL — Plate
AC — Air cooled	CC — Centrifugal	IL — In-line	RL — Regulator
AD — Air cooled	CD — Centrifugal	HL — Horizontal	RB — Red brass
AE — Air cooled	CE — Centrifugal	IL — In-line	RS — Regenerative
AF — Air cooled	CF — Centrifugal	HL — Horizontal	RS — Rotary stoker Corp
AG — Air cooled	CG — Centrifugal	IL — In-line	S — Speed control
AH — Air cooled	CH — Centrifugal	HL — Horizontal	SHAG — Smith, Hinchman and Corp
AI — Air cooled	CI — Centrifugal	IL — In-line	SS — Spreader stoker
AJ — Air cooled	CJ — Centrifugal	HL — Horizontal	ST — Slag tap
AK — Air cooled	CK — Centrifugal	IL — In-line	SV — Superheated
AL — Air cooled	CL — Centrifugal	HL — Horizontal	T — Turbine drive
AM — Air cooled	CM — Centrifugal	IL — In-line	TV — Traveling-grate stoker
AN — Air cooled	CN — Centrifugal	HL — Horizontal	
AO — Air cooled	CO — Centrifugal	IL — In-line	
AP — Air cooled	CP — Centrifugal	HL — Horizontal	
AQ — Air cooled	CQ — Centrifugal	IL — In-line	
AR — Air cooled	CR — Centrifugal	HL — Horizontal	
AS — Air cooled	CS — Centrifugal	IL — In-line	
AT — Air cooled	CT — Centrifugal	HL — Horizontal	
AV — Air cooled	CV — Centrifugal	IL — In-line	
AW — Air cooled	CW — Centrifugal	HL — Horizontal	
AX — Air cooled	CX — Centrifugal	IL — In-line	
AY — Air cooled	CY — Centrifugal	HL — Horizontal	
AZ — Air cooled	CZ — Centrifugal	IL — In-line	

Municipal Power-Plant Installations cont'd

Boiler, 1000 sq ft	F-D FANS				I-D FANS				Firing	FUEL			FEED PUMPS		TURBINES					CONDENSERS			Total Boiler Capacity Incl New Units, 1000 lb	Total Generator Capacity Incl New Units, 1000 kw		
	Air-Heater Type	Drive	Air-Volume Control	Drive	Air-Volume Control	Drive	Air-Volume Control	Drive		Type	Heating Value, 1000 Btu per lb	Ash-Fusion Temperature, F	Drive	Flow Control	Capacity, 1000 kw	Speed, rpm	Manufacturer	Back pressure, psi	No. of Bleed Points	Generator Cooling	Surface, 1000 sq ft	No. Water Passes	Tube Material			
0 18	Re	T	M	V	M	T	M	V	TG, 561	CB, GT	12,274 ³¹	2576	3T	R	7.5	3600	WE	200	0	A				604	7.5	
18	Re	T	M	V	M	T	M	V	O, G	CA	1000 ¹³		1T	S	30	3600	GE	0.75	4	H	23 0	2	Ads	3550	108 5	
20	Re	T	M	V	M	T	M	V	TG, 672	CA	11 4	2900	1M, 1T, 1MT	S	25	3600	WE	0.75	3	H	18 0	2	Ad	800	60	
20	Re	T	M	V	M	T	M	V	P	CC	11 5	1950	3M	S	15	3600	WE	0.75	5	A	14 0	2	Ad	550	42	
20	Re	T	M	V	M	T	M	V	P	CC	13 3	2100	3M	R	15	3600	WE	0.75	5	A	14 0	2	Ad	500	42	
20	Re	T	M	V	M	T	M	V	P	CC	13 3	2100	3M	R	25	3600	WE	0.87	3	H	30	2	AsCu	660	57	
20	Re	T	M	V	M	T	M	V	O, G	CC, G	1013 ¹³		2M	R	7.5	3600	WE	1.25	3	A	8 5	2	Ad	90	7.5	
20	Re	T	M	V	M	T	M	V	TG, 244	CC	12 0	2250	1M, 1T	R	7.5	3600	AC	1 0	3	A	7 5	2	Ad	225	15	
20	Re	T	M	V	M	T	M	V	TG, 180	CC	7 0	2200	1M, 1T	S	11 5	3600	AC	1 0	4	A	10 0	2	Ad	325	26	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M, 1T	R	30	3600	WE	1.25	4	H	32 5	2	Ad	900	80	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R	25	3600	GE	1 0	4	H	22 5	2	Ad	530	40	
20	Re	T	M	V	M	T	M	V	O, G	CC			3M	R	37 5	3600	GE	1 0	4	H	37 5	2	Ad	955	72 5	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R	15	3600	AC	1 0	4	H	20 0	2	Ad	280	25 0	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R	12 5 ¹⁴	3600	EL	1 75	4	A	11 0	2	AsCu	300	25	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R	12 5 ¹⁴	3600	EL	1 75	4	A	11 0	2	AsCu	600	50	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M, 1T	R	12 5	3600	EL	1 75	4	A	11 0	2	Ad	376	23 4	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M	R	35	3600	WE	0.75	6	H	32 5	2	AsCu	1835	146 5	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M, 1T	R	7 5	3600	GE	1 0	3	A	9 5	2	Ad	100	7 5	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M, 1T	R	7 5	3600	GE	1 0	3	A	9 5	2	Ad	100	7 5	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R	7 5 ¹⁴	3600	GE	0.75	3	A	8 0	2	Ad	180	15	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M	R	20	3600	GE	1 0	4	H	16 0	2	Cu	600	40	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M	R	11 5	3600	GE	0.75	2	A	12 0	2	Ad	465	38	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M	R	6	3600	GE	0.75	2	A	7 9	2	Ad	340	26	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M	R	7 5	3600	DL	1 0	3	A	11 0	2	Ad	10	19	
20	Re	T	M	V	M	T	M	V	O, G	CC			1MT	R	7 5	3600	AC	0.75	3	A	11 0	2	Ad	90	7 5	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M, 1T	R	7 5	3600	EL	1 0	3	A	8 0	2	Ad	260	12 5	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M, 1T	R	4 4 ¹⁴	3600	Wo	1 0	3	A	4 0	2	Ad	120	10	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R	20 0	3600	GE	0.75	4	H	19 0	1	Ad	740	69	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M	R	9 4	3600	EL	0.75	3	A	9 0	2	Ad	205	14	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	S, R	7 5	3600	WE	1 0	3	A	10 0	2	CuNi	205	18	
20	Re	T	M	V	M	T	M	V	O, G	CC			1M, 1T	R	3	3600	WE	0 6	2	A	3 5	2	Ad	121	7 0	
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									
20	Re	T	M	V	M	T	M	V	O, G	CC			2M, 1T	R		3600	WE									