FNS/mmt

ADDRESS REPLY TO
THE DISTRICT ENGINEER
U. S. ENGINEER OFFICE
3D FLOOR, PARK SQUARE BUILDING
BOSTON, MASS.

WAR DEPARTMENT

UNITED STATES ENGINEER OFFICE
30 FLOOR, PARK SQUARE BUILDING
31 ST. JAMES AVENUE
BOSTON, MASS.

REFER TO FILE NO.

April 8, 1943

IN REPLY REFER TO E16

Subject: Annual Report for 1942 - Electric Power Survey.

To: The Chief of Engineers, U. S. Army, Through the Division Engineers, New England and North Atlantic Divisions.

1. In accordance with instructions for the preparation of the Annual Report, Electric Power Survey, Office, Chief of Engineers, dated September 24, 1941, File No. 7496, this report, covering Power District No. 1 is submitted for the calendar year, 1942.

2. Map of Power District No. 1, in two (2) sheets, accompanies this report. This map compiles the information indicated in paragraph 4 of the questionnaires which were sent to the power systems.

3. A complete copy of the reports submitted by each power system is inclosed.

4. This Power District is so located that the only boundary across which there might be occasion to transmit power is the eastern border of the State of New York. Across this border there are two (2) transmission lines worthy of mention. One of these lines, the New England Power Company's 110 KV tie to New York State from Lanesboro, Massachusetts, has a nominal capacity of 100,000 KVA. This line is used principally for importing power but can be used for exporting from 80,000 to 90,000 KW to the vicinity of Albany, Watervliet or Schenectady, New York, should the occasion arise. During the calendar year 1942 the exchange of power over this line was 420,224,000 KWH, of which 9,720,000 KWH were exported to New York and 410,504,000 KWH were imported into Massachusetts.

FOR VICTORY BUY UNITED STATES WAR BONDS AND STAMPS

5. The other line, from Falls Village, Connecticut to Pleasant Valley, New York, has a nominal capacity of 21,000 KVA and has been loaded instantaneously to 16,600 KW. During the calendar year 1942 the exchange of power over this line was 1,658,800 KWH, of which 1,539,400 KWH were exported to New York and 119,400 KWH were imported into Connecticut.

G. W. Gillette
Colonel, Corps of Engineers
District Engineer
Chief of Power District No. 1

Inclosures:
Map (2 sheets)
Reports

LINE AND GENERATING CAPACITY

INTERCONNECTED GROUPS

ABBREVIATIONS OF COMPANIES AND SYSTEMS

GROUP I

MAINE

B.H.E. Co. ----------BANGOR HYDROELECTRIC CO.
C.M.P. CO. ----------CENTRAL MAINE POWER CO.
M.P.S. CO. ----------MAINE PUBLIC SERVICE CO.
R.F.P. CO. ----------RUMFORD FALLS POWER CO.

GROUP II

NEW HAMPSHIRE

C.E. CO. ----------CONCORD ELECTRIC CO.
N.H.G. & E. CO. ----------NEW HAMPSHIRE GAS & ELECTRIC CO.
P.S. CO. OF N.H. ----------PUBLIC SERVICE CO. OF N. H.

MASSACHUSETTS

B.E. CO. OF BOS. ----------BOSTON EDISON CO.
B.E. CO. OF BR. ----------BROCKTON EDISON CO.
B.E.L. DEPT. ----------BRAINTREE ELECTRIC LIGHT DEPT.
C.E.L. CO. ----------CAMBRIDGE ELECTRIC LIGHT COMPANY
C. OF H.G. & E. DEPT. ----------CITY OF HOLYOKE GAS & ELECTRIC DEPT.
F.G. & E.L. CO. ----------FITCHBURG GAS & ELECTRIC LIGHT CO.
H.W.P. CO. ----------HOLYOKE WATER POWER CO.
L.G. & E. CO. ----------LYNN GAS & ELECTRIC CO.
M.E. CO. ----------MONTAUP ELECTRIC CO.
N.B.G. & E.L. CO. ----------NEW BEDFORD GAS & EDISON LIGHT CO.
N.E.P.A. ----------NEW ENGLAND POWER ASSOCIATION.
W.M. COS. ----------WESTERN MASSACHUSETTS COMPANIES.

RHODE ISLAND

B.V.G. & E. CO. ----------BLACKSTONE VALLEY GAS & ELECTRIC CO.
N.E. CORP. ----------NEWPORT ELECTRIC CORPORATION.

CONNECTICUT

C. OF N., CONN. ----------CITY OF NORWICH, CONN. GAS & ELEC. DEPT.
C.L. & P. CO. ----------CONNECTICUT LIGHT & POWER CO.
C.P. CO. ----------CONNECTICUT POWER CO.
D. & B.G. & E.L. CO. ----------DANBURY & BETHEL GAS & ELEC. LIGHT CO.
D.G. & E. CO. ----------DERBY GAS & ELECTRIC CO.
H.E.L. CO. ----------HARTFORD ELECTRIC LIGHT CO.
T.E.L. CO. ----------TORRINGTON ELECTRIC LIGHT CO.
U.I. CO. ----------UNITED ILLUMINATING CO.

VERMONT

C.V.P.S. CORP. ----------CENTRAL VERMONT PUBLIC SERVICE CORP.
P.E.L. CO. ----------PUBLIC ELECTRIC LIGHT CO.
T.S.G. & E. CO. ----------TWIN STATE GAS & ELECTRIC CO.

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 24 9 21 AM '43
BOSTON MASS

1. Name of System.

   Bangor Hydro-Electric Company

2. Names and addresses of operating companies comprising system.

   Bangor Hydro-Electric Company,
   33 State Street,
   Bangor, Maine.

3. Names of holding companies, if any.

   None

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction. None as of March 15, 1943.
   See accompanying map.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

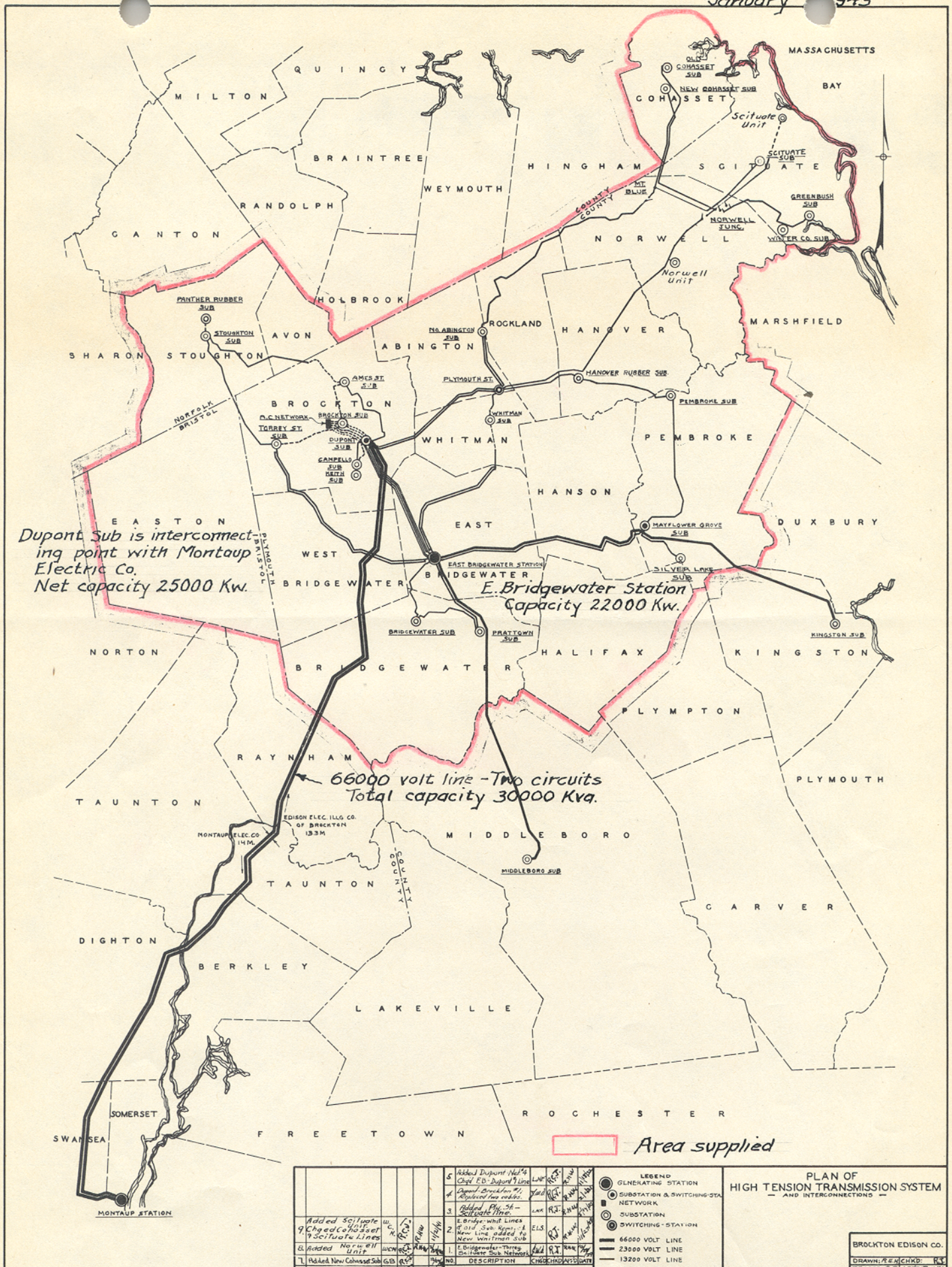
Company official to consult on Power Survey matters:

Name P. P. Kruse

Title Chief Engineer.

Company Bangor Hydro-Electric Company

January 1943



NO.	DESCRIPTION	CHKD	CHKD	APPD	DATE
9.	Added Scituate Unit; Chgd Cohasset & Scituate Lines	W.C.N.	R.C.W.	R.E.W.	1/15/44
8.	Added Norwell Unit	W.C.N.	R.C.W.	R.E.W.	1/15/44
7.	Added New Cohasset Sub	G.B.	R.C.W.		7/14/43
6.	ADDED Silver Lake Pumping Station Sub	G.B.	R.C.W.	R.E.W.	1/15/44
5.	Added Dupont Net #4 Chgd E.B.-Dupont 9 Line	L.N.P.	R.C.W.	R.E.W.	1/15/44
4.	Dupont-Brockton #1; Replaced two cables.	Field	R.C.W.	R.E.W.	3.1.43
3.	Added Pkg. St.-Scituate Line.	L.N.P.	R.J.	R.E.W.	7/14/43
2.	E. Bridge-whit Lines & old Sub. Kgmt.; & New Line added to New Whitman Sub	E.L.S.	R.J.	R.E.W.	1/15/44
1.	E. Bridgewater-Torrey Scituate Sub. Network	Field	R.J.	R.E.W.	7/14/43

TABLE OF CHANGES

LEGEND
- GENERATING STATION
- SUBSTATION & SWITCHING-STA.
- NETWORK
- SUBSTATION
- SWITCHING-STATION
- 66000 VOLT LINE
- 23000 VOLT LINE
- 13200 VOLT LINE
- 13200 VOLT CABLE

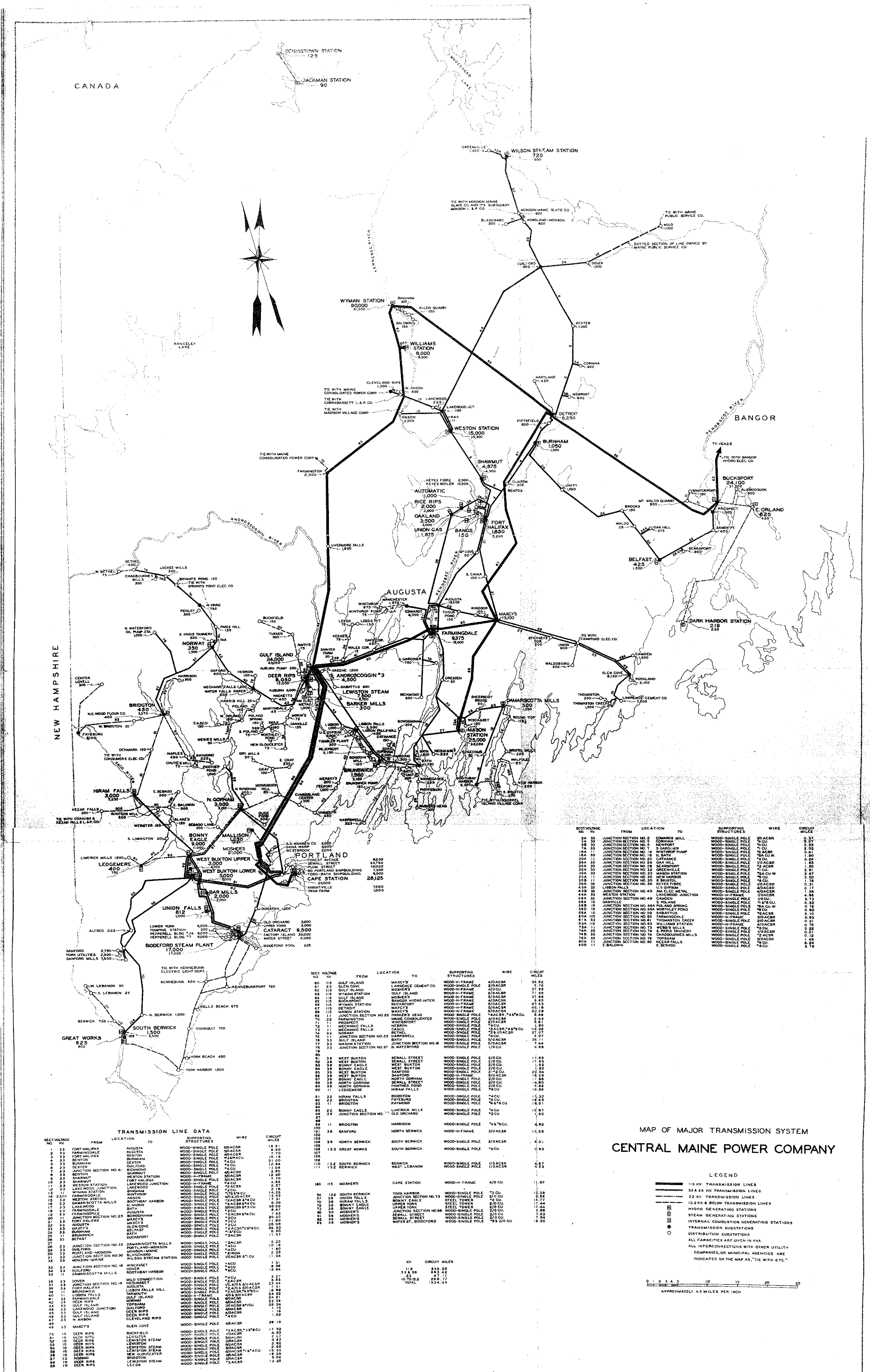
PLAN OF HIGH TENSION TRANSMISSION SYSTEM
— AND INTERCONNECTIONS —

S1000-43

BROCKTON EDISON CO.

DRAWN: R.E.W.	CHKD: R.J.
TRACED: G.B.	APPD: R.N.W.
SCALE: 1" = 1 MI.	DATE: 1/14/44

SCALE ½" = 1 MI. APPROX.



SECT. NO.	VOLTAGE KV.	LOCATION FROM	TO	SUPPORTING STRUCTURES	WIRE	CIRCUIT MILES
2A	33	JUNCTION SECTION NO. 2	EDWARDS MILL	WOOD-SINGLE POLE	3/0 ACSR	0.37
5A	33	JUNCTION SECTION NO. 5	CORINNA	WOOD-SINGLE POLE	*4 CU.	3.07
5B	33	JUNCTION SECTION NO. 5	NEWPORT	WOOD-SINGLE POLE	*6 CU.	0.23
7A	33	JUNCTION SECTION NO. 7	S. GARDINER	WOOD-SINGLE POLE	*1 CU.	2.52
14A	11	JUNCTION SECTION NO. 14	WINTHROP PUMP	WOOD-SINGLE POLE	*2 ACSR	0.41
16A	33	JUNCTION SECTION NO. 16	N. BATH	WOOD-SINGLE POLE	*5A CU.W.	1.50
20A	11	JUNCTION SECTION NO. 20	CATHANCE	WOOD-SINGLE POLE	*4 CU.	0.24
24A	33	JUNCTION SECTION NO. 24	OAK HILL	WOOD-SINGLE POLE	1/0 ACSR	1.83
26A	33	JUNCTION SECTION NO. 26	SEARSPORT	WOOD-SINGLE POLE	*2 ACSR	1.50
32A	33	JUNCTION SECTION NO. 32	GREENVILLE	WOOD-SINGLE POLE	*1 CU.	2.91
33A	33	JUNCTION SECTION NO. 33	MASON STATION	WOOD-SINGLE POLE	*2A CU.W.	3.67
35A	11	JUNCTION SECTION NO. 35	NEW HARBOR	WOOD-SINGLE POLE	*6 CU.	5.00
35B	11	JUNCTION SECTION NO. 35	S. BRISTOL	WOOD-SINGLE POLE	*8 CU.	1.76
36A	33	JUNCTION SECTION NO. 36	KEYES FIBRE	WOOD-SINGLE POLE	1/0 ACSR	0.31
43A	33	LISBON FALLS	U.S. GYPSUM	WOOD-SINGLE POLE	4/0 ACSR	0.17
43B	33	JUNCTION SECTION NO. 43	AM. ELEC. METAL	WOOD-SINGLE POLE	4/0 ACSR	1.38
44A	33	WESTON STATION	LAKEWOOD JUNCTION	WOOD-H-FRAME	1/0 ACSR	4.86
49A	33	JUNCTION SECTION NO. 49	CAMDEN	WOOD-SINGLE POLE	1/0 CU.	3.73
56A	10	DANVILLE	S. POLAND	WOOD-SINGLE POLE	*1 & *6 CU.	4.52
56B	10	JUNCTION SECTION NO. 56A	POLAND SPRING	WOOD-SINGLE POLE	*6A CU.W.	0.76
56D	10	JUNCTION SECTION NO. 56A	WORTHLEY POND	WOOD-SINGLE POLE	*8 CU.	0.82
59A	10	JUNCTION SECTION NO. 59	SABATTUS	WOOD-SINGLE POLE	*2 ACSR	3.10
60A	115	JUNCTION SECTION NO. 60	FARMINGDALE	WOOD-H-FRAME	5/0 ACSR	0.93
61A	33	JUNCTION SECTION NO. 61	THOMASTON CREEK	WOOD-SINGLE POLE	2/0 ACSR	0.31
63A	115	JUNCTION SECTION NO. 63	WILLIAMS STATION	WOOD-H-FRAME	4/0 ACSR	0.76
73A	11	JUNCTION SECTION NO. 73	WEBB'S MILLS	WOOD-SINGLE POLE	*8 CU.	3.22
74A	33	JUNCTION SECTION NO. 74	S. PARIS TANNERY	WOOD-SINGLE POLE	1/0 ACSR	0.21
74B	33	JUNCTION SECTION NO. 74	CHADBOURNES MILLS	WOOD-SINGLE POLE	*2 ACSR	0.12
76A	33	JUNCTION SECTION NO. 76	TOPSHAM	WOOD-SINGLE POLE	5/0 ACSR	1.49
90A	11	JUNCTION SECTION NO. 90	KEZAR FALLS	WOOD-SINGLE POLE	*8 CU.	6.24
90B	11	E. BALDWIN	E. SEBAGO	WOOD-SINGLE POLE	*6 CU.	3.79

SECT. NO.	VOLTAGE KV.	LOCATION FROM	TO	SUPPORTING STRUCTURES	WIRE	CIRCUIT MILES
60	115	GULF ISLAND	MAXCY'S	WOOD-H-FRAME	4/0 ACSR	34.82
61	33	GLEN COVE	LAWRENCE CEMENT CO.	WOOD-SINGLE POLE	2/0 ACSR	5.76
62	115	GULF ISLAND	MOSHER'S	WOOD-H-FRAME	4/0 CU.	37.05
63	115	WYMAN STATION	GULF ISLAND	WOOD-H-FRAME	5/0 ACSR	77.55
64	115	GULF ISLAND	MOSHER'S	WOOD-H-FRAME	5/0 ACSR	37.96
65	115	BUCKSPORT	BANGOR HYDRO INTER.	WOOD-H-FRAME	4/0 ACSR	6.65
66	115	WYMAN STATION	BUCKSPORT	WOOD-H-FRAME	5/0 ACSR	67.53
67	115	DETROIT	MAXCY'S	WOOD-H-FRAME	5/0 ACSR	46.18
68	115	MASON STATION	MAXCY'S	WOOD-H-FRAME	5/0 ACSR	20.29
69	11	JUNCTION SECTION NO. 25	PARKER'S HEAD	WOOD-SINGLE POLE	*4 ACSR, *4 & *6 CU.	8.46
70	22	FARMINGTON	MAINE CONSOLIDATED	WOOD-SINGLE POLE	4/0 ACSR	2.43
71	11	PROSPECT	WINTERPORT	WOOD-SINGLE POLE	2/0 ACSR	5.81
72	11	MECHANIC FALLS	HEBRON	WOOD-SINGLE POLE	*4 CU.	1.90
73	11	MECHANIC FALLS	CASCO	WOOD-SINGLE POLE	*2 ACSR, *4 & *6 CU.	14.08
74	33	NORWAY	BETHEL	WOOD-SINGLE POLE	*2 & 1/0 ACSR	27.07
75	11	JUNCTION SECTION NO. 25	HARPSWELL	WOOD-SINGLE POLE	*4 CU.	6.07
76	33	GULF ISLAND	BATH	WOOD-SINGLE POLE	5/0 ACSR	29.11
77	33	MASON STATION	JUNCTION SECTION NO. 18	WOOD-SINGLE POLE	5/0 ACSR	7.44
78	33	JUNCTION SECTION NO. 57	N. WATERFORD	WOOD-SINGLE POLE	1/0 CU.	8.86
79						
80						
81	36	WEST BUXTON	SEWALL STREET	WOOD-SINGLE POLE	2/0 CU.	17.86
82	36	WEST BUXTON	SEWALL STREET	WOOD-SINGLE POLE	2/0 CU.	17.65
83	36	BONNY EAGLE	WEST BUXTON	WOOD-SINGLE POLE	2/0 CU.	1.62
84	36	BONNY EAGLE	WEST BUXTON	WOOD-SINGLE POLE	2/0 CU.	1.82
85	36	WEST BUXTON	SANFORD	WOOD-SINGLE POLE	2-*2 CU.	22.04
86	36	WEST BUXTON	SANFORD	WOOD-H-FRAME	5/0 ACSR	18.59
87	36	BONNY EAGLE	NORTH GORHAM	WOOD-SINGLE POLE	2/0 CU.	11.88
88	36	NORTH GORHAM	SEWALL STREET	WOOD-SINGLE POLE	2/0 CU.	14.80
89	36	NORTH GORHAM	PANTHER POND	WOOD-SINGLE POLE	2/0 CU.	0.69
90	11	LEDGEMERE	HIRAM FALLS	WOOD-SINGLE POLE	*8 CU.	19.86
91	22	HIRAM FALLS	BRIDGTON	WOOD-SINGLE POLE	*4 CU.	7.32
92	22	BRIDGTON	FRYEBURG	WOOD-SINGLE POLE	*4 CU.	16.49
93	11	BRIDGTON	RAYMOND	WOOD-SINGLE POLE	*4 & *6 CU.	18.01
94						
95	22	BONNY EAGLE	LIMERICK MILLS	WOOD-SINGLE POLE	*4 CU.	10.87
96	36	JUNCTION SECTION NO. 73	OLD ORCHARD	WOOD-SINGLE POLE	*2 CU.	1.60
97						
98						
99	11	BRIDGTON	HARRISON	WOOD-SINGLE POLE	*4 & *6 CU.	4.82
100						
101	36	SANFORD	NORTH BERWICK	WOOD-H-FRAME	3/0 ACSR	13.56
102						
103						
104	36	NORTH BERWICK	SOUTH BERWICK	WOOD-SINGLE POLE	3/0 ACSR	6.01
105						
106	13.2	GREAT WORKS	SOUTH BERWICK	WOOD-SINGLE POLE	*4 CU.	0.80
107						
108						
109						
110	13.2	SOUTH BERWICK	BERWICK	WOOD-SINGLE POLE	1/0 ACSR	4.67
111	13.2	BERWICK	WEST LEBANON	WOOD-SINGLE POLE	1/0 ACSR	6.33
160	115	MOSHER'S	CAPE STATION	WOOD-H-FRAME	4/0 CU.	11.67
56	13.2	SOUTH BERWICK	YORK HARBOR	WOOD-SINGLE POLE	*2 CU.	12.28
57	36	UNION FALLS	JUNCTION SECTION NO. 73	WOOD-SINGLE POLE	2/0 CU.	0.66
70	36	HIRAM FALLS	BONNY EAGLE	STEEL TOWER	*2 CU.	14.77
72	36	BONNY EAGLE	UPPER YORK	STEEL TOWER	2/0 CU.	17.44
73	36	BONNY EAGLE	UPPER YORK	STEEL TOWER	2/0 CU.	17.44
90	36	MOSHER'S	JUNCTION SECTION NO. 88	WOOD-SINGLE POLE	2/0 CU.	6.88
91	36	MOSHER'S	SEWALL STREET	WOOD-SINGLE POLE	2/0 CU.	7.03
92	36	MOSHER'S	SEWALL STREET	WOOD-SINGLE POLE	2/0 CU.	7.54
93	36	MOSHER'S	WATER ST., BIDDEFORD	WOOD-SINGLE POLE	*2 & 2/0 CU.	18.80

KV.	CIRCUIT MILES
115	333.29
33 & 36	686.42
23	47.11
10 TO 13.2	268.77
TOTAL	1334.59

TRANSMISSION LINE DATA

SECT. NO.	VOLTAGE KV.	LOCATION FROM	TO	SUPPORTING STRUCTURES	WIRE	CIRCUIT MILES
1	33	FORT HALIFAX	AUGUSTA	WOOD-SINGLE POLE	5/0 ACSR	18.51
2	33	FARMINGDALE	AUGUSTA	WOOD-SINGLE POLE	5/0 ACSR	8.90
3	33	FORT HALIFAX	BENTON	WOOD-SINGLE POLE	4/0 ACSR	7.70
4	33	BENTON	BURNHAM	WOOD-SINGLE POLE	*3 & *4 CU.	10.14
5	33	BURNHAM	DEXTER	WOOD-SINGLE POLE	*4 CU.	21.00
6	33	DEXTER	GUILFORD	WOOD-SINGLE POLE	*4 CU.	12.84
7	33	JUNCTION SECTION NO. 41	RICHMOND	WOOD-SINGLE POLE	*4 CU.	11.08
8	33	BENTON	SHAWMUT	WOOD-SINGLE POLE	4/0 ACSR	3.80
9	33	SHAWMUT	WESTON STATION	WOOD-H-FRAME	3/0 ACSR	12.90
10	33	SHAWMUT	FORT HALIFAX	WOOD-SINGLE POLE	5/0 ACSR	7.70
11	33	WESTON STATION	LAKEWOOD JUNCTION	WOOD-H-FRAME	*4 CU.	4.86
12	33	LAKEWOOD JUNCTION	LAKEWOOD	WOOD-SINGLE POLE	*2 ACSR	2.57
13	11	WYMAN STATION	BINGHAM	WOOD-SINGLE POLE	*2 CU.	2.16
14	33/11	FARMINGDALE	WINTHROP	WOOD-SINGLE POLE	*1, *2 & *4 CU.	14.29
15	33	WESTON STATION	ANSON	WOOD-SINGLE POLE	4/0 & 1/0 ACSR	12.42
16	33	DAMARISCOTTA MILLS	BOOTHBAY HARBOR	WOOD-SINGLE POLE	*2 ACSR & *4 CU.	17.31
17	33	LAKEWOOD	N. ANSON	WOOD-SINGLE POLE	*4 ACSR & *4 CU.	6.00
18	33	FARMINGDALE	AUGUSTA	WOOD-SINGLE POLE	5/0 ACSR & *3 CU.	30.00
19	33	FARMINGDALE	BOWDOINHAM	WOOD-SINGLE POLE	*2 CU.	8.87
20	11	JUNCTION SECTION NO. 25	MAXCY'S	WOOD-SINGLE POLE	*2 ACSR & *4 CU.	7.92
21	33	FORT HALIFAX	MAXCY'S	WOOD-SINGLE POLE	*2 CU.	20.30
22	33	AUGUSTA	GLEN COVE	WOOD-SINGLE POLE	*2 CU.	11.80
23	33	MAXCY'S	BELFAST	WOOD-SINGLE POLE	*2 ACSR, *2 & *4 CU.	25.08
24	33	BURNHAM	BATH	WOOD-SINGLE POLE	*1 & *2 CU.	34.52
25	11	BRUNSWICK	BUCKSPORT	WOOD-SINGLE POLE	*2 ACSR	8.90
26	33	BELFAST				17.57
27						
28	33	JUNCTION SECTION NO. 33	DAMARISCOTTA MILLS	WOOD-SINGLE POLE	*2 ACSR	5.25
29	33	GUILFORD	PORTLAND-MONSON	WOOD-SINGLE POLE	*4 CU.	10.16
30	33	PORTLAND-MONSON	MONSON-MAINE	WOOD-SINGLE POLE	*4 CU.	1.80
31	33	JUNCTION SECTION NO. 30	BLANCHARD	WOOD-SINGLE POLE	*8 IRON	2.25
32	33	MONSON-MAINE	WILSON STREAM STATION	WOOD-SINGLE POLE	1/0 ACSR & *1 CU.	11.04
33	33	JUNCTION SECTION NO. 18	WISCASSET	WOOD-SINGLE POLE	*4 CU.	7.31
34	33	GUILFORD	DOVER	WOOD-SINGLE POLE	*4 CU.	8.58
35	11	DAMARISCOTTA MILLS	BOOTHBAY HARBOR	WOOD-SINGLE POLE	*6 CU.	19.94
36	33	DOVER	MILO CONNECTION	WOOD-SINGLE POLE	*4 CU.	3.27
37	33	JUNCTION SECTION NO. 18	NEQUASSET	WOOD-SINGLE POLE	*2 ACSR	4.53
38	33	FORT HALIFAX	AUGUSTA	WOOD-SINGLE POLE	1/0, 4/0 & 5/0 ACSR	25.94
39	11	BRUNSWICK	LISBON FALLS MILL	WOOD-SINGLE POLE	*2, 4/0 & 5/0 ACSR	7.31
40	11	LISBON FALLS	YARMOUTH	WOOD-SINGLE POLE	*2 ACSR, *4 & *6 CU.	16.88
41	33	FARMINGDALE	GULF ISLAND	WOOD-H-FRAME	4/0 & 5/0 ACSR	24.92
42	33	DEER RIPS	NORWAY	WOOD-SINGLE POLE	6/0 ACSR	24.21
43	33	GULF ISLAND	TOPSHAM	WOOD-SINGLE POLE	4/0 ACSR	22.38
44	33	LAKEWOOD JUNCTION	GUILFORD	WOOD-SINGLE POLE	1/0 ACSR & *1 CU.	29.24
45	33	GULF ISLAND	DEER RIPS	WOOD-SINGLE POLE	4/0 ACSR	1.15
46	33	GULF ISLAND	DEER RIPS	WOOD-SINGLE POLE	4/0 ACSR	1.16
47	33	N. ANSON	CLEVELAND RIPS	WOOD-SINGLE POLE	*4 CU.	1.09
48						
49	33	MAXCY'S	GLEN COVE	WOOD-SINGLE POLE	4/0 ACSR	26.16
50	10	DEER RIPS	BUCKFIELD	WOOD-SINGLE POLE	*2 ACSR, *1 & *6 CU.	17.33
51	10	DEER RIPS	LEWISTON	WOOD-SINGLE POLE	1/0 ACSR	4.63
52	10	DEER RIPS	LEWISTON STEAM	WOOD-SINGLE POLE	2/0 ACSR	2.52
53	10	DEER RIPS	LEWISTON	WOOD-SINGLE POLE	6/0 ACSR	4.63
54	10	DEER RIPS	LEWISTON STEAM	WOOD-SINGLE POLE	5/0 ACSR	2.92
55	10	DEER RIPS	LEWISTON STEAM	WOOD-SINGLE POLE	6/0 ACSR, *1 & *4 CU.	15.33
56	10	DEER RIPS	NEW GLOUCESTER	WOOD-SINGLE POLE	4/0 ACSR	16.20
57	33	NORWAY	BRIDGTON	WOOD-SINGLE POLE	3/0 ACSR	3.04
58	10	DEER RIPS	LEWISTON STEAM	WOOD-SINGLE POLE	*2 ACSR	13.28
59	10	DEER RIPS	LEEDS			

MAP OF MAJOR TRANSMISSION SYSTEM

CENTRAL MAINE POWER COMPANY

LEGEND

- 115 KV. TRANSMISSION LINES
- 33 & 36 KV. TRANSMISSION LINES
- 22 KV. TRANSMISSION LINES
- 13.2 KV. & BELOW TRANSMISSION LINES
- HYDRO GENERATING STATIONS
- STEAM GENERATING STATIONS
- INTERNAL COMBUSTION GENERATING STATIONS
- TRANSMISSION SUBSTATIONS
- DISTRIBUTION SUBSTATIONS

ALL CAPACITIES ARE GIVEN IN KVA.

ALL INTERCONNECTIONS WITH OTHER UTILITY COMPANIES, OR MUNICIPAL AGENCIES ARE INDICATED ON THE MAP AS, "TIE WITH ETC."

0 1 2 3 4 5 10 15 20 25

APPROXIMATELY 4.5 MILES PER INCH

MADE BY: A.H. ROGERS DATE DEC 31, 1942 TRACED: M.L. MACE

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System. **Central Maine Power Company**

2. Names and addresses of operating companies comprising system.

Central Maine Power Company
9 Green Street
Augusta, Maine

3. Names of holding companies, if any.

New England Public Service Company

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Company ~~Xxxx~~ **CENTRAL MAINE POWER COMPANY**

Name ~~Xxxx~~ G. S. Williams

Title ~~Xxxxxx~~ **Vice President & General Manager**

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System.
   Maine Public Service Company

2. Names and addresses of operating companies comprising system.
   Maine Public Service Company
   144 East State Street
   Presque Isle, Maine

3. Names of holding companies, if any.
   Consolidated Electric and Gas Company
   90 Broad Street
   New York, New York

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.
      See attached one line diagram.

   c. Location and capacity, in kilowatts, of main power lines.
      See attached one line diagram.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)
      See attached one line diagram. Capacity limited by transmission lines.

   e. Location and capacity of power plants and power lines under construction.
      None

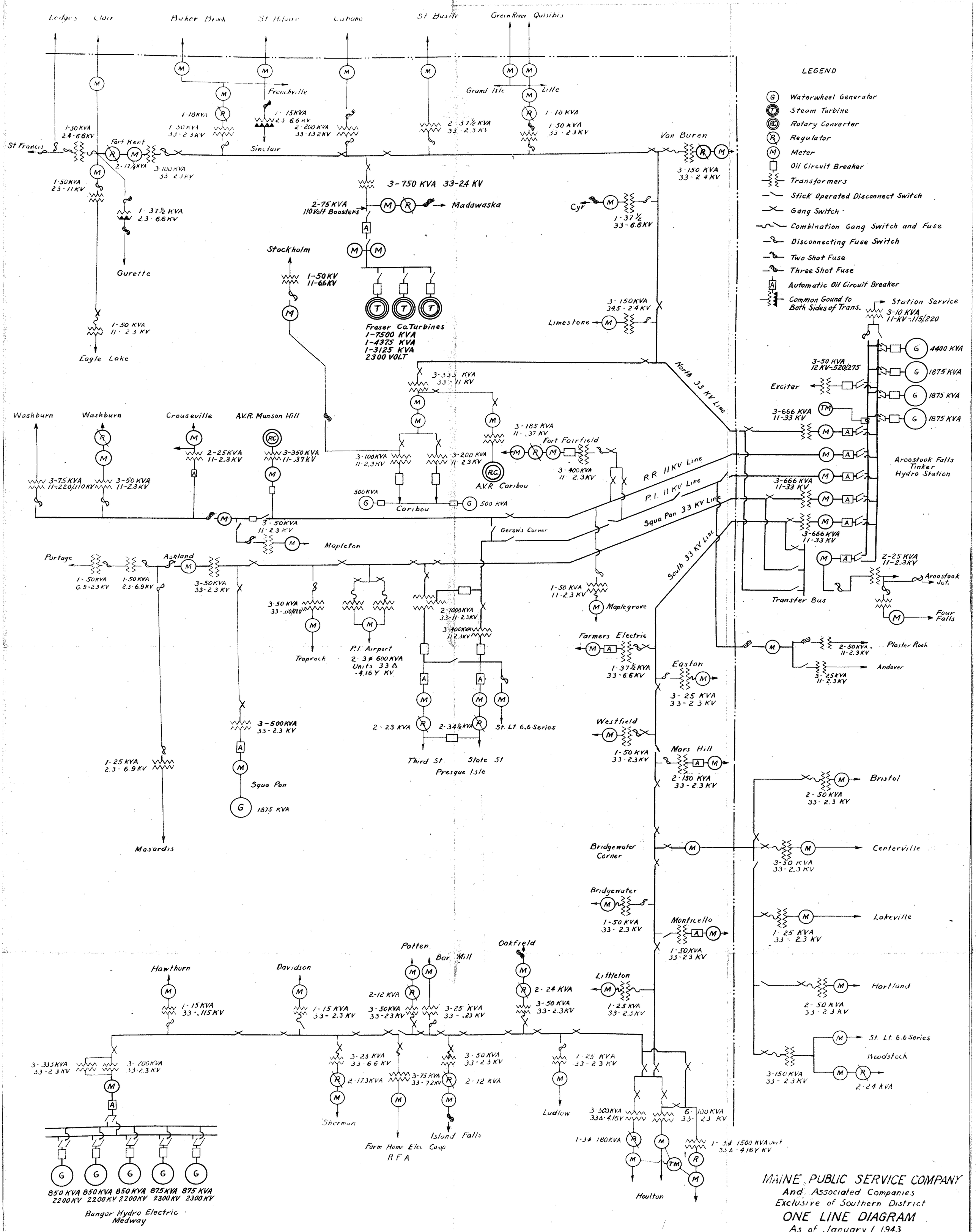
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name M E Blackwell

Title **Assistant Manager**

Company **Maine Public Service Company**


LEGEND
Waterwheel Generator
Steam Turbine
Rotary Converter
Regulator
Meter
Oil Circuit Breaker
Transformers
Stick Operated Disconnect Switch
Gang Switch
Combination Gang Switch and Fuse
Disconnecting Fuse Switch
Two Shot Fuse
Three Shot Fuse
Automatic Oil Circuit Breaker
Common Gound to Both Sides of Trans.
Ledges
Clair
Baker Brook
St Hilaire
Cabano
St Basile
Green River
Quisibis
Frenchville
Grand Isle
Lille
Van Buren
St Francis
Fort Kent
Sinclair
Gurette
Eagle Lake
Madawaska
Stockholm
Fraser Co. Turbines
1-7500 KVA
1-4375 KVA
1-3125 KVA
2300 VOLT
Cyr
Limestone
Station Service
3-10 KVA
11-KV-115/220
4400 KVA
1875 KVA
1875 KVA
1875 KVA
Exciter
Washburn
Washburn
Crouseville
A.V.R. Munson Hill
A.V.R. Caribou
Caribou
Fort Fairfield
Aroostook Falls Tinker Hydro Station
R.R. 11 KV Line
P.I. 11 KV Line
Squa Pan 33 KV Line
North 33 KV Line
South 33 KV Line
Mapleton
Gerow's Corner
Portage
Ashland
Traprock
P.I. Airport
2-3φ 600 KVA Units 33Δ -4.16Y KV
Maplegrove
Transfer Bus
Aroostook Jct.
Four Falls
Plaster Rock
Andover
Farmers Electric
Easton
Westfield
Mars Hill
Bristol
Centerville
Bridgewater Corner
Bridgewater
Monticello
Lakeville
Hartland
St. Lt. 6.6 Series
Woodstock
Squa Pan
1875 KVA
Masardis
Third St
State St
Presque Isle
St. Lt. 6.6 Series
Hawthorn
Davidson
Patten
Bar Mill
Oakfield
Littleton
Sherman
Island Falls
Farm Home Elec Co-op
R E A
Ludlow
Houlton
850 KVA 2200 KV
850 KVA 2200 KV
850 KVA 2200 KV
875 KVA 2300 KV
875 KVA 2300 KV
Bangor Hydro Electric
Medway
MAINE PUBLIC SERVICE COMPANY
And Associated Companies
Exclusive of Southern District
ONE LINE DIAGRAM
As of January 1, 1943

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 26 10 12 AM '43
BOSTON, MASS

1. Name of System. **Rumford Falls Power Co.**

2. Names and addresses of operating companies comprising system.

   Rumford Falls Power Co., 49 Congress St., Rumford, Maine.

3. Names of holding companies, if any.

   Oxford Paper Co.

4. Furnish maps (any convenient scale) showing: **(Enclosed system maps give all information asked in this question.)**

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

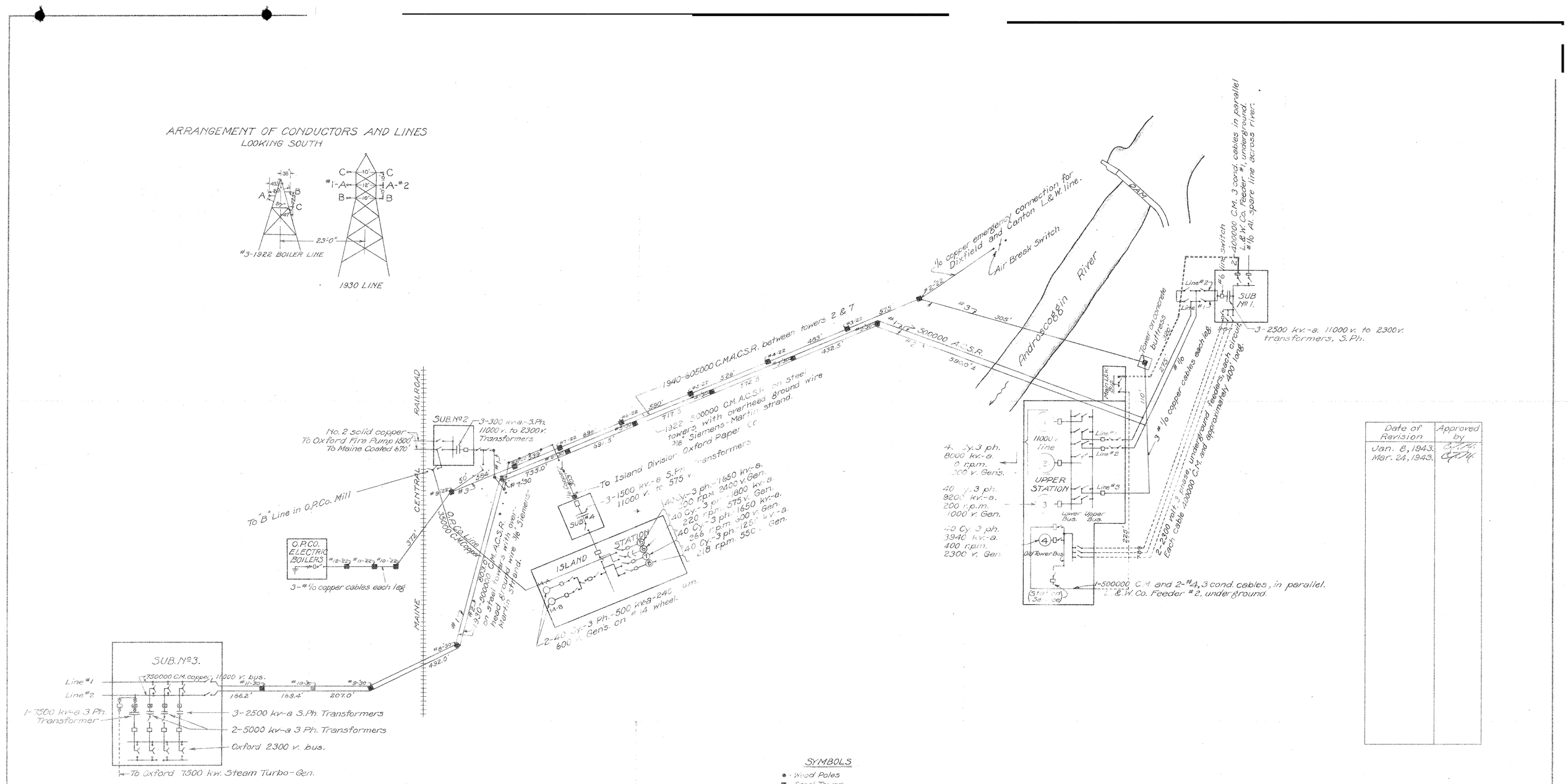
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **G. T. Maynard**

Title **Electrical Engineer**

Company **Rumford Falls Power Company.**



Date of Revision	Approved by
Jan. 8, 1943.	[illegible]
Mar. 24, 1943.	[illegible]

RUMFORD FALLS POWER COMPANY

HYDRAULIC RECORD

ELECTRIC GENERATING AND TRANSMISSION SYSTEM

Diagramatic - not to scale.

SHEET NO. H.R. 27

Print made

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 26 9 54 AM '43
BOSTON, MASS

1. Name of System. CONCORD ELECTRIC COMPANY

2. Names and addresses of operating companies comprising system.

Concord Electric Company
15 Capitol Street
Concord, New Hampshire

3. Names of holding companies, if any. None

4. Furnish maps (any convenient scale) showing: Enclosed

a. Areas supplied.

b. Location and name plate capacity of principal power plants.

c. Location and capacity, in kilowatts, of main power lines.

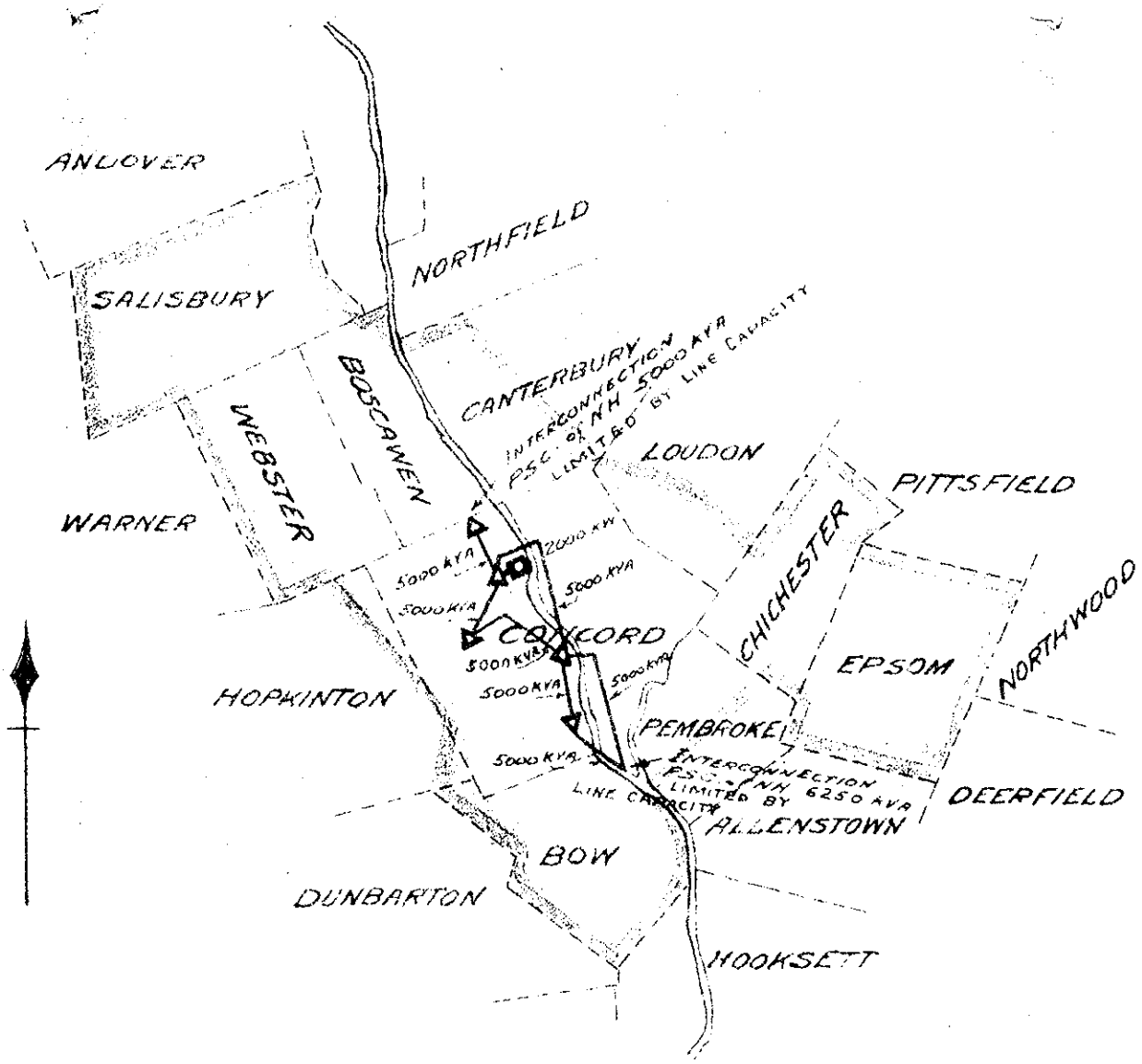
d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

e. Location and capacity of power plants and power lines under construction. None

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name V. M. F. Tallman H.R.B.
~~V. M. F. Tallman~~
Title Consulting Engineer
Company Concord Electric Company
~~49 Broad Street~~
Boston, Massachusetts



TERRITORY SUPPLIED
WITH ELECTRIC SERVICE
CONCORD ELECTRIC CO.
CONCORD N.H.

1941

REVISED
1942

LEGEND

- ▣ HYDRO GENERATING PLANT 2000 KW.
- ▲ SUB-STATION
- —— TRANSMISSION LINES 33000 VOLT

C-1-331

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System.

   New England Gas and Electric System

2. Names and addresses of operating companies comprising system.

   New Hampshire Gas and Electric Company
   719 Massachusetts Avenue
   Cambridge, Massachusetts

3. Names of holding companies, if any.

   New England Gas and Electric Association

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

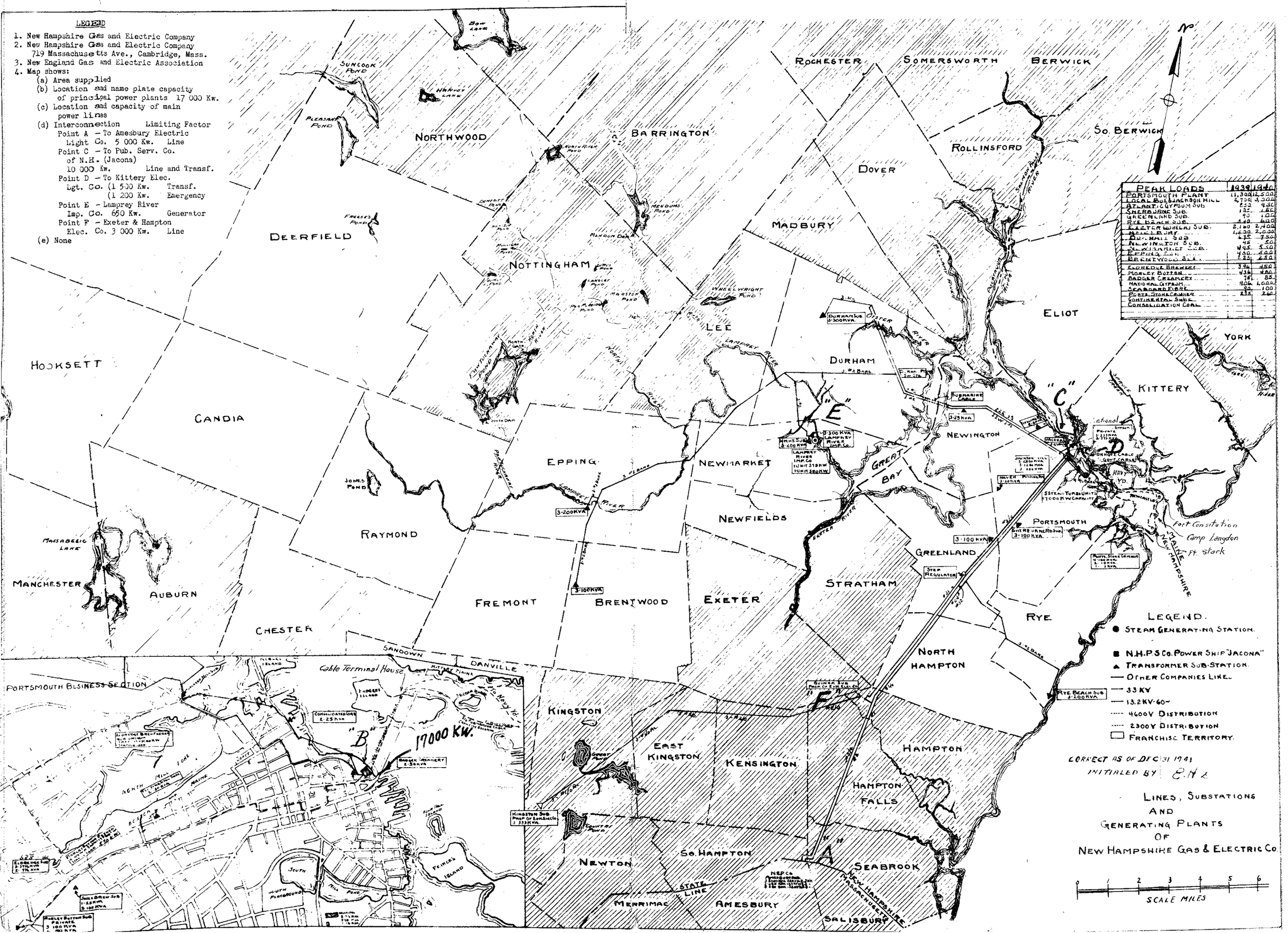
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **R. D. Stauffer**

Title **Chief Engineer**

Company **New Hampshire Gas and Electric Company**


LEGEND
1. New Hampshire Gas and Electric Company
2. New Hampshire Gas and Electric Company
719 Massachusetts Ave., Cambridge, Mass.
3. New England Gas and Electric Association
4. Map shows:
(a) Area supplied
(b) Location and name plate capacity of principal power plants 17 000 Kw.
(c) Location and capacity of main power lines
(d) Interconnection Limiting Factor
Point A – To Amesbury Electric Light Co. 5 000 Kw. Line
Point C – To Pub. Serv. Co. of N.H. (Jacona) 10 000 Kw. Line and Transf.
Point D – To Kittery Elec. Lgt. Co. (1 500 Kw. Transf. (1 200 Kw. Emergency
Point E – Lamprey River Imp. Co. 650 Kw. Generator
Point F – Exeter & Hampton Elec. Co. 3 000 Kw. Line
(e) None
PEAK LOADS 1939 1940
PORTSMOUTH PLANT 11,300 12,500
LOCAL BUS BACKSON HILL 4,700 5,000
ATLANTIC GYPSUM SUB 650 950
SHERBURNE SUB. 135 160
GREENLAND SUB. 90 100
RYE BEACH SUB. 540 600
EXETER WHELAN SUB. 2,160 2,400
AMESBURY 1,800 2,000
DURHAM SUB 675 750
NEWINGTON SUB. 45 50
NEWMARKET SUB. 495 550
EPPING SUB. 450 500
BRENTWOOD SUB. 225 250
FLOREDUE BREWERY 390 450
MORLEY BUTTON 430 480
BADGER CREAMERY 75 85
NATIONAL GYPSUM 900 1,000
SEABOARD FIBRE 90 100
PORTS. STONE CRUSHER 225 250
CONTINENTAL SUB.
CONSOLIDATION COAL
ROCHESTER
SOMERSWORTH
BERWICK
SO. BERWICK
ROLLINSFORD
DOVER
MADBURY
ELIOT
YORK
KITTERY
NORTHWOOD
BARRINGTON
DEERFIELD
NOTTINGHAM
LEE
DURHAM
HOOKSETT
CANDIA
EPPING
NEWMARKET
NEWINGTON
RAYMOND
NEWFIELDS
PORTSMOUTH
GREENLAND
MANCHESTER
AUBURN
FREMONT
BRENTWOOD
EXETER
STRATHAM
CHESTER
RYE
NORTH HAMPTON
SANDOWN
DANVILLE
KINGSTON
EAST KINGSTON
KENSINGTON
HAMPTON
HAMPTON FALLS
NEWTON
SO. HAMPTON
SEABROOK
MERRIMAC
AMESBURY
SALISBURY
GREAT BAY
Fort Constitution
Camp Langdon
Ft. Stark
MAINE
NEW HAMPSHIRE
MASSACHUSETTS
PORTSMOUTH BUSINESS SECTION
Cable Terminal House
17000 KW.
A
B
C
D
E
F
LEGEND.
STEAM GENERATING STATION.
N.H.P.S. Co. POWER SHIP "JACONA"
TRANSFORMER SUB-STATION.
OTHER COMPANIES LINES.
33 KV
13.2 KV-60~
4600V DISTRIBUTION
2300V DISTRIBUTION
FRANCHISE TERRITORY.
CORRECT AS OF DEC 31 1941
INITIALED BY E.H.L.
LINES, SUBSTATIONS AND GENERATING PLANTS OF NEW HAMPSHIRE GAS & ELECTRIC CO.
SCALE MILES
0 1 2 3 4 5 6

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 26 10 06 AM '43
BOSTON, MASS

1. Name of System.
   Public Service Company of New Hampshire and
   The Twin State Gas and Electric Company (N. H. Divisions)
2. Names and addresses of operating companies comprising system.
   Public Service Company of New Hampshire and
   The Twin State Gas and Electric Company (N. H. Divisions)
   1087 Elm Street
   Manchester, New Hampshire

3. Names of holding companies, if any.

   These Companies are subsidiaries of New England Public Service Company.

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name W. F. Williams

Title Chief Engineer

Company Public Service Company of N. H.

ELECTRIC SYSTEM MAP

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

AND

TWIN STATE GAS AND ELECTRIC COMPANY

PROPERTIES IN NEW HAMPSHIRE

SCALE IN MILES

0 5 10 15 20

As of Dec. 31, 1942

NOTE:
T.S.G. & E.CO. TRANSMISSION LINES ARE SHOWN DOTTED.
DESCRIPTIVE DATA REFERRING TO T.S.G. & E.CO. PROPERTY IS UNDERLINED

LEGEND:

COMPANIES:

PSNH	PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
TSGE	TWIN STATE GAS AND ELECTRIC COMPANY
BHC	BELMONT HOSIERY COMPANY
CVPS	CENTRAL VERMONT PUBLIC SERVICE COMPANY
CEC	CONCORD ELECTRIC COMPANY
NEP	NEW ENGLAND POWER ASSOCIATION
GSE	GRANITE STATE ELECTRIC COMPANY
DEC	DERRY ELECTRIC COMPANY
NHGE	NEW HAMPSHIRE GAS AND ELECTRIC COMPANY
* AEC	ALTON ELECTRIC LIGHT AND POWER COMPANY
* EAL	EAST ANDOVER LIGHT AND POWER COMPANY
* GFE	GOODRICH FALLS ELECTRIC COMPANY
* HLP	HILL LIGHT AND POWER COMPANY
* MEC	MEREDITH ELECTRIC LIGHT COMPANY
* PEC	PEMIGEWASSET ELECTRIC COMPANY
NHE COOP	NEW HAMPSHIRE ELECTRIC COOPERATIVE INC.

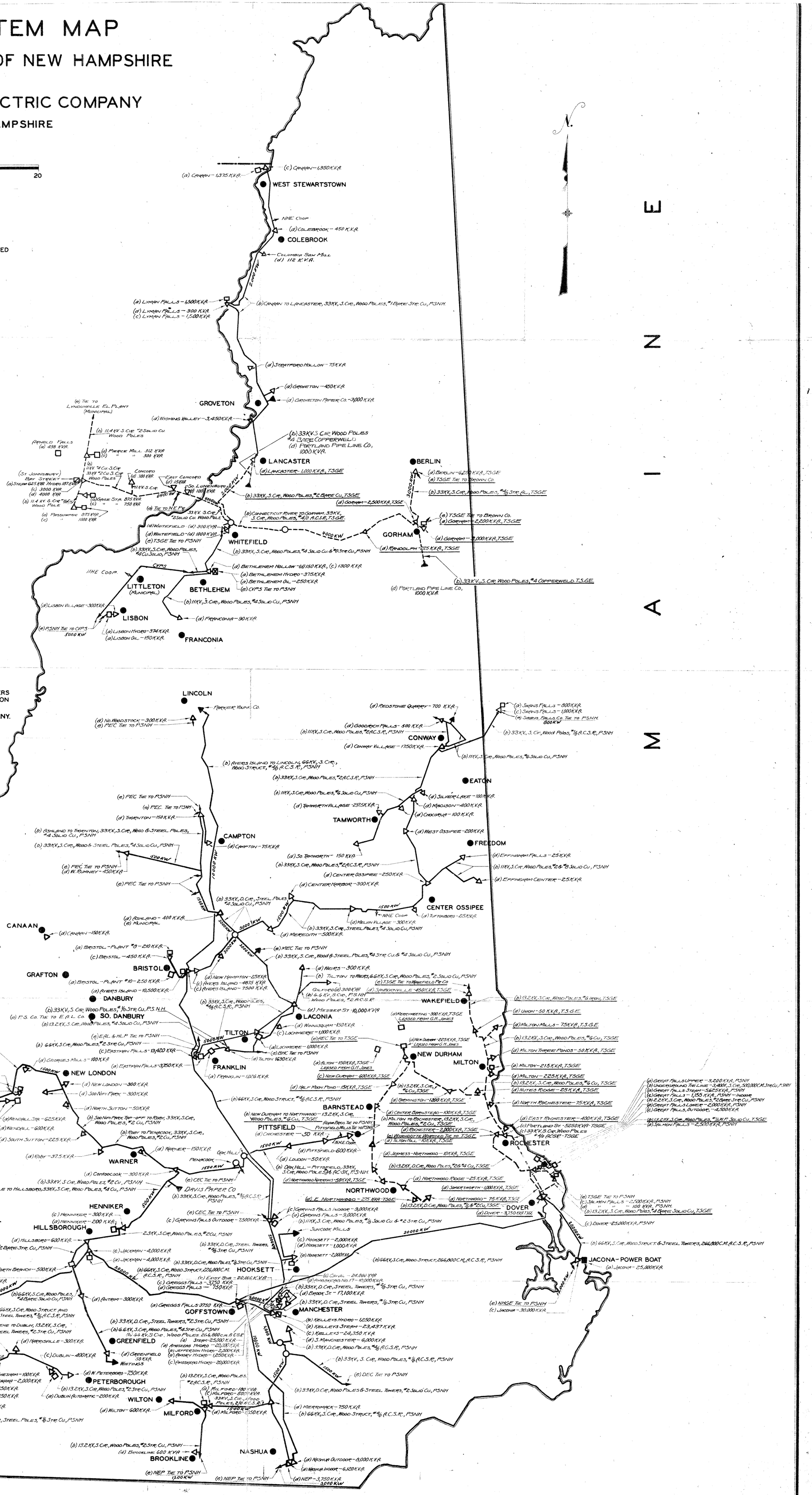
STATIONS & LINES:

- □ HYDRO GENERATING STATION
- ■ STEAM GENERATING STATION
- ⧅ HYDRO-STEAM GENERATING STATION
- ⧇ HYDRO-OIL GENERATING STATION
- △ SUBSTATION
- ▲ CUSTOMER'S SUBSTATION
- ○ SWITCHING STATION
- —— TRANSMISSION LINE
- ——→ TRANSMISSION LINE TIE IN

DESCRIPTIVE DATA:

- (a) GENERATING PLANTS
- (b) TRANSMISSION LINES
- (c) TRANSMISSION SUBSTATIONS
- (d) DISTRIBUTION SUBSTATIONS
- (e) POINTS OF INTERCONNECTION

NOTE:
TRANSMISSION LINES ARE THOSE FROM WHICH CUSTOMERS ARE NOT NORMALLY SERVED DIRECTLY THROUGH DISTRIBUTION TRANSFORMERS.
* NOW OWNED BY WHITE MOUNTAIN POWER COMPANY.



ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 27 9 05 AM '43
BOSTON, MASS.
JAN 1 '43

1. Name of System.

Boston Edison Company

2. Names and addresses of operating companies comprising system.

**Boston Edison Company, 182 Tremont Street,
Boston, Massachusetts**

3. Names of holding companies, if any.

The Company is not a holding company.

4. Furnish maps (any convenient scale) showing:

a. Areas supplied. **See Map NB-2055 dated July 1, 1938.**

b.* Location and name plate capacity of principal power plants.

c.* Location and capacity, in kilowatts, of main power lines.

d.* Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

e.* Location and capacity of power plants and power lines under construction.

***See map marked Paragraphs 4b, c, d, and e dated January 1, 1943.**

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

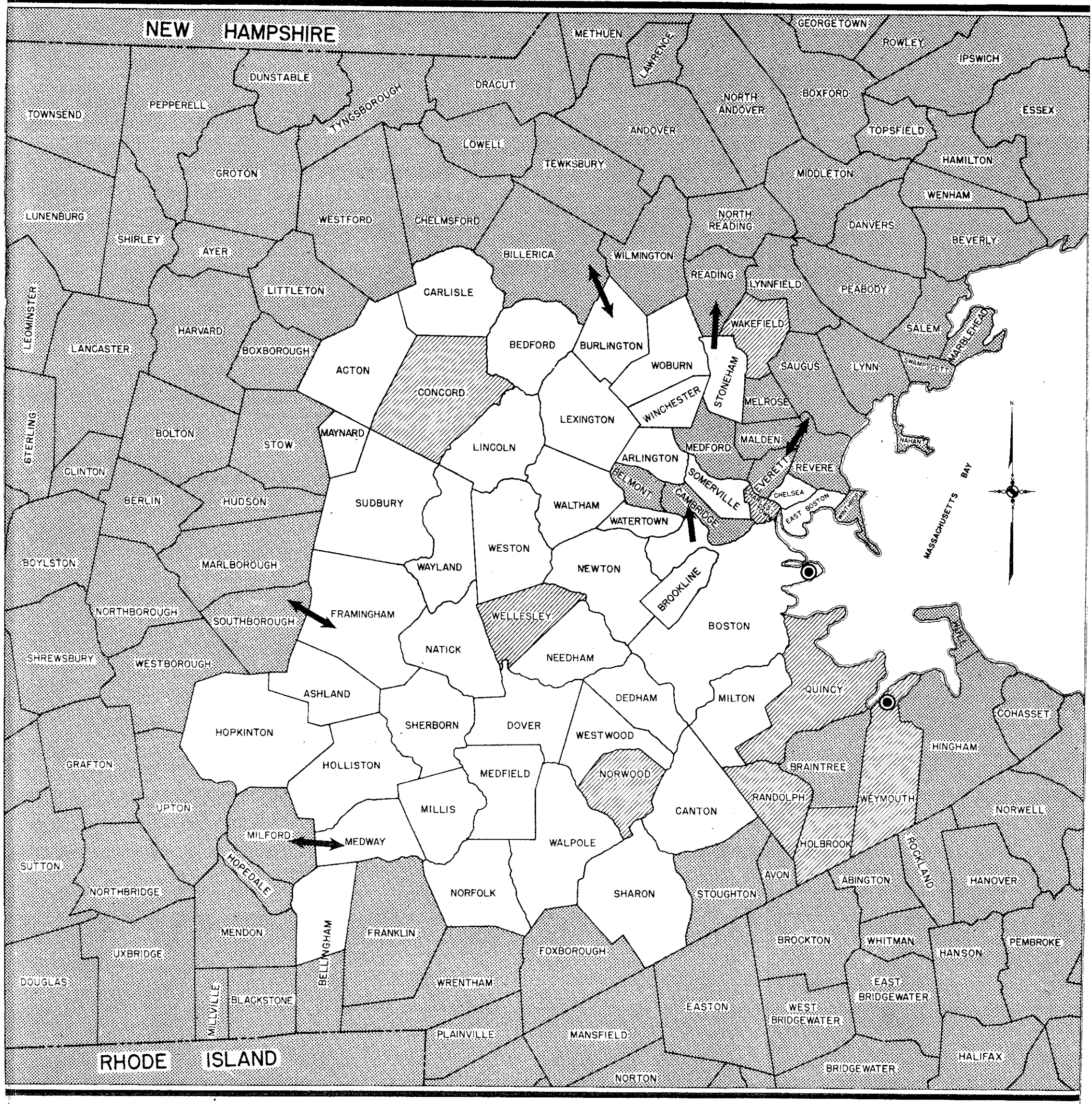
Company official to consult on Power Survey matters:

Name **Albert C. McKeniman**

Title **Vice President**

Company **Boston Edison Company**

Note: Since we revised your Electric Power Survey Map dated January 1, 1943, we have received in March, 1943, an additional name-plate for our new high-pressure unit (placed in service October 21, 1942) at our L Street Station, which gives an alternate rating of 18,750 kw (87.5% P.F). The original name-plate was 15,000 Kw (70% P.F.). Therefore we have now changed the name-plate capacity of L Street from 246,000 kw to 249,750 kw. Will you please incorporate this revision on your map dated January 1, 1943, as there has been no changes made in this unit since installed.



TERRITORY
SERVED BY
BOSTON EDISON COMPANY
1938

IN WHITE AREAS, COMPANY FURNISHES TOTAL REQUIREMENTS AND DISTRIBUTES LOCALLY.

IN CROSS HATCHED AREAS, COMPANY FURNISHES TOTAL REQUIREMENTS IN BULK.

INDICATES THAT COMPANY FURNISHES PART REQUIREMENTS IN BULK.

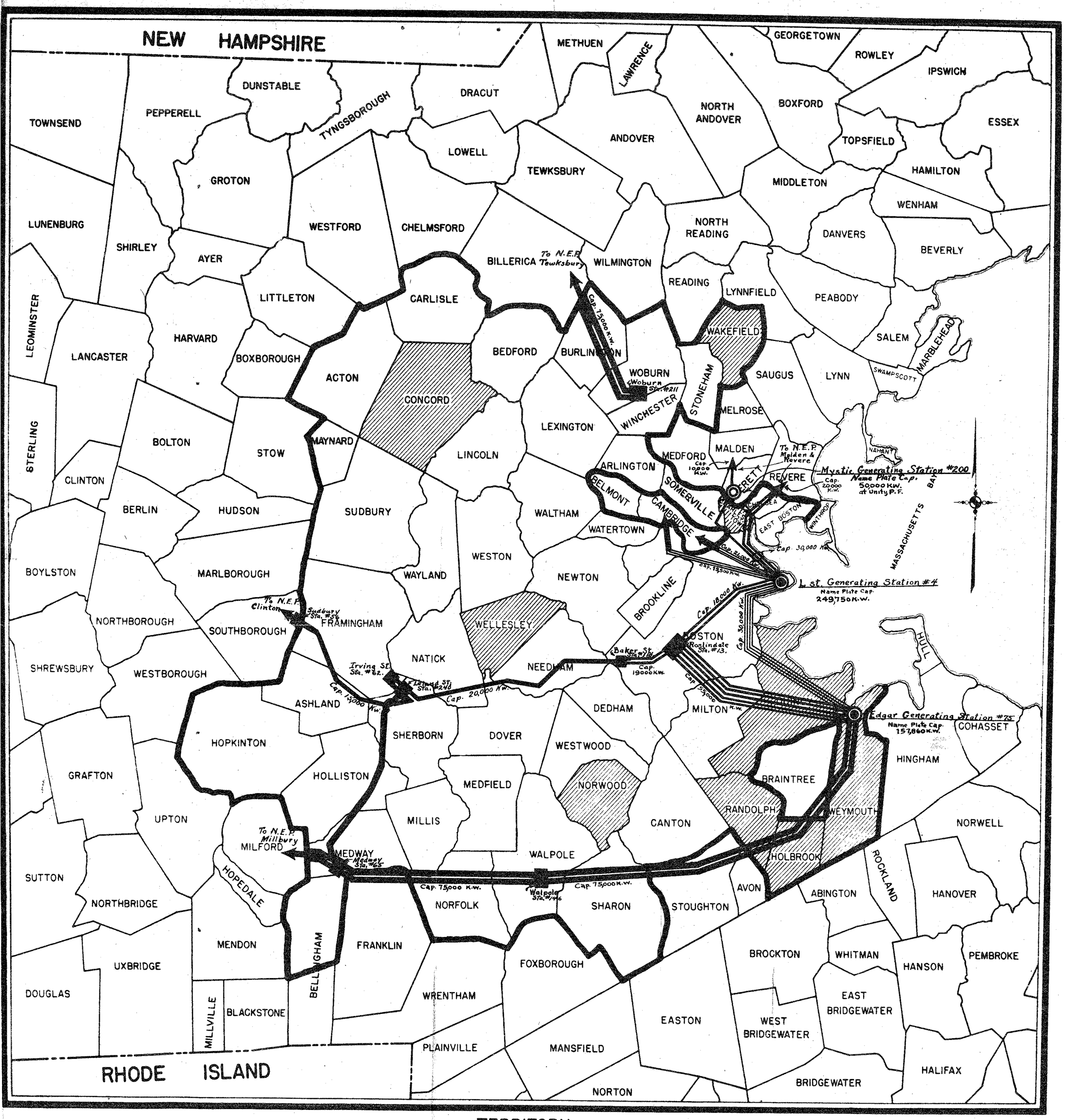
INDICATES INTERCONNECTIONS WITH THE NEW ENGLAND POWER COMPANY.

= GENERATING STATION.

BOSTON EDISON COMPANY
ENGINEERING DEPARTMENT
TRANSMISSION AND STATION PLANNING DIVISIO

SCALE OF MILES 0 1 2 3

Date of issue JULY-1-1938 Drawing No. R R 20



TERRITORY
SERVED BY
BOSTON EDISON COMPANY

SHOWING TRUNK TRANSMISSION SYSTEM

ANNUAL ELECTRIC POWER SURVEY REPORT
AS OF JANUARY 1, 1943
Paragraphs 4 b, c, d, & e.

Present Transmission Lines.

- 110 Kilovolts.
- 66 " .
- 24 " .
- 14 " .

- Interconnections.
- Edison Territory Boundary.

- Present Generating Stations.
- Generating Station Under Construction.
- Present Transmission Substations.

SCALE OF MILES 0 1 2 3

BOSTON EDISON COMPANY
ENGINEERING DEPARTMENT
TRANSMISSION AND STATION PLANNING DIVISION

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System.

BROCKTON EDISON COMPANY

2. Names and addresses of operating companies comprising system.

Brockton Edison Company
36 Main Street
Brockton, Massachusetts

3. Names of holding companies, if any.

Eastern Utilities Associates
49 Federal Street
Boston, Massachusetts

4. Furnish maps (any convenient scale) showing:

a. Areas supplied.

b. Location and name plate capacity of principal power plants.

c. Location and capacity, in kilowatts, of main power lines.

d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

e. Location and capacity of power plants and power lines under construction.

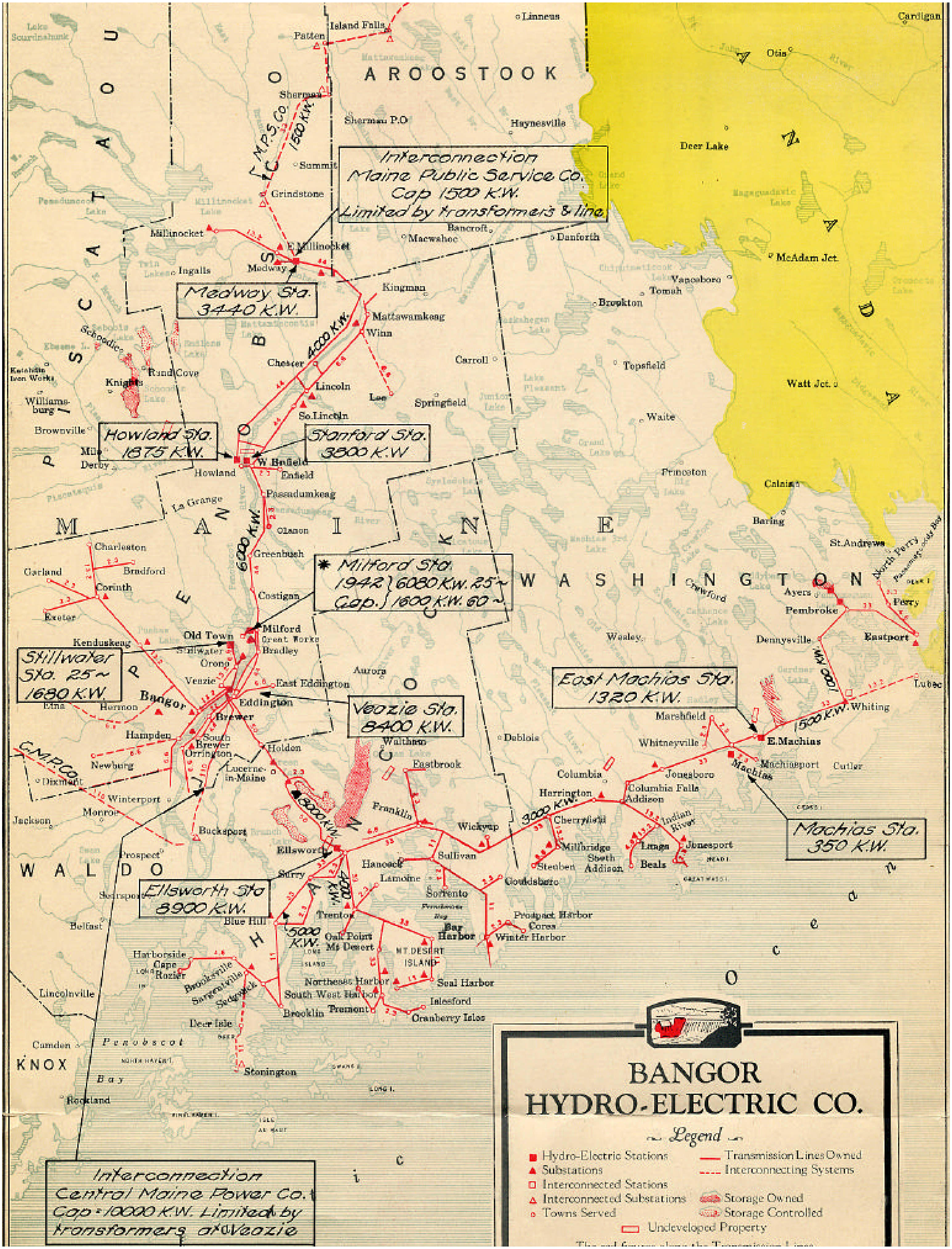
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name W. A. Forbush

Title Vice President

Company Brockton Edison Company



BANGOR
HYDRO-ELECTRIC CO.
Legend
Hydro-Electric Stations
Substations
Interconnected Stations
Interconnected Substations
Towns Served
Transmission Lines Owned
Interconnecting Systems
Storage Owned
Storage Controlled
Undeveloped Property
Interconnection Maine Public Service Co. Cap 1500 K.W. Limited by transformers & line
Medway Sta. 3440 K.W.
Howland Sta. 1875 K.W.
Stanford Sta. 3800 K.W
Milford Sta. 1942 } 6080 K.W. 25~ Cap. } 1600 K.W. 60~
Stillwater Sta. 25~ 1680 K.W.
Veazie Sta. 8400 K.W.
Ellsworth Sta 8900 K.W.
East Machias Sta. 1320 K.W.
Machias Sta. 350 K.W.
Interconnection Central Maine Power Co. Cap = 10000 K.W. Limited by transformers at Veazie
M.P.S. Co. 1500 K.W.
C.M.P. Co.
4000 K.W.
6000 K.W.
8000 K.W.
5000 K.W.
3000 K.W.
1500 K.W.
1000 K.W.
AROOSTOOK
PISCATAQUIS
PENOBSCOT
HANCOCK
WASHINGTON
WALDO
KNOX
MAINE
CANADA
Ocean
Penobscot Bay
Island Falls
Patten
Linneus
Sherman
Sherman P.O.
Haynesville
Summit
Grindstone
Millinocket
E.Millinocket
Medway
Ingalls
Macwahoc
Bancroft
Danforth
Kingman
Mattawamkeag
Winn
Chester
Lincoln
Lee
So.Lincoln
Springfield
Carroll
Brookton
Topsfield
Waite
Princeton
Calais
Baring
St.Andrews
Deer Lake
Otis
McAdam Jct.
Vanceboro
Tomah
Watt Jct.
Cardigan
Schoodic
Rand Cove
Knights
Williamsburg
Brownville
Milo
Derby
Howland
W.Enfield
Enfield
Passadumkeag
La Grange
Olamon
Greenbush
Costigan
Charleston
Garland
Bradford
Corinth
Exeter
Kenduskeag
Old Town
Milford
Great Works
Bradley
Stillwater
Orono
Veazie
Aurora
East Eddington
Eddington
Bangor
Brewer
Etna
Hermon
Hampden
South Brewer
Orrington
Holden
Newburg
Dixmont
Winterport
Lucerne-in-Maine
Monroe
Jackson
Bucksport
Prospect
Searsport
Belfast
Waltham
Eastbrook
Franklin
Wickyup
Ellsworth
Surry
Hancock
Lamoine
Sullivan
Sorrento
Trenton
Blue Hill
Oak Point
Mt Desert
Bar Harbor
Mt. Desert Island
Northeast Harbor
Seal Harbor
South West Harbor
Tremont
Islesford
Cranberry Isles
Brooklin
Sedgwick
Sargentville
Brooksville
Cape Rozier
Harborside
Deer Isle
Stonington
Lincolnville
Camden
Rockland
Gouldsboro
Prospect Harbor
Corea
Winter Harbor
Steuben
Milbridge
Cherryfield
Harrington
Columbia
Columbia Falls
Addison
South Addison
Indian River
Jonesboro
Jonesport
Beals
Machias
Machiasport
E.Machias
Whitneyville
Marshfield
Whiting
Cutler
Lubec
Dennysville
Pembroke
Ayers
Perry
Eastport
North Perry
Crawford
Wesley
Deblois

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 26 9 21 AM '43
BOSTON MASS

1. Name of System.

Braintree Electric Light Department.

2. Names and addresses of operating companies comprising system.

Braintree Electric Light Department.
44 Allen St., Braintree, Mass.

3. Names of holding companies, if any.

None.

4. Furnish maps (any convenient scale) showing:

a. Areas supplied.

b. Location and name plate capacity of principal power plants.

c. Location and capacity, in kilowatts, of main power lines.

d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

e. Location and capacity of power plants and power lines under construction.

None.

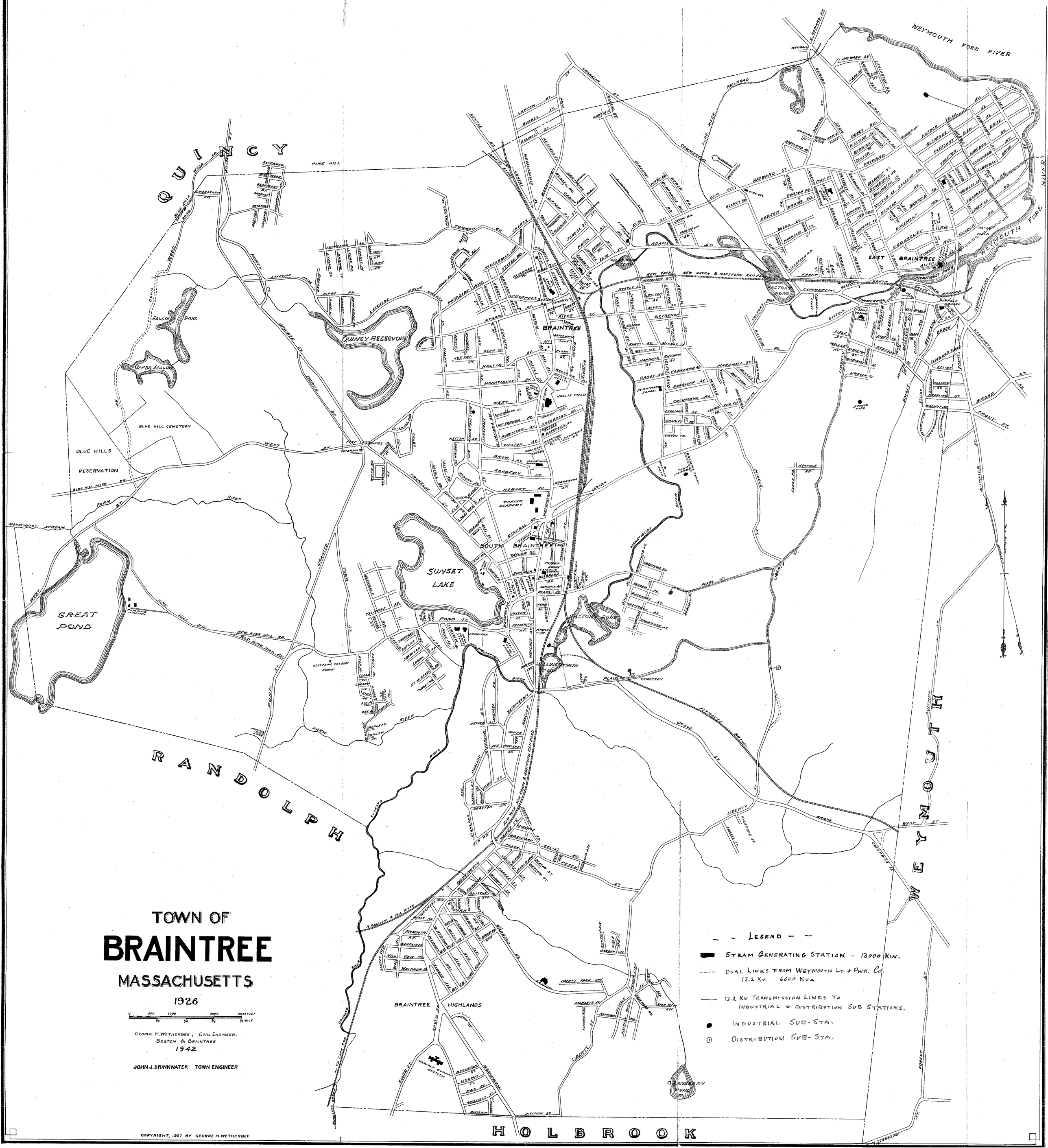
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name E.T.Fulton

Title Manager

Company Braintree Elec.Lt.Dept.


TOWN OF
BRAINTREE
MASSACHUSETTS
1926
0 500 1000 2000 2640 FEET
1/8 1/4 3/4 1/2 MILE
GEORGE H. WETHERBEE, CIVIL ENGINEER.
BOSTON & BRAINTREE
1942
JOHN J. DRINKWATER TOWN ENGINEER
COPYRIGHT, 1927 BY GEORGE H. WETHERBEE
QUINCY
RANDOLPH
HOLBROOK
WEYMOUTH
WEYMOUTH FORE RIVER
BRAINTREE
SOUTH BRAINTREE
EAST BRAINTREE
BRAINTREE HIGHLANDS
QUINCY RESERVOIR
SUNSET LAKE
GREAT POND
FALLON POND
UPPER FALLON
BLUE HILL CEMETERY
BLUE HILLS RESERVATION
FACTORY POND
CRANBERRY POND
NEW YORK, NEW HAVEN & HARTFORD RAILROAD
PINE HILL
LEGEND
STEAM GENERATING STATION - 13000 KW.
DUAL LINES FROM WEYMOUTH LT. & PWR. CO. 13.2 KV. 6000 KVA
13.2 KV TRANSMISSION LINES TO INDUSTRIAL & DISTRIBUTION SUB STATIONS.
INDUSTRIAL SUB-STA.
DISTRIBUTION SUB-STA.

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System.

   New England Gas and Electric System

2. Names and addresses of operating companies comprising system.

   Cambridge Electric Light Company
   719 Massachusetts Avenue
   Cambridge, Massachusetts

3. Names of holding companies, if any.

   New England Gas and Electric Association

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

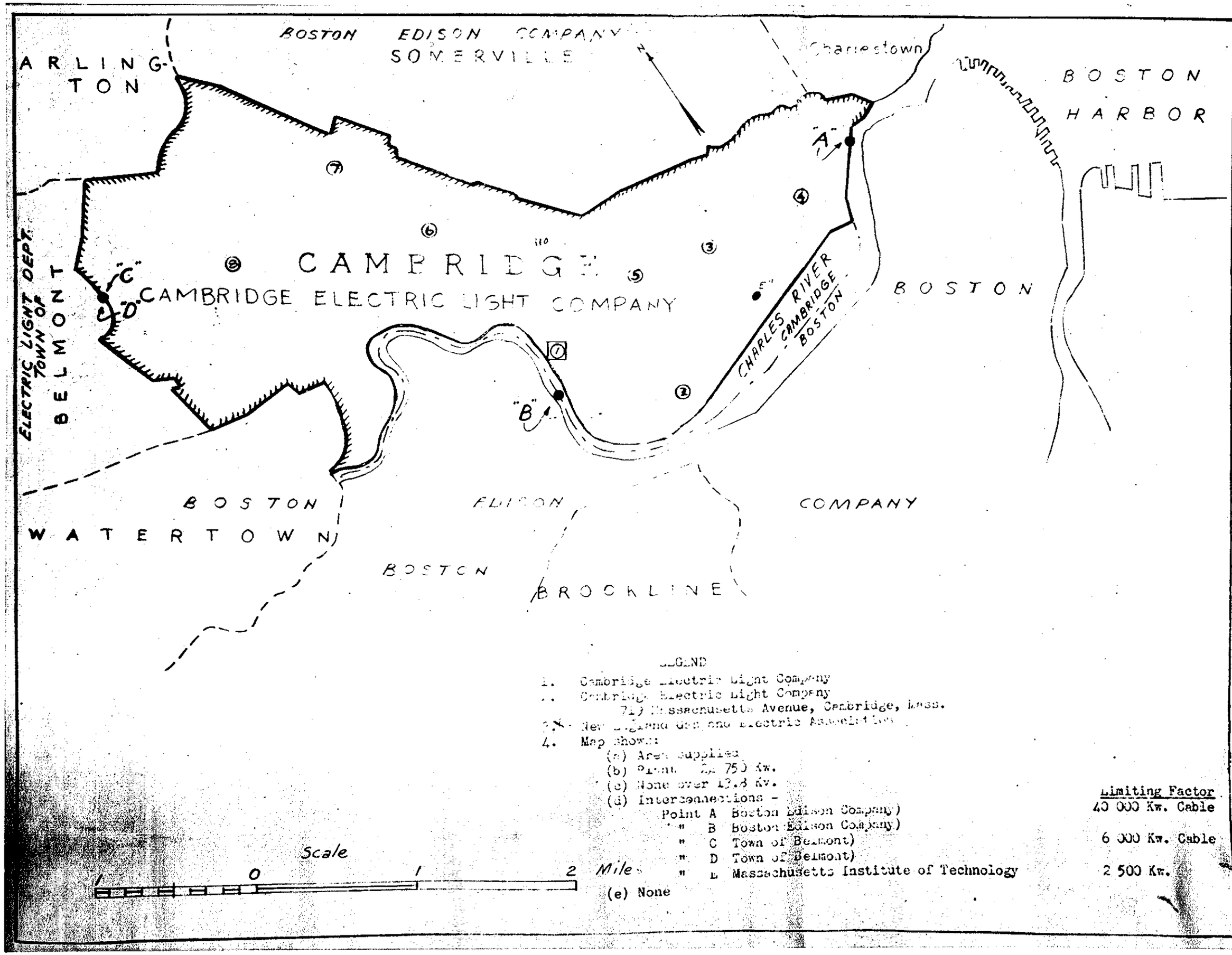
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **R. D. Stauffer**

Title **Chief Engineer**

Company **Cambridge Electric Light Company**



LEGEND

1. Cambridge Electric Light Company
2. Cambridge Electric Light Company
   731 Massachusetts Avenue, Cambridge, Mass.
3. New England Gas and Electric Association
4. Map shows:
   (a) Area supplied
   (b) Plant 2,750 Kw.
   (c) None over 13.8 Kv.
   (d) Interconnections -

		Limiting Factor
Point A	Boston Edison Company)	40 000 Kw. Cable
" B	Boston Edison Company)	
" C	Town of Belmont)	6 000 Kw. Cable
" D	Town of Belmont)	
" E	Massachusetts Institute of Technology	2 500 Kw.

   (e) None

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System. **City of Holyoke, Gas & Electric Dept.**

2. Names and addresses of operating companies comprising system.

None

3. Names of holding companies, if any.

None

MAR 27 9 50 AM '43
BOSTON MASS

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction. **None**

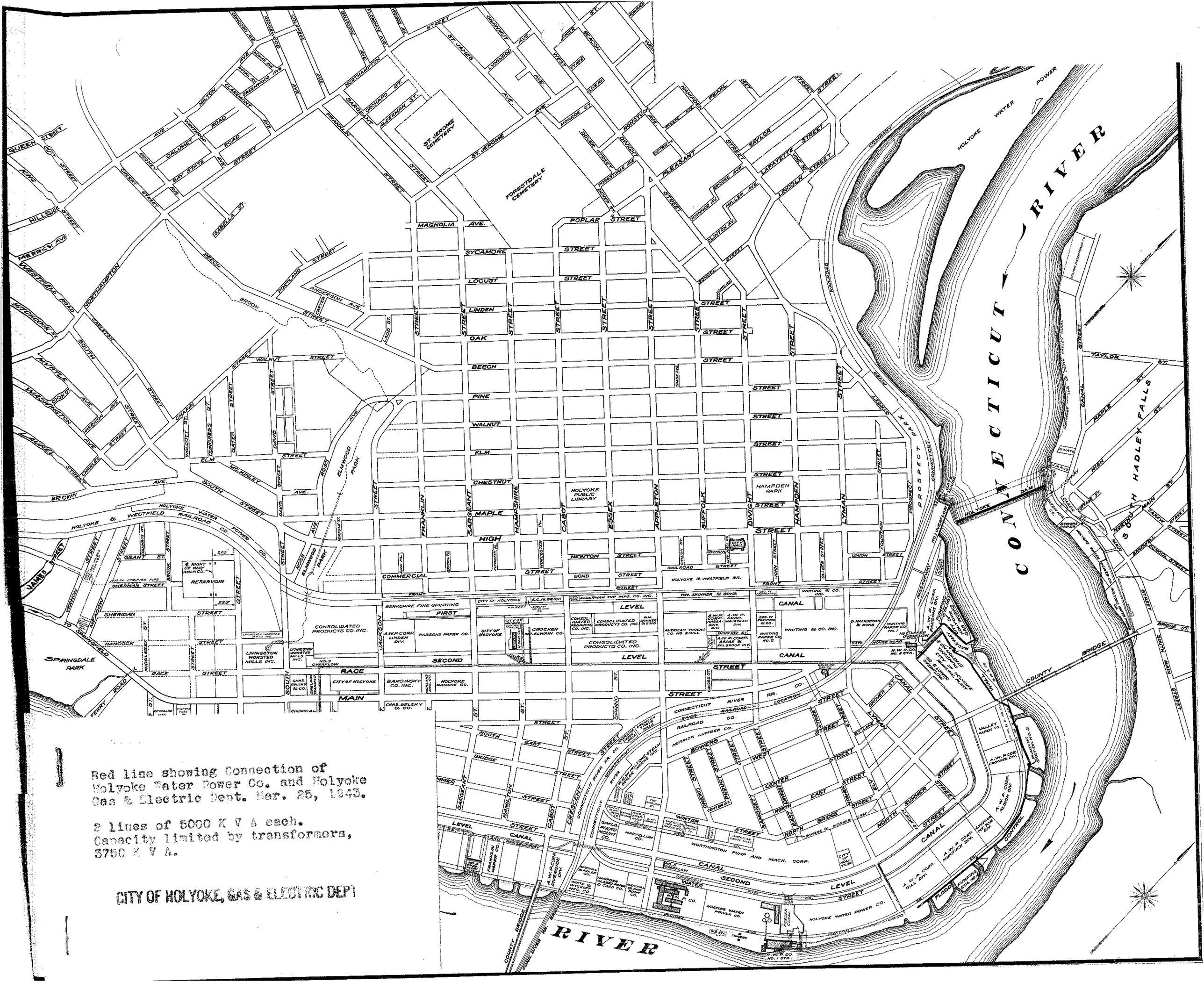
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name Francis J. Kelleher

Title **Assistant Manager**

Company **City of Holyoke Gas & Electric Dept.**



Red line showing Connection of
Holyoke Water Power Co. and Holyoke
Gas & Electric Dept. Mar. 25, 1943.

2 lines of 5000 K V A each.
Capacity limited by transformers,
3750 K V A.

CITY OF HOLYOKE, GAS & ELECTRIC DEPT

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 26 9 27 AM '43 BOSTON, MASS

1. Name of System. FITCHBURG GAS AND ELECTRIC LIGHT COMPANY

2. Names and addresses of operating companies comprising system.

   Fitchburg Gas and Electric Light Company
   655 Main Street
   Fitchburg, Massachusetts

3. Names of holding companies, if any. None

4. Furnish maps (any convenient scale) showing: Enclosed

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

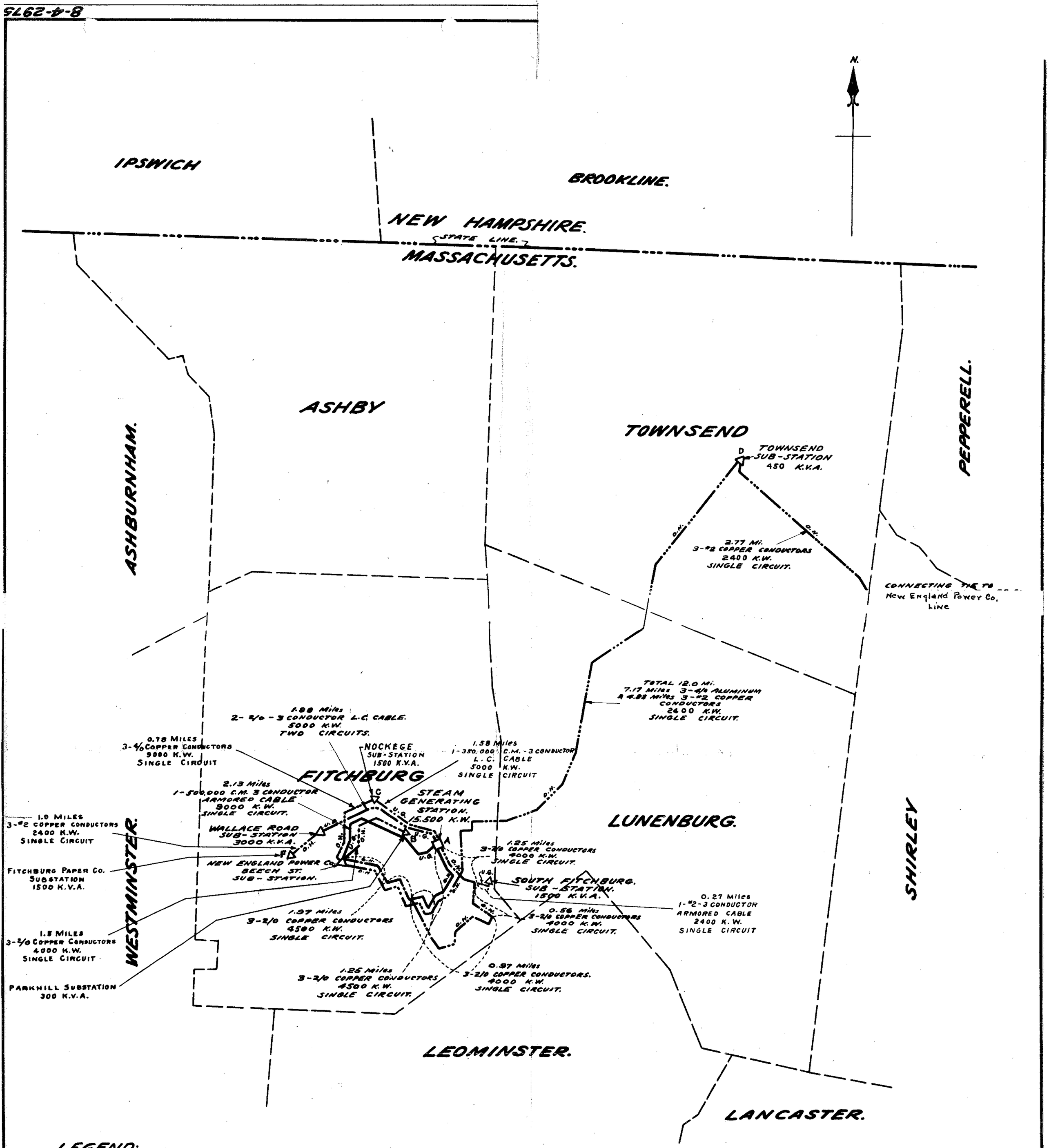
Company official to consult on Power Survey matters:

Name V. M. F. Fallman ~~V. M. F. Fallman~~

Title Consulting Engineer

Company Fitchburg Gas and Electric Light Co.
~~89 Broad St.~~
Boston, Mass.

8-4-2975



LEGEND:

- □ STEAM GENERATING STATION.
- △ SUB-STATION.
- ——— TRANSMISSION LINES OWNED AND OPERATED BY FITCHBURG GAS & ELECTRIC LIGHT CO.
- —·— TRANSMISSION LINES OWNED BY FITCHBURG GAS & ELECTRIC LIGHT CO. AND OPERATED BY NEW ENGLAND POWER CO.
- —··— DISTRIBUTION SUPPLY LINE OWNED AND OPERATED BY FITCHBURG GAS & ELECTRIC LIGHT CO.
- —···— DISTRIBUTION SUPPLY LINES OWNED BY FITCHBURG GAS & ELECTRIC LIGHT CO. AND OPERATED BY NEW ENGLAND POWER CO.
- U.G. UNDERGROUND LINES.
- O.H. OVERHEAD LINES ON WOOD POLES AND CROSS ARMS.

ALL LINES 3 PHASE - 60 CYCLE - 13 K.V.

FITCHBURG GAS AND ELECTRIC LIGHT CO.

FITCHBURG, MASS.

GENERATING STATIONS, SUB-STATIONS AND TRANSMISSION LINES

1934

Revised 10-22-40, 4-7-42, 4-19-43.

0 1000 5000 10000

SCALE IN FEET.

CORRECT AS OF Dec. 31, 1942

R.W.G.

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 26 10 13 AM '43
BOSTON MASS

1. Name of System. **HOLYOKE WATER POWER COMPANY**

2. Names and addresses of operating companies comprising system.

HOLYOKE WATER POWER COMPANY

HOLYOKE POWER AND ELECTRIC COMPANY

3. Names of holding companies, if any. **NONE**

4. Furnish maps (any convenient scale) showing: **SEE PAGE 2**

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **Robert E. Barrett, Jr.**

Title **Assistant Engineer**

Company **Holyoke Water Power Company**

ANNUAL ELECTRIC POWER SURVEY REPORT
DATA AS OF JANUARY 1, 1943.

4.

a. See Map on Page 3.

b. See Map on Page 4.

No. 1 Station - 27,500 KW Steam
7,780 KW Hydro

No. 2 Station - 2,900 KW Hydro

c. Not Applicable.

d. Interconnection Points to Other Systems

I. Chicopee Electric Light Department

Connections are made at No. 1 Power Station of Holyoke Water Power Company (Symbol A, Map P.4)

Connections are:

(1) Feed to Westover Field Substation - capacity and limitation 7500 KVA transformer.

(2) Feed to Grattan Street Substation - capacity and limitation 6000 KVA transformer.

(3) Feed to Chicopee Substation - capacity and limitation 10,000 KVA transformer.

II. City of Holyoke, Gas and Electric Department

Connections made at Symbol B, Map P. 4. Capacity and limitation 3750 KVA transformer.

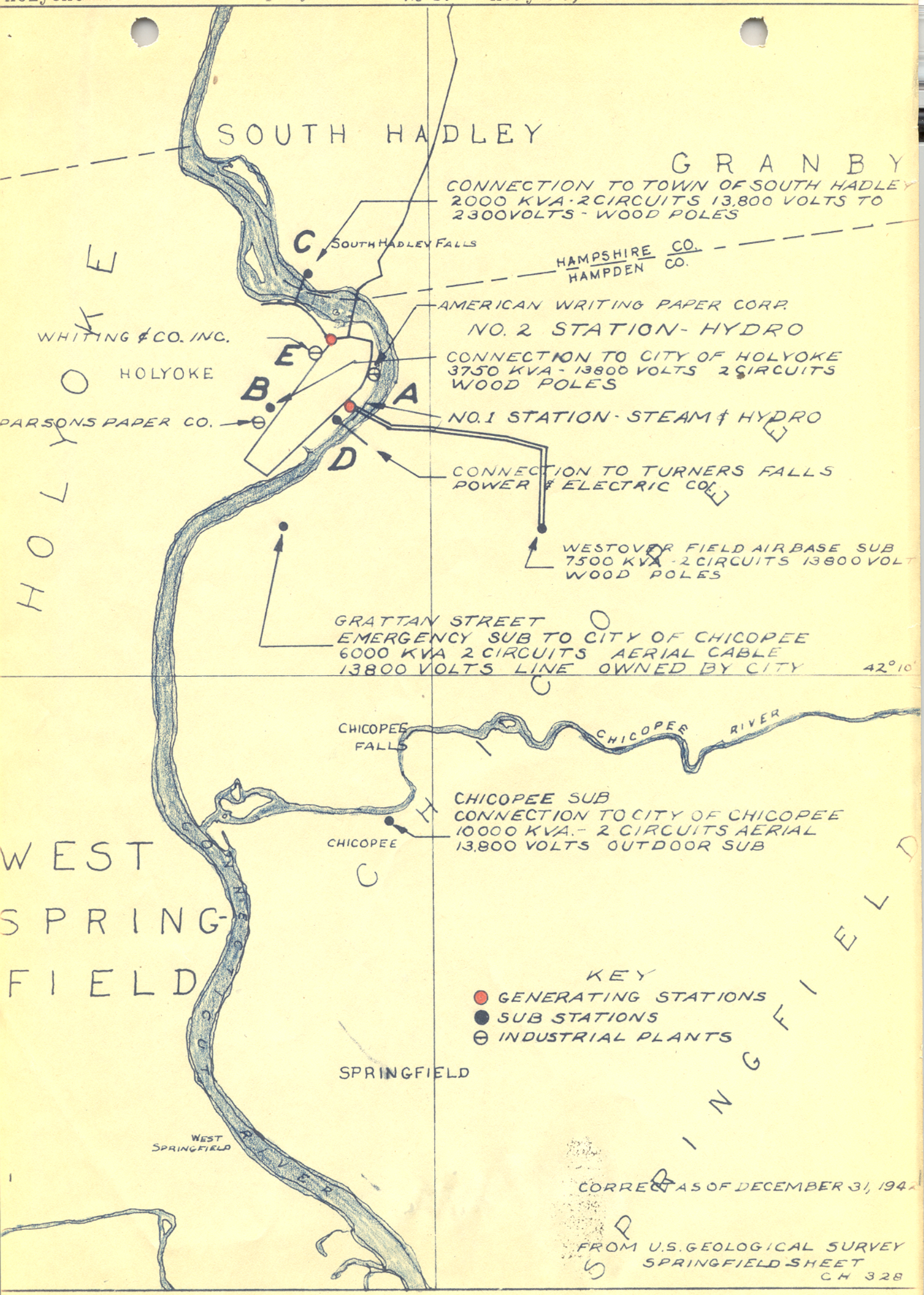
III. South Hadley Electric Light Department

Connection made at Symbol C, Map P. 4. Capacity and limitation 2000 KVA transformer.

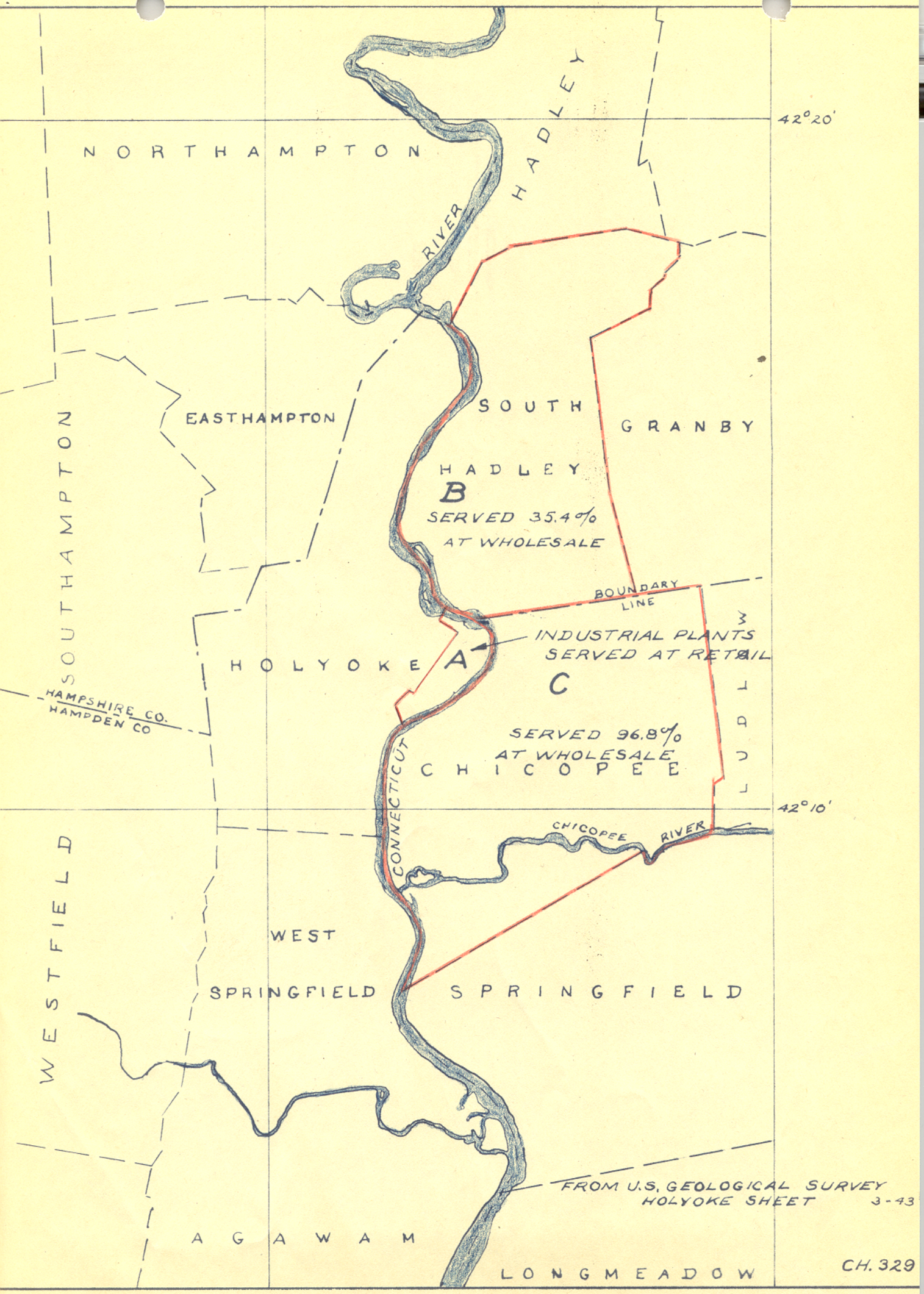
IV. Turners Falls Power and Electric Company

Connection made at Symbol D, Map P. 4. Capacity and limitation 20,000 KVA transformer.

e. 750# pressure boiler, 150,000 pounds per hour capacity being added to No. 1 Station Boiler Plant. See Map, P. 4, Symbol A.


SOUTH HADLEY
GRANBY
CONNECTION TO TOWN OF SOUTH HADLEY
2000 KVA-2 CIRCUITS 13,800 VOLTS TO
2300 VOLTS - WOOD POLES
C
SOUTH HADLEY FALLS
HAMPSHIRE CO.
HAMPDEN CO.
AMERICAN WRITING PAPER CORP.
NO. 2 STATION - HYDRO
WHITING & CO. INC.
E
CONNECTION TO CITY OF HOLYOKE
3750 KVA - 13800 VOLTS 2 CIRCUITS
WOOD POLES
HOLYOKE
B
A
PARSONS PAPER CO.
NO. 1 STATION - STEAM & HYDRO
D
CONNECTION TO TURNERS FALLS
POWER & ELECTRIC CO.
WESTOVER FIELD AIR BASE SUB
7500 KVA - 2 CIRCUITS 13800 VOLTS
WOOD POLES
GRATTAN STREET
EMERGENCY SUB TO CITY OF CHICOPEE
6000 KVA 2 CIRCUITS AERIAL CABLE
13800 VOLTS LINE OWNED BY CITY
42° 10'
CHICOPEE FALLS
CHICOPEE RIVER
CHICOPEE SUB
CONNECTION TO CITY OF CHICOPEE
10000 KVA.- 2 CIRCUITS AERIAL
13,800 VOLTS OUTDOOR SUB
CHICOPEE
WEST SPRINGFIELD
CONNECTICUT RIVER
KEY
GENERATING STATIONS
SUB STATIONS
INDUSTRIAL PLANTS
SPRINGFIELD
WEST SPRINGFIELD
CORRECT AS OF DECEMBER 31, 194
FROM U.S. GEOLOGICAL SURVEY
SPRINGFIELD SHEET
CH 328

Holyoke Water Power Company, Holyoke, Massachusetts



ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System.

   Lynn Gas & Electric Company

2. Names and addresses of operating companies comprising system.

   Lynn Gas & Electric Company
   90 Exchange Street
   Lynn, Massachusetts

3. Names of holding companies, if any.

   None

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

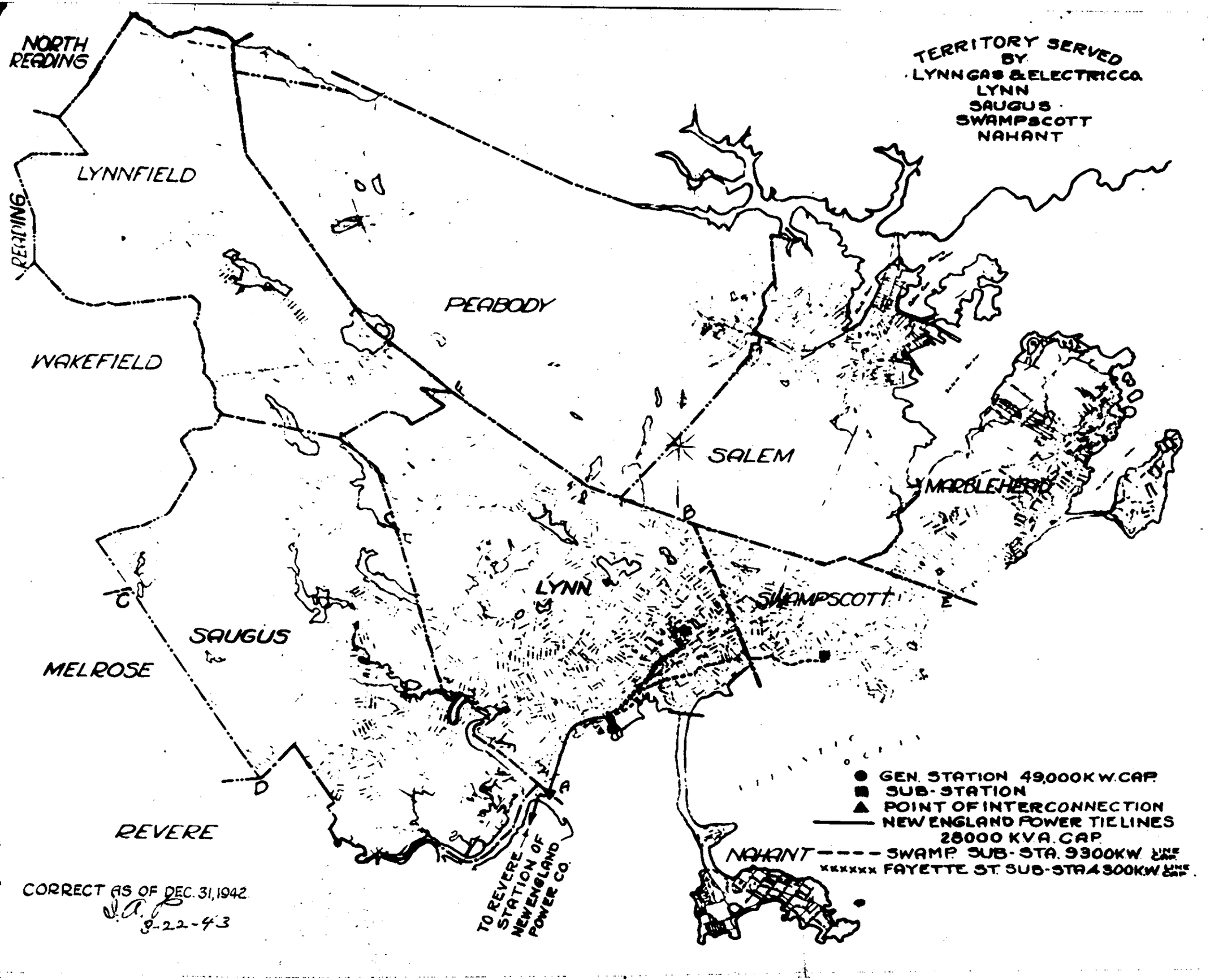
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name I. A. Patten

Title General Superintendent

Company Lynn Gas & Electric Company


TERRITORY SERVED BY
LYNN GAS & ELECTRIC CO.
LYNN
SAUGUS
SWAMPSCOTT
NAHANT
NORTH READING
READING
LYNNFIELD
WAKEFIELD
PEABODY
SALEM
MARBLEHEAD
LYNN
SWAMPSCOTT
SAUGUS
MELROSE
REVERE
NAHANT
A
B
C
D
E
TO REVERE STATION OF NEW ENGLAND POWER CO.
GEN. STATION 49,000 K.W. CAP.
SUB-STATION
POINT OF INTERCONNECTION
NEW ENGLAND POWER TIE LINES 28000 KVA. CAP.
SWAMP. SUB-STA. 9300 KW. LINE CAP.
FAYETTE ST. SUB-STA. 4300 KW. LINE CAP.
CORRECT AS OF DEC. 31, 1942
J.A.
9-22-43

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 27 9 04 AM '43
BOSTON, MASS

1. Name of System.

   Montaup Electric Company

2. Names and addresses of operating companies comprising system.

   Fall River Electric Light Co. - Fall River, Mass.
   Brockton Edison Company - Brockton, Mass.
   Blackstone Valley Gas and Electric Co. - Pawtucket and Woonsocket, Rhode Island

3. Names of holding companies, if any.

   New England Power Association
   Eastern Utilities Associates

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied. **(To other electric companies only. No distribution to ultimate consumers.)**

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction. **Power lines now operated at 66 kv. to be operated at 115 kv. effective October 1, 1943.**

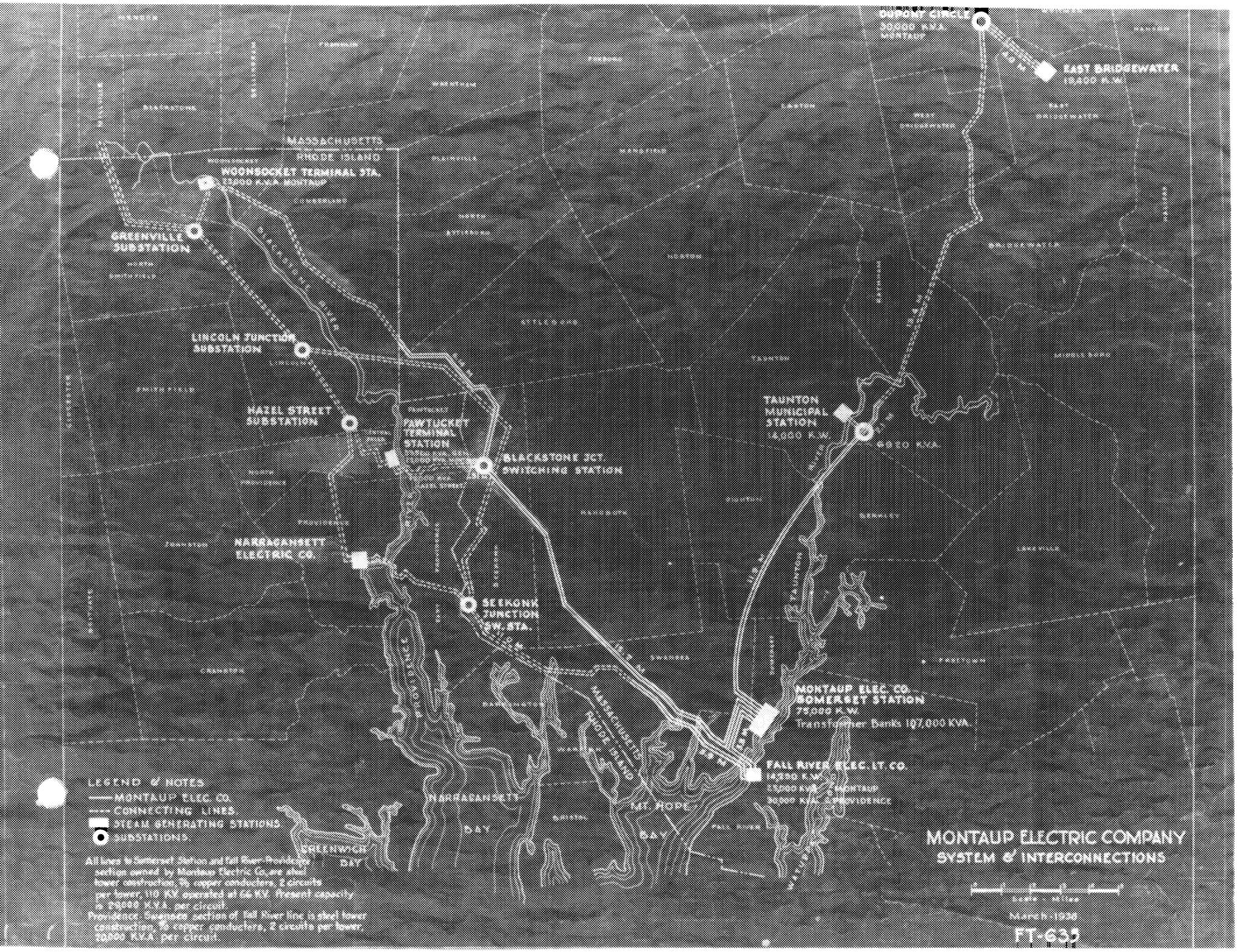
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **G. U. Parks**

Title **Assistant General Manager**

Company **Montaup Electric Company**


MONTAUP ELECTRIC COMPANY
SYSTEM & INTERCONNECTIONS
LEGEND & NOTES
MONTAUP ELEC. CO.
CONNECTING LINES
STEAM GENERATING STATIONS
SUBSTATIONS
MASSACHUSETTS
RHODE ISLAND
WOONSOCKET TERMINAL STA.
GREENVILLE SUBSTATION
LINCOLN JUNCTION SUBSTATION
HAZEL STREET SUBSTATION
NANTUCKET TERMINAL STATION
BLACKSTONE JCT. SWITCHING STATION
NARRAGANSETT ELECTRIC CO.
SEEKONK JUNCTION SW. STA.
TAUNTON MUNICIPAL STATION
EAST BRIDGEWATER
MONTAUP ELEC. CO. SOMERSET STATION
FALL RIVER ELEC. LT. CO.
NARRAGANSETT BAY
MARTHA'S VINEYARD
NANTUCKET SOUND
BUZZARDS BAY
MARCH 1960
FT-635

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System.

   New England Gas and Electric System

2. Names and addresses of operating companies comprising system.

   New Bedford Gas and Edison Light Company
   719 Massachusetts Avenue
   Cambridge, Massachusetts

3. Names of holding companies, if any.

   New England Gas and Electric Association

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

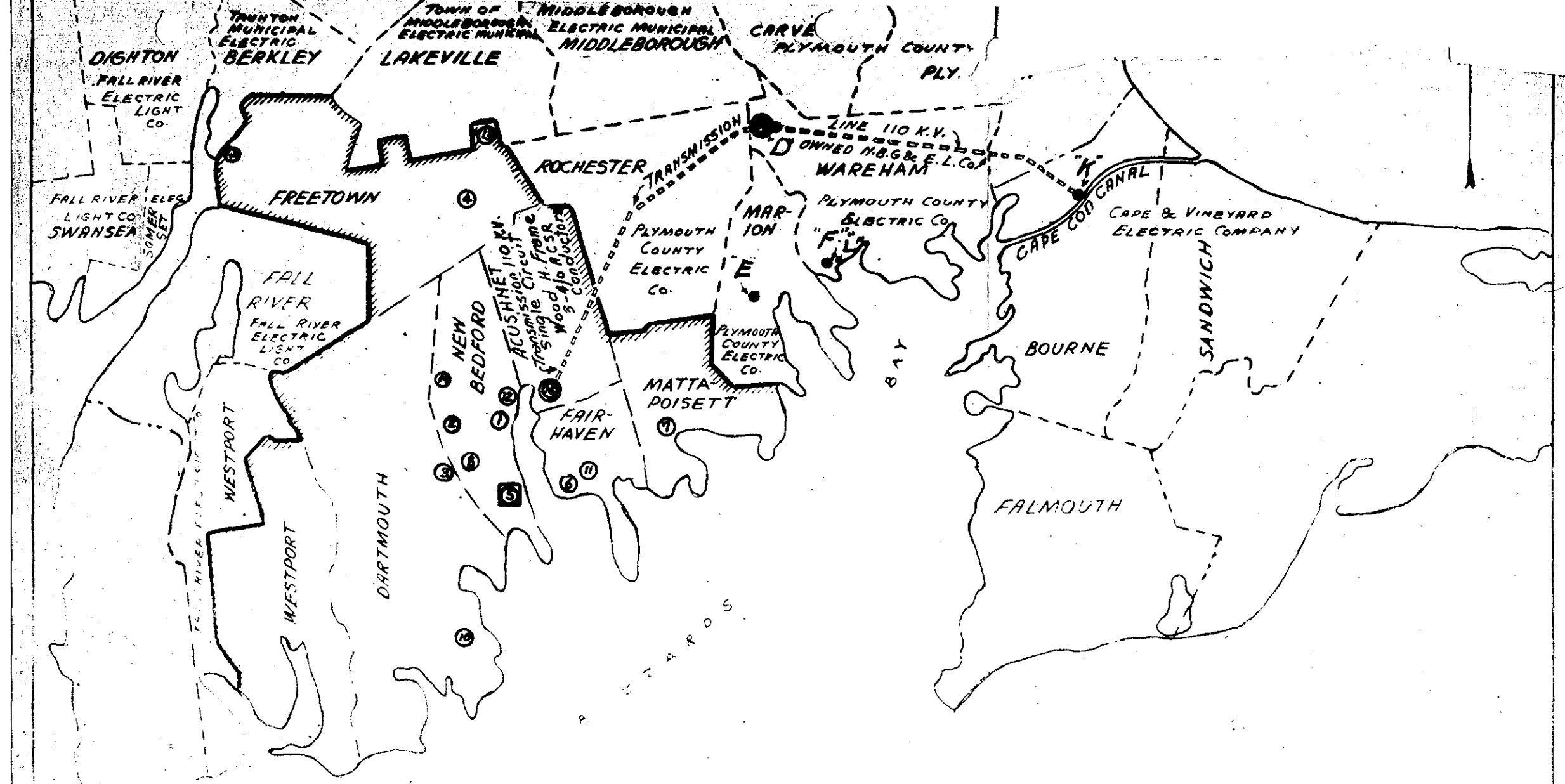
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **R. D. Stauffer**

Title **Chief Engineer**

Company **New Bedford Gas and Edison Light Company**



LEGEND

1. New Bedford Gas and Edison Light Company
2. New Bedford Gas and Edison Light Company
   693 Purchase Street, New Bedford, Mass.
3. New England Gas and Electric Association
4. Map shows:
   (a) Areas supplied
   (b) Location of principal power plant 88 000 Kw.
   (c) Location of main power lines
   110 Kv. Line Acushnet to Tremont and Canal 50 000 Kva.
   22 Kv. Lines to Wareham 2 - 10 000 Kva. Lines
   (d) Interconnection Points:
   Point D to Plymouth County Electric Company 110 Kv. 4/0 A.C.S.R. circuit
   " E to Plymouth County Electric Company 22 Kv. (2 - 1/0 parallel circuits (1 - 336 400 A.C.S.R. circuit
   " F to Plymouth County Electric Company 22 Kv. 2 - 3/0 A.C.S.R. circuits
   " L to Cape & Vineyard Electric Company 22 Kv. 2 - 1/0 copper circuits
   " K to Cape & Vineyard Electric Company 110 Kv. 4/0 A.C.S.R. circuit
   (e) None

	Limiting Factor
	12 000 Kva. Transf. at Acushnet
	10 000 Kva. Regulator
	20 000 Kva. Transfs.
	1 000 Kva. Transf.
	12 000 Kva. Transf.

2 1 0 2 4 6 8 10 12 14 16 18 20 MILES

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System. **New England Power System**

2. Names and addresses of operating companies comprising system.

See Attached List

3. Names of holding companies, if any.

See Attached List

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied. **Marked on Map**

   b. Location and name plate capacity of principal power plants. **Marked on Map**

   c. Location and capacity, in kilowatts, of main power lines. **Tabulation, keyed to map, attached.**

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.) **Tabulation, keyed to map, attached.**

   e. Location and capacity of power plants and power lines under construction. **None at January 1, 1943. See attached for note on line to be built in 1943.**

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **A. E. Pope**

Title **Vice President**

Company **New England Power Company**

NEW ENGLAND POWER ASSOCIATION

AS OF DECEMBER 31, 1942

(2) OPERATING ELECTRIC COMPANIES

Amesbury Electric Light Company, Amesbury, Mass.
Athol Gas and Electric Company, Athol, Mass.
Attleboro Steam and Electric Company, Attleboro, Mass.
Bellows Falls Hydro-Electric Corporation, Bellows Falls, Vermont
Beverly Gas and Electric Company, Beverly, Mass.
Central Massachusetts Electric Company, Palmer, Mass.
Connecticut River Power Company, Littleton, New Hampshire
Eastern Massachusetts Electric Company, Salem, Mass.
Fall River Electric Light Company, Fall River, Mass.
Gardner Electric Light Company, Gardner, Massachusetts
Gloucester Electric Company, Gloucester, Mass.
Granite State Electric Company, Lebanon, New Hampshire
Green Mountain Power Corporation, Montpelier, Vermont
Haverhill Electric Company, Haverhill, Mass.
Lawrence Gas and Electric Company, Lawrence, Mass.
Leominster Electric Light and Power Company, Leominster, Mass.
Lowell Electric Light Corporation, The, Lowell, Mass.
Malden Electric Company, Malden, Mass.
Middlesex County Electric Company, East Pepperell, Mass.
Milford Electric Light and Power Company, Milford, Mass.
Mystic Power Company, The, Mystic, Connecticut
Narragansett Electric Company, The, Providence, Rhode Island
New England Power Company, Boston, Mass.
Northampton Electric Lighting Company, Northampton, Mass.
Northern Berkshire Gas Company, North Adams, Mass.
Norton Power & Electric Company, Attleboro, Mass.
Quincy Electric Light and Power Company, Quincy, Mass.
Rhode Island Power Transmission Company, Providence, Rhode Island
Salem Electric Lighting Company, Salem, Mass.
Southern Berkshire Power & Electric Company, Great Barrington, Mass.
Spencer Gas Company, The, Spencer, Mass.
Suburban Gas and Electric Company, Revere, Mass.
Union Light & Power Company, Franklin, Mass.
Wachusett Electric Company, Clinton, Mass.
Weymouth Light and Power Company, East Weymouth, Mass.
Winchendon Electric Light and Power Company, Winchendon, Mass.
Worcester County Electric Company, Worcester, Mass.
Worcester Suburban Electric Company, Uxbridge, Mass.

(3) HOLDING COMPANIES

Massachusetts Power and Light Associates
Massachusetts Utilities Associates
New England Power Association
North Boston Lighting Properties
Rhode Island Public Service Company, The

SCHEDULE 4d

Capacity of Main Power Lines

Map Key	Terminals	Thou. KVA Capacity	Limiting Factor	Voltage KV	No. Circuits
A	Comerford - Tewksbury	156	T	220	2
B	Bellows Falls-Charlestown	30	T	44	2
C	Vernon - Bellows Falls	15	V	66	1
D	Bellows Falls-Pratts Jct.	52	T	110	2
E	Harriman - Searsburg	15	V	66	1
F	Harriman - Adams	120	S	110	1
G	Harriman - No. 5	15	V	66	1
H	No. 5 - Adams	20	S	66	2
I	Adams - Lanesboro Jct.	120	S	110	1
J	Lanesboro Jct.-N.Y.State Line	120	S	110	2
K	Harriman - Millbury	120	S	110	2
L	Vernon - No. 4	15	V	66	2
M	Vernon - Pratts Jct.	30	V	66	2
N	No. 4 - Millbury	30	S	66	2
O	Auburn Jct. - Worcester	25	T	110	1
P	Ware - Palmer	15	T	66	1
Q	Spencer - Charlton	10	T	66	1
R	Millbury - Webster	13	T	66	1
S	Tewksbury - Melrose	50	T	110	2
T	Tewksbury - Woburn	50	T	110	2
U	Tewksbury - Pratts Jct.	120	S	110	2
V	Pratts Jct. - Nashua	25	V	66	2
W	Pratts Jct. - Millbury	120	S	110	2
X	Pratts Jct. - Millbury	30	V	66	2
Y	Clinton - Marlboro Jct.	15	V	66	1
Z	Millbury - Medway	100	S	110	2
AA	Millbury - Providence	80	T	110	1
BB	Millbury - Lincoln Jct.	75	V	66	2
CC	Lincoln Jct. - Seekonk Jct.	75	V	66	2
DD	Providence - Seekonk Jct.	85	T	66	2
EE	Seekonk Jct. - Fall River	30	T	66	2

Line capacities are given in KVA which, at unity power factor, represents KW. Capacities are given for the pair of circuits, when so designated, and the limiting factor has been noted. (T for Transformers; V for Allowable Voltage Drop; S for System Stability Conditions). Under different system connections and equipment, some of these figures could be changed.

SCHEDULE 4d (Continued)

LOCATION AND NET CAPACITY OF PRINCIPAL FOREIGN INTERCONNECTING POINTS

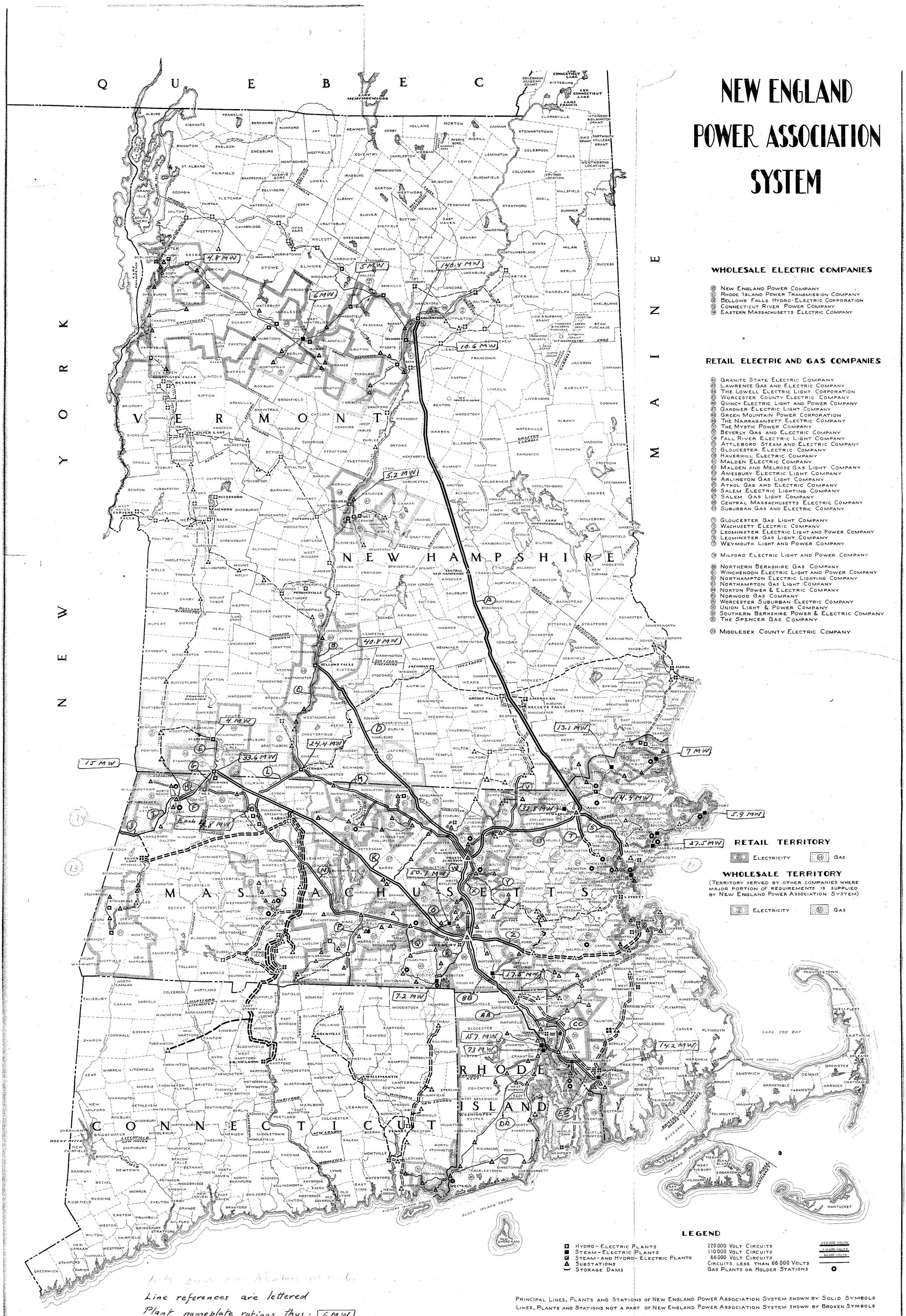
Location of Interconnection	Company Interconnected	Voltage KV	Capacity KVA	Limiting Factor	Map Reference Number
Springfield Vt. and Charlestown, N. H.	Central Vermont Pub. Serv. Co.	44	30,000	Line	1
Hinsdale, N. H.	Pub.Serv.Co. of N. H.	66	10,000	Operating	2
Fall River, Mass.	Montaup El. Co.	22	40,000	Transformer	3
Billerica, Mass.	Boston Edison Co.	110	75,000	Transformer	6
Clinton, Mass.	Boston Edison Co.	66	15,000	Operating	7
Milford, Mass.	Boston Edison Co.	110	75,000	Operating	8
Malden and Revere, Mass.	Boston Edison Co.	22	30,000	Operating	9
Montague, Mass.	(Turners Falls Pr. & El. Co. Conn.Valley Pr. Exch.)	110	70,000	Operating	10
Revere, Mass.	Lynn Gas & El. Co.	22	30,000	Operating	11
Woonsocket, R.I.	(Blackstone Valley	13.8	(25,000	Operating	12
Pawtucket, R. I.	(Gas & Elec. Co.)	22	(		
Lanesboro, Mass.	Turners Falls Pr. & Elec. Co.	110	100,000	Operating	13
Hancock, Mass.	New York Pr. & Lt. Co.	110	120,000	Operating	14

Note: Operating limits are based on usual system conditions, power factor, and regulation.

SCHEDULE 4e

Planned 1943 construction: 110 KV tie line in Woonsocket, R. I., between N. E. P. system substation and Blackstone Valley Gas and Electric Company, Riverside Substation. Capacity 75,000 KVA.

NEW ENGLAND POWER ASSOCIATION SYSTEM



WHOLESALE ELECTRIC COMPANIES

(10) New England Power Company
(11) Rhode Island Power Transmission Company
(12) Bellows Falls Hydro-Electric Corporation
(13) Connecticut River Power Company
(14) Eastern Massachusetts Electric Company

RETAIL ELECTRIC AND GAS COMPANIES

(41) Granite State Electric Company
(43) Lawrence Gas and Electric Company
(44) The Lowell Electric Light Corporation
(45) Worcester County Electric Company
(46) Quincy Electric Light and Power Company
(47) Gardner Electric Light Company
(48) Green Mountain Power Corporation
(49) The Narragansett Electric Company
(51) The Mystic Power Company
(52) Beverly Gas and Electric Company
(54) Fall River Electric Light Company
(55) Attleboro Steam and Electric Company
(57) Gloucester Electric Company
(58) Haverhill Electric Company
(61) Malden Electric Company
(62) Malden and Melrose Gas Light Company
(63) Amesbury Electric Light Company
(64) Arlington Gas Light Company
(65) Athol Gas and Electric Company
(66) Salem Electric Lighting Company
(67) Salem Gas Light Company
(68) Central Massachusetts Electric Company
(69) Suburban Gas and Electric Company

(71) Gloucester Gas Light Company
(72) Wachusett Electric Company
(73) Leominster Electric Light and Power Company
(74) Leominster Gas Light Company
(75) Weymouth Light and Power Company

(76) Milford Electric Light and Power Company

(80) Northern Berkshire Gas Company
(81) Winchendon Electric Light and Power Company
(82) Northampton Electric Lighting Company
(83) Northampton Gas Light Company
(84) Norton Power & Electric Company
(85) Norwood Gas Company
(86) Worcester Suburban Electric Company
(90) Union Light & Power Company
(91) Southern Berkshire Power & Electric Company
(92) The Spencer Gas Company

(53) Middlesex County Electric Company

Line references are lettered
Plant nameplate ratings thus: 6MW

JANUARY 1943

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 27 9 45 AM '43

1. Name of System.
   Western Massachusetts Companies System

2. Names and addresses of operating companies comprising system.
   Western Massachusetts Electric Company,
   Offices in Springfield, Greenfield, Pittsfield and
   Turners Falls, Massachusetts.

3. Names of holding companies, if any.
   Western Massachusetts Companies
   201 Devonshire Street
   Boston, Mass.

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied. Exhibit 4 a

   b. Location and name plate capacity of principal power plants.
   Exhibit 4 b, c, d, f.

   c. Location and capacity, in kilowatts, of main power lines.
   Exhibit 4 b, c, d.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)
   Exhibit 4 b, c, d.

   e. Location and capacity of power plants and power lines under construction. None

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name F. L. Hunt

Title Vice-President

Company Western Massachusetts Companies
45 Federal Street
Greenfield, Massachusetts

MAR 27 9 46 AM '45
BOSTON, MASS

POWER RATINGS OF THE WESTERN MASSACHUSETTS COMPANIES

66 KV. AND 115 KV. TRANSMISSION LINES

The ratings of the lines on the attached diagram, Drawing No. A-12481-WM, are the powers in KW. which the lines will carry at 10% voltage drop and 100% power factor with the conductors at 75°C. (resistances taken at 75°C.), or - the powers in KW. at 100% power factor, which will cause the conductors to be at a temperature of 150°C. when the ambient velocity is 2 ft. per second. The rating of each line is the power at which either of these two limiting criteria will be reached first as the load on the line is increased. (The power ratings of long lines are limited by voltage drop; those of short lines, by conductor temperature.)

Figures adjacent to double circuit lines indicate double line rating, and figures adjacent to single circuit lines indicate single line ratings.

MAR 27 9 46 AM '43
FPC
BOSTON, MASS

WESTERN MASSACHUSETTS COMPANIES SYSTEM

EXHIBIT 4F

4b - GENERATING STATION CAPACITIES, KW

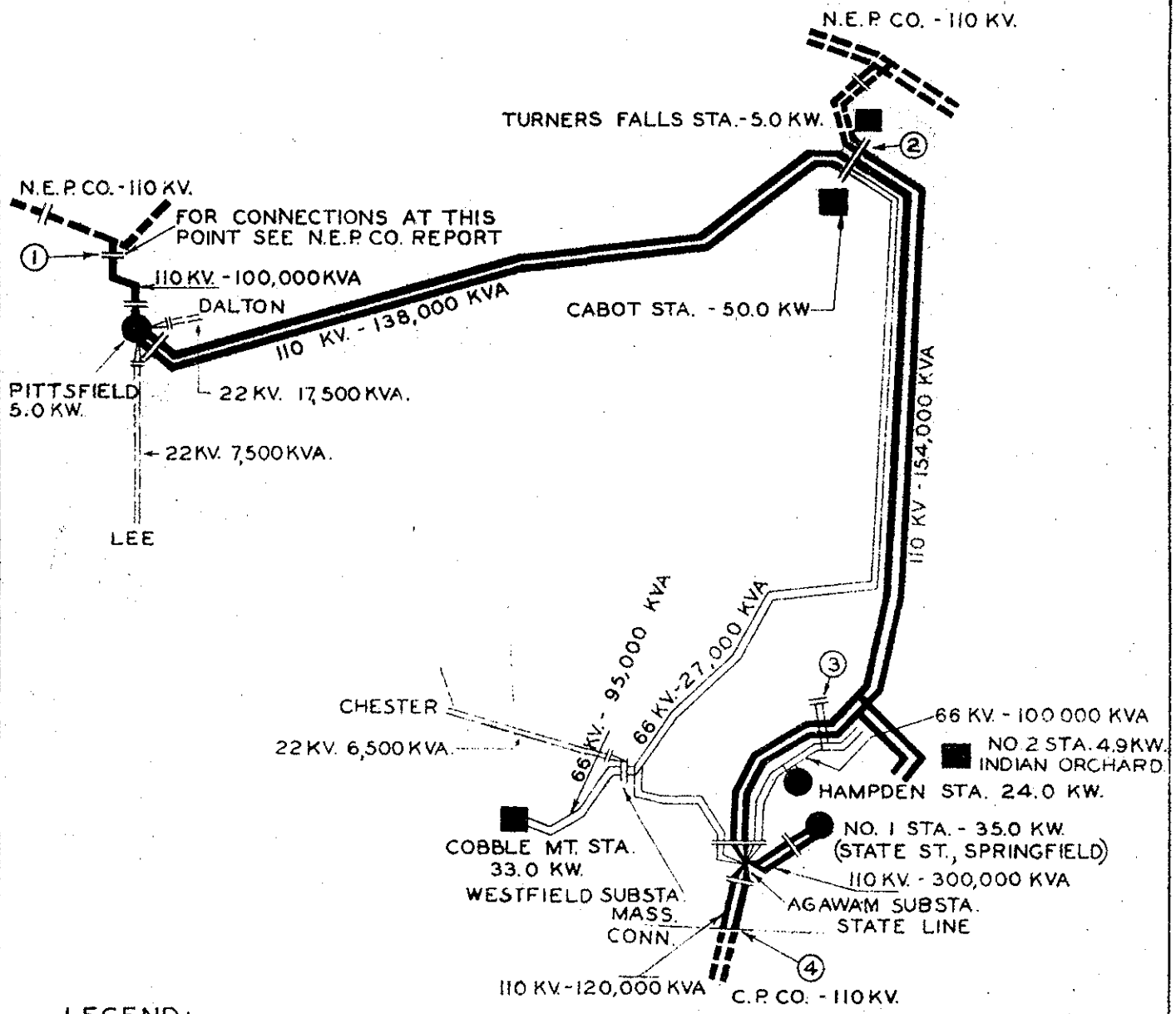
	Nominal Capacity (Exh. 4b c d)	Generator Rating (as returned to F.P.C.)
Turners Falls Station #1	5,000	4,840
Cabot Station	50,000	51,000
Cobble Mountain Station	33,000	33,000
No. 1 Station, Springfield	35,000	44,100
Hampden Station	24,000	30,000
Silver Lake Station, Pittsfield	2,000*	5,000

*Limited to 2,000 KW generation due to steam heat service.

3/24/43

INTERCONNECTION DATA:

POINT NO.	LOCATION	FORIEGN CO.	VOLTAGE KV.	CAPACITY OF OUR LINES	LIMIT
1	LANESBORO	NEW ENG. POW.	110	100 000 KVA	N.E.P. RATING OF THEIR LINES
2	MONTAGUE SW. STA.	" " "	110	STATION BUS	" " " " TAPLINE
3	HOLYOKE	HOL. WATER POW. CO.	66	100 000	H.W.P. CO. TRANSFORMERS
4	MASS.-CONN STATE LINE	CONN. POWER CO.	110	120 000	TRANSFORMERS OF CONN. POWER CO



LEGEND:-

- 110 KV TRANSMISSION LINE
- 66 KV. TRANSMISSION LINE
- FORIEGN POWER CO'S. LINES
- 22 KV TRANSMISSION LINE

STATION RATING IN THOUSANDS OF KW.

NOTE:-

THIS DRAWING TO ACCOMPANY WAR DEPARTMENT DRAWING SHEET NO. 2: ELECTRIC POWER SURVEY, DISTRICT NO. 1 OF POWER ZONE NO. 1

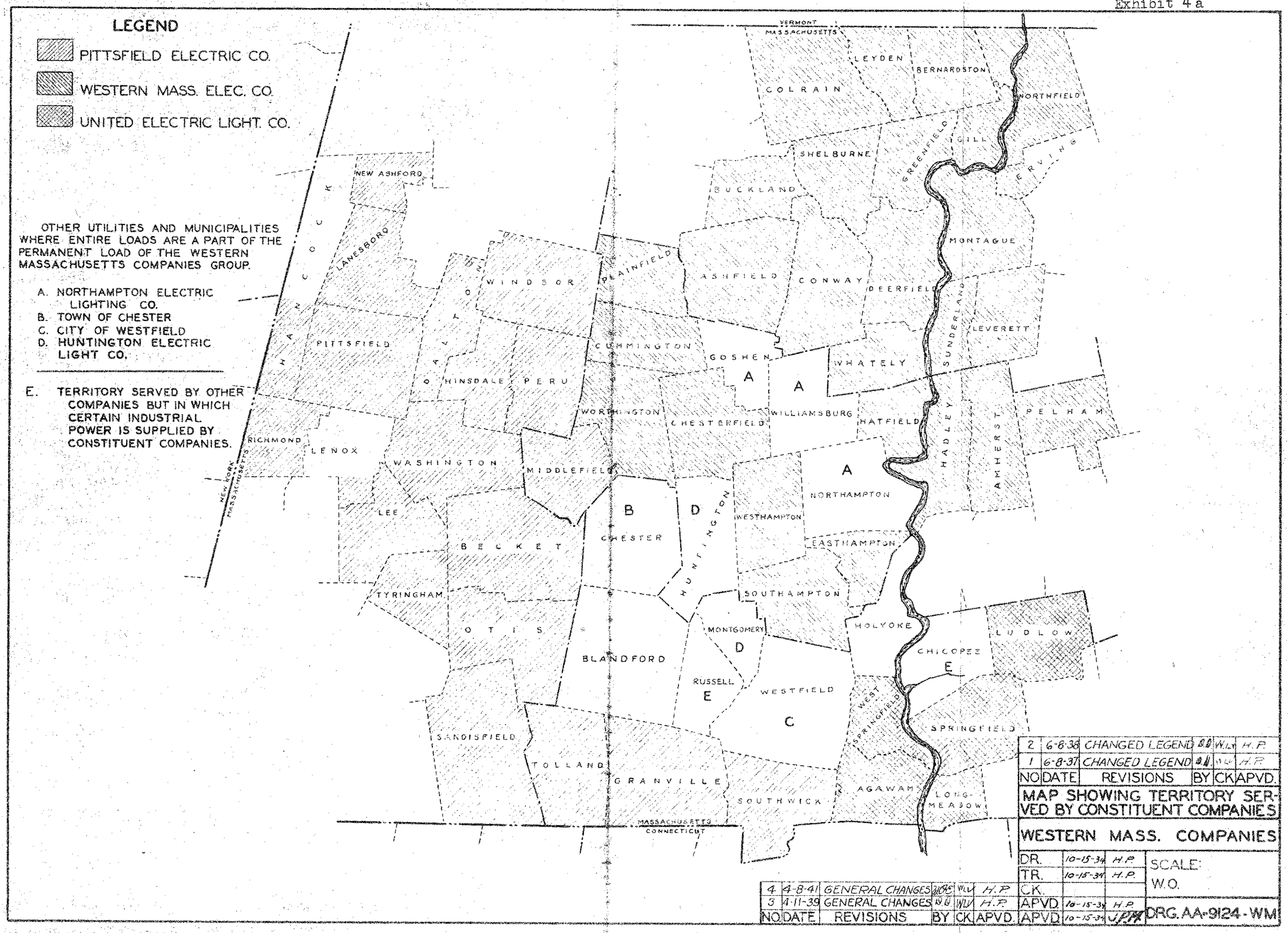
NO	DATE	REVISIONS	BY	CK.	APVD.
3	3-24-42	MINOR CHANGES	H.P.	H.P.	H.P.
2	8-12-42	ADDED 22 KV LINES NO 2 STA. & PITTSFIELD	CRU	WLV	H.P. J.W.B.
1	2-3-42	MINOR REVISIONS	[illegible]	WLV	J.W.B.

WESTERN MASS. COMPANIES TRANSMISSION SYSTEM

WESTERN MASS. COMPANIES

DR.			SCALE: 1:500,000
TR.	1-21-42	[illegible]	W.O.
CK.	[illegible]	[illegible]	
APVD	1-26-42	H.P.	DRG. NO. A-12481-WM
APVD	1-26	J.P.M.	

Exhibit 4 a



NO	DATE	REVISIONS	BY	CK	APVD.
2	6-8-38	CHANGED LEGEND		W.L.V.	H.P.
1	6-8-37	CHANGED LEGEND		W.L.V.	H.P.

MAP SHOWING TERRITORY SERVED BY CONSTITUENT COMPANIES

WESTERN MASS. COMPANIES

NO	DATE	REVISIONS	BY	CK	APVD.
4	4-8-41	GENERAL CHANGES		W.L.V.	H.P.
3	4-11-39	GENERAL CHANGES		W.L.V.	H.P.

DR.	10-15-34	H.P.	SCALE:
TR.	10-15-34	H.P.	W.O.
CK.			
APVD.	10-15-34	H.P.	
APVD.	10-15-34	J.P.K.	DRG. AA-9124-WM

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System.
   Blackstone Valley Gas & Electric Company

2. Names and addresses of operating companies comprising system.
   Blackstone Valley Gas & Electric Company
   55 High Street,
   Pawtucket, R. I.

3. Names of holding companies, if any.

   Eastern Utilities Associates

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

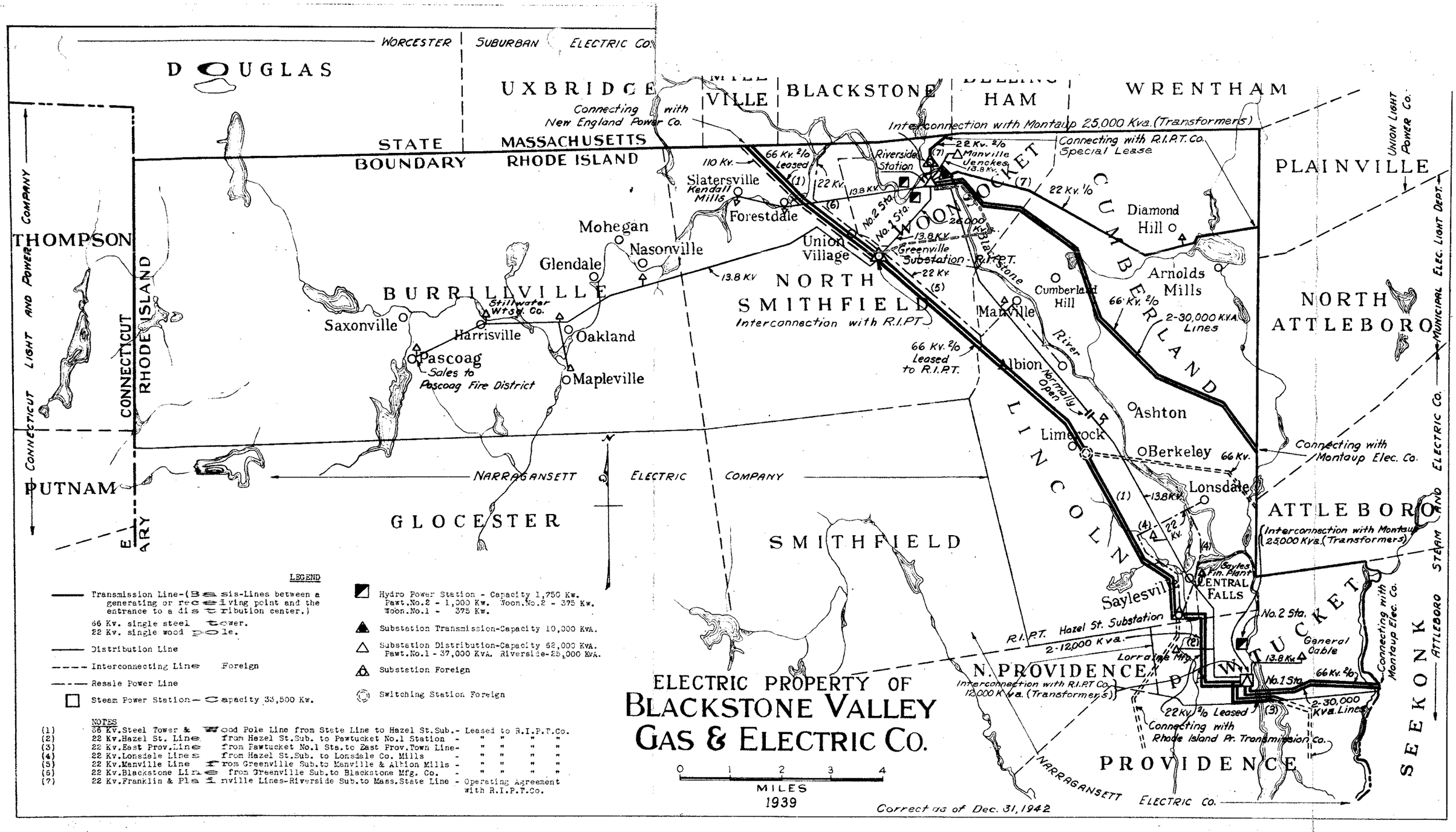
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name L H Knapp

Title Vice President

Company **Blackstone Valley Gas & Electric Co.**



1943 Scheduled Construction

--- 110 Kv. 75,000 Kva. capacity Transmission Tie Line between Riverside Station and Greenville Substation (Woonsocket) of R.I.P.T. Co.
66 Kv. 2/0 Transmission Lines "Connecting with Montaup Electric Co." will be changed to 110 Kv. operation raising capacity to 75,000 Kva. with one circuit out.
25,000 Kva. transformer capacity being added at Pawtucket "Interconnection with Montaup".
Forced cooling equipment being added at Woonsocket "Interconnection with Montaup" raising transformer capacity to 30,000 Kva.

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 27 9 08 AM '43
BOSTON, MASS

1. Name of System.

Newport Electric Corporation

2. Names and addresses of operating companies comprising system.

Newport Electric Corporation,
150 Thames St.,
Newport, Rhode Island

3. Names of holding companies, if any.

None

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

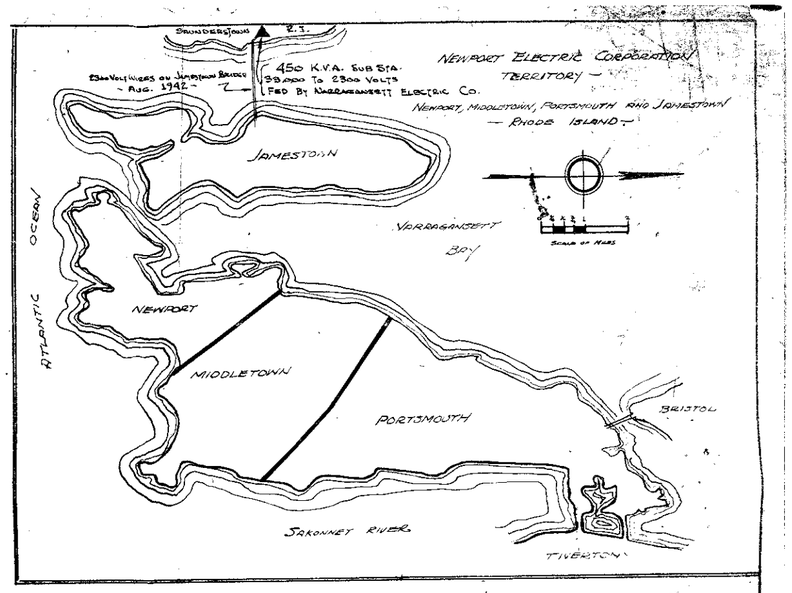
   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name J. C. Earle McLennan
J. C. Earle McLennan
Title **Vice President & General Manager**

Company **Newport Electric Corporation**



NEWPORT POWER STATION —
2 - 3500 K.W. OR 2 - 4375 KILOVOLT AMP - STEAM DRIVEN TURBO GENERATORS
CAPACITY - 8750 K.V.A.
INSTALLED 1937
1 - 4000 K.W. OR 5000 KILOVOLT AMP - STEAM DRIVEN TURBO GENERATOR
INSTALLED - DEC. 1941

TOTAL CAPACITY - 13,750 K.V.A.

TO 2300 STATION

TRAINING STA.

2 - 3 COND. 1/0 SUBMARINE CABLES

3φ - 3750 K.V.A. TRANS. INSTALLED SEPT. 1942

— NEWPORT —

1/0 CABLE

2 MILE CORNER SUB STA.
23000 TO 2300 VOLT
1500 K.V.A.
BUILT 1941

3 - 1/0 PARALLEL GROUP

MIDDLETOWN SUB STATION
23000 TO 2300 VOLTS
CAPACITY - 750 KILOVOLT AMPERES

3 - 1/0 SINGLE CIRCUIT

1/0 WIRE

SINGLE CIRCUIT 3 - 1/0

MELVILLE SUB STATION
23000 TO 4160 VOLTS
750 K.V.A.
BUILT - DEC. 1941

NEWPORT SUB STATION
23,000 TO 2300 VOLTS
CAPACITY - 3000 KILO VOLT AMPERES
PLUS 3750 K.V.A. 1942.
TOTAL K.V.A. SUB STA. = 6750 K.V.A.

— MIDDLETOWN —

— PORTSMOUTH —

SAKONNET RIVER

PORTSMOUTH SUB STATION
23,000 TO 4400 VOLTS
CAPACITY - 300 KILO VOLT AMPERES.

1/0 SUBMARINE CABLE

TIVERTON (R.I.)

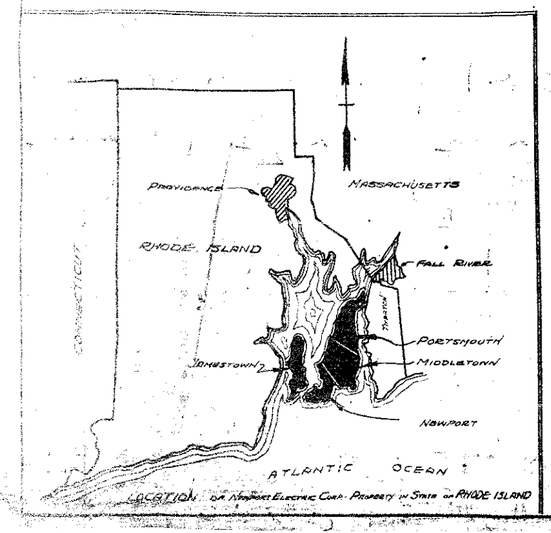
STATE LINE

1/0 WIRE

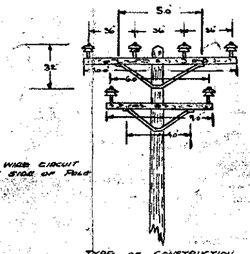
TIVERTON METERING AND SWITCHING STATION - CURRENT SUPPLIED BY FALL RIVER ELECTRIC CO.
6000 K.W. AT FALL RIVER BUS

FALL RIVER (MASS.)

STATE LINE



LOCATION OF NEWPORT ELECTRIC CORP. PROPERTY IN STATE OF RHODE ISLAND



TYPE OF CONSTRUCTION

TWO CIRCUITS - 23000 VOLTS EACH
SIZE No. 4/0 A.W.G. - H.D. 3/8 HARD COPPER CONDUCTORS
WESTERN RED CEDAR, CLASS A POLES
THOMAS No. 2417 PIN TYPE INSULATORS
CAPACITY IN KILOWATTS = 4000
LENGTH - 19.9 MILES

OVERHEAD WIRE - 1/0
UNDERGROUND OR SUBMARINE CABLE - 2/0

NEWPORT ELECTRIC CORP.
23000 VOLT TRANSMISSION LINE

TIVERTON PORTSMOUTH MIDDLETOWN AND NEWPORT
RHODE ISLAND

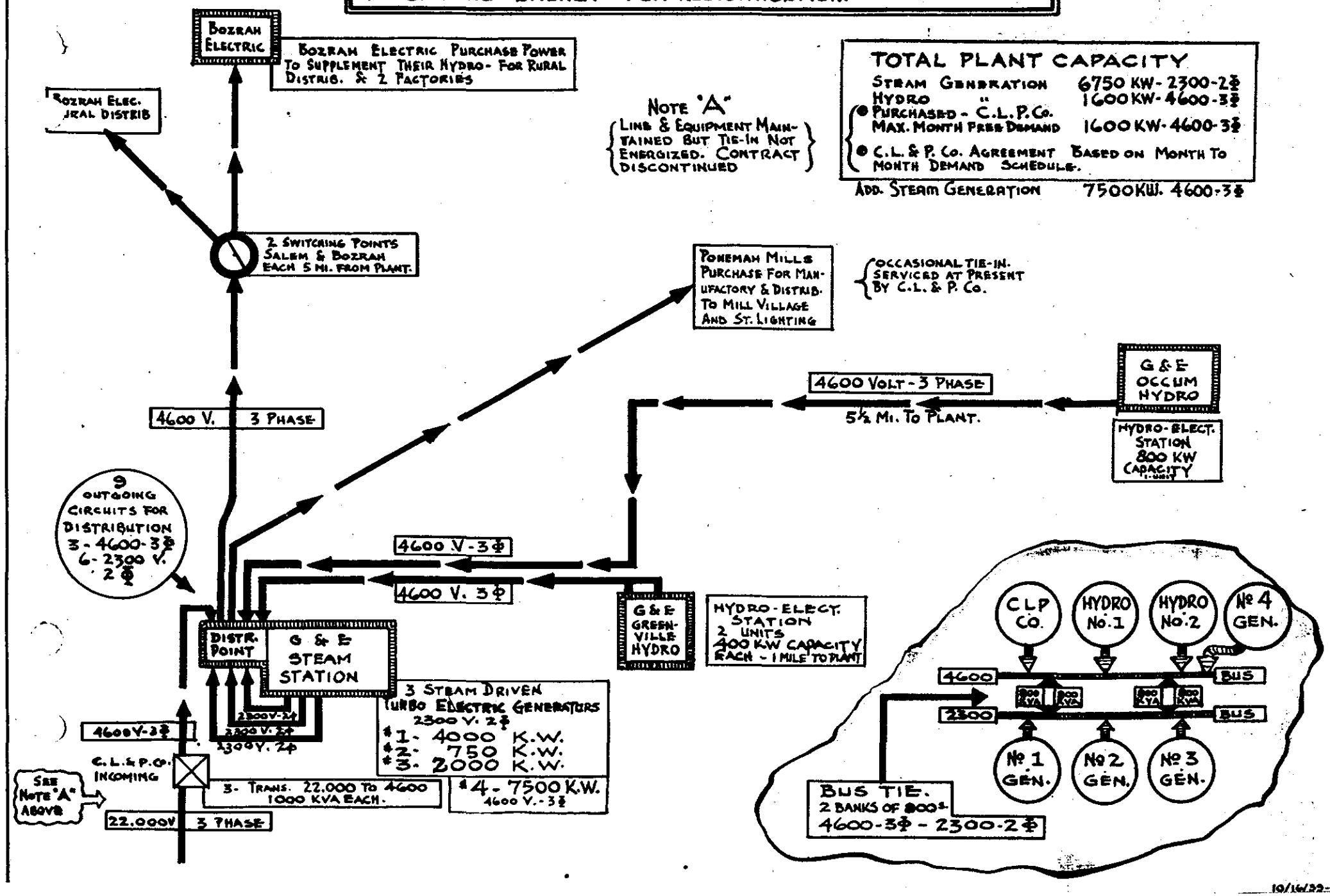
SCALE 1" = 2500'

FOR F.P.C. STATEMENT SCHEDULE #18A PAGE #31
AND
ANNUAL ELECTRIC POWER SURVEY REPORT.

NOVEMBER 9. 1936 BY LOUIS E. MURPHY
CORRECT TO MAR. 15. 1941 CORRECT TO FEB. 26. 1943
" JAN. 1. 1942

CITY OF NORWICH GAS AND ELECTRICAL DEPARTMENT - NORWICH-CONN.

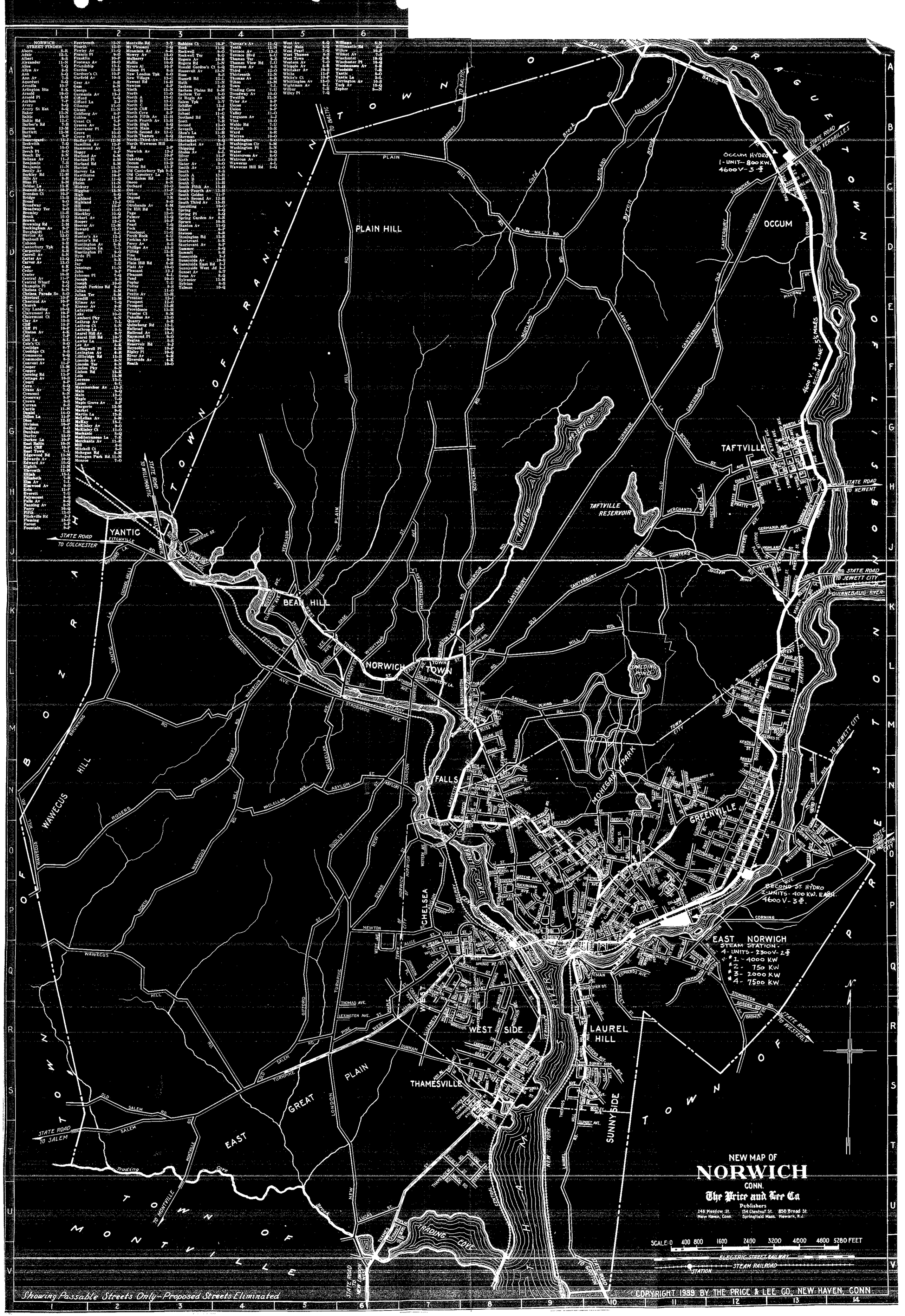
SCHEMATIC LAYOUT OF SOURCES OF POWER AND COMPANIES PURCHASING ENERGY FOR REDISTRIBUTION.



10/16/22-M

NORWICH STREET FINDER

Aborn	8-R
Adair	13-L
Albert	8-S
Alexander	11-N
Alice	7-Q
Allyn Av	8-S
Ann	8-Q
Ann Av	7-S
Aqueduct	8-Q
Arcadia	10-P
Arlington Hts	8-K
Arnold	10-O
Arnold Pl	8-M
Asylum	7-P
Avery	8-Q
Avery St Ext	8-Q
Baker	12-N
Baltic	10-O
Baltic Rd	12-C
Barber's Rd	7-B
Barnes	13-M
Barrett	12-M
Bath	9-P
Beauregard	13-J
Beckwith	7-Q
Beech	10-O
Beech Pl	8-O
Beech Dr	8-N
Belleau Av	11-J
Benjamin	7-R
Benjamin	11-N
Bently Av	10-S
Berkley Rd	12-M
Bills Av	8-R
Bliss Pl	8-M
Boldue La	13-K
Boswell Av	10-P
Brendan Ct	10-P
Bridge	13-B
Broad	9-O
Broadway	3-P
Broadway Ter	9-O
Bromley	12-R
Brook	10-O
Brown	8-R
Browning Rd	2-M
Buckingham Av	9-P
Burghardt	11-N
Burton Av	13-O
Bushnell Pl	8-T
Cahoon	9-R
Canterbury Tpk	8-K
Carpenter	8-R
Carroll Av	8-N
Carter Av	12-Q
Carver Av	13-O
Case	6-K
Cedar	9-P
Center	10-R
Central Av	11-P
Central Wharf	9-Q
Champlin Pl	8-Q
Chelsea Ct	8-N
Chelsea Parade So	8-O
Chestnut	10-P
Chestnut Av	10-P
Church	9-P
City Landing	10-Q
Clairemont Av	10-P
Clairemont Ct	10-P
Clay Av	10-S
Cliff	10-P
Cliff Pl	10-P
Clinton Av	4-K
Colt	7-P
Colt La	8-T
Cole's Ct	8-O
Coolidge	8-T
Coolidge Ct	8-S
Commerce	9-Q
Commodore	8-S
Convent Av	11-P
Cooper	12-M
Copper	11-P
Corning Rd	13-P
Cottage Av	10-S
Court	9-P
Cove	8-Q
Crane Av	7-Q
Crescent	8-N
Crossway	9-S
Crown	8-S
Curran	8-S
Curtis	11-N
Daniel	14-O
Dillon La	11-P
Dion	12-H
Division	10-P
Dudley	6-O
Dunham	9-R
Durfey	12-O
Durkee La	10-P
East Baltic	10-N
East Cliff	10-P
East Town	7-P
Edgewood Rd	12-M
Edwards Av	10-Q
Edward Av	10-Q
Eighth	12-M
Eleventh	12-M
Elijah	13-L
Elizabeth	7-R
Elm Av	7-L
Elmwood Av	8-L
Erin	11-P
Everett	7-U
Fairmount	8-Q
Falls Av	8-Q
Fanning Av	8-N
Ferry	10-Q
Fifth	12-O
Fitchville Rd	2-J
Fleming	13-P
Forest	8-O
Fountain	9-P
Fourteenth	12-N
Fourth	12-O
Fowler Av	11-Q
Francis Pl	9-O
Franklin	10-P
Freeman Av	10-O
Friendship	13-L
Garden	12-R
Gardner's Ct	10-P
Garfield Av	10-S
Geer Av	8-R
Gem	8-N
George	8-S
Germania Av	13-J
Gifford	8-O
Gifford La	2-J
Gilmour	11-O
Glezen	11-N
Goldberg Av	8-P
Golden	11-P
Grant Ct	7-P
Greene Av	9-P
Grosvenor Pl	8-O
Grove	10-P
Grove Pl	10-O
Hadley Av	12-M
Hamilton Av	12-P
Hammond Av	11-Q
Happy	8-P
Harland Av	8-M
Harland Pl	8-M
Harland Rd	8-M
Harriet	11-N
Harvey La	10-P
Hawthorne	10-P
Hedge Av	11-Q
Helen	11-N
Hickory	11-O
Higgins	13-N
High	8-Q
Highland	2-P
Highland	13-J
Hill	10-P
Hillcrest	11-O
Hinckley	10-Q
Hobart Av	10-P
Hooper	13-C
Hoover Av	12-M
Howard	12-O
Hunt	8-C
Hunter's Av	12-J
Hunter's Rd	11-J
Huntington Av	5-K
Huntington La	7-L
Huntington Pl	9-O
Hyde Pl	13-N
Jane	8-K
Jay	7-U
Jennings	11-N
John	9-P
Johnson Pl	7-Q
Joseph	8-S
Joseph	10-O
Joseph Perkins Rd	9-O
Julian	8-M
Julian Ter	8-M
Kendill	12-M
Kilmer Av	7-Q
Kinney Av	9-R
Lafayette	7-N
Lake	10-O
Lambert Pky	8-N
Lathrop Av	7-L
Lathrop Ct	8-N
Lathrop La	8-L
Laurel Hill Av	9-T
Laurel Hill Rd	10-T
Lawler La	10-F
Lee Av	8-K
Leffingwell Pl	8-M
Lexington Av	4-R
Lillibridge Rd	11-B
Lincoln Av	8-N
Lincoln Ter	8-N
Linden Pky	8-N
Lisbon Rd	13-S
Lois	13-M
Lorenzo	13-L
Lucas	6-U
Maennerchor Av	13-J
Main	9-Q
Main	13-G
Maple	7-Q
Maple Grove Av	8-P
Margerie	13-M
Market	9-Q
Martin La	13-K
McLellan Av	5-M
McKay	13-L
McKinley Av	9-O
McKinley Ct	11-O
Mechanic	8-Q
Mediterranean La	7-K
Merchants Av	11-H
Mill	8-S
Mitchell Ct	8-S
Mohegan Rd	8-M
Mohegan Park Rd	11-N
Monroe	7-O
Montville Rd	2-T
Mt Pleasant	7-Q
Mountain Av	8-R
Mowry Av	13-O
Mulberry	12-O
Mullin	10-O
Myers Al	10-P
Nelson Pl	8-S
New London Tpk	6-O
New Village	13-C
Newent Rd	14-H
Newton	6-P
Ninth	12-N
North	11-O
North A	13-G
North B	13-G
North C	13-G
North Cliff	10-P
North Cove	8-P
North Fifth Av	13-H
North Fourth Av	13-H
North High	8-Q
North Main	10-P
North Second Av	13-G
North Thames	8-Q
North Third Av	13-G
North Wawecus Hill Rd	2-P
Norwich Av	13-J
Oak	10-P
Oakridge	11-O
Occum	13-D
Occum Rd	13-F
Old Canterbury Tpk	9-K
Old Cemetery La	7-L
Old Salem Rd	5-R
Oneco	8-N
Orchard	10-O
Ore	11-P
Orton	11-N
Osgood	7-R
Otis	9-O
Otrobando Av	6-M
Ox Hill Rd	8-L
Page	12-O
Palmer	12-Q
Park	10-P
Pearl	7-Q
Peck	7-Q
Penobscot	11-G
Perch Rock	8-U
Perkins Av	9-O
Perry Av	8-S
Phillips Av	10-S
Pilling	13-E
Pine	6-R
Pitcher	8-S
Plain Hill Rd	6-H
Platt Av	10-O
Pleasant	12-J
Pleasant	8-T
Pond	10-O
Poplar	7-U
Potter	8-S
Pratt	11-O
Pratte Av	12-H
Prentice	12-J
Prospect	12-O
Prospect	12-H
Providence	13-H
Prunier Ct	8-M
Pukallus Av	13-O
Quarry	8-R
Quinebaug Rd	12-L
Railroad	10-Q
Railroad Av	13-C
Raymond Pl	9-O
Regina	8-S
Reservoir Rd	8-J
Reynolds	10-P
Ripley Pl	10-Q
River Av	9-R
Riverside Av	4-K
Roath	10-O
Robbins Ct	10-P
Rock	11-Q
Rockwell	9-O
Rockwell Ter	9-O
Rogers Av	10-R
Rogers Rd	2-N
Ronald Gordon's Ct	8-Q
Roosevelt Av	13-N
Rose	8-S
Russell Rd	12-L
Ruth	11-N
Sachem	8-O
Sachem Plains Rd	8-M
Sachem Ter	8-O
St Regis Av	12-M
Salem Tpk	3-T
Schiller	13-J
School	9-P
School	11-G
Scotland Rd	7-K
Scott	7-R
Second	12-O
Seventh	12-O
Shea's La	11-H
Sherman	7-O
Shetucket	9-Q
Shetucket Av	13-J
Shipping	8-S
Sholes Av	5-L
Silver	11-P
Sixth	12-O
Slater Av	9-O
Smith Av	13-O
South	8-S
South A	13-H
South B	13-H
South C	13-H
South Fifth Av	13-H
South Fourth Av	13-H
South Golden	11-P
South Second Av	13-H
South Third Av	13-H
Spaulding	10-O
Spring	8-Q
Spring Pl	8-Q
Spring Garden Av	8-R
Spruce	10-R
Stanton Av	11-Q
Starr	6-P
Steison	8-R
Stonington Rd	12-R
Sturtevant	5-K
Sturtevant Av	8-P
Summer	9-Q
Summit	8-R
Sunnyside	8-J
Sunnyside Av	10-S
Sunnyside East Rd	3-J
Sunnyside West Rd	3-J
Sunset Av	9-T
Swan Av	8-Q
Sylvester	12-M
Sylvian	8-S
Talman	10-Q
Tanner's Av	11-O
Tenth	12-N
Terrace Av	13-J
Terrace Blvd	6-U
Thames Ter	9-S
Thames View Rd	7-U
Thermos Av	9-S
Third	12-O
Thirteenth	12-N
Thomas Av	6-R
Tilton	13-M
Town	7-L
Trading Cove	7-U
Treadway Av	10-O
Twelfth	12-N
Tyler Av	8-P
Uncas	8-O
Union	9-P
Valley	11-O
Vergason Av	5-J
Vine	10-O
Waldo Rd	7-U
Walnut	10-R
Ward	8-R
Warren	10-O
Washington	8-O
Washington Cir	8-M
Washington Pl	8-N
Water	9-Q
Watercress Av	8-O
Watrous Av	10-S
Wawecus	4-L
Wawecus Hill Rd	2-Q
West Av	8-Q
West Main	8-Q
West Pearl	7-Q
West Thames	8-S
West Town	5-K
Western Av	7-O
Whipple Av	8-R
Whitaker Av	10-S
White	11-P
White's Ct	10-P
Whittington Av	13-O
Wightman Av	6-L
Wilbur	7-R
Willey Pl	7-Q
Williams	8-N
Willimantic Rd	6-J
Willow	10-P
Wilmot Av	7-S
Winchester	10-Q
Winchester Pl	10-Q
Woodmansee Av	8-R
Woodside	7-R
Yantic	5-O
Yantic La	5-L
Yerrington Av	16-S
York Av	10-Q
Zepher	8-N



THE CONNECTICUT LIGHT & POWER CO.

250 FREIGHT STREET

WATERBURY, CONNECTICUT

April 6, 1945

APR 7 8 43 AM '45

BOSTON, MASS

The District Engineer
U. S. Engineer Office
3d Floor, Park Square Building
31 St. James Avenue
Boston, Massachusetts

Reference: E-16

Dear Sir: Attention - G. W. Nevius, Captain, Corps of Engineers
Executive Officer

We are sending you herewith data requested in your letter of March 20, 1945. We regret very much that due to several circumstances, one of which was the delayed receipt of your letter of March 20, we were unable to mail this information to you by March 27.

Referring to Item 4-c, Capacity of Main Power Line, I would like to call your attention to the fact that the capacities shown on the map are the nominal capacities of these lines between terminal points. The maximum loading of these lines, however, is determined by the permissible line drop between the generating plants and the remote load centers. For your information I am attaching our latest report made to the Federal Power Commission on transmission line capacities and loads actually carried. I believe that this supplementary data on transmission line capacity will be of value to you.

Referring to Item 4-d, we have attached to the map a typed sheet giving the data requested for the connections with other power systems, either made or contemplated.

Yours very truly,

E. J. Amberg

E. J. Amberg
Research Engineer

EJA:EBF
Enclosures

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System.

The Connecticut Light and Power Company

2. Names and addresses of operating companies comprising system.

The Connecticut Light and Power Company
56 Pearl Street, Hartford, Connecticut

3. Names of holding companies, if any.

None

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **E. J. Amberg**

Title **Research Engineer**

Company **The Connecticut Light & Power Co.**
250 Freight Street
Waterbury, Connecticut

FPC Form No. 223-A

Sheet 1 sheets

Month October, 1942

NATIONAL DEFENSE POWER STATEMENT

SUPPLEMENT TO POWER SYSTEM STATEMENT FPC FORM 64
HIGH VOLTAGE LINE DATA

The Connecticut Light & Power Company 36 Pearl Street, Hartford, Connecticut
Full legal name and address of respondent

Main System
Common designation of system

Connecticut
Location State(s)

Submitted by: E. J. Ambers
Signature

Research Engineer
Title

December 15, 1942
Date

1. The original and one copy of this statement shall be completed and mailed by the 15th day of Dec, 1942 to the Regional Office of the Federal Power Commission in your area.

2. Where several systems are operated under some form of power pool, individual statements for each system are to be filed.

3. For systems having a maximum transmission voltage of 66 kv or less, this statement should be filled in completely for each line of 33 kv or greater. For all other systems, it should be filled in completely for each line of 55 kv or greater. Please add data for new lines completed since last report according to the present voltage rule.

4. Show for month designated, the load on each line at the time of the system peak. The load data in this schedule should be the integrated demand for 60-minute intervals. Where these data are not available, other data should be adjusted or *estimated* to approximate the integrated demand for a 60-minute interval. Where two or more identical circuits between line terminals are grouped, indicate by symbol whether data be for one or all such circuits.

LINE TERMINALS NORMAL FLOW OF POWER FROM – (1)	TO – (2)	OPERATING KV (3)	MILEAGE (4)	MAXIMUM POSSIBLE LOADING KVA (5)	60-MIN. INTEGRATED LOAD – KW October month PEAK (6)
Stamford	Norwalk	66	10.21	20,800	8,150
Stamford	Norwalk	"	10.21	20,800	8,150
Bulls Bridge	Rocky River	"	6.66	15,800 (a)	5,400
Southington	New Britain	"	6.23	16,000	15,100
Southington	New Britain	"	6.23	16,000	15,100
Montville	New London & Flanders	33	12.84	8,500	5,200
Montville	New London & Flanders	"	12.84	8,500	4,500
Montville	Southington	66	47.12	20,400 (b)	(9,000)
Devon	Norwalk	"	23.29	16,100	Temporarily Out of Service
Devon	Norwalk	"	23.29	14,200	5,250
Stamford	Cos Cob	"	3.32	21,000	2,950
Stamford	Cos Cob	"	3.32	21,000	c 2,950
Devon	Bunker Hill	"	26.85	20,600	25,500
Devon	Bunker Hill	"	26.85	20,600	25,500
	(See Note on Reverse Side)				

FPC Form No. 223-A

Sheet 2 _____ sheets

Month October, 1942

NATIONAL DEFENSE POWER STATEMENT

SUPPLEMENT TO POWER SYSTEM STATEMENT FPC FORM 64
HIGH VOLTAGE LINE DATA

The Connecticut Light & Power Company 36 Pearl Street, Hartford, Connecticut
Full legal name and address of respondent

Main System
Common designation of system

Connecticut
Location State(s)

Submitted by: E. J. Lambers
Signature

Research Engineer
Title

December 15, 1942
Date

1. The original and one copy of this statement shall be completed and mailed by the 15th day of Dec, 1942 to the Regional Office of the Federal Power Commission in your area.

2. Where several systems are operated under some form of power pool, individual statements for each system are to be filed.

3. For systems having a maximum transmission voltage of 66 kv or less, this statement should be filled in completely for each line of 33 kv or greater. For all other systems, it should be filled in completely for each line of 55 kv or greater. Please add data for new lines completed since last report according to the present voltage rule.

4. Show for month designated, the load on each line at the time of the system peak. The load data in this schedule should be the integrated demand for 60-minute intervals. Where these data are not available, other data should be adjusted or *estimated* to approximate the integrated demand for a 60-minute interval. Where two or more identical circuits between line terminals are grouped, indicate by symbol whether data be for one or all such circuits.

LINE TERMINALS NORMAL FLOW OF POWER FROM – (1)	TO – (2)	OPERATING KV (3)	MILEAGE (4)	MAXIMUM POSSIBLE LOADING KVA (5)	60-MIN. INTEGRATED LOAD – KW October month PEAK (6)
Devon	Meriden	66	30.64	20,600	20,700
Devon	Meriden	"	30.64	20,600	20,700
Stevenson	Bunker Hill	"	13.32	16,000	23,700
Rocky River	Bunker Hill	"	24.80	20,000	3,350
Rocky River	Bunker Hill	"	24.80	20,000	3,350
Norwalk	Danbury	"	19.98	20,200	9,800
Danbury	Rocky River	"	13.98	20,200	4,450
					c
Bunker Hill	Southington	"	13.83	16,800	15,300
Bunker Hill	Southington	"	13.83	16,800	9,500
Southington	Meriden	"	5.94	20,600	11,600
Southington	"	"	5.94	20,600	11,600
Montville	Tracy	"	39.62	17,000	8,350
Tunnel	Tracy	"	27.11	17,000	5,350
Montville	Willimantic	"	31.30	15,800	10,000
Willimantic	Rockville	"	18.92	15,800	1,600
	(See Notes on Reverse Side)				

Voltage drop is the only limiting feature for loading the circuits in this 66 kv network. The values previously furnished are, in our judgment, still proper for normal operating conditions. Voltage drop is a measure of satisfactory service; in case of emergency the normal standard of service cannot be maintained. This factor accounts for the increased loading of some of the circuits. Below are increased values for some of the circuits up to which values we believe factory outputs will not be affected.

There is one more factor which enters into the picture - namely power factor. The higher power factor of the additional loads has improved the system power factor and incidentally the kva rating of the circuits.

Under peak system load conditions, with maximum tolerable voltage drops and all present circuits available, calculations indicate that certain circuits have a greater kva input capacity than previously indicated. This is due largely to the higher power factors anticipated in these lines under these conditions. For this system condition these circuits and their then input capacities are:

Southington - New Britain	23,800 kva each
Devon - Bunker Hill	29,750 kva each
Devon - Meriden	26,000 kva each
Stevenson - Bunker Hill	27,900 kva (As an independent circuit)
Bunker Hill - Southington	22,600 kva on one line

NOTES

(a) Limited to 8,400 KVA by Bulls Bridge Plant capacity
(b) Up to 30,000 KVA with voltage regulator
(c) Estimates only of circuit loading

Note: Max. KVA loading of all lines coordinated with the normal max. permissable voltage limits at generating plant and distant load.
Many 66 KV lines are tapped, the KW given represents the loading at the supply end of the circuit only.

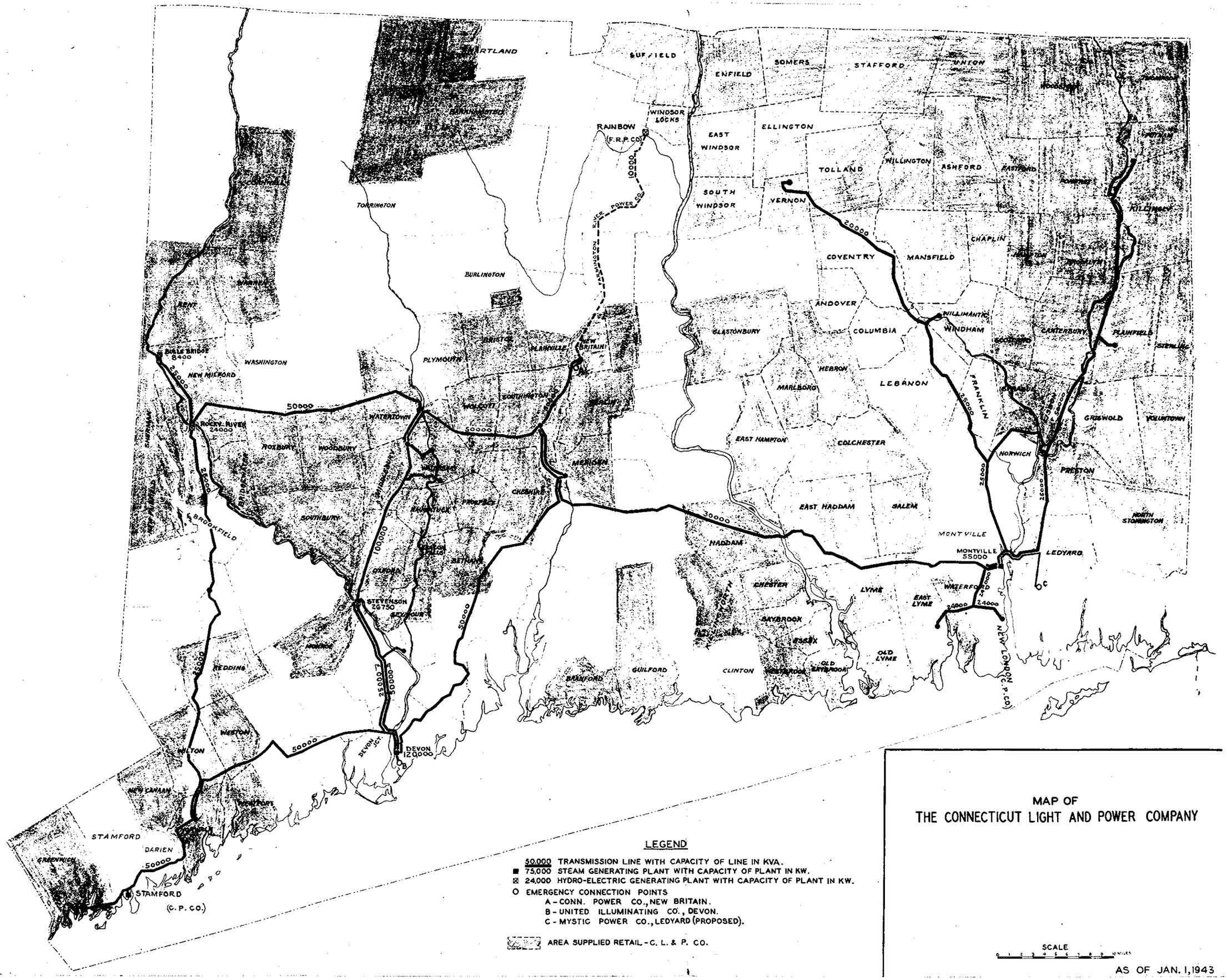
THE CONNECTICUT LIGHT AND POWER COMPANY MAIN SYSTEM

CONNECTION POINTS

A. New Britain: Emergency connection with The Connecticut Power Company, established under WPB Order L-94 and FPC Docket IT-5793, for transfer of power to The Connecticut Power Company. Transfer capacity depends on the magnitude of the load on the Main System of The Connecticut Light and Power Company. Under present conditions the transfer capacity is approximately 25,000 kw.

B. Devon: Emergency connection with The United Illuminating Company established under FPC Docket IT-5761. Transfer capacity is 25,000 kw--limited by the regulating transformer.

C. Whipple Junction (in Town of Ledyard): Proposed emergency connection with The Mystic Power Company under WPB Order L-94 and FPC Docket IT-5796. The transfer which is limited to approximately 7500 kw by the capacity of the supply circuits is sufficient for picking up only the Mystic load and the Westerly load of The Narragansett Electric Company. It is not sufficient for tying the two systems together.


MAP OF
THE CONNECTICUT LIGHT AND POWER COMPANY
LEGEND
50,000 TRANSMISSION LINE WITH CAPACITY OF LINE IN KVA.
75,000 STEAM GENERATING PLANT WITH CAPACITY OF PLANT IN KW.
24,000 HYDRO-ELECTRIC GENERATING PLANT WITH CAPACITY OF PLANT IN KW.
O EMERGENCY CONNECTION POINTS
A - CONN. POWER CO., NEW BRITAIN.
B - UNITED ILLUMINATING CO., DEVON.
C - MYSTIC POWER CO., LEDYARD (PROPOSED).
AREA SUPPLIED RETAIL - C. L. & P. CO.
SCALE
AS OF JAN. 1, 1943
SHARTLAND
SUFFIELD
ENFIELD
SOMERS
STAFFORD
UNION
WINDSOR LOCKS
RAINBOW (F.R.P. CO.)
EAST WINDSOR
ELLINGTON
TOLLAND
WILLINGTON
ASHFORD
EASTFORD
SOUTH WINDSOR
VERNON
TORRINGTON
RIVER POWER CO.
BURLINGTON
CHAPLIN
COVENTRY
MANSFIELD
KILLINGLY
ANDOVER
WILLIMANTIC
WINDHAM
GLASTONBURY
COLUMBIA
CANTERBURY
PLAINFIELD
STERLING
BRISTOL
PLANVILLE
NEW BRITAIN
PLYMOUTH
BENT
WASHINGTON
BIBLE BRIDGE 8400
NEW MILFORD
HEBRON
MARLBORO
LEBANON
FRANKLIN
SCOTLAND
WOLCOTT
SOUTHINGTON
WATERTOWN
ROCKY RIVER 24000
ROXBURY
WOODBURY
EAST HAMPTON
COLCHESTER
GRISWOLD
VOLUNTOWN
NORWICH
PRESTON
MERIDEN
CHESHIRE
WALLINGFORD
PROSPECT
BANKSTUCK
SOUTHBURY
BROOKFIELD
EAST HADDAM
SALEM
NORTH STONINGTON
MONTVILLE
HADDAM
MONTVILLE 55000
LEDYARD
BETHANY
DERBY
STEVENSON 26750
SEYMOUR
CHESTER
LYME
WATERFORD
EAST LYME
NEW LONDON
NORWALK
REDDING
BAYBROOK
ESSEX
OLD LYME
GUILFORD
BRANFORD
CLINTON
WESTBROOK
OLD SAYBROOK
NEW LONDON (C. P. CO.)
WESTON
WILTON
DEVON JCT.
DEVON 12000
NEW CANAAN
NEWPORT
STAMFORD
DARIEN
GREENWICH
STAMFORD (C. P. CO.)
50000
25000
100000
30000
20000
10000
24000

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 23 9 30 AM '43
BOSTON, MASS.

1. Name of System. The Danbury & Bethel Gas & Electric Light Company

2. Names and addresses of operating companies comprising system.
The Danbury & Bethel Gas & Electric Light Company,
238 Main Street
Danbury, Connecticut

3. Names of holding companies, if any.

Cities Service Power and Light Company

4. Furnish maps (any convenient scale) showing:

a. Areas supplied.

b. Location and name plate capacity of principal power plants.

c. Location and capacity, in kilowatts, of main power lines.

d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

e. Location and capacity of power plants and power lines under construction. None.

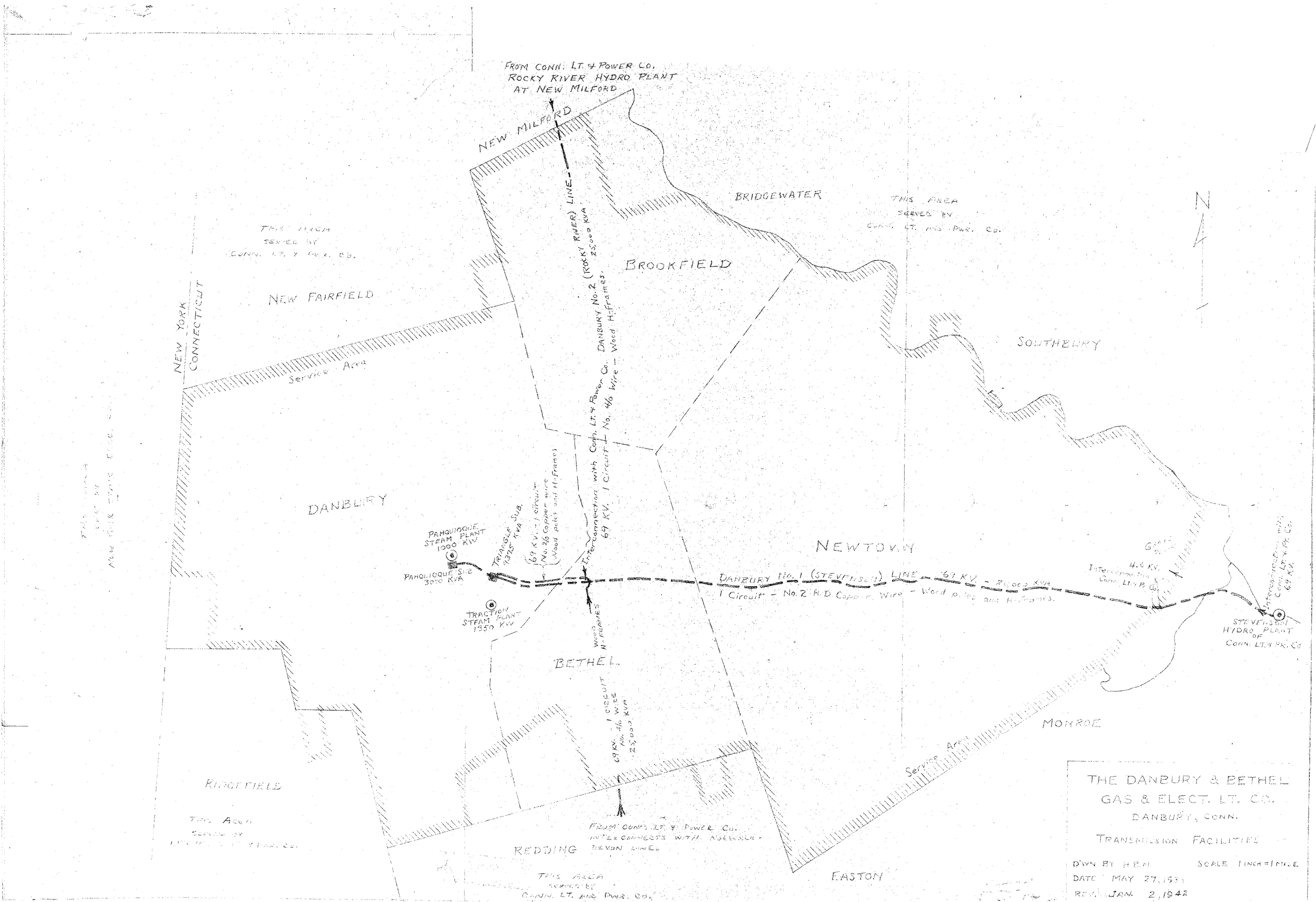
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name Warren T. Berkley

Title General Superintendent

Company THE DANBURY & BETHEL GAS & ELECTRIC LIGHT CO.



THE DANBURY & BETHEL
GAS & ELECT. LT. CO.
DANBURY, CONN.

TRANSMISSION FACILITIES

D'WN BY H.B.M. SCALE 1 INCH = 1 MILE
DATE MAY 27, 1933
REV. JAN. 2, 1942

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 24 9 13 AM '43
BOSTON MASS.

1. Name of System. The Derby Gas and Electric Company

2. Names and addresses of operating companies comprising system.
   The Derby Gas and Electric Company
   53 Elizabeth St.
   Derby, Conn.

3. Names of holding companies, if any.
   Derby Gas & Electric Corporation
   Ogden Corporation

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name Gale E. Flint

Title Supt. Electric Distribution

Company The Derby Gas and Electric Company

(See Attached Sheet)

SUPPLEMENTAL SHEET

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

4. a. The map showing the area served was copied from geodetic Survey map of this area.

b. We operate the single power plant which has a capacity as shown of 20800 KW, and is located on Housatonic Ave., Derby.

c. We do not operate any so-called transmission lines on cross-country operation. We supply for nominal small power and household use at 2300 Volt, three phase, 60 cycles. The lines serving only factory customers are operated at somewhat higher voltage and can be listed as follows:-

6900 VOLTS, THREE PHASE, 60 CYCLE

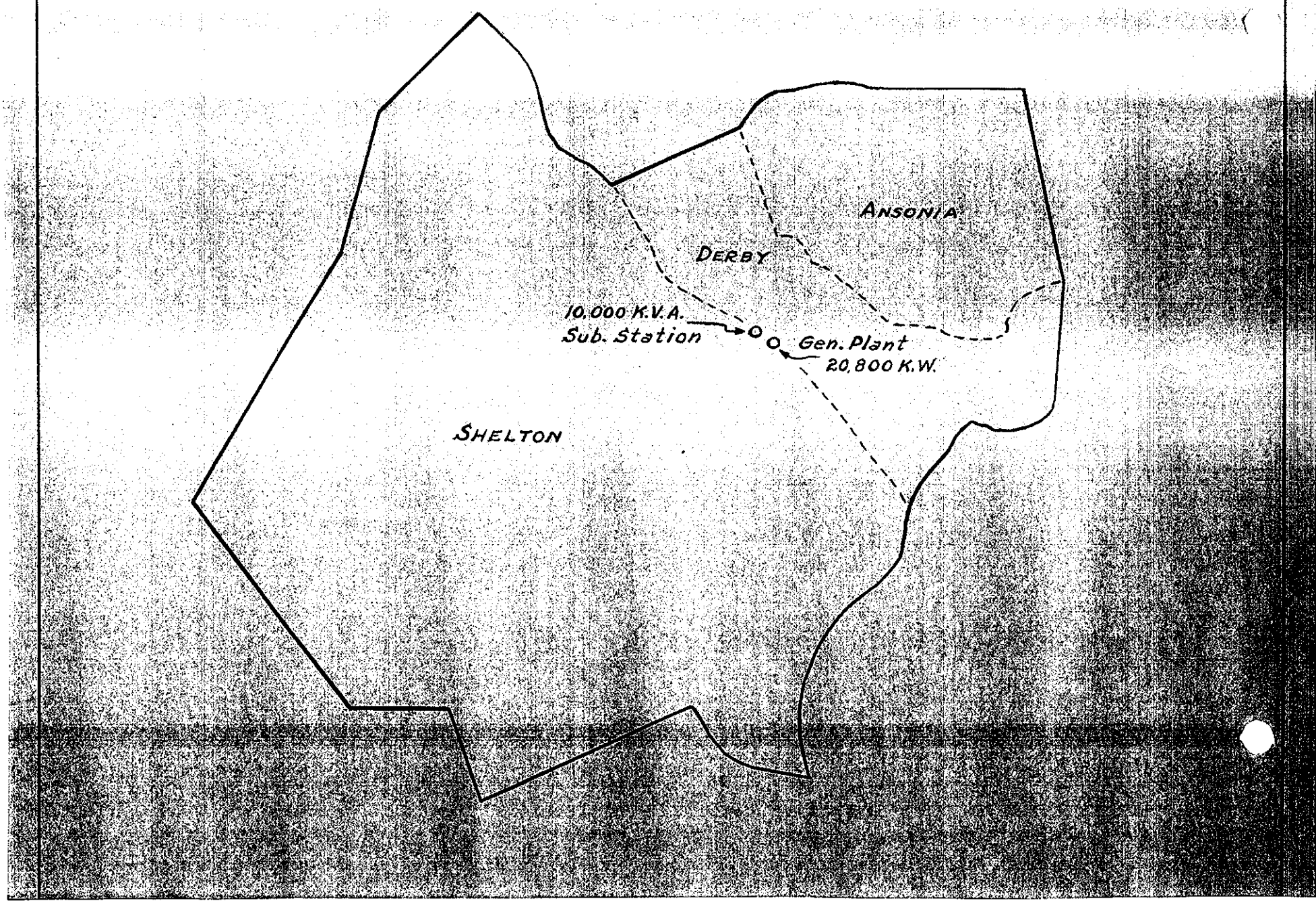
3 Circuits - Gen. Plant to Ansonia Factories - having a total capacity of 5000 KW
1 Circuit - Gen.Plant to Derby Factory - 1000 KW
1 " " " " Shelton Factories - 1500 KW

13800 VOLTS, THREE PHASE, 60 CYCLE

2 Circuits - Gen. Plant to Ansonia Factories - 10,000 KW

d. We connect with the C.L.&P. Co. at a substation located about 1200 ft. north of our generating plant. This connection is made through a transformer bank of 10,000 K.V.A. capacity which is the limiting feature of the hook-up; although, with present day operations the C.L.& P.Co. cannot always supply that amount to us on a moment's notice, but any heavy loads must be planned in advance.

e. We have at present nothing in the way of power plant equipment or power lines under construction.


ANSONIA
DERBY
10,000 K.V.A.
Sub. Station
Gen. Plant
20,800 K.W.
SHELTON

c
o
p
y

The Hartford Electric Light Company
Hartford, Connecticut

APR 1 9 30 AM '43
BOSTON MASS

March 27, 1943

War Department
The District Engineer
U. S. Engineer Office
3rd Floor, Park Square Building
31 St. James Avenue
Boston, Massachusetts

Gentlemen: Att: G. W. Nevius, Captain Corps of Engineers
Executive Officer

All of the projects listed in our letter of January 12, 1942 as being under construction have been completed.

The second of the so-called Hartford-Agawam Lines was changed from 66,000 to 110,000 volt service on June 21, 1942.

The 110,000 volt line between Tariffville and Torrington was energized and placed in service on July 3, 1942.

The 45,000 Kw. addition to the South Meadow Station at Hartford was operated initially during December 1942 and was accepted for regular operation as of February 1, 1943.

On November 6, 1942 a connection was established at New Britain between the 66,000 volt transmission lines of the Connecticut Power Company and the 66,000 volt bus of the Connecticut Light & Power Company at New Britain. This connection was made at the request of the War Production Board under Order L-94 and in accordance with Federal Power Commission Docket IT-5793 dated October 28, 1942.

No changes are contemplated in generating station capacities or in transmission lines for the immediate future.

Yours very truly,

PRESIDENT S. Ferguson
THE HARTFORD ELECTRIC LIGHT COMPANY

EXECUTIVE VICE PRESIDENT A.D.Colvin
THE CONNECTICUT POWER COMPANY

(378)

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System. Joint report of: The Hartford Electric Light Company and The Connecticut Power Company Interconnected System.

2. Names and addresses of operating companies comprising system.
The Hartford Electric Light Co.,266 Pearl St., Hartford, Conn.
The Connecticut Power Company 31 Union St., New London, Conn.

3. Names of holding companies, if any. None

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

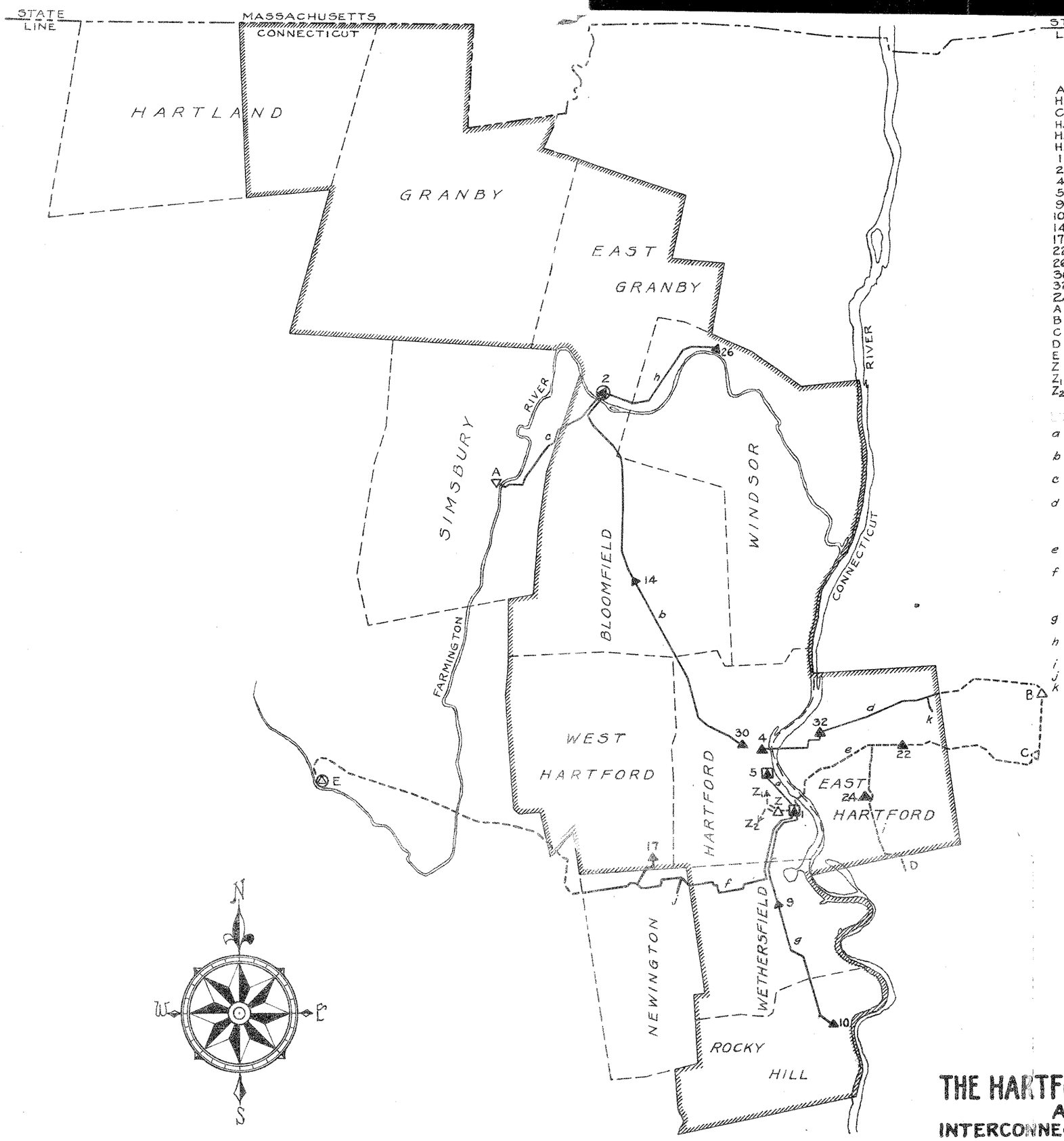
   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name	S. Ferguson	A.D.Colvin
Title	President	Exec.Vice President
Company	The HELt.Co.	The C.P.Co.



LEGEND

AREA OF DISTRIBUTION
H.E.LT. CO. MAIN LINE
CONN. POWER CO. LINE
H.E.LT. CO. STEAM GENERATING STATION WITH SUBSTA.
H.E.LT. CO. HYDRO GENERATING STATION WITH SUBSTA.
H.E.LT. CO. SUBSTATION

1 SOUTH MEADOW STEAM STATION
2 TARIFFVILLE HYDRO STATION WITH SUB.
4 MARKET ST. SUBSTATION
5 DUTCH POINT STEAM STATION WITH SUB.
9 WETHERSFIELD SUBSTATION
10 ROCKY HILL "
14 BLOOMFIELD "
17 ELMWOOD "
22 BURNSIDE "
26 RAINBOW "
30 WOODLAND ST. "
32 JOHN ST. "
24 MAPLE ST. E.HTFD. "
A ENSIGN-BICKFORD SUBSTATION
B CONN. POWER CO. SUBSTATION IN MANCHESTER
C " " " " " "
D CONN. LIGHT & POWER CO. GLASTONBURY TAP
E CONN. POWER CO. HYDRO PLANT & SUBSTATION AT UNIONVILLE
Z CONN. POWER CO. SUBSTATION AT SOUTH MEADOW
Z_1 CONN. POWER CO. AGAWAM LINE TO MASS. STATE LINE
Z_2 CONN. POWER CO. FALLS VILLAGE LINE

a 11,000 VOLT TIE LINES BETWEEN SOUTH MEADOW AND DUTCH POINT STEAM STATIONS.
b LINE TARIFFVILLE HYDRO PLANT TO WOODLAND STREET SUBSTATION.
c TARIFFVILLE HYDRO PLANT TO THE ENSIGN-BICKFORD COMPANY, SIMSBURY, CONNECTICUT.
d MARKET STREET SUBSTATION, HARTFORD, TO JOHN STREET SUBSTATION, EAST HARTFORD, TO LINE OF THE CONNECTICUT POWER COMPANY AT THE EAST HARTFORD-MANCHESTER TOWN LINE.
e SOUTH MEADOW STATION TO THE BURNSIDE SUBSTATION, EAST HARTFORD. JOINT OWNED. 80% C.P.CO. - 20% H.E.LT.CO.
f SOUTH MEADOW STATION TO ELMWOOD SUBSTATION, WEST HARTFORD, TO NEWINGTON-FARMINGTON TOWN LINE CONNECTING WITH LINE OF THE CONNECTICUT POWER COMPANY.
g SOUTH MEADOW STATION TO SUBSTATIONS IN TOWNS OF WETHERSFIELD AND ROCKY HILL.
h TARIFFVILLE HYDRO STATION TO SUBSTATION IN THE VILLAGE OF RAINBOW, TOWN OF WINDSOR.
i GLASTONBURY TAP
j TAP TO BALF CO.
k TAP TO CASE BROS.

MAP SHOWING
THE HARTFORD ELECTRIC LIGHT COMPANY'S
AREA OF DISTRIBUTION
INTERCONNECTING LINES & GENERATING STATIONS

HARTFORD, CONNECTICUT — SEPTEMBER 1939

Revised to 12-31-42

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System. **New London Division and Stamford Gas and Electric Division systems**

2. Names and addresses of operating companies comprising system.

The Connecticut Power Company
31 Union Street
New London, Conn.

3. Names of holding companies, if any.

None.

4. Furnish maps (any convenient scale) showing: **Refer to map attached to joint report of The Hartford Electric Light Co. and Interconnected System of The Connecticut Power Co.**

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

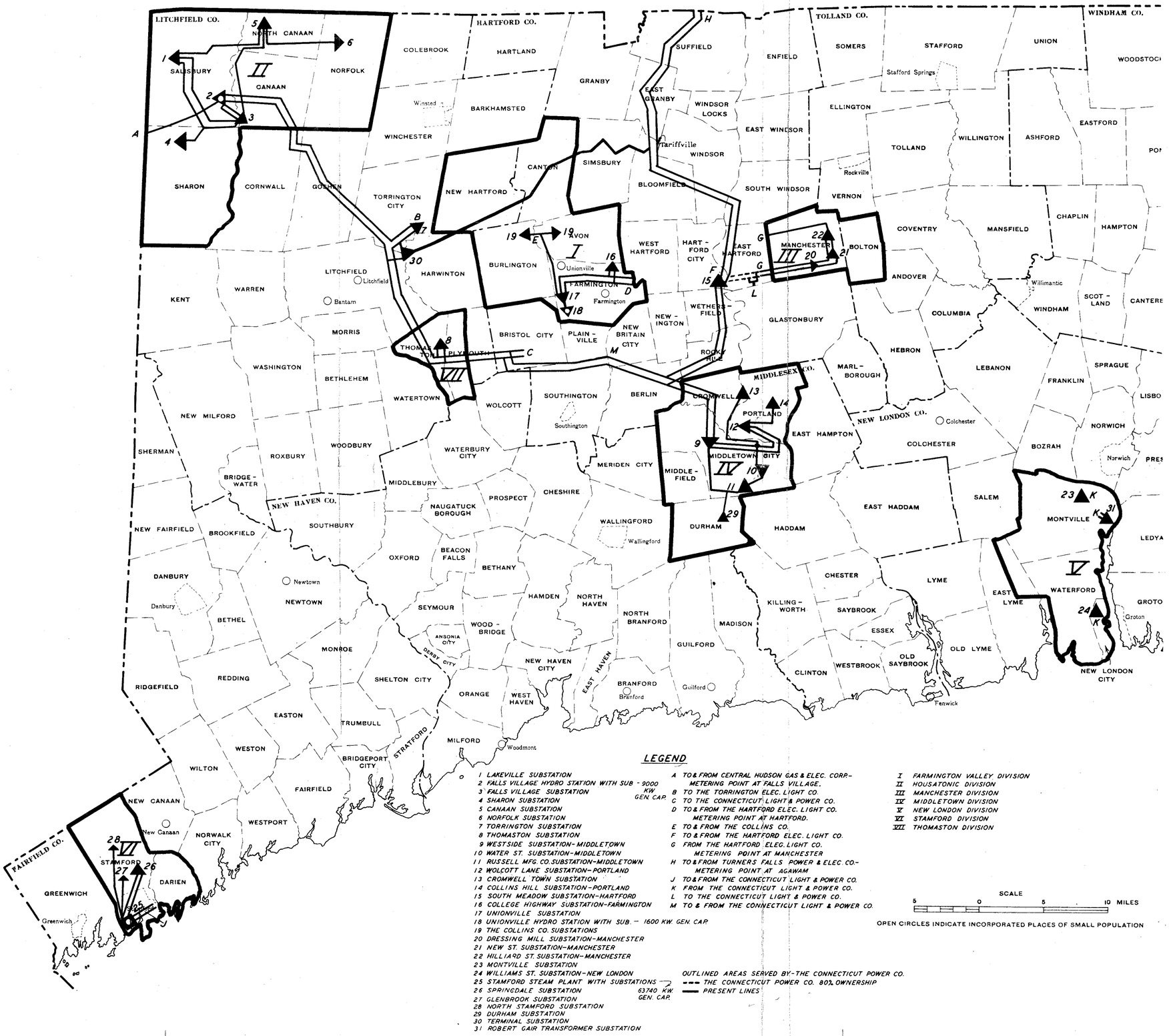
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name **Allan D. Colvin**

Title **Executive Vice President**

Company **The Connecticut Power Company**



LEGEND

1 LAKEVILLE SUBSTATION
2 FALLS VILLAGE HYDRO STATION WITH SUB - 9000 KW. GEN. CAP.
3 FALLS VILLAGE SUBSTATION
4 SHARON SUBSTATION
5 CANAAN SUBSTATION
6 NORFOLK SUBSTATION
7 TORRINGTON SUBSTATION
8 THOMASTON SUBSTATION
9 WESTSIDE SUBSTATION-MIDDLETOWN
10 WATER ST. SUBSTATION-MIDDLETOWN
11 RUSSELL MFG. CO. SUBSTATION-MIDDLETOWN
12 WOLCOTT LANE SUBSTATION-PORTLAND
13 CROMWELL TOWN SUBSTATION
14 COLLINS HILL SUBSTATION-PORTLAND
15 SOUTH MEADOW SUBSTATION-HARTFORD
16 COLLEGE HIGHWAY SUBSTATION-FARMINGTON
17 UNIONVILLE SUBSTATION
18 UNIONVILLE HYDRO STATION WITH SUB. - 1600 KW. GEN. CAP.
19 THE COLLINS CO. SUBSTATIONS
20 DRESSING MILL SUBSTATION-MANCHESTER
21 NEW ST. SUBSTATION-MANCHESTER
22 HILLIARD ST. SUBSTATION-MANCHESTER
23 MONTVILLE SUBSTATION
24 WILLIAMS ST. SUBSTATION-NEW LONDON
25 STAMFORD STEAM PLANT WITH SUBSTATIONS — 63740 KW. GEN. CAP.
26 SPRINGDALE SUBSTATION
27 GLENBROOK SUBSTATION
28 NORTH STAMFORD SUBSTATION
29 DURHAM SUBSTATION
30 TERMINAL SUBSTATION
31 ROBERT GAIR TRANSFORMER SUBSTATION

A TO & FROM CENTRAL HUDSON GAS & ELEC. CORP.-METERING POINT AT FALLS VILLAGE.
B TO THE TORRINGTON ELEC. LIGHT CO.
C TO THE CONNECTICUT LIGHT & POWER CO.
D TO & FROM THE HARTFORD ELEC. LIGHT CO. METERING POINT AT HARTFORD.
E TO & FROM THE COLLINS CO.
F TO & FROM THE HARTFORD ELEC. LIGHT CO.
G FROM THE HARTFORD ELEG. LIGHT CO. METERING POINT AT MANCHESTER
H TO & FROM TURNERS FALLS POWER & ELEC. CO.-METERING POINT AT AGAWAM
J TO & FROM THE CONNECTICUT LIGHT & POWER CO.
K FROM THE CONNECTICUT LIGHT & POWER CO.
L TO THE CONNECTICUT LIGHT & POWER CO.
M TO & FROM THE CONNECTICUT LIGHT & POWER CO.

I FARMINGTON VALLEY DIVISION
II HOUSATONIC DIVISION
III MANCHESTER DIVISION
IV MIDDLETOWN DIVISION
V NEW LONDON DIVISION
VI STAMFORD DIVISION
VII THOMASTON DIVISION

OUTLINED AREAS SERVED BY-THE CONNECTICUT POWER CO.
--- THE CONNECTICUT POWER CO. 80% OWNERSHIP
— PRESENT LINES

SCALE
5 0 5 10 MILES

OPEN CIRCLES INDICATE INCORPORATED PLACES OF SMALL POPULATION

THE CONNECTICUT POWER COMPANY

Interconnected System

From - (1)	To - (2)	Circuit No.	Operating Kv (3)	Mileage (4)	Maximum Possible Loading Kva (5)
Hartford	Middletown Tap (Pt.12)	CP No.1	66	11.04	25,000 (a)
Hartford	Middletown Tap (Pt.12)	CP No.2	66	11.04	25,000 (a)
Middletown Tap (Pt.12)	Middletown	CP No.1	66	7.53	25,000 (a)
Middletown Tap (Pt.12)	Middletown	CP No.2	66	7.53	25,000 (a)
Middletown Tap (Pt.12)	New Britain Tap	CP No.1	66	5.16	25,000 (a)
Middletown Tap (Pt.12)	New Britain Tap	CP No.2	66	5.16	25,000 (a)
New Britain Tap	Bristol	CP No.1	66	10.74	25,000 (a)
New Britain Tap	Bristol	CP No.2	66	10.74	25,000 (a)
Terminal (Torrington)	Bristol	CP No.1	66	15.98)	35,000 (a)
Terminal (Torrington)	Bristol	CP No.2	66	15.98)	
Terminal (Torrington)	Falls Village	CP No.1	66	20.19)	35,000 (b)
Terminal (Torrington)	Falls Village	CP No.2	66	20.19)	
Falls Village	Conn. - N.Y. State Line	E-Line	66	7.86	21,000 (b)
Tariffville	Terminal (Torrington)	CP No.5	115	23.48	25,000 (e)
Hartford	Conn. - Mass. State Line	C-3	115	27.14	45,000 (c)
Hartford	Conn. - Mass. State Line	D-4	115	27.14	45,000 (d)

The Stamford Gas & Electric Division

Stamford Plant	Stamford tap structure on railroad R/W on South St. on line owned by C.L.& P.Co.	#7400 #7500	69 69	.38 .38	18,750 (d) 18,750 (d)

THE CONNECTICUT POWER COMPANY

-2-

(a) The above kva ratings have been determined from actual operating experience on the specific lines mentioned or similar lines of the same construction. It is not contemplated that all lines shown could be simultaneously loaded to the maximum ratings shown.

The limitations are:

(1) Transformer capacity at South Meadow of 43,200 kva and at the Terminal Substation of 25,000 kva, which are not additive because of no phase angle control when CP 1 and 2 and CP 5 lines are operated as a loop; and would only be additive if the additional loads were assumed to occur at definite substations, if the lines were operated as radial feeders.

(2) Probably voltage drop. This is indeterminate unless the additional loads are assumed to occur at definite substations.

(b) The above kva ratings have been determined from actual operating experience when receiving power over these lines from New York State, namely, 21,000 kva from New York plus hydro generating at Falls Village.

(c) From Hartford the capacity is limited to transformer rating. To Massachusetts this capacity is diminished by the amount of power which may be transmitted over the CP-5 line to the Terminal Substation.

From Massachusetts the capacity might be the sum of the transformer ratings at Hartford and at the Terminal Substation, viz., 45,000 kva plus 25,000 kva, or 70,000 kva.

(d) With power in either direction, the capacity for the purpose of this report is limited to the name plate rating of the transformer.

(e) With power in either direction, the capacity is limited to the rating of the transformer, and possibly to voltage drop, depending on system conditions.

Correct as of December 31, 1942

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. Name of System. **The Torrington Electric Light Co.**

2. Names and addresses of operating companies comprising system.

None

3. Names of holding companies, if any.

None

4. Furnish maps (any convenient scale) showing: **Attached**

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction. **None**

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

MAR 29 9 17 AM '43
BOSTON MASS

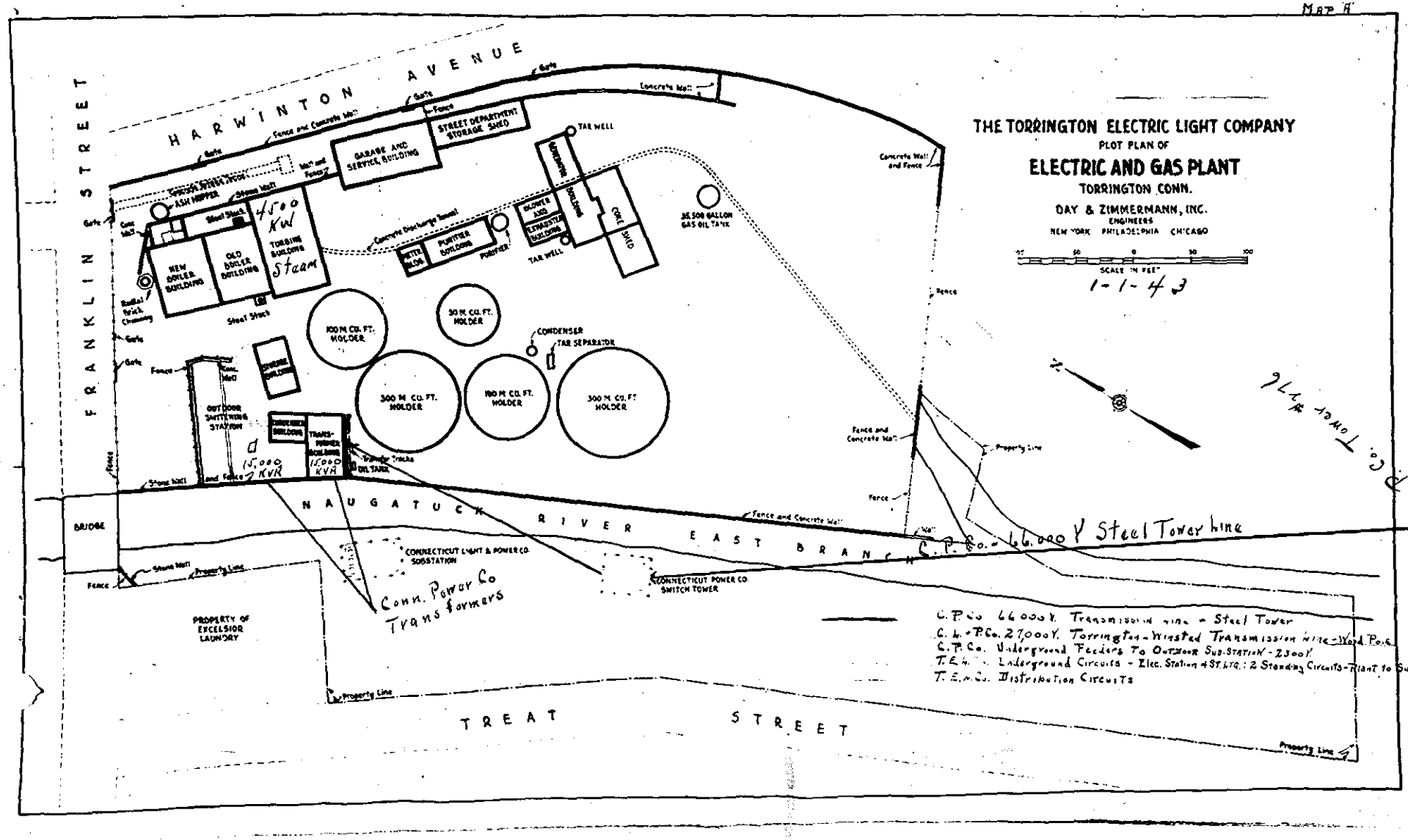
Company official to consult on Power Survey matters:

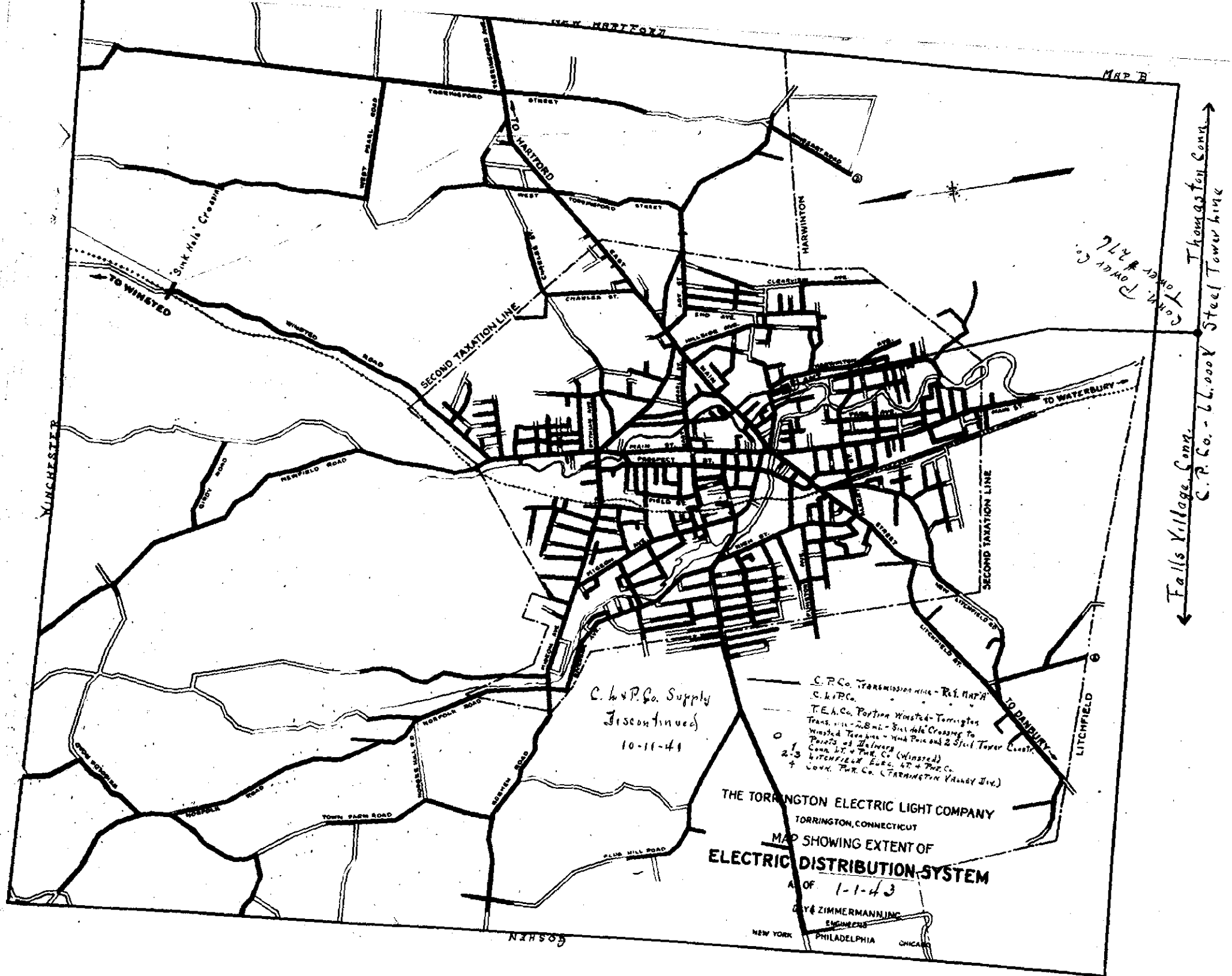
Name **Mr. C. E. Smith**

Title **Vice President**

Company **The Torrington Electric Light Co.,**
69 Water Street
Torrington, Conn.

Map A


THE TORRINGTON ELECTRIC LIGHT COMPANY
PLOT PLAN OF
ELECTRIC AND GAS PLANT
TORRINGTON CONN.
DAY & ZIMMERMANN, INC.
ENGINEERS
NEW YORK PHILADELPHIA CHICAGO
SCALE IN FEET
1-1-43
HARWINTON AVENUE
FRANKLIN STREET
TREAT STREET
NAUGATUCK RIVER
EAST BRANCH
BRIDGE
GARAGE AND SERVICE BUILDING
STREET DEPARTMENT STORAGE SHED
TAR WELL
ASH HOPPER
NEW BOILER BUILDING
OLD BOILER BUILDING
TURBINE BUILDING
4500 KW
Steam
Steel Stack
Radial Brick Chimney
Concrete Discharge Tunnel
WATER BLOW
PURIFIER BUILDING
PURIFIER
BLOWER AND EXHAUSTER BUILDING
COKE SHED
35,500 GALLON GAS OIL TANK
100 M CU. FT. HOLDER
50 M CU. FT. HOLDER
300 M CU. FT. HOLDER
150 M CU. FT. HOLDER
300 M CU. FT. HOLDER
CONDENSER
TAR SEPARATOR
OUTDOOR SWITCHING STATION
TRANSFORMER BUILDING
15,000 KVA
OIL TANK
Transfer Tracks
CONNECTICUT LIGHT & POWER CO. SUBSTATION
CONNECTICUT POWER CO. SWITCH TOWER
PROPERTY OF EXCELSIOR LAUNDRY
Conn. Power Co Transformers
C.P. Co. - 66,000 V Steel Tower line
C.P. Co. Tower #76
Thomaston, Conn.
Falls Village, Conn.
C.P. Co. - 66,000 V. Steel Tower line
C.P. Co. 66,000 V. Transmission line - Steel Tower
C.L.&P.Co. 27,000 V. Torrington-Winsted Transmission line - Wood Poles
C.P. Co. Underground Feeders To Outdoor Sub-Station - 2300 V.
T.E.L. Co. Underground Circuits - Elec. Station & St. Lts.: 2 Standby Circuits - Plant to Sub-Station
T.E.L. Co. Distribution Circuits


NEW HARTFORD
MAP B
TORRINGFORD STREET
WEST TORRINGFORD STREET
TO HARTFORD
WEST PEARL ROAD
'SINK HOLE' CROSSING
TO WINSTED
WINSTED ROAD
SECOND TAXATION LINE
HARWINTON
CLEARVIEW AVE.
END AVE.
HILLTOP AVE.
CHANDLER ST.
MAIN ST.
PROSPECT ST.
FIELD ST.
TO WATERBURY
MANCHESTER
GREEN ROAD
NEWFIELD ROAD
HIGGINS
YORK ST.
NEW LITCHFIELD ST.
LITCHFIELD ST.
TO DANBURY
LITCHFIELD
NORFOLK ROAD
NORFOLK HILL RD.
REDFIELD ROAD
TOWN FARM ROAD
PLUM HILL ROAD
GOSHEN
C. & P. Co. Supply Discontinued 10-11-41
C.P.Co. Transmission Line - R.I. Nat'l
C. & P. Co.
T.E.L.Co. Portion Winsted-Torrington Trans. line - 2.8 mi. - Sink Hole Crossing to Winsted Tap line - York Pole and 2 Steel Tower Constr.
Projects at Thomaston
Conn. L.T. & Pwr. Co. (Winsted)
Litchfield Elec. Lt. & Pwr. Co.
Conn. Pwr. Co. (Farmington Valley Div.)
THE TORRINGTON ELECTRIC LIGHT COMPANY
TORRINGTON, CONNECTICUT
MAP SHOWING EXTENT OF
ELECTRIC DISTRIBUTION SYSTEM
AS OF 1-1-43
DAY & ZIMMERMANN, INC.
ENGINEERS
NEW YORK PHILADELPHIA CHICAGO
Falls Village Conn.
C.P.Co. - 66,000 V Steel Tower Line
Thomaston Conn.
Conn. Power Co. 66 KV

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

See attached sheet

1. Name of System.

2. Names and addresses of operating companies comprising system.

3. Names of holding companies, if any.

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name A. Dw

Title **Treasurer**

Company **The United Illuminating Company**

2/2/43

Reply to

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

1. The United Illuminating Company

2. The United Illuminating Company, 80 Temple Street, New Haven, Connecticut

3. None

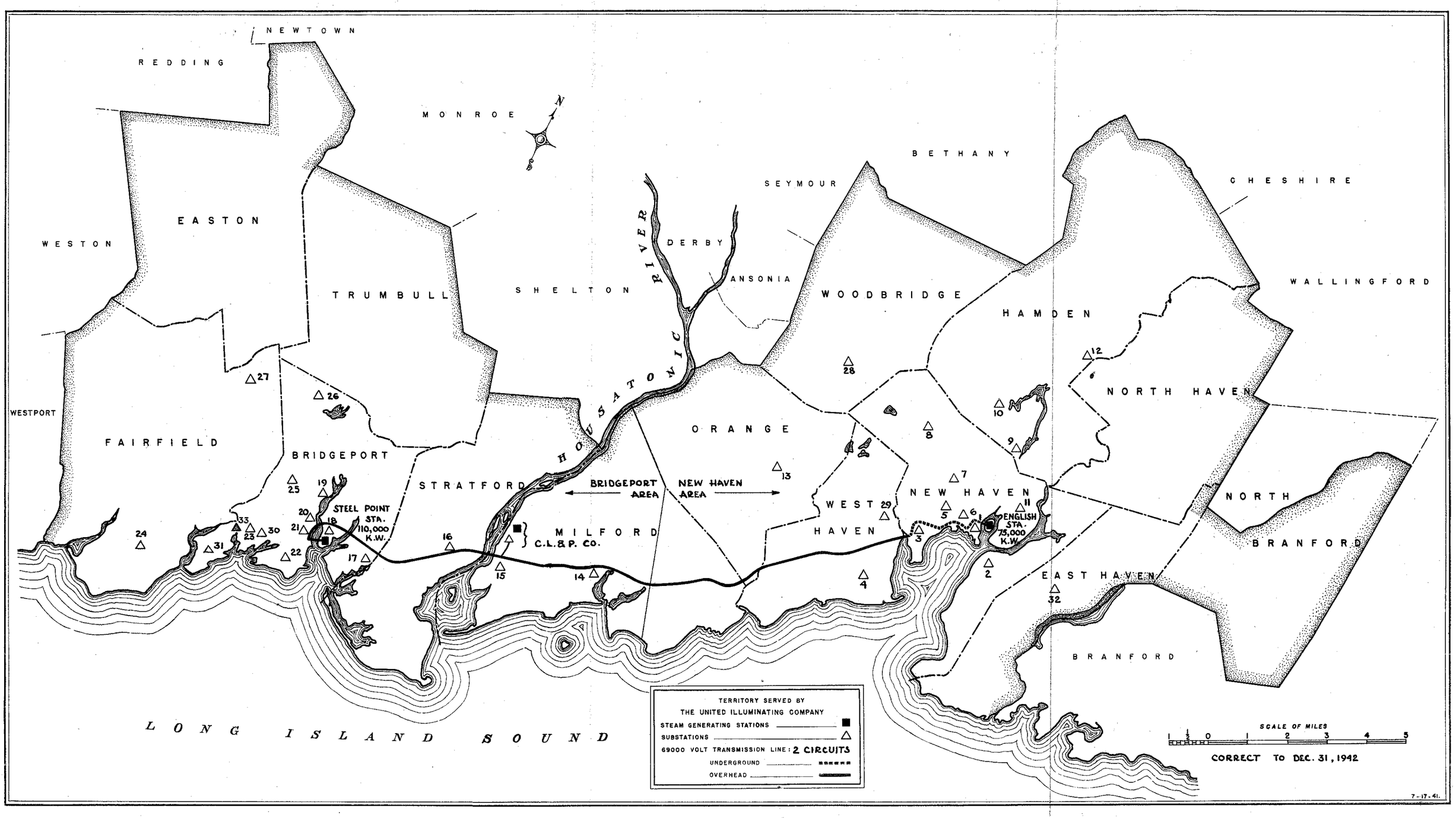
4. (a) See attached maps.

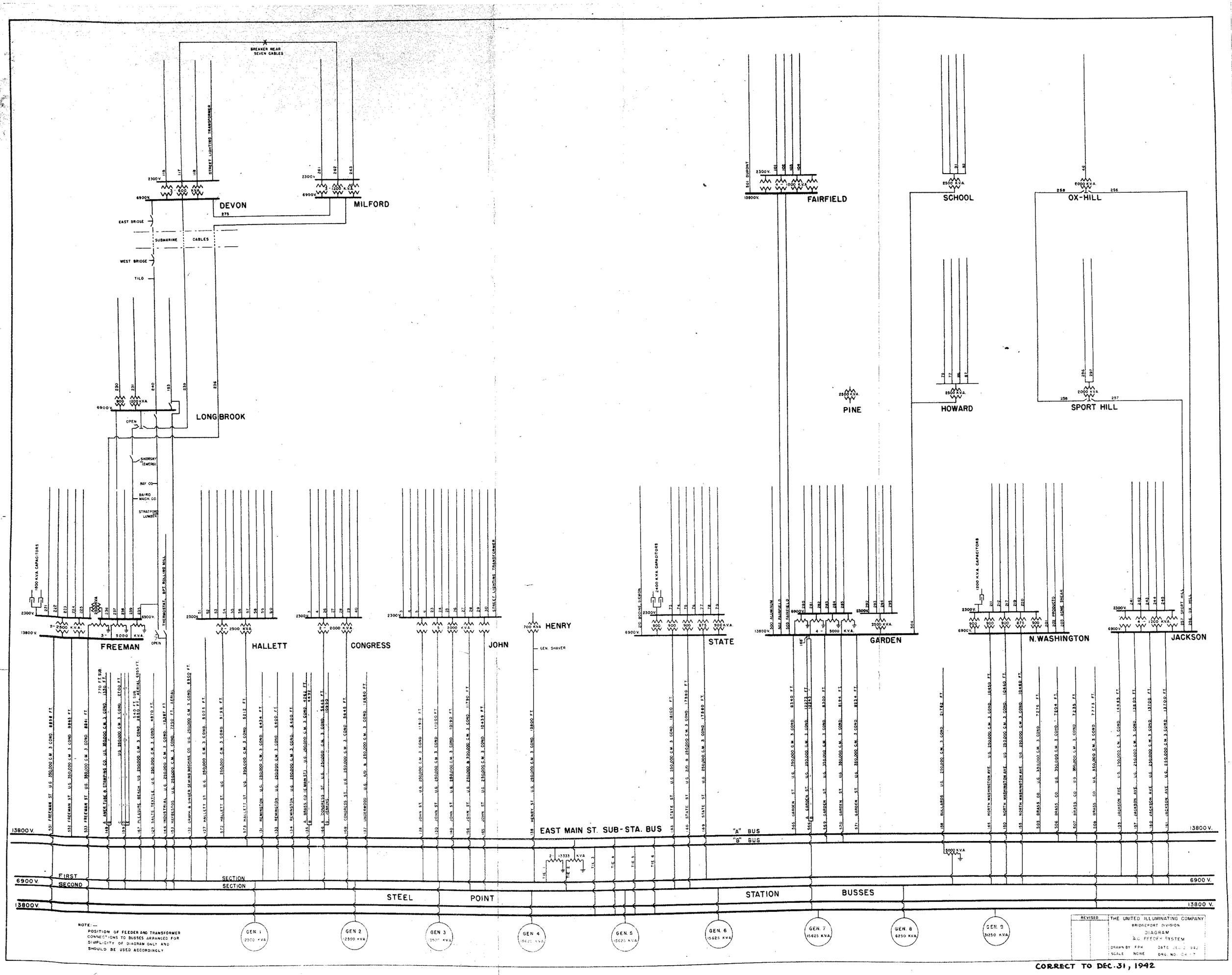
   (b) See attached maps.

   (c) An attached map shows a double circuit 69000 volt transmission line between English Station, New Haven, and Steel Point Station, Bridgeport. These are the only main power lines on our system. All other circuits are for power distribution in local New Haven and Bridgeport areas.

   (d) See attached maps. Devon connection for emergency use only and can be used to connect The United Illuminating Company 69000 volt transmission line to the 69000 volt system of Conn. Light & Power Company near their Devon generating station.
   The capacity of each line is limited by the capacity of the transformers which are connected to each end and form a part of each line. Each transformer is rated 25000 KVA continuous rating.

   (e) The following additional equipment is being put into Steel Point Station, Bridgeport: two new boilers are being installed of 150,000 lb. capacity (approximately 115,000 lb. capacity each due to temperature limitation in feed water heater). These boilers will be used to supply steam through reducing a valve to the present low pressure system and will increase the station capacity 15,000 K.W. These boilers will be placed in operation sometime in 1943.

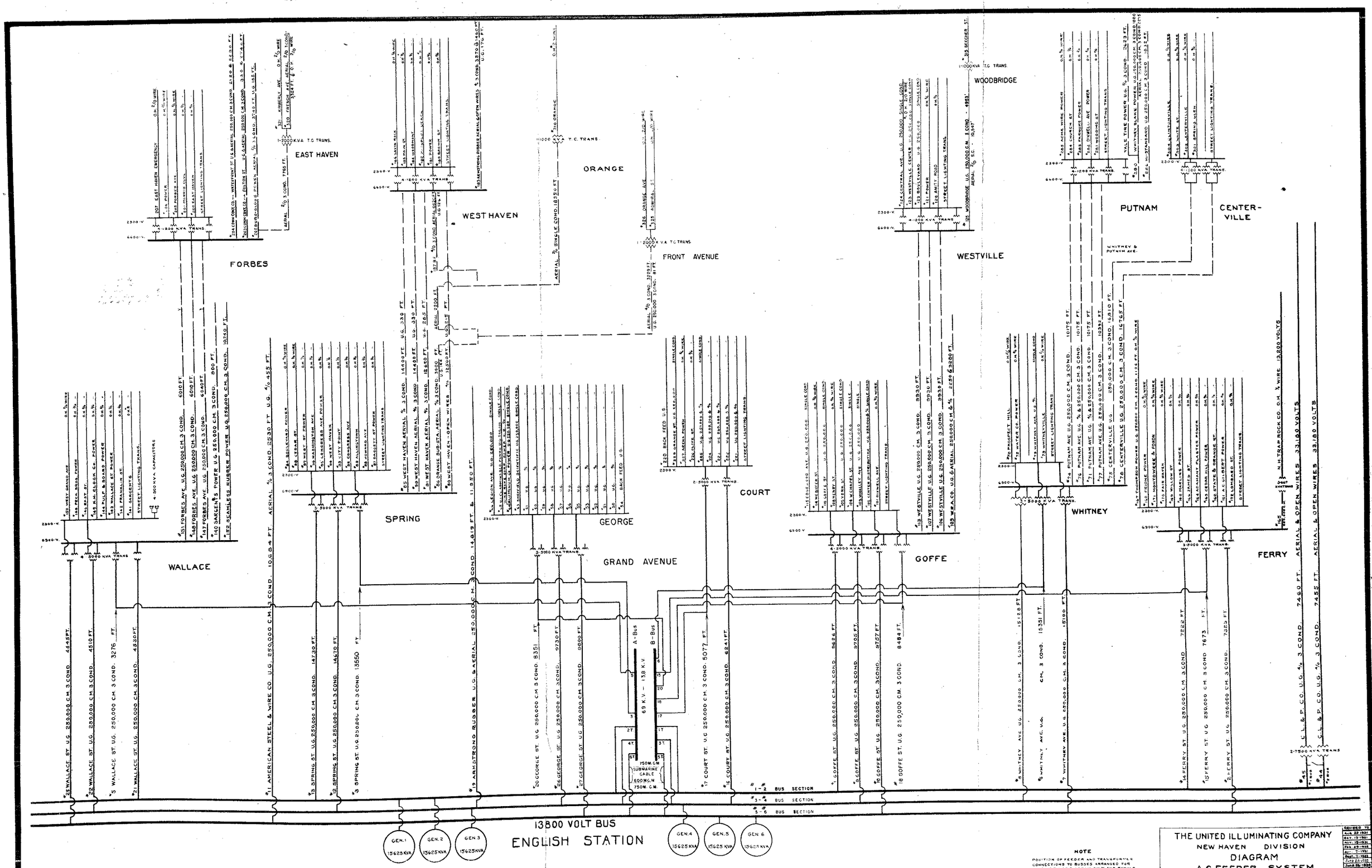

NEWTOWN
REDDING
MONROE
N
EASTON
WESTON
TRUMBULL
SHELTON
SEYMOUR
BETHANY
CHESHIRE
DERBY
ANSONIA
WOODBRIDGE
HAMDEN
WALLINGFORD
HOUSATONIC RIVER
WESTPORT
FAIRFIELD
BRIDGEPORT
STRATFORD
ORANGE
NORTH HAVEN
NORTH BRANFORD
WEST HAVEN
NEW HAVEN
EAST HAVEN
BRANFORD
BRIDGEPORT AREA
NEW HAVEN AREA
STEEL POINT STA. 110,000 K.W.
ENGLISH STA. 75,000 K.W.
MILFORD C.L.&P. CO.
LONG ISLAND SOUND
TERRITORY SERVED BY
THE UNITED ILLUMINATING COMPANY
STEAM GENERATING STATIONS
SUBSTATIONS
69000 VOLT TRANSMISSION LINE: 2 CIRCUITS
UNDERGROUND
OVERHEAD
SCALE OF MILES
1 ½ 0 1 2 3 4 5
CORRECT TO DEC. 31, 1942
7-17-41.



NOTE:—
POSITION OF FEEDER AND TRANSFORMER CONNECTIONS TO BUSSES ARRANGED FOR SIMPLICITY OF DIAGRAM ONLY AND SHOULD BE USED ACCORDINGLY

REVISED	THE UNITED ILLUMINATING COMPANY BRIDGEPORT DIVISION DIAGRAM A.C. FEEDER SYSTEM
	DRAWN BY FPH DATE JUL. 3 1942 SCALE NONE DWG. NO. [illegible]

CORRECT TO DEC. 31, 1942



NOTE

POSITION OF FEEDER AND TRANSFORMER CONNECTIONS TO BUSSES ARRANGED FOR SIMPLICITY OF DIAGRAM ONLY AND SHOULD BE USED ACCORDINGLY

THE UNITED ILLUMINATING COMPANY
NEW HAVEN DIVISION
DIAGRAM
A.C. FEEDER SYSTEM

REVISED TO	
Aug. 22 1934	June 5, 1935
Oct. 15 1934	July 15 1935
Nov. 15 1934	Aug. 22 1935
Dec. 15 1934	Sept. 7 1935
Feb. 22 1935	Oct. 21 1935
Apr. 7 1935	Nov. 20 1935
Sept. 7 1935	Dec. 4 1935
June 23 1936	Jan. 9 1936
June 26 1936	Feb. 25 1936
July 3 1936	Apr. 16 1936
Aug. 5 1936	May 13 1936
Aug. 6 1936	June 11 1936
Aug. 21 1936	July 24 1936
Sept. 1 1936	Dec. 18 1936
Sept. 15 1936	Jan. 15 1937
Oct. 1 1936	Feb. 17 1937
Nov. 12 1936	June 10 1937
July 26 1937	Sept. 28 1937
Nov. 18 1937	Dec. 16 1937
Feb. 16 1938	Jan. 19 1939
Mar. 15 1938	Feb. 17 1939
Mar. 17 1938	June 19 1939
Apr. 20 1938	Sept. 19 1939
May 31 1938	Nov. 21 1939
Aug. 1 1938	Dec. 6 1939
Aug. 6 1938	
Oct. 31 1938	
Nov. 29 1938	
Dec. 6 1938	
Dec. 14 1938	
Dec. 21 1938	
Jan. 7 1939	

CORRECT TO DEC. 31, 1942

DRAWING NO. 141-1

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 27 1 21 PM '43

BOSTON MASS

1. Name of System.

CENTRAL VERMONT PUBLIC SERVICE CORPORATION

2. Names and addresses of operating companies comprising system.

Central Vermont Public Service Corporation
121 West Street, Rutland, Vermont

3. Names of holding companies, if any.

New England Public Service Company

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name H. C. Durgin

Title **Chief Engineer**

Company **Central Vermont Public Service Corp.**

3/26/43

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 27 1 22 PM '43
BOSTON, MASS

1. Name of System. PUBLIC ELECTRIC LIGHT CO.
BURLINGTON, VT.

2. Names and addresses of operating companies comprising system.

3. Names of holding companies, if any.

4. Furnish maps (any convenient scale) showing:

   a. Areas supplied.

   b. Location and name plate capacity of principal power plants.

   c. Location and capacity, in kilowatts, of main power lines.

   d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

   e. Location and capacity of power plants and power lines under construction.

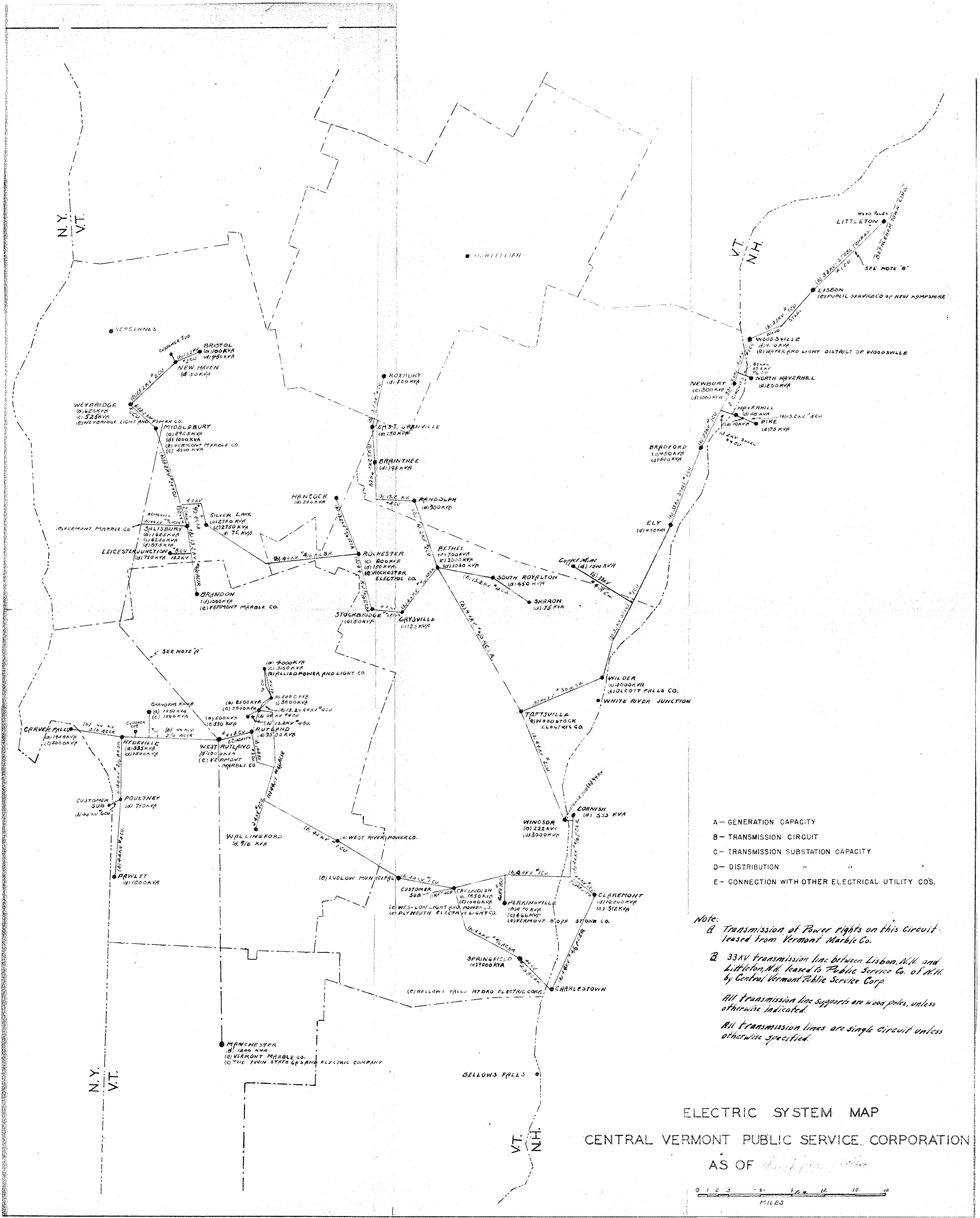
5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

Company official to consult on Power Survey matters:

Name [illegible]

Title Superintendent

Company Public Electric Light Co.


N.Y.
V.T.
V.T.
N.H.
LITTLETON
BETHLEHEM TOWN LINE
SEE NOTE "B"
LISBON
(e) PUBLIC SERVICE CO OF NEW HAMPSHIRE
WOODSVILLE
(e) WATER AND LIGHT DISTRICT OF WOODSVILLE
NORTH HAVERHILL
(d) 200 KVA
NEWBURY
(c) 300 KVA
(d) 1000 KVA
HAVERHILL
PIKE
(d) 75 KVA
BRADFORD
(c) 450 KVA
(d) 500 KVA
ELY
(d) 450 KVA
COPPER MINE
(d) 1500 KVA
MONTPELIER
VERGENNES
BRISTOL
(a) 100 KVA
(d) 450 KVA
NEW HAVEN
(d) 50 KVA
CUSTOMER SUB
WEYBRIDGE
(a) 625 KVA
(c) 525 KVA
(e) WEYBRIDGE LIGHT AND POWER CO.
MIDDLEBURY
(a) 2925 KVA
(d) 1000 KVA
(e) VERMONT MARBLE CO.
(c) 4000 KVA
ROXBURY
(d) 100 KVA
EAST GRANVILLE
(d) 150 KVA
BRAINTREE
(d) 195 KVA
RANDOLPH
(d) 900 KVA
HANCOCK
(d) 300 KVA
SILVER LAKE
(a) 2750 KVA
(c) 2750 KVA
(d) 75 KVA
(e) VERMONT MARBLE CO
SALISBURY
(a) 1625 KVA
(c) 4250 KVA
(d) 870 KVA
LEICESTER JUNCTION
(d) 750 KVA
ROCHESTER
(c) 800 KVA
(d) 150 KVA
(e) ROCHESTER ELECTRIC CO.
BETHEL
(c) 700 KVA
(c) 2000 KVA
(d) 1050 KVA
SOUTH ROYALTON
(d) 450 KVA
SHARON
(d) 75 KVA
BRANDON
(d) 1000 KVA
(e) VERMONT MARBLE CO.
STOCKBRIDGE
(d) 50 KVA
GAYSVILLE
(d) 125 KVA
SEE NOTE "A"
(a) 4000 KVA
(c) 3150 KVA
(e) ALLIED POWER AND LIGHT CO.
WILDER
(a) 4000 KVA
(e) OLCOTT FALLS CO.
WHITE RIVER JUNCTION
TAFTSVILLE
(e) WOODSTOCK ELECTRIC CO.
CARVER FALLS
HYDEVILLE
(a) 335 KVA
(d) 1500 KVA
WEST RUTLAND
(e) VERMONT MARBLE CO.
RUTLAND
(d) 7500 KVA
CUSTOMER SUB
POULTNEY
(d) 750 KVA
PAWLET
(d) 1000 KVA
WALLINGFORD
(d) 916 KVA
(e) WEST RIVER POWER CO.
(e) LUDLOW MUNICIPAL
CUSTOMER SUB
CAVENDISH
(a) 1650 KVA
(c) 1000 KVA
(e) WES-LON LIGHT AND POWER CO.
(e) PLYMOUTH ELECTRIC LIGHT CO.
PERKINSVILLE
(c) 666 KVA
(e) VERMONT SOAP STONE CO.
WINDSOR
(a) 222 KVA
(d) 3000 KVA
CORNISH
(d) 333 KVA
CLAREMONT
(d) 10,500 KVA
(a) 312 KVA
SPRINGFIELD
(d) 9000 KVA
(e) BELLOWS FALLS HYDRO ELECTRIC CORP.
CHARLESTOWN
MANCHESTER
(d) 1200 KVA
(e) VERMONT MARBLE CO.
(e) THE TWIN STATE GAS AND ELECTRIC COMPANY
BELLOWS FALLS
A — GENERATION CAPACITY
B — TRANSMISSION CIRCUIT
C — TRANSMISSION SUBSTATION CAPACITY
D — DISTRIBUTION " "
E — CONNECTION WITH OTHER ELECTRICAL UTILITY CO'S.
Note:
A Transmission of Power rights on this Circuit leased from Vermont Marble Co.
B 33KV transmission line between Lisbon, N.H. and Littleton, N.H. leased to Public Service Co. of N.H. by Central Vermont Public Service Corp.
All transmission line supports are wood poles, unless otherwise indicated.
All transmission lines are single circuit unless otherwise specified.
ELECTRIC SYSTEM MAP
CENTRAL VERMONT PUBLIC SERVICE CORPORATION
AS OF
0 1 2 3 6 9 12 15 18
MILES

ANNUAL ELECTRIC POWER SURVEY REPORT

Data as of January 1, 1943

MAR 27 1 19 PM '43
BOSTON MASS

1. Name of System.

THE TWIN STATE GAS & ELECTRIC COMPANY

2. Names and addresses of operating companies comprising system.

The Twin State Gas & Electric Company
121 West Street, Rutland, Vermont

3. Names of holding companies, if any.

New England Public Service Company

4. Furnish maps (any convenient scale) showing:

a. Areas supplied.

b. Location and name plate capacity of principal power plants.

c. Location and capacity, in kilowatts, of main power lines.

d. Location and net capacity, in kilowatts, of interconnecting points with other systems, including the names of other systems. (Note: These data should include: The location of the principal foreign interconnection points, either town or substation name; the power systems interconnected; the capacity of the interconnection; and, if practicable, the limiting factor for the capacity to transfer power, i.e., whether the capacity is limited by switches, transformers, or transmission lines.)

e. Location and capacity of power plants and power lines under construction.

5. Answers to this questionnaire should be in triplicate and be submitted not later than March 27, 1943 to the United States Engineer Office, Park Square Bldg., Boston, Mass.

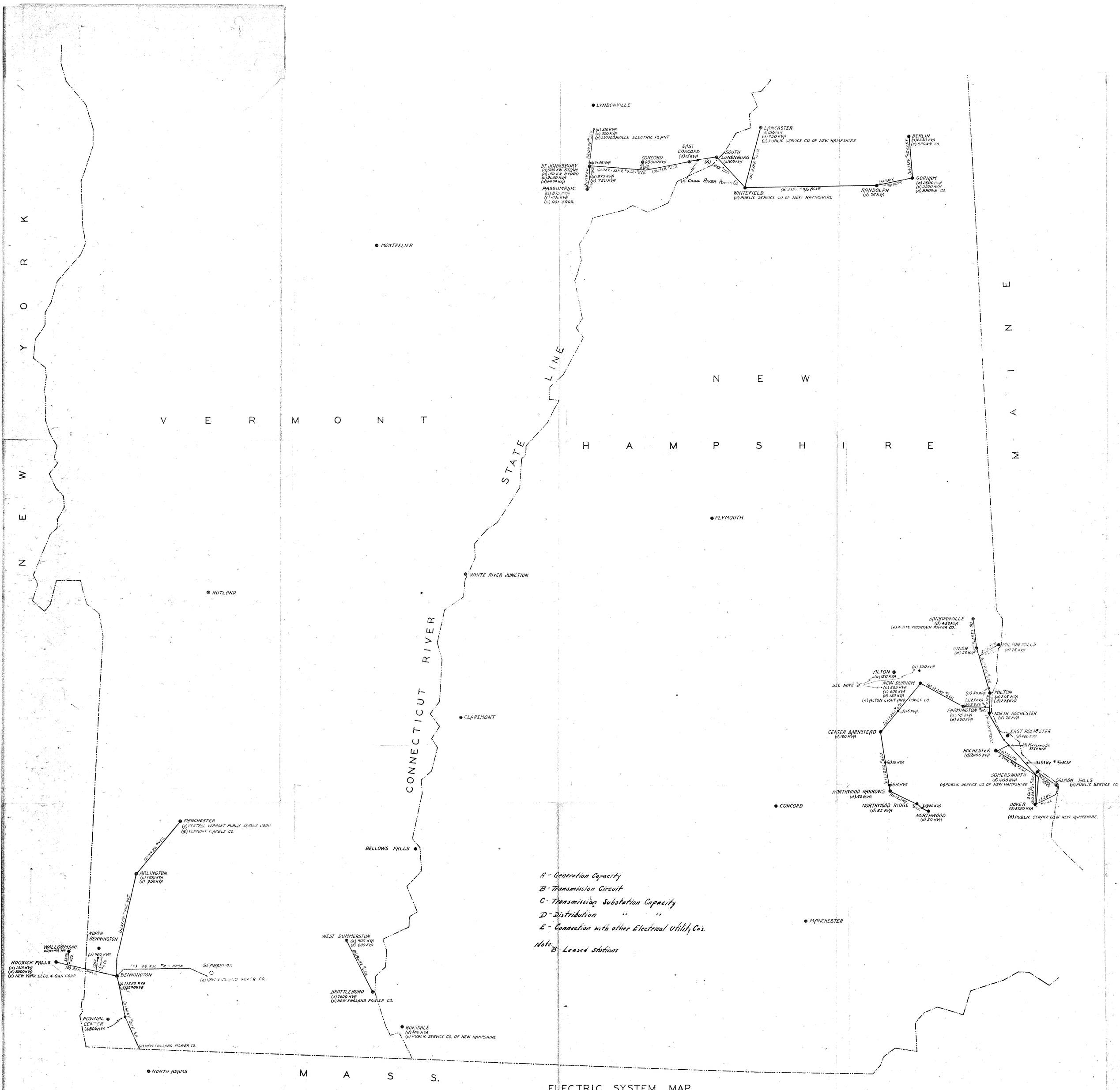
Company official to consult on Power Survey matters:

Name N. C. Durgin

Title Chief Engineer

Company The Twin State Gas & Electric Company

3/26/43



ELECTRIC SYSTEM MAP

THE TWIN STATE GAS AND ELECTRIC COMPANY

AS OF March 1, 1943