

**LEGEND:**

- P134 LINE: - - -
- P134 STR: 53

**EVERSOURCE ENERGY**

P134 115kV LINE  
 MERRIMACK RIVER, LOCATION PLAN  
 NASHUA / HUDSON, NEW HAMPSHIRE  
 EXHIBIT 1

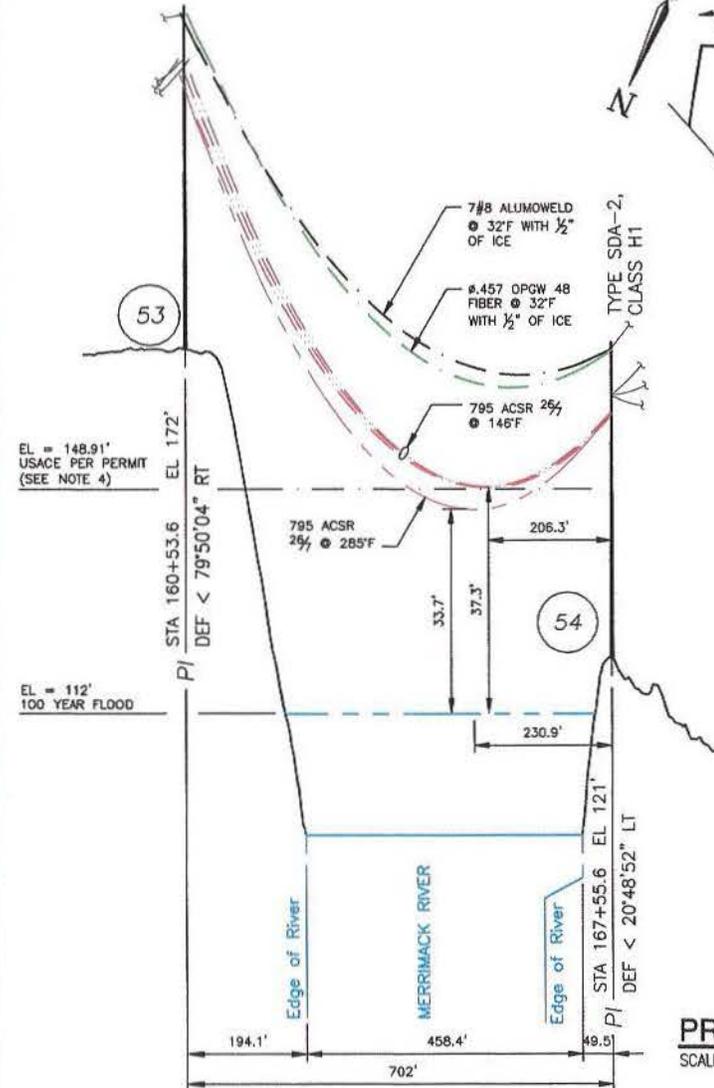
T	1
DRAWN GBS	
ENGINEER JRS	
CHECKED SDR	
APPROVED JRS	
DATE 06/23/20	

DWG REV	EPN/DESCRIPTION	CONT/PE	DATE	DRN	CHKD	APPR
1	ISSUED FOR PERMITTING TO NHPUC		06/20	GBS	SDR	JRS

SCALE: 1" = 1500'  
 FILE: P13443901.DWG  
 IMAGE:

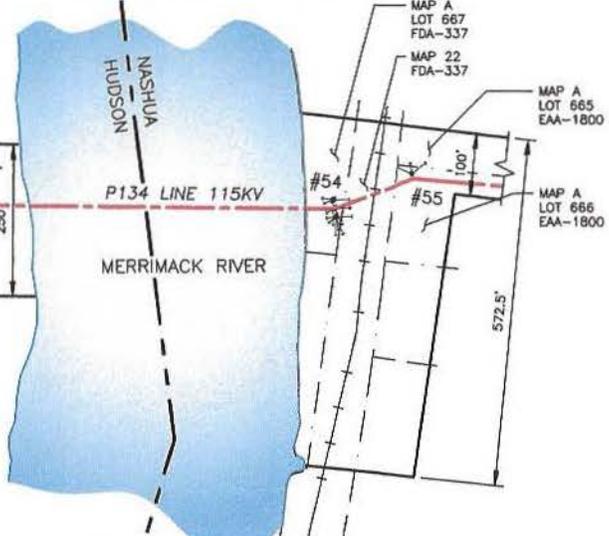
DRAWING NO.  
**P13443901**

TYPE SDA-2,  
CLASS H1



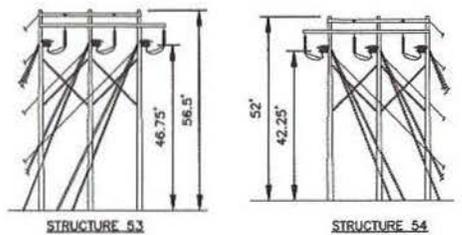
**PROFILE VIEW**

SCALE: HORIZ 1" = 200'  
VERT 1" = 20'



**PLAN VIEW**

SCALE: 1" = 200'



**STRUCTURE DETAIL**

SCALE: NTS

**LEGEND:**

- #53 STRUCTURE, WITH GUYS
- RAILROAD (SHOWING LIMITS OF ROW)
- EDGE OF RIVER
- TOWN BOUNDARY
- PROPERTY BOUNDARY
- LIMITS OF EVERSOURCE RIGHT OF WAY

**NOTES:**

1. PARCEL DATA PROVIDED BY NH GRANIT.
2. ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. 100 YEAR FLOOD ELEVATION FROM THE FEMA FLOOD MAP SERVICE CENTER, NATIONAL FLOOD HAZARD LAYER FIRMETTE, 01/31/2020.
4. ARMY CORPS OF ENGINEERS PERMIT NAE-2010-02435, JANUARY 30, 2012.

STRUCTURE LOCATION		
STRUCTURE	LONGITUDE	LATITUDE
53	-71.43710560	42.73888379
54	-71.43955568	42.73813073

NESC VERTICAL CLEARANCE (FT) FROM TABLE 232.1, C2-2012	
NATURE OF SURFACE UNDERNEATH WIRES, CONDUCTORS OR CABLES	115KV
WATER AREAS SUITABLE FOR SAIL BOATING INCLUDING RIVERS, OVER 20 TO 200 ACRES	30.1

CABLE SCHEDULE						
WIRE	QTY OF CABLES	DESCRIPTION	DESIGN CONDITIONS			
			MAX DESIGN TENSION (lb)	TEMP (°F)	ICE (in)	WIND (psf)
CONDUCTOR	3	ACSR, 795 kernil 26/7, DRAKE	4800	0	0.5	4
STATIC	1	7 No. 8 AW	3200	0	0.5	4
OPGW	1	48F #0.457 AFL CC-27/33/457	3000	0	0.5	4

DWG REV	DATE	BY	CHKD	APPD
2	08/20	GBS	SDR	JRS
1	06/20	GBS	SDR	JRS

EVERSOURCE ENERGY

P134, 115kV LINE  
MERRIMACK RIVER, PUBLIC WATER CROSSING  
NASHUA / HUDSON, NEW HAMPSHIRE  
PLAN AND PROFILE EXHIBIT 2

SCALE AS SHOWN	DRAWING NO. P13443901
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P131

# Appendix I

GCA-166

D-25775

## PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE

Petition for a license to construct and maintain transmission lines over and across the Merrimack River in the Town of Hudson and City of Nashua.

..00..

C O M M I S S I O N E R S 7846

WHEREAS, by petition filed December 4, 1969, Public Service Company of New Hampshire seeks a license, pursuant to RSA 371:17 and 20 (Supp.), to construct and maintain electric transmission lines over and across the Merrimack River in the Town of Hudson and City of Nashua; and

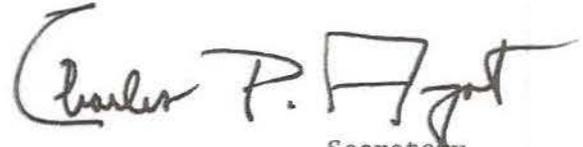
WHEREAS, the petitioner represents that the proposed construction will cross approximately four hundred fifty-seven (457) feet of said River at a point approximately three thousand five hundred (3,500) feet southerly of the Nashua Sewage Disposal Plant, and will consist of a 115 KV electric transmission line of wires and cables for the purpose of serving increased loads in the southern part of the City of Nashua, and to provide an alternate source of power for the continuity of such service; and

WHEREAS, following due notice, no other interested parties offering objection to the proposed construction, and, upon investigation and consideration, this Commission finds that the proposed construction is necessary in order to meet the reasonable requirements of service to the public, and that the license sought therein may be exercised without substantially affecting the public rights in the waters crossed; it is

ORDERED, that a license be, and hereby is, granted to the Public Service Company of New Hampshire to construct and maintain electric transmission lines over and across approximately four hundred fifty-seven (457)

feet of the Merrimack River in the Town of Hudson and City of Nashua, all in accordance with a plan submitted with the petition, and on file in the office of this Commission.

By order of the Public Utilities Commission of New Hampshire  
this thirtieth day of December, 1969.

  
Secretary

THE STATE OF NEW HAMPSHIRE

PUBLIC UTILITIES COMMISSION

Petition of Public Service Company of New Hampshire under RSA 371:17-20 as amended by c. 21, Laws of 1967, for license to construct and maintain an electric line over and across the Merrimack River in the town of Hudson and the City of Nashua, New Hampshire.

TO THE PUBLIC UTILITIES COMMISSION:

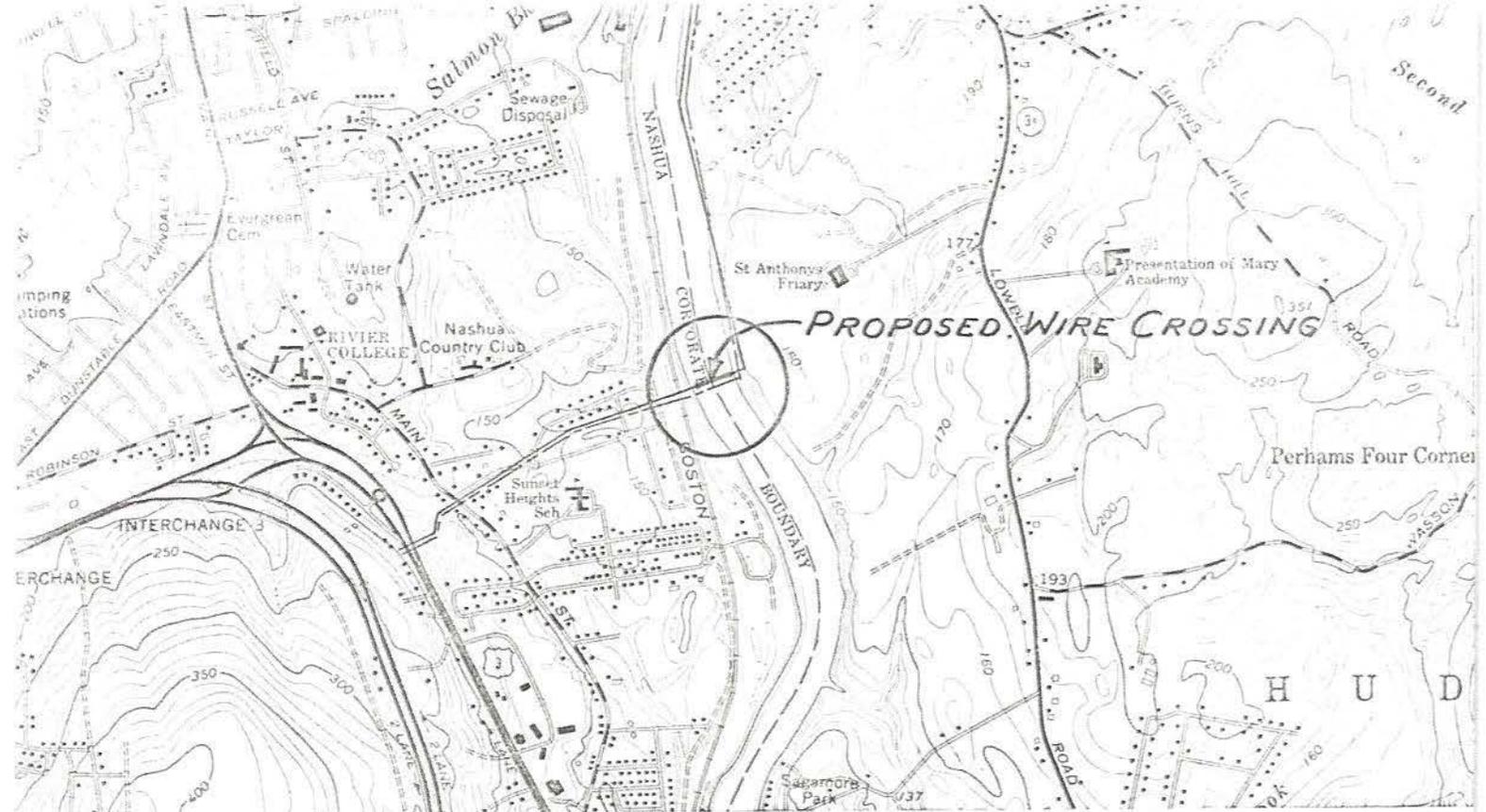
Public Service Company of New Hampshire, a corporation duly organized and existing under the laws of The State of New Hampshire and engaged in the generation, transmission and sale of electric energy in said State (hereinafter called the Petitioner), respectfully represents as follows:

(1) That in order to meet the reasonable requirements of service to the public it is necessary for the Petitioner to construct a 115 KV electric transmission line of wires and cables over and across the Merrimack River in the town of Hudson and the City of Nashua, New Hampshire.

(2) That the transmission line is necessary to serve increased loads in the southern part of Nashua which are presently served at 34.5 KV and to provide an alternative source of power for continuity of service in the southern part of Nashua.

(3) That the location of the crossing is approximately three thousand five hundred (3,500) feet southerly of the Nashua Sewage Disposal Plant as shown on a print of a U.S.G.S. map entitled "Proposed 115 KV Water Crossing Merrimack River Hudson & Nashua, N. H. December, 1969" attached hereto as Exhibit 1. The construction is as shown on a plan entitled "115 KV Line Crossing Merrimack River Hudson & Nashua, N. H." Public Service Company of





**PROPOSED WIRE CROSSING**

**LEGEND**

- WIRE CROSSING
- HUDSON-LONG HILL 115KV LINE
- - - EXISTING 34.5KV LINE



**EXHIBIT 1**

**PROPOSED 115 KV WATER CROSSING  
MERRIMACK RIVER  
HUDSON & NASHUA, N. H.  
DECEMBER, 1969**

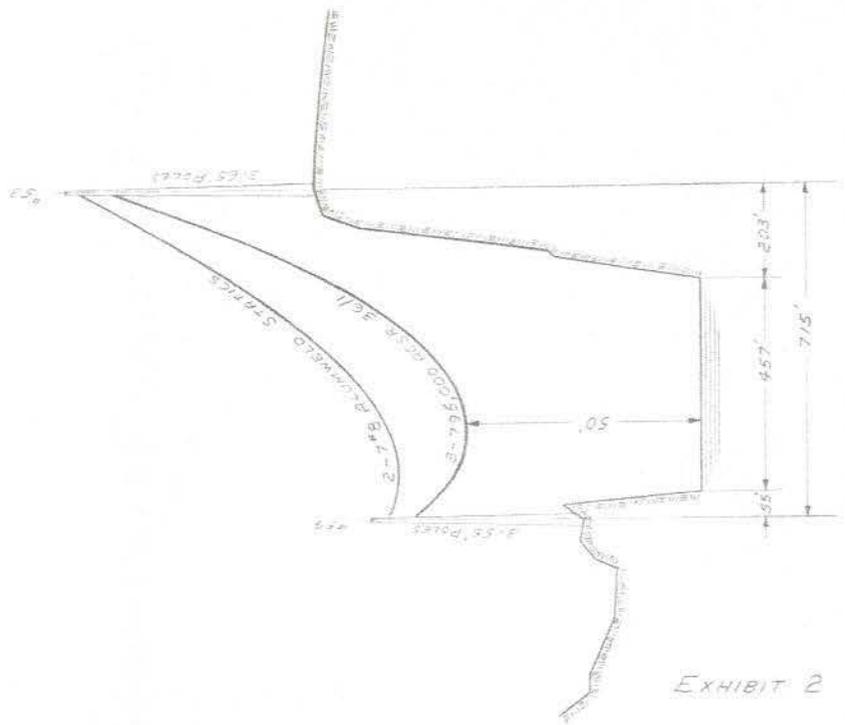
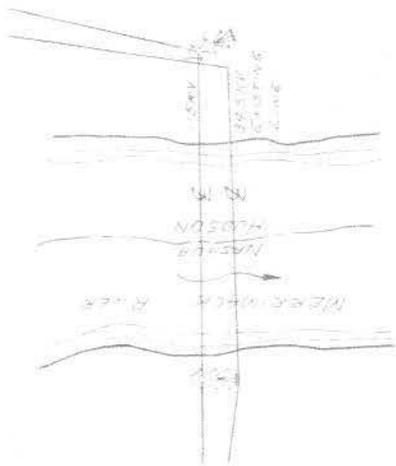


EXHIBIT 2

NO.	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			

115 KV LINE CROSSING  
 MERRIMACK RIVER  
 HUDSON & NASHUA, N.H.  
 PUBLIC SERVICE CO. OF NEW HAMPSHIRE  
 ENGINEERING DEPARTMENT  
 1100 VICTORY ROAD, CONCORD, N.H.  
 B-7649-77

RECD JAN 8 1970

State of New Hampshire

PUBLIC UTILITIES COMMISSION  
26 PLEASANT STREET  
CONCORD  
03301  
TELEPHONE AREA CODE 603  
271-2452

GERARD O. BERGEVIN  
COMMISSIONER  
EDMUND L. BARKER  
CHIEF ENGINEER  
WINSLOW E. MELVIN  
TRANSPORTATION DIRECTOR  
JOHN W. MCKEE  
FINANCE DIRECTOR



FRANCIS J. RIORDAN  
CHAIRMAN

THOMAS A. POWER  
COMMISSIONER  
CHARLES P. AMYOT  
SECRETARY  
DAISY Y. JEWELL  
ASSISTANT SECRETARY  
JAMES E. STOCKLEY  
RATE ENGINEER

December 30, 1969

Russell A. Winslow, Staff Attorney  
Public Service Company of New Hampshire  
1087 Elm Street  
Manchester, New Hampshire 03105

Dear Sir: *Russell*;

D-E5775 Public Service Company of New Hampshire.  
Petition for a license to construct and  
maintain transmission lines over and  
across the Merrimack River in the Town  
of Hudson and City of Nashua.

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We are enclosing copy of Order No. 9846 issued by the  
Commission in connection with the above entitled matter.

Very truly yours,

N. H. PUBLIC UTILITIES COMMISSION

*Charles P. Amyot*  
Secretary

b  
Enc.



December 3, 1969

The State of New Hampshire  
Public Utilities Commission  
26 Pleasant Street  
Concord, New Hampshire 03301

Attention: Mr. Charles P. Amyot, Secretary

Re: Water Crossing  
Merrimack River  
Hudson and Nashua, N. H.

Gentlemen:

Enclosed in quadruplicate is a petition by Public Service Company of New Hampshire for a license under RSA 371:17 to construct a 115 KV transmission line across the waters of the Merrimack River in Hudson and Nashua, New Hampshire.

The proposed line is planned to provide for a growing load in the southern part of Nashua and to provide an alternative source for that area. It is proposed to be located directly north of the existing 34.5 KV line which serves the southern part of Nashua.

We respectfully request that this license be granted without the necessity of a hearing, pursuant to RSA 371:20, as amended by 1967 Session Laws, Chapter 21.

Very truly yours,

Russell A. Winslow  
Staff Attorney

RAW:jz  
Enc. (4)

# Appendix II



DEPARTMENT OF THE ARMY  
NEW ENGLAND DISTRICT, CORPS OF ENGINEERS  
696 VIRGINIA ROAD  
CONCORD, MASSACHUSETTS 01742-2751  
January 30, 2012

REPLY TO  
ATTENTION OF  
Regulatory Division  
CENAE-R-PEC  
Permit Number: NAE-2010-02435

Public Service of New Hampshire (PSNH)  
Attn: Mr. Hutton Snow  
780 North Commercial Street  
Manchester, New Hampshire 03101

Dear Mr. Snow:

This is to inform you that, in accordance with your recent request, Department of the Army general permit authorization No. NAE-2010-02435, which the Corps of Engineers confirmed in our letter of June 15, 2011, is hereby modified to delete Permit Special Condition No. 1 as stated in our June 15, 2011 letter and replace it with the following:

**Special Condition No. 1.** Wires at the aerial crossing of the Merrimack River located in the vicinity of the following New Hampshire State Plane Coordinate pair, on the 1983 North American Datum (NAD 1983), 120252.9368 N and 1034206.2354 E, at no time and under no circumstances shall be lower than the elevations specified in the following sentences. Electric power lines transmitting 115 kV and below shall be no lower than Elevation 148.91 Feet on the North American Vertical Datum of 1988 (NAVD88). The corresponding elevation on the National Geodetic Vertical Datum (NGVD) is Elevation 149.6 Feet NGVD. Electric power lines transmitting 345 kV shall be no lower than Elevation 158.91 Feet NAVD88, which corresponds to Elevation 159.6 Feet NGVD. Communication and other aerial wires shall be no lower than Elevation 138.91 Feet NAVD88, which corresponds to Elevation 139.6 Feet NGVD.

All other terms and conditions of the original authorization remain in full force and effect.

If you have questions concerning this, please contact Paul F. Howard, P.E. of my staff at (978) 318-8674, (978) 318-8335/8338, (800) 343-4789, or, if calling from within Massachusetts, (800) 362-4367.

Sincerely,

  
Frank J. Delgiudice  
Chief, Permits & Enforcement Branch  
Regulatory Division

Copy Furnished:  
New Hampshire Department of Environmental Services, Wetlands Bureau, Attn: Mr. Collis Adams, P.O.  
Box 95, 29 Hazen Drive, Concord, New Hampshire 03302-0095