



Public Facilities Committee Agenda

City of Newton In City Council

Tuesday, September 5, 2017

Room 204, 7:15 PM

Items Scheduled for Discussion:

Public hearing

#252-17 Verizon petition for grant of location on Christina Street

VERIZON petition for a grant of location to install pole #604/0 with guy and anchor at the corner of Needham and Christina Street and install pole #604/5-1 with guy and anchor on the northerly side, 40' northerly of pole #604/5. [(Ward 5) 07/05/2016 @ 4:33 PM]

#254-17 Verizon petition for grant of location on Christina Street

VERIZON petition for a grant of location to relocate five poles (#604/1, #604/2, #604/3, #604/4 and #604/5) laterally in a southerly direction on Christina Street. [(Ward 5) 07/05/2016 @ 4:33 PM]

Public hearing

#253-17 Verizon petition for grant of location on Needham Street

VERIZON petition for a grant of location to install 22' ± of conduit in Needham Street southwesterly from Manhole # 47/301 thence turning northwesterly to proposed relocated Pole #113/31 across from 300 Needham Street and to install 90' of conduit southwesterly in Needham Street from Manhole # 47/301 thence turning northwesterly on to Oak Street to proposed relocated Pole #25/1 on Oak Street.

#277-17 Mayor's re-appointment of Seth Parker to the Solid Waste Commission

SETH PARKER, 26 Shornecliffe Road, Newton, re-appointed as a member of the SOLID WASTE COMMISSION for a term to expire September 30, 2020. (60 DAYS 11/4/17) [08/09/17 @ 11:18 AM]

Respectfully submitted,

Deborah J. Crossley, Chair

The location of this meeting is accessible and reasonable accommodations will be provided to persons with disabilities who require assistance. If you need a reasonable accommodation, please contact the city of Newton's ADA Coordinator, Jini Fairley, at least two business days in advance of the meeting: jfairley@newtonma.gov or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.

252-17
254-17

RECEIVED
Newton City Clerk

CITY OF NEWTON
MASSACHUSETTS

2017 AUG -8 AM 10: 22

David A. Olson, CMC
Newton, MA 02459

PETITION for GRANT OF LOCATION

To the Petitioner:

City of Newton Ordinance Section 23-5 requires that each petition for grant of location be submitted to the City Council before it is sent to the Public Works Department for a preliminary review. The comments of the Public Works Commissioner will be part of the record submitted to the City Council. Upon filing with the City Council, the petition will be scheduled for a public hearing before the Public Facilities Committee of the City Council. The petitioner is responsible for insuring that the petition is complete and all required materials are in order for review. Attached please find the City Engineer's Standard Requirements for Plans and the Department of Public Works Permit Processing brochure.

Grant of Location Process:

1. Applicant submits completed Petition Form and required materials to the City Council
2. Public Works Department conducts preliminary review and gives written comments to the applicant
3. Engineering Division files Petition Form with comments with the Clerk of the City Council
4. City Council schedules petition for a public hearing before the Public Facilities Committee of the City Council
5. Public Facilities Committee recommendations are forwarded to the City Council for a final decision

Questions may be directed to:

Lou Taverna, City Engineer, 617-796-1020
City Council Office, 617-796-1210

I. IDENTIFICATION (Please Type or Print Clearly)

Company Name VERIZON NEW ENGLAND Inc.

Address 125 HIGH ST. OLIVER TOWER FLOOR 07 BOSTON, MA 02110

E. EVERETTE BRYAN, SR/WA - VERIZON 40 EDS, 55 RIVERDALE AVE., BRADFORD, MA 01835

Phone Number 781-307-5286

Fax Number 978-521-4419

Contact Person EVERETTE BRYAN

Title RIGHTS OF WAY ENGINEER

Signature *Everette Bryan*
Person filing application

Date 8/7/2017

If a telecommunications company, indicate how certified by the Department of Telecommunications and Energy:

II. DESCRIPTION OF PROJECT: to be completed by petitioner

A. Write here or attach a description of the project including, location, proposed time frame for completion, type of materials to be used, benefit provided to the City, project mitigation plan as applicable, street reconstruction plan including timetable for completion.

see attached.

B. Include or attach a sketch to provide a visual description of the project. If plans are attached, provide:
Title of Plan _____ Date of plan _____

III. PUBLIC WORKS DEPARTMENT REVIEW

Date received by Public Works Department AUG 29, 2017

Check One:

Minor Project

Major Project

Lateral

(Refer to City Engineer Standard Requirements for Plans for definition of minor and major project)

Plans Submitted:

Certified Plot Plan

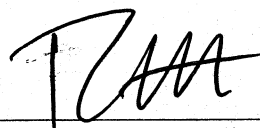
Stamped Plans

DATE AND COMMENTS:

RECOMMENDATIONS:

These relocations are related to the reconstruction and need to be performed prior to any road work. All restoration will follow roadway improvements	John Dyer Associate City Engineer AUG 29, 2017

V. RECOMMENDATION TO PUBLIC FACILITIES COMMITTEE:


Commissioner, Public Works

8/29/17
Date

PETITION FOR JOINT OR IDENTICAL POLE LOCATIONS

Aug. 4. 2017

To City Council
of Newton, Massachusetts.

VERIZON NEW ENGLAND INC. and EVERSOURCE ENERGY d/b/a NSTAR ELECTRIC request permission to locate poles, wires, cables and fixtures, including anchors, guys and other such necessary sustaining and protecting fixtures, along and across the following public way or ways:-

CHRISTINA STREET: Place one (1) Jointly-Owned Pole # 604/0 on southerly side at intersection with Needham St.;

Place one (1) Jointly-Owned Pole #604/5-1 on Northerly side approx.. 40 ft. northerly of existing Jointly-Owned Pole # 604/5

Wherefore they pray that after due notice and hearing as provided by law, they be granted joint or identical locations for and permission to erect and maintain poles, wires and cables, together with anchors, guys and other such sustaining and protecting fixtures as they may find necessary, said poles to be erected substantially in accordance with the plan filed herewith marked – **Verizon N. E. Inc.**, No. P-2017-4A0CE9R-2, Dated July 27, 2017.

Also for permission to lay and maintain underground laterals, cables and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each of said petitioners may desire for distributing purposes.

Your petitioners agree to reserve space for one crossarm at a suitable point on each of said poles for the fire and police telephone and telegraph signal wires belonging to the municipality and used by it exclusively for municipal purposes.

VERIZON NEW ENGLAND INC.

Everette Bryan

By: _____
E. Everette Bryan, Rights of Way Engineer

EVERSOURCE ENERGY d/b/a NSTAR ELECTRIC

By : _____

8-1-73

ORDER FOR JOINT OR IDENTICAL POLE LOCATIONS

In City Council

of the City of Newton, Massachusetts

Notice having been given and a public hearing held, as provided by law.

IT IS HEREBY ORDERED:

that the **VERIZON NEW ENGLAND INC.** and **EVERSOURCE ENERGY d/b/a NSTAR ELECTRIC** be and they are hereby granted a joint location for and permission to erect and maintain poles and their respective wires and cables to be placed thereon, together with anchors, guys and other such sustaining and protecting fixtures as said Companies may deem necessary, in the public way or ways hereinafter referred to as requested in petition of said Companies dated the 27TH day of July, 2017.

All construction under this order shall be in accordance with the following conditions: - Poles shall be of sound timber, and reasonably straight and shall be set substantially at the points indicated upon the plan marked - **VERIZON NEW ENGLAND INC.**, No.P2017-4A0CE9R-2, Dated July 27th, 2017 - filed with said petition.

There may be attached to said poles by said **VERIZON NEW ENGLAND INC.** not to exceed 20 wires and 8 cables and by said **EVERSOURCE ENERGY d/b/a NSTAR ELECTRIC** such cables, wires and fixtures as are necessary in its business and all of said wires and cables shall be placed at a height of not less than 16 feet from the ground at highway crossings, and not less than 14 feet from the ground elsewhere.

The following are the public ways or parts of ways along which the poles above referred to may be erected, and the number of poles which may be erected thereon under this order:-

CHRISTINA STREET: Place one (1) Jointly-Owned Pole # 604/0 on southerly side at intersection with Needham St.;
Place one (1) Jointly-Owned Pole #604/5-1 on Northerly side approx.. 40 ft. northerly of existing Jointly-Owned Pole # 604/5

Also that permission be and hereby is granted to each of said Companies to lay and maintain underground laterals, cables and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as each may desire for distributing purposes.

I hereby certify that the foregoing order was adopted at a meeting of the City Council of he City of Newton, Massachusetts, held on the _____ day of _____, 2017.

Clerk, City Council: _____

I hereby certify that on _____, 2017, at ___ o'clock ___ M., at _____ a public hearing was held on the petition of the **VERIZON NEW ENGLAND INC.** and **EVERSOURCE ENERGY d/b/a NSTAR ELECTRIC** for permission to erect the poles, wires, cables, fixtures and connections described in the order herewith recorded, and that we mailed at least seven days before said hearing a written notice of the time and place of said hearing to each of the owners of real estate (as determined by the last preceding assessment for taxation) along the ways or parts of ways upon which the Companies are permitted to erect poles, wires, cables, fixtures and connections under said order. And that thereupon said order was duly adopted.

Clerk, City Council

CERTIFICATE

I hereby certify that the foregoing is a true copy of a joint location order and certificate of hearing with notice adopted by the Town Council the City of Newton, Massachusetts, on the _____ day of _____, 2017 and recorded with the records of location orders of said City, Book _____ Page _____. This certified copy is made under the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:

Clerk, City Council

252-17/254-17

**PETITION PLAN
VERIZON NEW ENGLAND INC**

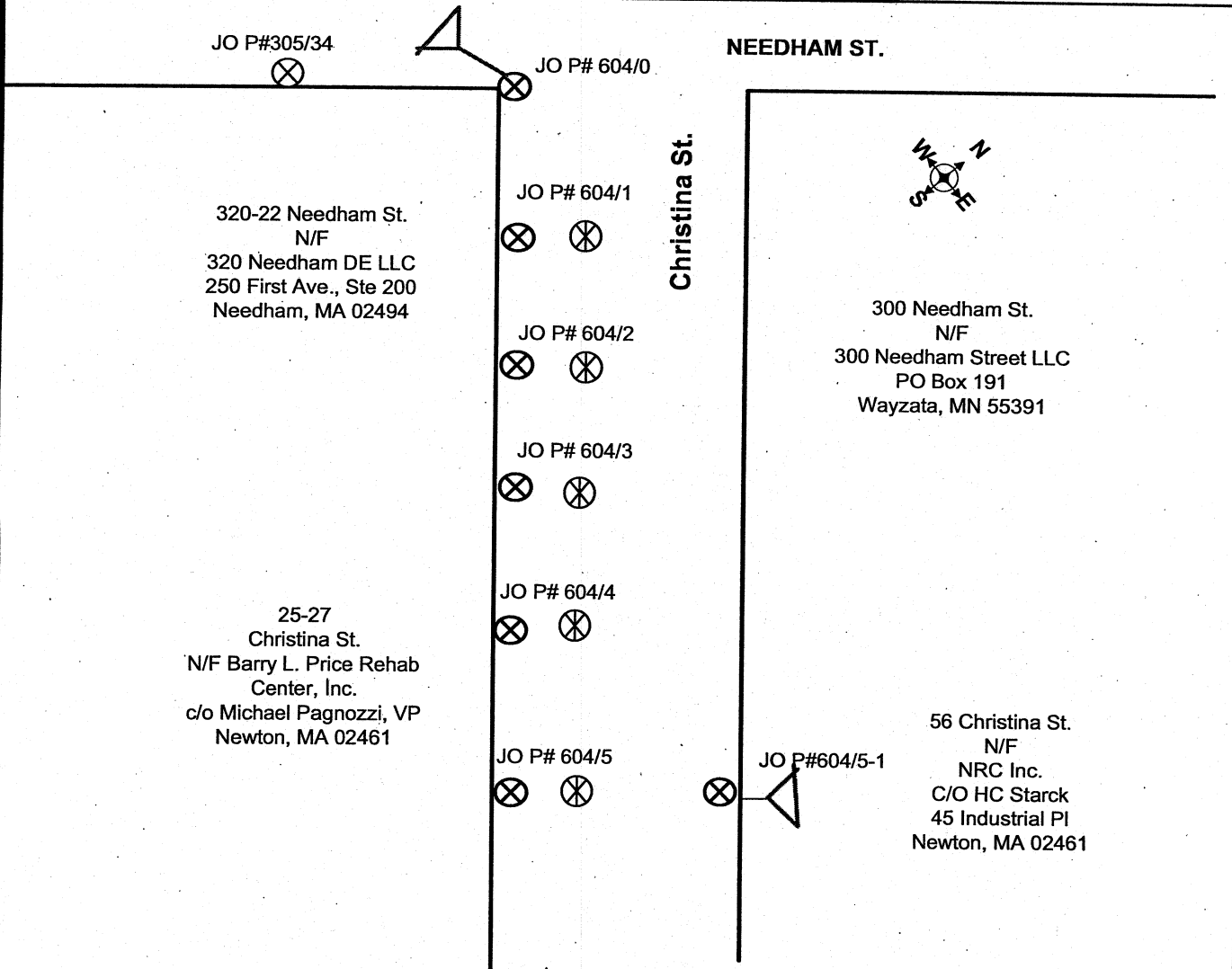
Municipality: Newton, Massachusetts

No. P2017-4A0CE9R-2

Electric-Power Co.: Eversource Energy d/b/a Nstar Electric

Date: July 27, 2017

Showing: Proposed Jointly-Owned Pole Locations Related to MADOT Project 608137



Prepared By: E. Bryan, R/W Eng.

LEGEND

Checked By: S. Matys, Eng.

- | | | | |
|--|--|--|--|
| | - Existing J.O. Pole to Remain* | | - Proposed J.O. Pole Location* |
| | - Existing Verizon N.E. Inc. S.O. Pole to Remain** | | - Proposed Verizon N.E. Inc. S.O. Pole Location** |
| | - Existing Verizon N.E. Inc. Location to be Held Jointly | | - Existing Power Co. Location to be Held Jointly |
| | - Existing Verizon N.E. Inc. Pole Location to be Abandoned | | - Proposed Anchor/Guy |
| | - Fence | | - Existing J.O. Pole Location to be Abandoned* |
| | - Existing Verizon N.E. Inc. Manhole | | - Proposed Verizon N.E. Inc. Manhole Location |
| | - Existing Verizon N.E. Inc. Buried Cable | | - Proposed Verizon N.E. Inc. Conduit Location |
| | - Existing Verizon N.E. Inc. Conduit | | - Proposed Verizon N.E. Inc. Buried Cable Location |

*J.O. indicates Poles Jointly-Owned by Verizon N.E., Inc. & Power Co.
**S.O. indicates Poles Solely-Owned by Verizon N.E., Inc. or Power Co.

PETITION PLAN
VERIZON NEW ENGLAND INC

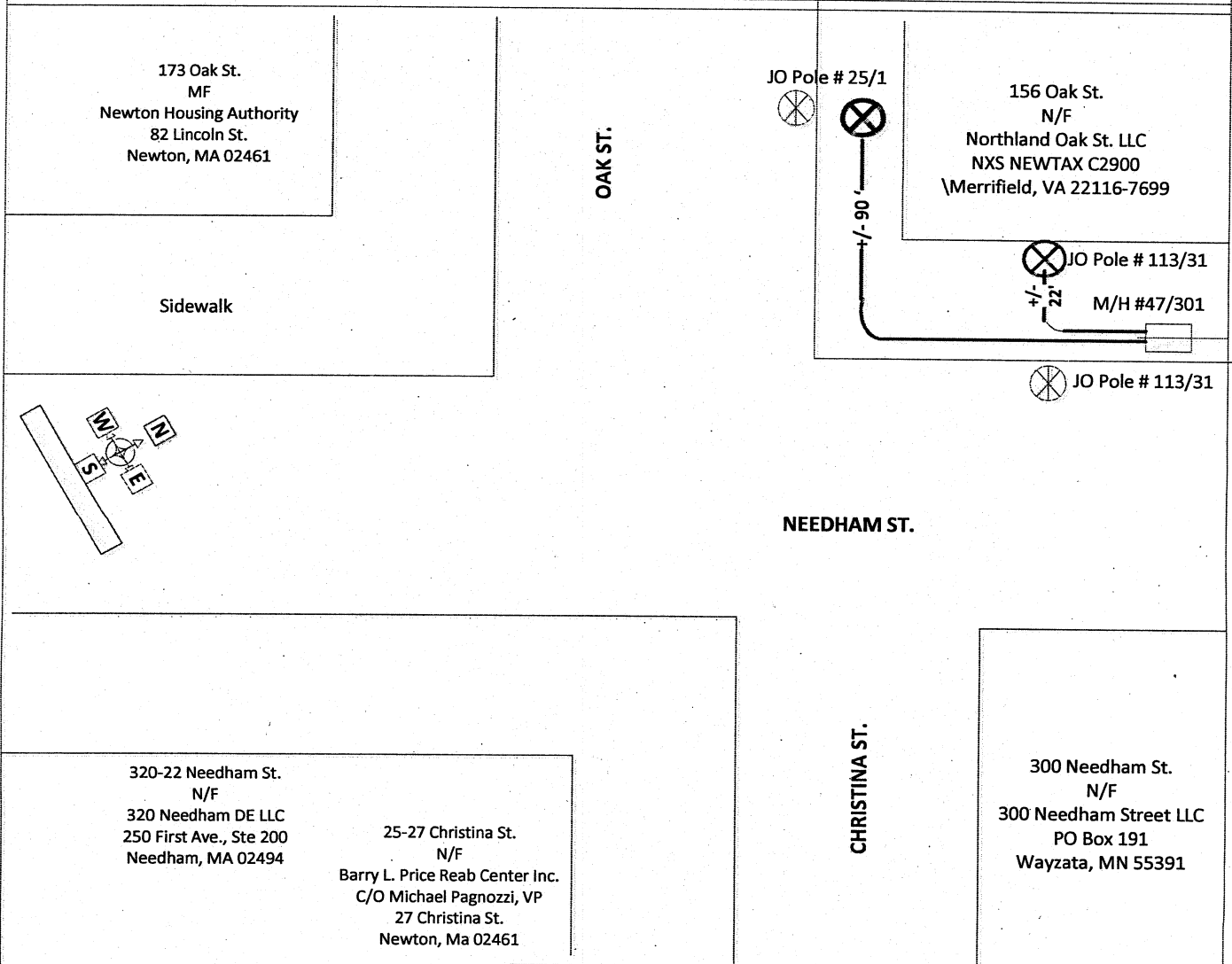
Municipality: Newton, Massachusetts

No. P2017-4AOCE9R-1

Electric-Power Co.: Eversource Energy d/b/a Nstar Electric

Date: July 27, 2017-Rev-8-8-17

Showing: Proposed underground Conduit & Jointly-Owned Pole Locations Related to MADOT Project 608137



Prepared By: E. Bryan, R/W Eng.

Checked By: S. Matys, Eng.

LEGEND

- | | | | |
|--|--|--|--|
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| | - Existing Verizon N.E. Inc. Location to be Held Jointly | | - Existing Power Co. Location to be Held Jointly |
| | - Existing Verizon N.E. Inc. Pole Location to be Aband | | - Proposed Anchor/Guy |
| | - Existing Verizon N.E. Inc. Manhole | | - Existing J.O. Pole Location to be Abandoned* |
| | - Existing Verizon N.E. Inc. Buried Cable | | - Proposed Verizon N.E. Inc. Manhole Location |
| | - Existing Verizon N.E. Inc. Conduit | | - Proposed Verizon N.E. Inc. Conduit Location |
| | | | - Proposed Verizon N.E. Inc. Buried Cable Location |

Final Label Report

Needham St

SBL	Owner	Number	Street	Unit
51049 0004	LEBEDEVA TATIANA V	10	ABBOTT ST	
83030 0010	NORTHLAND 160 CHARLEMONT LLC	160	CHARLEMONT ST	
83031 0025Z	BARRY L PRICE REHAB CENTER INC	25-27	CHRISTINA ST	
83031 0025	BARRY L PRICE REHAB CENTER INC	25-27	CHRISTINA ST	
83030 0009	NRC INC	56	CHRISTINA ST	
83030 0012	NORTHLAND 260 NEEDHAM LLC	260	NEEDHAM ST	
51028 0006	NEEDHAM STREET ASSOCIATES	275-281	NEEDHAM ST	
83030 0011	300 NEEDHAM STREET LLC	300	NEEDHAM ST	
83031 0026	320 NEEDHAM DE LLC	320-322	NEEDHAM ST	
51028 0005A	NORTHLAND OAK ST LLC	156	OAK ST	
51049 0005	CHU SAMSON	159	OAK ST	
51049 0006CV	NEWTON HOUSING AUTHORITY	173	OAK ST	101W
51049 0006DC	MEYER YELENA TR	173	OAK ST	108W
51049 0006DM	NEALON WILLIAM J JR	173	OAK ST	208W
51049 0006DL	NEWTON HOUSING AUTHORITY	173	OAK ST	207W
51049 0006DK	DISARRO SANDRA L	173	OAK ST	206W
51049 0006DJ	WEINBERG ILAN	173	OAK ST	205W
51049 0006DH	NEWTON HOUSING AUTHORITY	173	OAK ST	204W
51049 0006DG	LIN LIH WEN	173	OAK ST	203W
51049 0006DF	PINCUS SUSAN B	173	OAK ST	202W
51049 0006DE	CLIFFORD PAUL E	173	OAK ST	201W
51049 0006DD	GASPARIAN LEVON & POLINA TRS	173	OAK ST	109W
51049 0006DN	FREEMAN MELINDA	173	OAK ST	209W
51049 0006DB	NEWTON HOUSING AUTHORITY	173	OAK ST	107W
51049 0006DA	SUN JIE	173	OAK ST	106W
51049 0006CZ	MARCH HOWARD & LAURA B TRS	173	OAK ST	105W
51049 0006CY	LENDER JULIAN	173	OAK ST	104W
51049 0006DQ	SAMMARONE RENZO & LINDA	173	OAK ST	301W
51049 0006CW	BLUESTEIN BERNICE L	173	OAK ST	102W
51049 0006DR	FARAHMAND ARYA	173	OAK ST	302W
51049 0006CU	MARCUS STEVEN J	173	OAK ST	G-5W
51049 0006CT	FELD GERALD A & PHYLLIS TRS	173	OAK ST	G-4W
51049 0006CS	NEWTON HOUSING AUTHORITY	173	OAK ST	G-3W
51049 0006CR	MOHAN ARNI N & ANNE C TRS	173	OAK ST	G-2W
51049 0006CQ	ARDEKANI ALI	173	OAK ST	G-1W
51049 0006CX	NG EDWOOD	173	OAK ST	103W
51049 0006DX	HART THOMAS J & KATHLEEN S	173	OAK ST	402W
51049 0006DS	CARTA-VILLA CRISTINA	173	OAK ST	303W
51049 0006DP	MILLER NASHA L TR	173	OAK ST	210W
51049 0006EA	ALIBER JEFFREY D	173	OAK ST	501W
51049 0006DY	LONDON ARLENE JUDITH TR	173	OAK ST	403W
51049 0006EB	BLUMENTHAL DAVID M TR	173	OAK ST	502W
51049 0006DW	HAN YOUNG-SANG & BONG CHOON LEE	173	OAK ST	401W
51049 0006DV	FEINSTEIN MARK R & JANET D	173	OAK ST	306W
51049 0006DU	CHAN FLORENCE	173	OAK ST	305W

SBL	Owner	Number	Street	Unit
51049 0006DT	TEYSSEDOU VIVIAN H	173	OAK ST	304W
51049 0006DZ	CHUNG STEFANIE	173	OAK ST	404W
51049 0006BR	KWOK HAROLD W	183	OAK ST	208C
51049 0006BP	FEINSTEIN DIANE	183	OAK ST	206C
51049 0006BN	JOHARI SARA	183	OAK ST	205C
51049 0006AV	RICHMAN ROBERT & HASIA	183	OAK ST	G-1C
51049 0006AW	GRODEN CAROL A	183	OAK ST	G-2C
51049 0006BQ	SANG JAMES C	183	OAK ST	207C
51049 0006BS	SHERMAN CECILE D	183	OAK ST	209C
51049 0006BT	KERRIGAN CAROLINE F	183	OAK ST	301C
51049 0006AX	SKOLER MICHAEL	183	OAK ST	G-3C
51049 0006BV	NEWTON HOUSING AUTHORITY	183	OAK ST	303C
51049 0006BE	SOTNICK GREGORY	183	OAK ST	104C
51049 0006BW	STEINBERG ROBERT W & ELENORE	183	OAK ST	304C
51049 0006BX	LEE DRAGON S & BOFANG	183	OAK ST	305C
51049 0006BY	TRAIETTI ARNALDO & ANTONINA TRS	183	OAK ST	306C
51049 0006BU	OHGAMI JANE K	183	OAK ST	302C
51049 0006AY	LEVY ALLAN C	183	OAK ST	G-4C
51049 0006AZ	TROY HANNA M	183	OAK ST	G-5C
51049 0006BA	KOVGANOVA EKATERINA	183	OAK ST	G-6C
51049 0006BB	COLECCHI CATHERINE M	183	OAK ST	101C
51049 0006BD	SZETO ARCHIE K TR	183	OAK ST	103C
51049 0006BF	LIN EMMY & STEVEN	183	OAK ST	105C
51049 0006BM	BUSTAMANTE ELIANA	183	OAK ST	204C
51049 0006BG	ARYAN LLC	183	OAK ST	106C
51049 0006BH	SLAWSBY ELLEN A	183	OAK ST	107C
51049 0006BJ	LELCHOOK DORIS E TR	183	OAK ST	201C
51049 0006BK	BRAMAN KATHERINE E	183	OAK ST	202C
51049 0006BL	NEWTON HOUSING AUTHORITY	183	OAK ST	203C
51049 0006BZ	ARSNA REALTY LLC	183	OAK ST	307C
51049 0006CM	WEISS LAURA S	183	OAK ST	503C
51049 0006BC	BALE TEJUS A	183	OAK ST	102C
51049 0006CL	YUAN HONGSHENG	183	OAK ST	502C
51049 0006CA	CULLISON GRETA P	183	OAK ST	308C
51049 0006CK	JAFFE HARRIETTE H	183	OAK ST	501C
51049 0006CP	KOPELMAN BORIS	183	OAK ST	505C
51049 0006CN	WALTER GEORGE L II	183	OAK ST	504C
51049 0006CJ	GOLDIN AVRAHAM & NAAMA	183	OAK ST	407C
51049 0006CH	G&V HOLDINGS LLC	183	OAK ST	406C
51049 0006CB	EDELMAN DAVID & CAROL	183	OAK ST	309C
51049 0006CF	BLOOM MARC H	183	OAK ST	404C
51049 0006CE	VARTICOVSKI LYUBA	183	OAK ST	403C
51049 0006CD	LUI JARED & JULIA	183	OAK ST	402C
51049 0006CC	MIKHAILOV MIKHAIL	183	OAK ST	401C
51049 0006CG	ARNSA REALTY LLC	183	OAK ST	405C
51049 0006AG	YEE BRYANT C & CHRISTINE G	193	OAK ST	504E
51049 0006AH	STRYJEWSKI PAMELA S	193	OAK ST	505E
51049 0006AJ	ARBETTER ARTHUR B	193	OAK ST	506E
51049 0006AK	HOUSMAN KENNETH A	193	OAK ST	507E
51049 0006AP	TARPINIAN LORI	193	OAK ST	603E

**PETITION PLAN
VERIZON NEW ENGLAND INC**

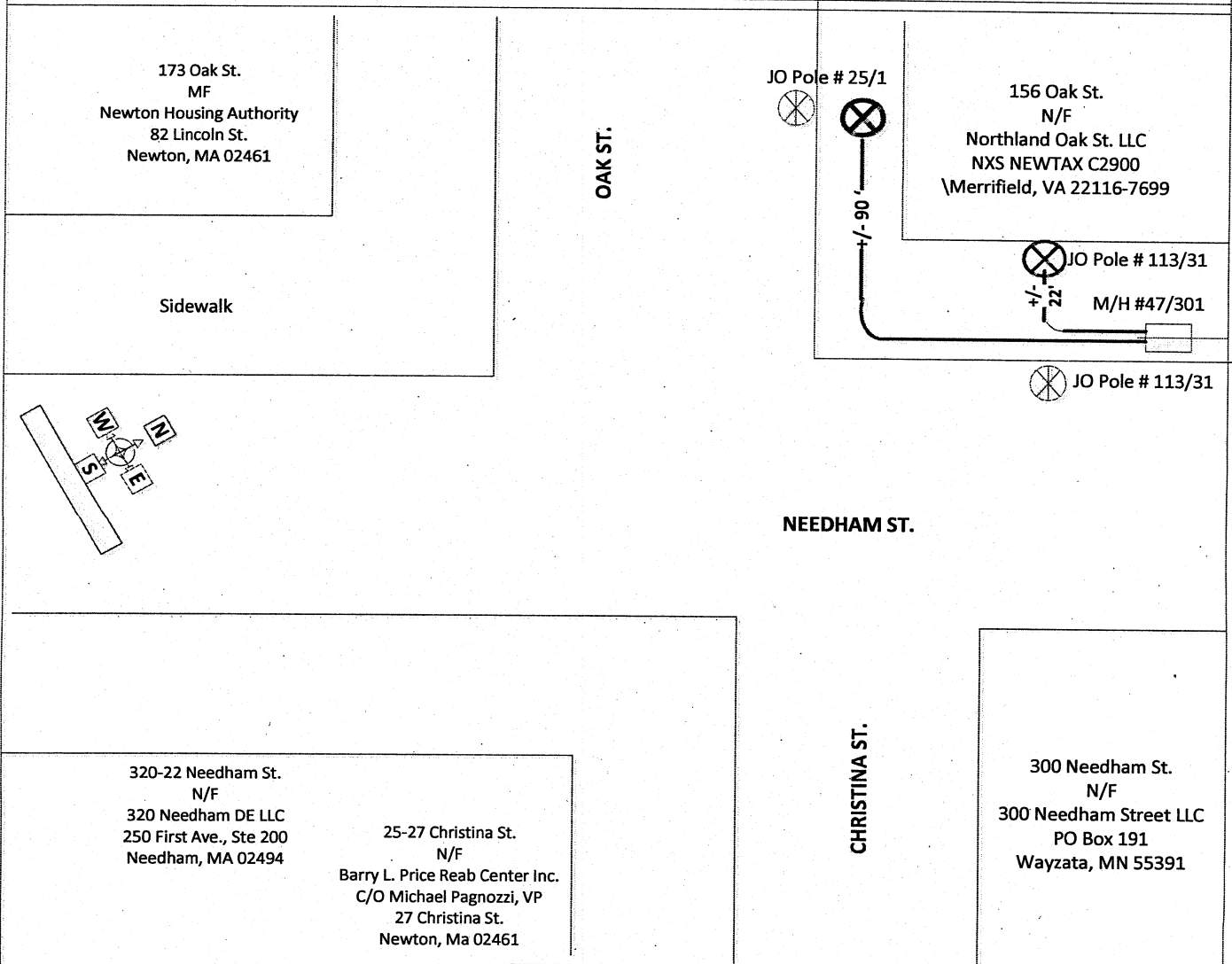
Municipality: Newton, Massachusetts

No. P2017-4AOCE9R-1

Electric-Power Co.: Eversource Energy d/b/a Nstar Electric

Date: July 27, 2017-Rev-8-8-17

Showing: Proposed underground Conduit & Jointly-Owned Pole Locations Related to MADOT Project 608137



Prepared By: E. Bryan, R/W Eng.

LEGEND

Checked By: S. Matys, Eng.

- | | | | |
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CITY OF NEWTON
MASSACHUSETTS

PETITION for GRANT OF LOCATION

To the Petitioner:

City of Newton Ordinance Section 23-5 requires that each petition for grant of location be submitted to the City Council before it is sent to the Public Works Department for a preliminary review. The comments of the Public Works Commissioner will be part of the record submitted to the City Council. Upon filing with the City Council, the petition will be scheduled for a public hearing before the Public Facilities Committee of the City Council. **The petitioner is responsible for insuring that the petition is complete and all required materials are in order for review.** Attached please find the City Engineer's Standard Requirements for Plans and the Department of Public Works Permit Processing brochure.

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Questions may be directed to:

Lou Taverna, City Engineer, 617-796-1020
City Council Office, 617-796-1210

I. IDENTIFICATION (Please Type or Print Clearly)

Company Name Verizon New England, Inc
 Address 125 High St Oliver Tower Floor 7, Boston, MA 02110
E. Everett Bryan, S/R, W/A Verizon c/o EDS, 55 Riverdale Ave, Bradford, MA 01835
 Phone Number 781 307 5286 Fax Number 978 521 9419
 Contact Person Everette Bryan Title Right of way Engineer
 Signature _____ Date 8/7/2017
 Person filing application

If a telecommunications company, indicate how certified by the Department of Telecommunications and Energy:

II. DESCRIPTION OF PROJECT: to be completed by petitioner

A. Write here or attach a description of the project including, location, proposed time frame for completion, type of materials to be used, benefit provided to the City, project mitigation plan as applicable, street reconstruction plan including timetable for completion.

see attached

B. Include or attach a sketch to provide a visual description of the project. If plans are attached, provide:
Title of Plan _____ Date of plan _____

III. PUBLIC WORKS DEPARTMENT REVIEW

Date received by Public Works Department _____

Check One:

Minor Project

Major Project

Lateral

(Refer to City Engineer Standard Requirements for Plans for definition of minor and major project)

Plans Submitted:

Certified Plot Plan

Stamped Plans

DATE AND COMMENTS:

RECOMMENDATIONS:

Thus work is associated with the Massworks roadway project, all restoration will be performed with the construction following.	John D. [Signature] Assistant City Engineer Aug 28, 2017 will require Newton Police Details.
--	---

V. RECOMMENDATION TO PUBLIC FACILITIES COMMITTEE:

[Signature]

Commissioner, Public Works

8/29/17

Date

PETITION FOR CONDUIT LOCATION--CITIES AND TOWNS

To the City Council
of the City of Newton, Massachusetts.

VERIZON NEW ENGLAND INC. requests permission to lay and maintain underground conduits and manholes with the wires and cables to be placed therein, under and upon the surface of the following public way or ways:-

NEEDHAM STREET & OAK STREET: From M/H #47/301 located on westerly side of Needham St., place approximately **22 ft.** of underground conduit in a southwesterly direction to Jointly-Owned Pole # 113/31 and approximately **90 ft.** of underground conduit in a southwesterly direction to Jointly-Owned Pole # 25/1 located on northerly side of Oak St.

Also for permission to lay and maintain underground conduits, cables and wires in the above or intersecting public ways for the purpose of making connections with such poles and buildings as it may desire for distributing purposes.

Plan marked – **Verizon N.E. Inc.**, No. P2017-4A0CE9R-1 dated July 27, 2017 and revised Aug. 8, 2017 showing location of conduit to be constructed is filed herewith.

VERIZON NEW ENGLAND INC.

Everette Bryan

By: _____
E. Everette Bryan, Rights of Way Engineer

Dated this 4th day of August, 2017 & Revised Aug. 8, 2017

I hereby certify that on _____, _____, at _____ o'clock _____ M., at _____ a public hearing was held on the petition of the **VERIZON NEW ENGLAND INC.** for permission to lay and maintain underground conduits, manholes and connections, with the wires and cables to be placed therein, described in the order herewith recorded, and that I mailed at least seven days before said hearing a written notice of the time and place of said hearing to each of the owners of real estate (as determined by the last preceding assessment for taxation) along the ways or parts of ways upon which the Company is permitted to construct the lines of said Company under said order, and that thereupon said order was duly adopted.

City Clerk

CERTIFICATE

I hereby certify that the foregoing is a true copy of a location order, and certificate of hearing with notice adopted by the City Council of the City of Newton, Massachusetts, on the _____ day of _____, 2017 and recorded with the records of location orders of said City, Book _____, Page _____. This certified copy is made under the provisions of Chapter 166 of General Laws and any additions thereto or amendments thereof.

Attest:

City Clerk

**PETITION PLAN
VERIZON NEW ENGLAND INC**

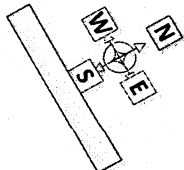
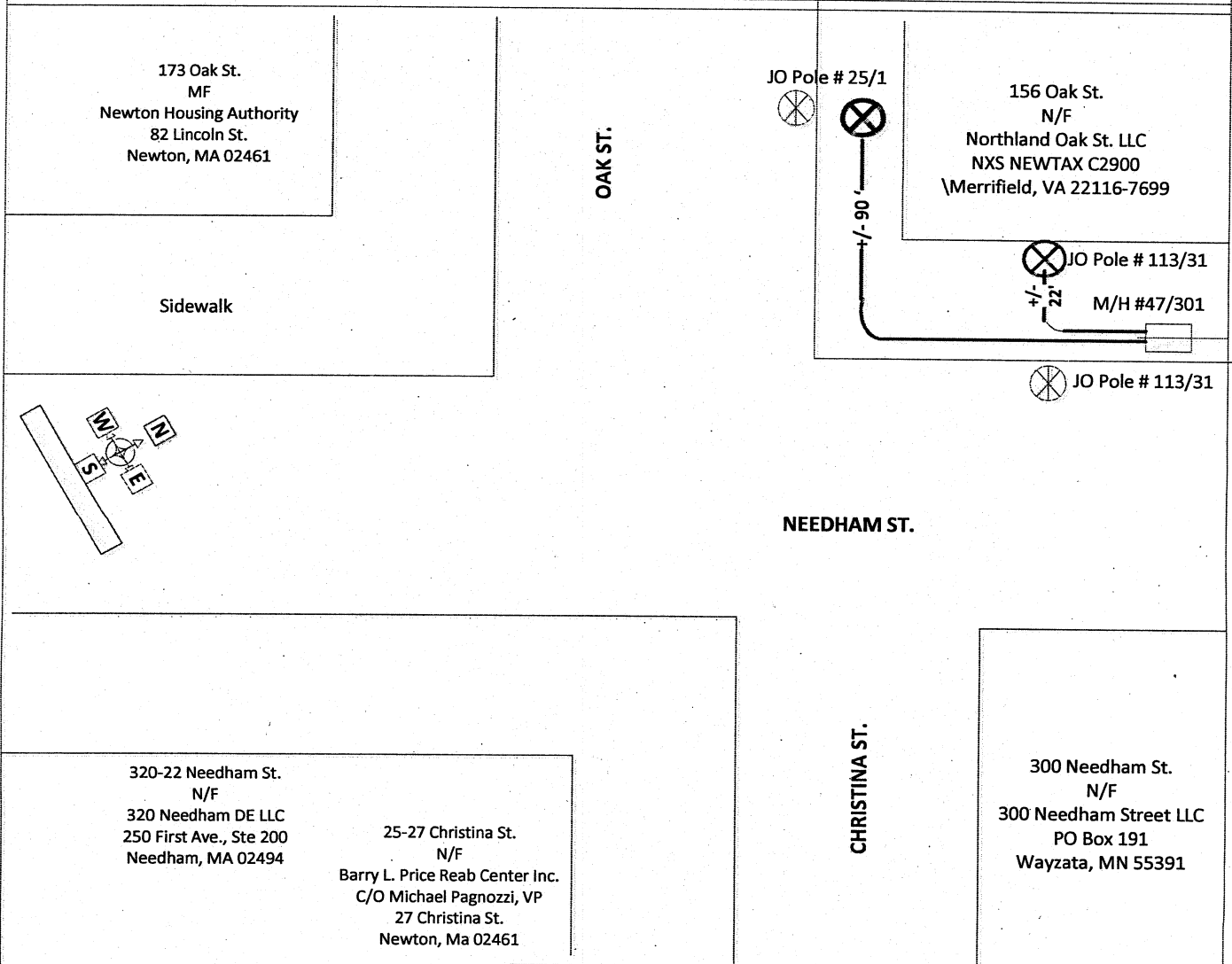
Municipality: Newton, Massachusetts

No. P2017-4AOCE9R-1

Electric-Power Co.: Eversource Energy d/b/a Nstar Electric

Date: July 27, 2017-Rev-8-8-17

Showing: Proposed underground Conduit & Jointly-Owned Pole Locations Related to MADOT Project 608137



Prepared By: E. Bryan, R/W Eng.

Checked By: S. Matys, Eng.

LEGEND

- | | | | |
|--|--|--|--|
| | - Existing J.O. Pole to Remain* | | - Proposed J.O. Pole Location* |
| | - Existing Verizon N.E. Inc. S.O. Pole to Remain** | | - Proposed Verizon N.E. Inc. S.O. Pole Location** |
| | - Existing Verizon N.E. Inc. Location to be Held Jointly | | - Existing Power Co. Location to be Held Jointly |
| | - Existing Verizon N.E. Inc. Pole Location to be Aband | | - Proposed Anchor/Guy |
| | - Existing Verizon N.E. Inc. Manhole | | - Existing J.O. Pole Location to be Abandoned* |
| | - Existing Verizon N.E. Inc. Buried Cable | | - Proposed Verizon N.E. Inc. Manhole Location |
| | - Existing Verizon N.E. Inc. Conduit | | - Proposed Verizon N.E. Inc. Conduit Location |
| | | | - Proposed Verizon N.E. Inc. Buried Cable Location |

Final Label Report

Needham St

SBL	Owner	Number	Street	Unit
51049 0004	LEBEDEVA TATIANA V	10	ABBOTT ST	
83030 0010	NORTHLAND 160 CHARLEMONT LLC	160	CHARLEMONT ST	
83031 0025Z	BARRY L PRICE REHAB CENTER INC	25-27	CHRISTINA ST	
83031 0025	BARRY L PRICE REHAB CENTER INC	25-27	CHRISTINA ST	
83030 0009	NRC INC	56	CHRISTINA ST	
83030 0012	NORTHLAND 260 NEEDHAM LLC	260	NEEDHAM ST	
51028 0006	NEEDHAM STREET ASSOCIATES	275-281	NEEDHAM ST	
83030 0011	300 NEEDHAM STREET LLC	300	NEEDHAM ST	
83031 0026	320 NEEDHAM DE LLC	320-322	NEEDHAM ST	
51028 0005A	NORTHLAND OAK ST LLC	156	OAK ST	
51049 0005	CHU SAMSON	159	OAK ST	
51049 0006CV	NEWTON HOUSING AUTHORITY	173	OAK ST	101W
51049 0006DC	MEYER YELENA TR	173	OAK ST	108W
51049 0006DM	NEALON WILLIAM J JR	173	OAK ST	208W
51049 0006DL	NEWTON HOUSING AUTHORITY	173	OAK ST	207W
51049 0006DK	DISARRO SANDRA L	173	OAK ST	206W
51049 0006DJ	WEINBERG ILAN	173	OAK ST	205W
51049 0006DH	NEWTON HOUSING AUTHORITY	173	OAK ST	204W
51049 0006DG	LIN LIH WEN	173	OAK ST	203W
51049 0006DF	PINCUS SUSAN B	173	OAK ST	202W
51049 0006DE	CLIFFORD PAUL E	173	OAK ST	201W
51049 0006DD	GASPARIAN LEVON & POLINA TRS	173	OAK ST	109W
51049 0006DN	FREEMAN MELINDA	173	OAK ST	209W
51049 0006DB	NEWTON HOUSING AUTHORITY	173	OAK ST	107W
51049 0006DA	SUN JIE	173	OAK ST	106W
51049 0006CZ	MARCH HOWARD & LAURA B TRS	173	OAK ST	105W
51049 0006CY	LENDER JULIAN	173	OAK ST	104W
51049 0006DQ	SAMMARONE RENZO & LINDA	173	OAK ST	301W
51049 0006CW	BLUESTEIN BERNICE L	173	OAK ST	102W
51049 0006DR	FARAHMAND ARYA	173	OAK ST	302W
51049 0006CU	MARCUS STEVEN J	173	OAK ST	G-5W
51049 0006CT	FELD GERALD A & PHYLLIS TRS	173	OAK ST	G-4W
51049 0006CS	NEWTON HOUSING AUTHORITY	173	OAK ST	G-3W
51049 0006CR	MOHAN ARNI N & ANNE C TRS	173	OAK ST	G-2W
51049 0006CQ	ARDEKANI ALI	173	OAK ST	G-1W
51049 0006CX	NG EDWOOD	173	OAK ST	103W
51049 0006DX	HART THOMAS J & KATHLEEN S	173	OAK ST	402W
51049 0006DS	CARTA-VILLA CRISTINA	173	OAK ST	303W
51049 0006DP	MILLER NASHA L TR	173	OAK ST	210W
51049 0006EA	ALIBER JEFFREY D	173	OAK ST	501W
51049 0006DY	LONDON ARLENE JUDITH TR	173	OAK ST	403W
51049 0006EB	BLUMENTHAL DAVID M TR	173	OAK ST	502W
51049 0006DW	HAN YOUNG-SANG & BONG CHOON LEE	173	OAK ST	401W
51049 0006DV	FEINSTEIN MARK R & JANET D	173	OAK ST	306W
51049 0006DU	CHAN FLORENCE	173	OAK ST	305W

SBL	Owner	Number	Street	Unit
51049 0006DT	TEYSSEDOU VIVIAN H	173	OAK ST	304W
51049 0006DZ	CHUNG STEFANIE	173	OAK ST	404W
51049 0006BR	KWOK HAROLD W	183	OAK ST	208C
51049 0006BP	FEINSTEIN DIANE	183	OAK ST	206C
51049 0006BN	JOHARI SARA	183	OAK ST	205C
51049 0006AV	RICHMAN ROBERT & HASIA	183	OAK ST	G-1C
51049 0006AW	GRODEN CAROL A	183	OAK ST	G-2C
51049 0006BQ	SANG JAMES C	183	OAK ST	207C
51049 0006BS	SHERMAN CECILE D	183	OAK ST	209C
51049 0006BT	KERRIGAN CAROLINE F	183	OAK ST	301C
51049 0006AX	SKOLER MICHAEL	183	OAK ST	G-3C
51049 0006BV	NEWTON HOUSING AUTHORITY	183	OAK ST	303C
51049 0006BE	SOTNICK GREGORY	183	OAK ST	104C
51049 0006BW	STEINBERG ROBERT W & ELENORE	183	OAK ST	304C
51049 0006BX	LEE DRAGON S & BOFANG	183	OAK ST	305C
51049 0006BY	TRAIETTI ARNALDO & ANTONINA TRS	183	OAK ST	306C
51049 0006BU	OHGAMI JANE K	183	OAK ST	302C
51049 0006AY	LEVY ALLAN C	183	OAK ST	G-4C
51049 0006AZ	TROY HANNA M	183	OAK ST	G-5C
51049 0006BA	KOVGANOVA EKATERINA	183	OAK ST	G-6C
51049 0006BB	COLECCHI CATHERINE M	183	OAK ST	101C
51049 0006BD	SZETO ARCHIE K TR	183	OAK ST	103C
51049 0006BF	LIN EMMY & STEVEN	183	OAK ST	105C
51049 0006BM	BUSTAMANTE ELIANA	183	OAK ST	204C
51049 0006BG	ARYAN LLC	183	OAK ST	106C
51049 0006BH	SLAWSBY ELLEN A	183	OAK ST	107C
51049 0006BJ	LELCHOOK DORIS E TR	183	OAK ST	201C
51049 0006BK	BRAMAN KATHERINE E	183	OAK ST	202C
51049 0006BL	NEWTON HOUSING AUTHORITY	183	OAK ST	203C
51049 0006BZ	ARSNA REALTY LLC	183	OAK ST	307C
51049 0006CM	WEISS LAURA S	183	OAK ST	503C
51049 0006BC	BALE TEJUS A	183	OAK ST	102C
51049 0006CL	YUAN HONGSHENG	183	OAK ST	502C
51049 0006CA	CULLISON GRETA P	183	OAK ST	308C
51049 0006CK	JAFFE HARRIETTE H	183	OAK ST	501C
51049 0006CP	KOPELMAN BORIS	183	OAK ST	505C
51049 0006CN	WALTER GEORGE L II	183	OAK ST	504C
51049 0006CJ	GOLDIN AVRAHAM & NAAMA	183	OAK ST	407C
51049 0006CH	G&V HOLDINGS LLC	183	OAK ST	406C
51049 0006CB	EDELMAN DAVID & CAROL	183	OAK ST	309C
51049 0006CF	BLOOM MARC H	183	OAK ST	404C
51049 0006CE	VARTICOVSKI LYUBA	183	OAK ST	403C
51049 0006CD	LUI JARED & JULIA	183	OAK ST	402C
51049 0006CC	MIKHAILOV MIKHAIL	183	OAK ST	401C
51049 0006CG	ARNSA REALTY LLC	183	OAK ST	405C
51049 0006AG	YEE BRYANT C & CHRISTINE G	193	OAK ST	504E
51049 0006AH	STRYJEWSKI PAMELA S	193	OAK ST	505E
51049 0006AJ	ARBETTER ARTHUR B	193	OAK ST	506E
51049 0006AK	HOUSMAN KENNETH A	193	OAK ST	507E
51049 0006AP	TARPINIAN LORI	193	OAK ST	603E

SBL	Owner	Number	Street	Unit
51049 0006AN	LEW WARREN & DEBRA	193	OAK ST	602E
51049 0006AM	VARGAS MARIA C	193	OAK ST	601E
51049 0006AF	WANG ANDREA Y TR	193	OAK ST	503E
51049 0006	CEC OAK REALTY LLC	193	OAK ST	S-1
51049 0006AL	KIM SEONG K	193	OAK ST	508E
51049 0006AE	LIN SUSAN & ERIC	193	OAK ST	502E
51049 0006AD	COHEN ANDREW H	193	OAK ST	501E
51049 0006AC	LOEW FLORENCE & KENNETH TRS	193	OAK ST	408E
51049 0006AB	NEWTON HOUSING AUTHORITY	193	OAK ST	407E
51049 0006AQ	EDELMAN DAVID & CAROL	193	OAK ST	604E
51049 0006A	POLIVY LAURIE H	193	OAK ST	101E
51049 0006S	MCGRATH JOSEPH F & SUSAN B	193	OAK ST	306E
51049 0006W	WONG BENNY	193	OAK ST	402E
51049 0006X	KOVGANOVA EKATERINA	193	OAK ST	403E
51049 0006Y	NEWTON HOUSING AUTHORITY	193	OAK ST	404E
51049 0006Z	WF MANAGEMENT COMPANY LLC	193	OAK ST	405E
51049 0006AA	JIANG DINGHAO	193	OAK ST	406E
51049 0006N	SO THERESA TR	193	OAK ST	302E
51049 0006C	KIGGEN SHEILA S	193	OAK ST	103E
51049 0006D	NEWTON HOUSING AUTHORITY	193	OAK ST	201E
51049 0006E	YEN LUCY G	193	OAK ST	202E
51049 0006F	TANGNEY MAURYA J	193	OAK ST	203E
51049 0006G	NEWTON HOUSING AUTHORITY	193	OAK ST	204E
51049 0006H	YANOFKY JILL	193	OAK ST	205E
51049 0006J	XIONG YAN	193	OAK ST	206E
51049 0006K	NEWTON HOUSING AUTHORITY	193	OAK ST	207E
51049 0006U	EDELMAN DAVID & CAROL	193	OAK ST	308E
51049 0006M	EVANS ARIEL & VANESSA	193	OAK ST	301E
51049 0006AR	QUILTY MAUREEN E	193	OAK ST	605E
51049 0006P	TANGNEY EUGENE M & NANCY A	193	OAK ST	303E
51049 0006Q	NEWTON HOUSING AUTHORITY	193	OAK ST	304E
51049 0006B	BOSTON ACADEMY OF THE SACRED HEART	193	OAK ST	102E
51049 0006R	BLADD MARJORIE A TR	193	OAK ST	305E
51049 0006T	NEWTON HOUSING AUTHORITY	193	OAK ST	307E
51049 0006V	GARTHWAIT CHERYL A	193	OAK ST	401E
51049 0006AU	BRILL LICA L/E TR	193	OAK ST	608E
51049 0006AT	BONCHI SUSAN R	193	OAK ST	607E
51049 0006AS	G&V HOLDINGS LLC	193	OAK ST	606E
51049 0006L	CHOE KEY SOON & YUN SU	193	OAK ST	208E
51028 0005	NORTHLAND TOWER ROAD	55	TOWER RD	

277-17



SETTI D. WARREN
MAYOR

City of Newton, Massachusetts
Office of the Mayor

Telephone
(617) 796-1100

Facsimile
(617) 796-1113

TDD/TTY
(617) 796-1089

E-mail
swarren@newtonma.gov

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton, MA 02459

RECEIVED
Newton City Clerk
2017 AUG -9 AM 11:18
David A. Olson, CMC
Newton, MA 02459

Ladies and Gentlemen:

I am pleased to reappoint Seth Parker of 26 Shornecliffe Road, Newton as a member of the Solid Waste Commission. His term of office shall expire on September 30, 2020 and his appointment is subject to your confirmation.

Thank you for your attention to this matter.

Very truly yours,

A handwritten signature in black ink, appearing to read "Setti D. Warren".

Setti D. Warren

Mayor

1000 Commonwealth Avenue Newton, Massachusetts 02459

www.newtonma.gov



DEDICATED TO COMMUNITY EXCELLENCE

SETH G. PARKER

SUMMARY

A senior manager with an international background in competitive markets, the development / evaluation / financing of generation and transmission projects, and mergers / divestitures / acquisitions. Conducted the first U.S. competitive solicitation of offshore wind power. Key experience includes market design, transaction support, risk management, power contracts, cogeneration / microgrids, economics of conventional and renewable power resources, inter-regional transmission projects, and asset valuation.

PROFESSIONAL EXPERIENCE

- | | |
|-----------|--|
| 1998 - | Levitan & Associates, Inc.
Principal & Vice President
Managing Consultant |
| 1988-1998 | Stone & Webster Management Consultants (U.S. and U.K.)
Vice President
Assistant Vice President
Executive Consultant
Senior Consultant |
| 1984-1988 | J. Makowski Associates, Inc.
Financial Manager - Ocean State Power |
| 1981-1983 | ThermoElectron Energy Systems
Senior Financial Analyst |
| 1978-1981 | Pacific Gas and Electric Co.
Project Financing Analyst |

CONSULTING ASSIGNMENTS

RENEWABLE ENERGY

Advising the New York State Energy Research and Development Authority (NYSERDA) to solicit and evaluate offshore wind proposals, design offtake agreements to optimize ratepayer value consistent with State's Clean Energy Standard, and recommend the timing and quantity of offshore wind resources.

Administered the first U.S. offshore wind evaluation / selection process for Maryland Public Service Commission; managed three subcontractors on cost, rate, technical, environmental, risk, and regulatory factors for the 248 MW US Wind and 120 MW Skipjack proposals, testified before the Commission which accepted both proposals.

Forecasted power market, emission, and rate impacts of New England Clean Power Link, a proposed 1,000 MW u/w and u/g HVDC cable to import renewable hydroelectric and wind energy from Quebec for TDI-NE's Certificate of Public Good application to, and testified before, the Vermont Public Service Board.

Assisted NRG with economic analysis, financing structure, debt and equity sources, finance rates, PPA terms, and credit issues for the proposed Great Lakes Offshore Wind project in Lake Erie.

Prepared comprehensive offshore wind report defining application requirements, recommending price parameters, establishing threshold qualifications, and specifying evaluation criteria and procedures adopted in Regulations to implement the Offshore Wind Energy Act of 2013; testified before the Maryland Public Service Commission.

Conducted economic evaluation of the Deepwater Block Island offshore wind project for the Rhode Island Economic Development Corporation, including PPA pricing, risk allocation, price suppression, regional economic impacts, and other issues; submitted written testimony and testified before the Rhode Island Public Utility Commission.

Assessed economics of hydroelectric purchase and underwater cable cost-sharing per the Nova Scotia Power Maritime Link Compliance Filing, including proposed Energy Access Agreement, for the Consumer Advocate and Small Business Advocate; submitted written testimony and testified before the Utility and Review Board.

MICROGRIDS

Evaluated 100+ MW Transitgrid generation plus flywheel options for New Jersey Transit to ensure reliable train service after Superstorm Sandy; preparing PJM interconnection application and supervising progress; arranging fuel supply and power sales.

Responsible for commercial and financial analysis of New York University's 13.4 MW cogeneration / microgrid project, including economic feasibility, contract terms, and utility backup power. The project "kept the lights on" during Superstorm Sandy, saves \$5-\$8 million/year, and reduces New York City (NYC) NO_x, SO₂, and CO emissions.

Advised New York University on nearby wind project development and contracts; evaluated microgrid proposal for NYU's Brooklyn campus post-Superstorm Sandy.

MERGERS, ACQUISITIONS, & DIVESTITURES

Evaluated proposed spin-off of Entergy transmission assets and merger with ITC Holdings for the Mississippi Public Utilities Staff including financial effects, business risk, and impacts on credit ratings, transmission planning / operations, MISO regulation, and customer rates; submitted written testimony.

Advised the Vermont Department of Public Service (DPS) on financial, operational, decommissioning funding, and ratepayer risk issues of Entergy's application to restructure

the ownership of its merchant nuclear plants, including Vermont Yankee; submitted written testimony and testified before the Vermont Public Service Board.

Advised the Connecticut Public Utilities Regulatory Authority (PURA, previously the DPUC) on financial policy issues of proposed Northeast Utilities / NStar merger.

Prepared comprehensive descriptions of Southern California Edison thermal generation (12 plants, 10,000 MW) and Commonwealth Edison coal stations (6 plants, 6,000 MW) for Divestiture Offering Memorandum.

Technical and economic advisor to Maine Public Service, Fitchburg Gas and Electric, and Unitil Corp for hydro, thermal, and power purchase agreement divestiture.

Commercial and contract advice to Empresa Electrica de Guatemala, S.A. for power plant divestiture.

Commercial advice (including forward pricing) to a confidential bidder for the New England Electric System divestiture (2800 MW thermal & 1200 MW hydro).

Provided technical / environmental advice to the Government of Pakistan for the 1600 MW Kot Addu plant privatization; developed capacity / energy contract pricing structure adopted in final sales documents.

PROJECT FINANCING AND FINANCIAL ANALYSIS

Conducted financial analysis of rival NYU cogeneration projects, including operating cost savings, tax-exempt debt terms, and credit rating impacts; prepared project pro forma and valuation documents for Financial Committee approval and financing.

Worked with New York Power Authority VP of Finance to structure tax-exempt debt terms and repayment schedule for proposed inter-market cable project.

Developed capital structure and cost of capital values for a MISO coal plant divestiture; evaluated depreciation assumptions and alternative (replacement cost less depreciation and comparable sale) valuations in support of state commission testimony.

Advised multiple clients on off-balance sheet financing structures, including tax-exempt operating leases and third-party ownership of CHP and cogen facilities.

Advised clients and conducted studies of merchant gas turbine and combined cycle financing assumptions filed at state commissions and FERC.

Established economic value and financing plan for existing 43 MW Massachusetts hydroelectric power plant in support of acquisition and financing by a municipal utility.

Advised The Stanley Works on business strategy / financing of 8 MW hydro plant.

Structured non-recourse construction and permanent debt financing for Ocean State Power, the first domestic IPP; liaison between investors and financial advisor.

Developed off-balance sheet financing plans for ThermoElectron cogen projects.

Applied to the US Synthetic Fuels Corporation for price supports and loan guarantees.

Managed Pacific Gas and Electric's \$60 million pollution control Industrial Development Bond financing for Geysers dry steam geothermal power plants; structured financing terms with bond counsel, investment banks, and corporate staff.

Recommended financing and contract support structures for Pacific Gas and Electric subsidiaries & joint venture projects, including coal mine, power plants, gas production, and residential conservation.

MARKET & POLICY ANALYSIS

Represented Long Island Power Authority (LIPA) at PJM Members Committee, Markets and Reliability Committee, and Market Reliability Committee meetings and at NYISO Credit Policy Working Group meetings.

Assisted the Vermont DPS on power market, reliability, environmental, and socio-economic issues regarding extending Vermont Yankee's Certificate of Public Good; testified before the Vermont Public Service Board.

Evaluated alternative resource options and the market price and socio-economic impacts associated with the potential retirement of Vermont Yankee on behalf of the Vermont DPS; submitted written testimony and testified before the Vermont Public Service Board and in US District Court.

Assessed the economic costs and benefits of the proposed Cape Cod HVAC transmission line versus generation and demand-side alternatives; utilized in filings to the Massachusetts Energy Facilities Siting Board on behalf of project sponsor NStar.

Advised the Virginia State Corporation Commission Staff on commercial and technical issues for the HVAC Potomac-Appalachian Transmission Highway (PATH) project, including need, cost, timing, market impacts, and alternative transmission solutions.

Advised three NYC generators on NYISO's capacity demand curve reset process for 2011/12 – 2013/14 focusing on peaker proxy technology / cost, transmission deliverability, site requirements, and net energy & ancillary service revenues.

Provided written testimony on resource options and economics on behalf of Shell Energy NA regarding Dominion Virginia Power's (DVP's) 2009 Integrated Resource Plan; testified before the Virginia State Corporation Commission.

Prepared expert report and testimony on the DVP 2007 Solicitation for 2011 Unit Capacity for Shell Energy NA that addressed capacity needs, bidder qualifications, best competitive procurement practices, and bid evaluation methodology.

Prepared major deregulation study for the Maryland Public Service Commission that evaluated new generation, transmission, and demand-side options; evaluated divestiture's financial impact on generation fleet and to parent company; updated study for rate-base utility or power authority generation ownership.

Advised New York Power Authority on inter-market transactions, including power economics, interconnection requirements, grid upgrades, reliability impacts, permit issues, and regulatory considerations.

Advised generator group on PJM's proposed Reliability Pricing Model capacity valuation mechanism, including gas turbine capital & operating costs, net revenues, financing charges, etc.; represented group's interests at FERC.

Assessed market prices and congestion costs relative to competing generation and transmission project bids for LIPA; prepared ICAP forecasts across northeast markets and commercial analysis of HVDC cable proposals.

Evaluated market potential of PJM cable exports into NYC for potential purchaser of Linden simple / combined cycle project, including cable expansion issues.

Managed the update of NYISO's capacity market demand curve parameters for 2005/06 - 2007/08 based on levelized costs of gas turbine peaker capacity (CONE), including net energy revenues from multi-regional simulation model with stochastic treatment of hourly loads; evaluated demand curve slope and zero-crossing point; achieved consensus with stakeholder group; submitted report to FERC for approval.

Advised counsel for Mirant Equity Committee regarding NYISO, ISO-NE, and PJM capacity markets and the demand curve mechanisms used to forecast ICAP prices.

Established feasibility of inter-pool wheeling into load pocket to reduce congestion costs; quantified maximum benefit and reliability / portfolio effects for LIPA.

Evaluated alternatives to the Indian Point Nuclear Power Station for Westchester County and its Public Utility Service Agency, including power and local economic implications of shut-down, repowering, replacement with transmission / conventional / renewable resources, continued operation, and license extension.

Estimated market value of incremental energy and capacity from the Bonanza coal plant owned by the Deseret Generation and Transmission Cooperative in Utah; submitted expert report and testified in US District Court.

Prepared analysis of US power markets and merchant plant business structures for overseas investor; recommended target areas and distressed asset screening model.

Advised stakeholder group on technical, environmental, operational, and regulatory issues of power and gas infrastructure projects across Long Island Sound and in southwest Connecticut for the Institute for Sustainable Energy; facilitated revised guidelines for Connecticut Siting Council.

Prepared long-term market price forecasts by sub-regions in New England, New York, and PJM to capture congestion effects for PECO Energy's acquisition of Sithe assets.

Power market analysis of Salem Harbor conversion to gas for ISO-NE White Paper.

Assessed market potential for independent power producers throughout the US; identified competitive capabilities of utility and non-utility developers and of engineering firms.

ISO-NE cogeneration marketing and permitting assistance for Unitil gas utility.

Assessed state-by-state future demands for cogeneration systems based upon industrial activities, fuel costs, utility purchase and sales rates, and regulatory climates.

PROJECT DEVELOPMENT

Conducting power market analysis of a proposed 1,500 MW gas-fired combined cycle project in support of siting approvals in New Jersey for Genesis Power LLC, including impacts on wholesale energy prices, capacity prices, and air emissions in PJM.

Advised a confidential client on commercial / operational issues for an inter-market HVDC cable system, including scheduling, performance risks, O&M issues, and converter technology.

Advised Maine Department of Transportation on proposed LNG terminal project, including feasibility, site, safety, comparative economics, and pipeline routing.

Formulated economic / regulatory basis and completed pre-financing development work (permits, construction, and financing) for the 225 MW Ocean State Power Phase I combined cycle plant in Rhode Island, the nation's first IPP.

PROJECT & DUE DILIGENCE EVALUATIONS

Prepared expert report for the Rhode Island Division of Public Utilities and Carriers (DPUC) on the proposed 1,000 MW dual-fueled combined cycle Clear River Energy Center Application to the Energy Facility Siting Board on need and cost issues.

Advised Simpson Senior Services on termination payment and other contract terms with a third party cogeneration developer / operator for their assisted living facility.

Evaluated the status of proposed nuclear plant upgrades for the New Jersey Board of Public Utilities in support of its Long-Term Capacity Agreement Pilot Program (LCAPP), including Nuclear Regulatory Commission decisions on uprate applications.

Forecasted expected operating regime and changes in market power prices and regional air emissions for Bayonne 512 MW gas turbine peaker plant with HVAC underwater cable lead into NYC; report was used for Bayonne's Article VII Certificate application.

Prepared revenue and operating expense projections of PJM coal and combined cycle plants being sold by AES, including capacity revenues under alternative scenarios.

Advised the New York State Housing Finance Agency as lender to a cogeneration project, including project review, contract negotiation, and financing terms.

Managed due diligence review, construction monitoring, and acceptance testing of cogeneration, combined cycle, fluidized bed, and industrial projects for commercial lenders, investment banks, and government, bilateral & multilateral agencies:

- Brooklyn Navy Yard, 220 MW cogeneration plant, New York
- Derwent Cogeneration Project, 210 MW cogeneration plant, England
- East Java Power, 500 MW combined cycle plant, Indonesia
- EES Coke Battery, 900,000 ton per year coke facility, Michigan
- Guna Power Project, 347 MW naphtha / gas combined cycle plant, India
- Hadley Falls, 43 MW hydroelectric plant, Massachusetts
- Hub Power, 1,200 MW, \$1.8 billion, World Bank-supported plant, Pakistan
- Indiana Harbor Coke Battery, 1.3 million ton per year facility, Indiana
- Kot Addu, 1,600 MW oil / gas combined cycle plant, Pakistan
- Midland Cogen Venture, 1,370 MW \$2.3 billion cogen plant, Michigan
- Niagara Falls Resource Recovery, 800,000 ton per year plant, New York
- Panther Creek, 80 MW fluidized bed power plant, Pennsylvania
- Warrior Run, 180 MW fluidized bed power plant, Maryland
- York Research, financing of four plants, Texas, New York, and Trinidad

Evaluated operating characteristics and economics of cogeneration expansion plans for the Massachusetts Institute of Technology, and recommended phased-in scheduling.

Managed due diligence reviews of US coal and gas-fired power plants in support of Manweb (UK) equity investments; helped negotiate transaction modifications.

Recommended cogen plant design and financing plan for Turkish Industrial Zone.

Evaluated the feasibility of converting the Bataan nuclear power station in The Philippines to a gas-fired combined cycle plant for Shell Oil Company.

AUCTIONS & PROCUREMENTS

Independent monitor on behalf of the California Public Utilities Commission for Southern California Edison's Fixed Price Request for Offers from non-gas fired Qualifying Facilities; authored Independent Evaluator Report for the Commission.

LCAPP Agent role for the New Jersey Board of Public Utilities to develop 2,000 MW of new capacity; responsible for evaluating bidder financial strength / development expertise, contract drafting, and security (letter of credit and escrow) provisions.

Retained by the Illinois Power Authority as Procurement Administrator for the 2008, 2009, 2010, and 2011 competitive procurements of energy, capacity, and RECs, the 2010 procurement of long-term renewable resources, and the 2012 Rate Stability energy and RECs procurement for the Ameren Illinois Utilities; responsible for benchmark pricing, finance, credit, security, performance, and related contract issues.

Advised the Connecticut PURA on economic costs / benefits, credit / collateral terms, and other contract conditions for long-term PPAs.

Conducted power and fuel price forecasts and financial analysis for a confidential equity investor in the auction of the 2,480 MW Ravenswood Facility in NYC.

Assisted Allegheny Electric Cooperative to identify power purchase and equity investment opportunities in PJM; evaluated economics and risk parameters of PPA, tolling, market purchases, and ownership options; reviewed ISDA and EEI agreements.

Part of the Procurement Monitor team for PURA to oversee Connecticut Light & Power and United Illuminating 2006-2012 supply procurements; responsible for credit issues and financial barrier options to protect against unanticipated price movements.

Advised LIPA on commercial and financial issues associated with multiple solicitations for on-island and off-island capacity and energy; refined contract terms on risk and credit.

Evaluated 3rd party contracts and on-site generation alternatives for Visy Paper, NYC.

Evaluated design-build proposals for Central Heating Plant (CHP) at Rochester Institute of Technology, including engineering / construction qualifications, O&M strategy, financial structure, utility interconnection, and lifecycle cost / ROI results.

Evaluated strategic electric and gas procurement strategy options for the Buffalo Fiscal Stability Authority; made procurement recommendations to BFSA and City officials.

Evaluated bidders for Indianapolis Power & Light's 1992 competitive power solicitation.

GAS & FUEL PROJECTS

Estimated capital cost differentials and operational differences for gas-fired and dual-fueled power plants; assessed regional fuel-switching requirements and cost recovery rules for the Eastern Interconnection Planning Collaborative Gas-Electric Study.

Developed integrated gas supply, storage, and forward haul gas project concept for utilities in metropolitan New York / New Jersey to expand winter deliveries.

Evaluated equity return / risk profiles and prepared cash flow forecasts of interstate gas pipelines and storage projects for independent power plants in the Northeast.

Prepared testimony on risk, financing, and capital cost for the Endicott Pipeline Co.

Evaluated throughput and rate impacts on financial returns of competing gas pipeline proposals to support the development of Iroquois Gas Pipeline.

Commercial Advisor to the Pakistan Government for privatization of the Sui Northern Gas Pipeline Company (approx. 200 bcf annual sales with 24,000 km of pipe).

Determined distribution links between major domestic gas production basins and markets to allocate exploration and development funds of Sohio Petroleum.

World Bank advisor for Asia Pacific Ltd. oil storage & pipeline projects, Pakistan.

ENERGY & POWER PLANT OPTIMIZATION

Evaluated contract terms and conditions governing energy options for Nassau County Hub commercial district including cogeneration, spot market purchases, etc.

Assisted NYC industrial firm with cogeneration development; drafting steam purchase, power purchase option, site lease, and development contracts.

Developed cost-effective energy strategy with asset reconfiguration, contract restructuring, and permit modifications for Massachusetts Water Resources Authority; plant now participates in ISO-NE energy and capacity markets.

Implemented direct gas service via Algonquin Gas Transmission and evaluated cogeneration options for Phelps Dodge copper plant in Connecticut.

Developed inside-the-fence cogeneration and fuel strategy for Arizona paper mill.

Identified optimal cogeneration plant configuration and fuel supply for City of Holyoke municipal utility.

FINANCIAL ANALYSIS & VALUATION

Estimated ratepayer damages due to questionable inclusion of costs in the Environmental and Ecological Adjustment component of Cleveland Public Power retail rates for residential and commercial plaintiffs.

Compared power plant economics of dual-fuel capability versus firm transportation supply and documented fuel switching experience for the Eastern Interconnection Planning Collaborative (ISO-NE, PJM, TVA, MISO, and IESO) funded by U.S. DOE.

Financial and business evaluation of proposed electrical microgrid / cogeneration system in Brooklyn NY using innovative non-synchronous interconnection technology.

Assessed gas turbine market dynamics, commercial issues, and financial damages for lawsuit regarding turbine inlet fogging systems for enhancing output and efficiency.

Evaluated intended financing plan and resulting credit strength of proposed new owner of Entergy's merchant nuclear plants, including Vermont Yankee, for the Vermont DPS; prepared information requests and rebuttal testimony.

Prepared cogen investment analysis for Massachusetts Institute of Technology.

Co-authored fair market value appraisals of five 22 MW GWF Bay Area fluidized bed coke-fired power projects and the 209 MW Kalaeloa oil-fired cogeneration plant in support of financial transactions.

Advised lessor on buyout offer of wood-fired plant including future residual value.

Quantified the financial implications of purchasing an undivided equity interest in the River Bend nuclear plant in light of revised operating & maintenance expenses, revised administrative & general expenses, and changing market conditions for PECO Energy.

Evaluated pro forma assumptions and risk / returns of Malaysian power projects.

Reviewed financial feasibility of clean coal demonstration projects for DOE.

Managed steam purchase contract evaluation and internal cogeneration feasibility study for petrochemical producer in The Netherlands.

Proposed project financing options for Elektrenai plant modernization in Lithuania.

Power and fuel negotiation support for Cumbria Power, Ltd., the first English IPP.

Developed economic assumptions, financial pro formas, and equity return / risk profiles for numerous proposed power projects for ThermoElectron and clients.

Prepared long-term financial and rate forecasts of Pacific Gas & Electric for state commission filing.

Demonstrated economic viability of 10 MW diesel-based cogeneration system constructed for Hoffman Laroche in New Jersey.

GENERATION PLANNING / RESOURCE ECONOMICS

Audited Florida Power & Light's resource plan, including fuel, load, and generation.

Techno-economic cogeneration feasibility study for Algonquin Gas Transmission.

Valued existing generating plant based on alternative peaking capacity for Delmarva Power & Light.

Forecasted avoided energy / capacity costs for domestic third-party generators.

Supervised life cycle power plant economic analysis for a Fuel Use Act application.

Compared historic and projected electric use by manufacturing industry for EPRI.

LITIGATION SUPPORT AND EXPERT TESTIMONY

Submitted expert report, Evaluation and Comparison of US Wind and Skipjack Proposed Offshore Wind Project Applications, and testified before the Maryland Public Service Commission on power, economic, and environmental impacts (Case 9431).

Submitted Prefiled Testimony and testified before the Rhode Island Public Utilities Commission on the proposed Clear River Energy Center on behalf of the DPUC; addressed need and cost issues as directed by the Energy Facility Siting Board (Commission Docket 4609).

Direct and Supplemental Testimony filed with the Vermont Public Service Board on forecasted power market, air emission, and electric rate impacts due to renewable energy imports via the proposed 1,000 MW HVDC New England Clean Power Link for TDI-NE's application for a Certificate of Public Good (Docket No. 8400).

Testified before the Maryland Public Service Commission on LAI's comprehensive procurement report and recommended revisions to the Code of Maryland Regulations to implement the Offshore Wind Energy Act of 2013 (Docket RM51).

Submitted written testimony on financial, rate, operational, and regulatory impacts to the Mississippi Public Service Commission on the proposed spin-off of Entergy transmission assets and merger with ITC Holdings for the Mississippi Public Utilities Staff (Docket No. 2012-UA-358).

Submitted Supplemental Testimony and testified on economics and risk allocation of the NSP Maritime Link Compliance Filing, including the proposed Energy Access Agreement, before the Nova Scotia Utility and Review Board (Matter No. M05419).

Submitted Testimony and testified on behalf of the Vermont DPS addressing the reliability, market price, socio-economic, and environmental impacts of Vermont Yankee's potential retirement to the Vermont Public Service Board (Docket No. 7862).

Provided expert witness report on the gas turbine power market and turbine inlet cooling competition in legal malpractice suit concerning inlet fogging systems in the Ninth Judicial Court, Orange County, Florida (Case No. 2011-CA-004008-O).

Submitted expert report on alternative resource options, system reliability, market price, and socio-economic impacts of Vermont Yankee's potential retirement for the Vermont DPS in US District Court, District of Vermont (Civil Action No. 11-cv-99).

Submitted Affidavit to FERC on NYISO Demand Curve Reset parameters (excess capacity, system deliverability upgrades, and cost escalation rate) for Capability Years 2011/12 - 2013/14 on behalf of NYC generators (Docket ER11-2224-0000).

Provided an Expert Report on the Deepwater Block Island offshore wind farm contract price and electric impacts and an Advisory Opinion on regional economic impacts for the Rhode Island Economic Development Corporation; testified before the Rhode Island Public Utility Commission (Docket No. 4185).

Testified before the Virginia State Corporation Commission on behalf of Shell Energy NA regarding DVP's 2009 Integrated Resource Plan (Case No. PUE-2009-00096).

Submitted expert report and testified before the Virginia State Corporation Commission on behalf of Shell Energy NA regarding Dominion Virginia Power's 2007 Solicitation for 2011 Unit Capacity on RFP structure and bid evaluation issues (Case PUE-2008-00014).

Prepared information requests, submitted expert testimony, and testified before the Vermont Public Service Board on behalf of the Vermont DPS regarding the proposed restructuring of Entergy's merchant nuclear generation assets (Docket No. 7404).

Submitted expert report on behalf of generator group; participated in FERC Technical Conference on proposed Reliability Pricing Model mechanism to set PJM market capacity prices (FERC Dockets Nos. EL05-148 and ER05-1410).

Prepared expert report on New York and New England capacity market mechanisms and plant valuation impacts for the Mirant Corporation Equity Committee in US Bankruptcy Court (Case No. 03-46590).

Submitted FERC affidavit regarding gas turbine engineering and economic parameters to reset locational ICAP demand curve; represented NYISO at FERC Technical Conference (FERC Docket No. ER05-428).

Expert witness regarding Salton Sea binary cycle geothermal EPC contract performance and consequential damages based on plant production and market power rates before the American Arbitration Association.

Expert witness testimony for the Bridgeport RESCO waste-to-energy facility at the Connecticut PURA re avoided cost pricing in the deregulated energy market (Docket 99-03-35REO3).

Tax valuation support for gas and electric assets for Yankee Gas Company and The Connecticut Light and Power Company in Connecticut Superior Court (Docket No. CV 95-0072561S).

Expert witness report supporting PECO Energy (Exelon) decision to cancel purchase of equity interest in the River Bend nuclear plant in US District Court for the Middle District of Louisiana (Adversary Proceeding No. 98-477-B-M3).

Provided expert witness report and testified regarding contractual benefits of major coal plant turbine upgrade for Mechanical Plant Services, Inc. based on future power market values in US District Court for the Middle District of Florida, Orlando Division, (Case No. 6:99-CV-76-ORL-22A); accepted as an expert in “power project cost analysis and power price forecasting.”

Expert witness regarding economic feasibility, financing, and profitability of Mid-Atlantic Energy’s proposed cogeneration plant in West Virginia Circuit Court (Civil Action No. 95-C-214M).

Presented testimony on the relationship of independent power development fees to project capital costs before the American Arbitration Association.

PRESENTATIONS & PUBLICATIONS

“Competitive Power System Design & Operation” lecture at Zürcher Hochschule für Angewandte Wissenschaften (ZHAW) Department of Applied Sciences, May 2014-2017 and at the Hochschule Luzern (HSLU) 2014.

“East Coast Policies, Procurements, and Lessons Learned,” International Offshore Wind Partnering Forum, Newport, RI, October 2016.

“A Closer Look at Transmission Drivers in New England,” TransForum East Conference, December 2015.

“Electric System Operations and Structures” lecture at Merrimack College, November, 2015.

“Surprising Takeaways from a New Power Market Analysis” article on onshore and offshore wind economics with Dr. Angeliki Rigos, published in North American Windpower, September 2015.

“Wind Power: Economic, Environmental, Technical, and Geopolitical Considerations” lecture at HSLU, May 2015.

Presentation on “Project Application Requirements, Evaluation Criteria, and Selection” to the International Offshore Wind Partnering Forum sponsored by the Business Network for Maryland Offshore Wind, November 13, 2014.

“Power Project Economic Evaluation” lecture at Merrimack College, November 2013.

Co-authored article “Working Jointly to Develop Offshore Wind” on socio-economic benefits and coordinating offshore wind development policies, published in North American Windpower, October 2012.

Speaker on cross-industry panel: “Let's Talk Transmission: Unplugged!” at the NARUC 2012 Summer Committee Meetings, July 2012.

Primary author of “Green Gridworks” lead article on transmission integration of renewable resources, Public Utilities Fortnightly, February 2012.

Panelist at the Northeast Offshore Wind Summit addressing renewable resource penetration and outlook in the ISO-NE electricity market, 2010.

Presentation to NYISO Installed Capacity Working Group on peaker proxy technology / cost / performance, deliverability, site requirements, availability, etc, 2010.

Moderated panel on ISO-NE’s Forward Capacity Market mechanism at the Northeast Energy & Commerce Association’s 2009 Power Markets Conference.

Gas and electric market interdependency panel moderator at Platt’s 4th Annual Northeast Power Forum, 2009.

Sponsor for the Northeast Energy and Commerce and Association conference “Northeast Capacity Markets”; panel moderator on generation entry / attrition, 2007.

Conference organizer and moderator for “Capacity Markets – Impacts on Assets and Power Pricing” regarding generation and transmission investment in ISO-NE, NYISO, and PJM, 2007.

Conducted workshop “Forecasting Capacity Prices in the Northeast” and moderated panel on generation financing at Infocast Northeast Power Supply Forum, 2006.

“Financing Projects with ICAP Revenues”, Infocast Power Financing conference, 2004.

Panel moderator on “New England and Canadian LNG Projects”, Infocast Atlantic Coast LNG Conference, 2004.

Speaker, “Power Sales Contract Restructuring Issues”, at Infocast Asset Optimization and Portfolio Management Conference, 2003.

Panelist on “Southwest Connecticut Congestion”, 10th Annual New England Energy Conference, 2003.

“Fuel and Power Contracting”, Int’l District Energy Association Conference, 2002.

“Contract Restructuring”, Infocast QF & IPP conference, 2001.

“Successful Valuation and Value-Creation of Transmission Assets”, Infocast Electric Asset & Portfolio Valuation conferences, 2001.

“Evaluation of Repowering the Cabot Street Steam Station” using gas turbine technology, International District Energy Association conference, 2001.

“Plant Repowering” at the Infocast Plant Acquisition conference, 2000.

“Equipment Performance Impacts”, Infocast Merchant Peaking Plant conference, 2000.

“The Pros and Cons of Repowering” in Competitive Utility, 2000.

“The First Wave” (initial divestiture results) 1998 and “Gas versus Coal” (techno-economic study) 1995, Independent Energy magazine.

“Evaluating Technical and Construction Risk” and “The Due Diligence Process”, classes and case studies on for the Infocast Project Finance Institute, 1996-1998.

Non-utility generation and project financing classes at Stone & Webster Utility Management Development Program, 1989-96; General Electric, 1991-94; IBM 1994.

"Self Generation under Competitive Bidding", 1989 Cogen & IPP Congress.

EDUCATION

International Gas Turbine Institute course
Basic Gas Turbine Technology, 1996

Kennedy School (Harvard University) courses
International Political Economy, 1993
International Geopolitics of Oil, 1982

Wharton Graduate School (Univ. of Pennsylvania)
MBA in Finance / Operation Research, 1978

Brown University
Sc.B. in Applied Mathematics / Economics, 1976

MISCELLANEOUS

Member of the Newton Solid Waste Commission, 2011-2015

Board of Directors, Northeast Energy and Commerce Association, 2007-2011.

President and volunteer, Watertown Recycling Center; served on Watertown Trash and Recycling Committee that initiated curbside pickup 1990-1996.

Adjunct faculty lecturer in finance, Golden Gate University, 1979-1980.

Optimum yield resource management, National Oceanic and Atmospheric Administration, 1977.

Member of Mayor's Waterfront Development Committee and Interface: Providence urban design team, 1974-1976.