

Rochester Gas and Electric Corporation

Rochester Transmission Project Enhancement

Appendix B

Pre-Filed Direct Testimony

APPENDIX B: PRE-FILED DIRECT TESTIMONY

Pre-filed direct testimony in support of the Application for the Project is presented by witnesses by subject area, as follows:

Witnesses	Exhibits Sponsored
Jairo Alvarado	Exhibit 5 – Design Drawings Exhibit E-1 – Description of Proposed Transmission Line Exhibit E-3 – Underground Construction Exhibit E-4 – Engineering Justification
Javier Mauricio Gonzalez Araque	Exhibit 5 – Design Drawings Exhibit E-2 – Other Facilities
Shafqat Ayub	Exhibit 9 – Cost of Proposed Facilities
Richard Bennett	Exhibit E-6 – Effect on Transportation
Jeffrey Castle	Exhibit 3 – Alternatives
Carol Howland	Exhibit 1 – General Information Regarding Application Exhibit 2 – Location of Facilities Exhibit 3 – Alternatives Exhibit 4 – Environmental Impact Exhibit 6 – Economic Effects of Proposed Facility Exhibit 7 – Local Ordinances Exhibit 8 – Other Pending Filings Exhibit E-5 – Effect on Communications Exhibit E-6 – Effect on Transportation
Masoud Kashani	Exhibit 5 – Design Drawings Exhibit E-2 – Other Facilities Exhibit E-4 – Engineering Justification
Sophia Ma	Exhibit 5 – Design Drawings Exhibit E-1 – Description of Proposed Transmission Line Exhibit E-3 – Underground Construction
Christopher Morin	Exhibit 3 – Alternatives Exhibit E-4 – Engineering Justification
Jon Russel	Exhibit 1 – General Information Regarding Application Exhibit 9 – Cost of Proposed Facilities

Ben Virts	Exhibit 2 – Location of Facilities Exhibit 4 – Environmental Impact Exhibit 6 – Economic Effects of Proposed Facility Exhibit 8 – Other Pending Filings Exhibit E-5 – Effect on Communications
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Monroe County x

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DIRECT TESTIMONY OF

JAIRO ALVARADO

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Jairo Alvarado

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Jairo Alvarado. I am employed by Rochester Gas & Electric Corporation
3 (RG&E), a subsidiary company of Avangrid Networks, Inc. (Avangrid). My business
4 address is 1300 Scottsville Road, Rochester, NY, 14624.

5 **Q. In what capacity are you employed?**

6 **A.** I am the Lead Transmission Engineer for the Integrated Projects Department at
7 Avangrid.

8 **Q. Please summarize your education and professional background.**

9 **A.** I received a Bachelor of Science degree in Civil Engineering from Gran Colombia
10 University, and a Bachelor of Science degree in Civil Constructions from Polytechnic
11 University of Madrid. I have more than 20 years of professional experience in
12 engineering development for transmission system projects. My work has involved the
13 analysis, engineering and oversight of electric transmission line and substation
14 projects.

15 **Q. Please describe your role in the Project.**

16 **A.** For the Project, I have advised RG&E's consultants on the selection of the technical
17 solutions and engineering requirements. I have reviewed the routing analysis, draft
18 exhibits, and conceptual drawings prepared by RG&E's consultants, including
19 checking them for consistency with RG&E's standard practices.

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Jairo Alvarado

1 **Q. What portion(s) of the Application do you sponsor?**

2 **A.**I sponsor the following exhibits, which were prepared by me or under my supervision
3 and direction:

- 4 • Exhibit 5 (Design Drawings);
- 5 • Exhibit E-1 (Description of Proposed Transmission Line);
- 6 • Exhibit E-3 (Underground Construction); and
- 7 • Exhibit E-4 (Engineering Justification)

8 **Q. Does this conclude your testimony?**

9 **A.**Yes.

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DIRECT TESTIMONY OF

JAVIER MAURICIO GONZALEZ ARAQUE

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Javier Mauricio Gonzalez Araque

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Javier Mauricio Gonzalez Araque. I am employed by Rochester Gas and
3 Electric Corporation (RG&E). My business address is 1300 Scottsville Road,
4 Rochester, NY 14624.

5 **Q. In what capacity are you employed?**

6 **A.** I serve as Principal Engineer for Projects.

7 **Q. Please summarize your education and professional background.**

8 **A.** I received a Bachelor of Science in Electrical Engineering from Universidad
9 Pontificia Bolivariana in 1997. I have more than 20 years of experience as substation
10 engineer on a variety of electric utility infrastructure projects. I have served in my
11 current position since March 2018. Prior to this position, I was a supervisor of
12 substation engineering for RG&E from September 2014 to March 2019 and I was
13 Senior Substation Engineer for IBERDROLA in Spain from February 2007 to May
14 2012.

15 **Q. Please describe your role in the Project.**

16 **A.** For the Project, I served as the Principal Engineer responsible for coordination and
17 oversight of the engineering team with regard to transmission line relocation and
18 substation engineering; site selection; site design; and studies required for the
19 Application. I also assisted in the preparation of certain exhibits.

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Javier Mauricio Gonzalez Araque

1 **Q. What portion(s) of the Application do you sponsor?**

2 **A.** I sponsor the following exhibits, which were prepared by me or under my supervision
3 and direction:

- 4 • Exhibit 5 (Design Drawings); and
5 • Exhibit E-2 (Other Facilities).

6 **Q. Does this conclude your testimony?**

7 **A.** Yes.

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DIRECT TESTIMONY OF

SHAFQAT AYUB

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Shafqat Ayub

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Shafqat Ayub. I am employed by WSP USA to work for Rochester Gas
3 and Electric Corporation (RG&E). My business address is 1300 Scottsville Road,
4 Rochester, NY 14624.

5 **Q. In what capacity are you employed?**

6 **A.** I am the Manager of Estimating for RG&E's Bulk Electric System (BES) Program.

7 **Q. Please summarize your education and professional background.**

8 **A.** I received a Bachelor of Science in degree in Electrical Engineering from University
9 of San Carlos Philippines. I am a Licensed Engineer in Alberta Canada. I have more
10 than 30 years of professional experience in electrical engineering, construction,
11 project management, and project estimating. My work has involved project
12 estimating, cost tracking, historical data maintenance, and project risk identification
13 to understand and anticipate their effect on project cost.

14 **Q. Please describe your role in the Project.**

15 **A.** For the Project, my work has involved pre-conceptual and conceptual cost estimation.

16 **Q. What portion(s) of the Application do you sponsor?**

17 **A.** I sponsor the following exhibit, which was prepared by me or under my supervision
18 and direction:

- 19
 - Exhibit 9 (Cost of Proposed Facilities).

20 **Q. Does this conclude your testimony?**

21 **A.** Yes.

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DIRECT TESTIMONY OF

RICHARD BENNETT

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Richard Bennett

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Richard Bennett. I am employed by LaBella Associates. My business
3 address is 300 State Street, Suite 201, Rochester, NY 14614.

4 **Q. In what capacity are you employed?**

5 **A.** I am a Senior Transportation Engineer.

6 **Q. Please summarize your education and professional background.**

7 **A.** I received a Bachelor of Science degree in Civil Engineering Technology from
8 Rochester Institute of Technology. I have 24 years of experience in transportation
9 design, permitting and regulatory compliance, and project development and
10 management. My work has involved the planning, development, and technical design
11 of transportation facilities and affected utilities.

12 **Q. Please describe your role in the Project.**

13 **A.** For the Project, I directed the development of the effects on transportation exhibit.
14 This work included the review of Project alignments and their potential effect on
15 transportation systems.

16 **Q. What portion(s) of the Application do you sponsor?**

17 **A.** I sponsor the following exhibit, which was prepared by me or under my supervision
18 and direction:

- 19 • Exhibit E-6 (Effect on Transportation).

20 **Q. Does this conclude your testimony?**

21 **A.** Yes.

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DIRECT TESTIMONY OF

JEFFREY CASTLE

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Jeffrey Castle

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Jeffrey Castle. I am employed by LaBella Associates. My business
3 address is 300 State Street, Suite 201, Rochester, NY, 14614.

4 **Q. In what capacity are you employed?**

5 **A.** I am a Permitting and Compliance Specialist.

6 **Q. Please summarize your education and professional background.**

7 **A.** I received a Bachelor of Arts degree in Geology and Economics from Hamilton
8 College and a Graduate Certificate in Ecological Economics from the University of
9 Vermont. I have 5 years of experience in permitting and regulatory compliance and
10 10 years of experience in environmental science and natural resources. My work has
11 involved planning and development review at the local and county level,
12 administration of county agricultural districts, and environmental impact assessment.

13 **Q. Please describe your role in the Project.**

14 **A.** For the Project, I assisted with the preparation of the alternatives exhibit for the
15 application. This included the review and analysis of alternative routes and their
16 comparative impacts to the proposed route.

17 **Q. What portion(s) of the Application do you sponsor?**

18 **A.** I sponsor the following exhibit, which was prepared by me or under my supervision
19 and direction:

- 20
 - Exhibit 3 (Alternatives).

21 **Q. Does this conclude your testimony?**

22 **A.** Yes.

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DIRECT TESTIMONY OF

CAROL HOWLAND

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Carol Howland

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Carol Howland. I am employed by Rochester Gas and Electric
3 Corporation (RG&E). My business address is 18 Link Drive, P.O. Box 5224,
4 Binghamton, NY 13902-5224.

5 **Q. In what capacity are you employed?**

6 **A.** I am the Manager – Environmental Permitting for RG&E.

7 **Q. Please summarize your education and professional background.**

8 **A.** I received an Associates of Science degree in Chemistry from Broome Community
9 College and a Bachelor of Science degree in Chemistry from Binghamton University.
10 I am a Certified Professional in Erosion and Sediment Control (CPESC), and a
11 licensed Professional Engineer (PE) in the State of New York. I have more than 33
12 years of professional experience in environmental assessment and licensing for utility
13 projects. My work has involved overseeing environmental analyses and permitting
14 for coal generation facilities, hydroelectric projects, electric transmission lines, gas
15 pipelines, and substation projects. I have also served as the environmental monitor
16 and stormwater inspector for utility construction projects.

17 **Q. Please describe your role in the Project.**

18 **A.** For the Project, I have advised RG&E's consultant on environmental regulatory
19 requirements, consulted with the environmental agencies, and have reviewed the
20 routing analysis, draft exhibits, and conceptual drawings prepared by RG&E's
21 consultants, including checking them for consistency with RG&E's standard practice.

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Carol Howland

1 **Q. What portion(s) of the Application do you sponsor?**

2 **A.** I sponsor the following exhibits, which were prepared by me or under my supervision
3 and direction:

- 4 ● Exhibit 1 (General Information Regarding Application);
- 5 ● Exhibit 2 (Location of Facilities);
- 6 ● Exhibit 3 (Alternatives);
- 7 ● Exhibit 4 (Environmental Impact);
- 8 ● Exhibit 6 (Economic Effects of Proposed Facility);
- 9 ● Exhibit 7 (Local Ordinances);
- 10 ● Exhibit 8 (Other Pending Filings);
- 11 ● Exhibit E-5 (Effect on Communications); and
- 12 ● Exhibit E-6 (Effect on Transportation).

13 **Q. Does this conclude your testimony?**

14 **A.** Yes.

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DIRECT TESTIMONY OF

MASOUD KASHANI

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Masoud Kashani

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Masoud Kashani. I am employed by WSP USA to work for Rochester
3 Gas and Electric Corporation (RG&E) as Owner’s Engineer. My business address is
4 1300 Scottsville Road, Rochester, NY 14624.

5 **Q. In what capacity are you employed?**

6 **A.** I am the Engineering Coordinator for Business Unit 1 of the Bulk Electric System
7 Program, which includes the Rochester Transmission Project Enhancement (the
8 Project).

9 **Q. Please summarize your education and professional background.**

10 **A.** I received a Bachelor’s degree in Electrical Engineering from Sharif University of
11 Technology. I am a Certified Project Management Professional (PMP) and a licensed
12 Professional Engineer (P.E.) in Ontario. I have more than 30 years of professional
13 experience in electrical substation design, construction and commissioning. My work
14 has involved network studies, electrical engineering design, overseeing activities of
15 engineers and designers, and coordination with other disciplines including civil,
16 structural, transmission lines and mechanical.

17 **Q. Please describe your role in the Project.**

18 **A.** For the Project, I have coordinated a team of engineers to review the engineering
19 design. I also assisted in the preparation of certain exhibits.

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Masoud Kashani

1 **Q. What portion(s) of the Application do you sponsor?**

2 **A.** I sponsor the following exhibits, which were prepared by me or under my supervision
3 and direction:

- 4 ● Exhibit 5 (Design Drawings);
5 ● Exhibit E-2 (Other Facilities); and
6 ● Exhibit E-4 (Engineering Justification).

7 **Q. Does this conclude your testimony?**

8 **A.** Yes.

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DIRECT TESTIMONY OF

SOPHIA MA

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Sophia Ma

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Sophia Ma. I am employed by WSP USA working for Rochester Gas and
3 Electric Corporation (RG&E) as an Owner's Engineer. My business address is 1300
4 Scottsville Road, Rochester, NY, 14624.

5 **Q. In what capacity are you employed?**

6 **A.** I am the Supervising Transmission Line Engineer for the Project.

7 **Q. Please summarize your education and professional background.**

8 **A.** I received a bachelor's degree in electrical engineering from Wuhan University in
9 China and a master's degree in electrical engineering from Concordia University in
10 Canada. I am a licensed engineer in the State of Texas. I have more than 25 years of
11 professional experience in transmission line engineering. My work has involved all
12 stages of overhead and underground transmission line engineering work for line
13 voltages ranging from 4 kilovolts (kV) up to 500 kV AC and ± 500 kV DC.

14 **Q. Please describe your role in the Project.**

15 **A.** For the Project, I have advised RG&E's engineering consultants on the selection of
16 technical solutions and applicable national/RG&E standards. I have reviewed routing
17 analysis, exhibits, and conceptual drawings prepared by the consultants to make sure
18 the engineering design is consistent with RG&E's standard practices and meets the
19 requirement of the National Electric Safety Code.

20 **Q. What portion(s) of the Application do you sponsor?**

21 **A.** I sponsor the following exhibits, which were prepared by me or under my supervision
22 and direction:

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Sophia Ma

- 1 ● Exhibit 5 (Design Drawings);
- 2 ● Exhibit E-1 (Description of Proposed Transmission Line); and
- 3 ● Exhibit E-3 (Underground Construction).

4 **Q.** **Does this conclude your testimony?**

5 **A.** Yes.

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DIRECT TESTIMONY OF

CHRISTOPHER MORIN

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Christopher Morin

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Christopher Morin. I am employed by Avangrid Networks, Inc. My
3 business address is 83 Edison Drive, Augusta, Maine 04336.

4 **Q. In what capacity are you employed?**

5 **A.** I am the Manager – Transmission Planning.

6 **Q. Please summarize your education and professional background.**

7 **A.** I received a Bachelor of Science degree in Electrical Engineering from the University
8 of Southern Maine. I am a Licensed Professional Engineer (PE) in the State of
9 Maine. I have more than 11 years of professional experience in transmission
10 planning in the utility industry. My work has involved overseeing large scale
11 transmission planning studies across Maine, New York and Connecticut, specifically
12 in identifying system deficiencies and associated corrective action plans. In addition,
13 I have overseen numerous load and generator interconnection studies covering both
14 transmission and distribution systems.

15 **Q. Please describe your role in the Project.**

16 **A.** For the Project, I oversaw the comprehensive Bulk Electric System transmission
17 planning study that identified the reliability need for the Project and ensured
18 Rochester Gas and Electric’s compliance with the North American Electric
19 Reliability Corporation (NERC) Transmission Planning (TPL) Standards.
20 Specifically, this involved the review and development of system models to ensure
21 the appropriate level of stress was captured, reviewing system deficiencies/needs that
22 were identified and developed the associated Project scope.

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Christopher Morin

1 **Q. What portion(s) of the Application do you sponsor?**

2 **A.** I sponsor the following exhibits, which were prepared by me or under my supervision
3 and direction:

- 4 • Exhibit 3 (Alternatives); and
5 • Exhibit E-4 (Engineering Justification).

6 **Q. Does this conclude your testimony?**

7 **A.** Yes.

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DIRECT TESTIMONY OF

JON RUSSELL

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Jon Russell

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Jon Russell. I am employed by Rochester Gas and Electric Corporation
3 (RG&E). My business address is 1300 Scottsville Rd, Rochester NY 14624.

4 **Q. In what capacity are you employed?**

5 **A.** I am the Project Manager for the Rochester Transmission Project Enhancement
6 (the Project).

7 **Q. Please summarize your education and professional background.**

8 **A.** I am a graduate of the United States Naval Nuclear Power Program. After
9 completing my military service, I worked in the commercial nuclear industry field. I
10 have more than 20 years of professional experience in nuclear generation and
11 electrical transmission projects. My work at RG&E has included scheduling and cost
12 control, and project management for electric transmission lines and electric
13 substations.

14 **Q. Please describe your role in the Project.**

15 **A.** I serve as the Project Manager, responsible for coordination and oversight for the
16 Project. I have reviewed draft exhibits for the Application and conceptual Project
17 drawings.

18 **Q. What portion(s) of the Application do you sponsor?**

19 **A.** I sponsor the following exhibits, which were prepared by me or under my supervision
20 and direction:

- 21 ● Exhibit 1 (General Information Regarding Application); and
- 22 ● Exhibit 9 (Cost of Proposed Facilities).

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Jon Russell

1 **Q.** **Does this conclude your testimony?**

2 **A.** Yes.

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DIRECT TESTIMONY OF

BEN VIRTS

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Ben Virts

1 **Q. Please state your full name, employer, and business address.**

2 **A.** My name is Ben Virts. I am employed by WSP, USA and work as an embedded
3 resource supporting Rochester Gas and Electric Corporation (RG&E). My business
4 address is 1300 Scottsville Road, Rochester, NY, 14624.

5 **Q. In what capacity are you employed?**

6 **A.** I am the New York BES Environmental Permitting Manager for RG&E.

7 **Q. Please summarize your education and professional background.**

8 **A.** I received a Bachelor of Science degree in Environmental Science from Virginia
9 Tech. I hold a Professional Wetland Scientist (PWS) Certification and I have more
10 than 20 years of professional experience in environmental assessment and permitting
11 for a variety of project types including utility projects. My work has involved
12 performing and overseeing environmental studies, analyses and permitting for electric
13 transmission lines, electric substations, renewable energy facilities and gas pipeline
14 projects. I have also served as the environmental monitor and stormwater inspector
15 for construction projects.

16 **Q. Please describe your role in the Project.**

17 **A.** For the Project, I have coordinated and advised RG&E's consultants on
18 environmental regulatory requirements, consulted with the environmental agencies,
19 and have reviewed draft exhibits and conceptual drawings including checking them
20 for consistency with RG&E's standard practice.

*ROCHESTER GAS AND ELECTRIC CORPORATION
ARTICLE VII AMENDMENT APPLICATION (ELECTRIC FACILITY)*

Ben Virts

1 **Q. What portion(s) of the Application do you sponsor?**

2 **A.** I sponsor the following exhibits, which were prepared by me or under my supervision
3 and direction:

- 4 ● Exhibit 2 (Location of Facilities);
- 5 ● Exhibit 4 (Environmental Impact);
- 6 ● Exhibit 6 (Economic Effects of Proposed Facility);
- 7 ● Exhibit 8 (Other Pending Filings); and
- 8 ● Exhibit E-5 (Effect on Communications).

9 **Q. Does this conclude your testimony?**

10 **A.** Yes.