

GRANITE STATE ELECTRIC COMPANY
d/b/a NATIONAL GRID
DE 10-____
Witness: Walter

PRE-FILED DIRECT TESTIMONY
OF
JOHN E. WALTER

1 **I. Introduction and Qualifications**

2 Q. Mr. Walter, please state your name and business address.

3 A. John E. Walter, 144 Kensington Avenue, Buffalo, New York 14214.

4
5 Q. By whom are you employed and in what capacity?

6 A. I am the Manager Outdoor Lighting for National Grid USA, including Granite State
7 Electric Company (“National Grid” or the “Company”).

8
9 Q. Please describe your educational background and business experience.

10 A. I am a graduate of Clarkson College of Technology, (presently Clarkson University),
11 located in Potsdam, New York with Bachelor and Masters of Science degrees in Civil
12 and Environmental Engineering in 1979 and 1981, respectively. I received a Masters in
13 Business Administration degree from the State University of New York at Buffalo in
14 1996. I am a registered professional engineer in the State of New York. I provided civil,
15 structural and geotechnical engineering and project management services to D’Appolonia
16 Consulting Engineers, Pittsburgh, PA (1981-1983) and Niagara Mohawk Power
17 Corporation (“Niagara Mohawk”), Syracuse, NY (1983-1990). I transferred to a position
18 of Manager Construction, Inspection and Street Lighting in the Operations organization
19 of Niagara Mohawk’s Western Division, (Buffalo, NY), having managerial
20 responsibilities of all field construction and maintenance associated within these work
21 groups from 1990 – 1999. In 1999, I took the position of Director Outdoor Lighting for
22 Niagara Mohawk, having responsibilities for all outdoor lighting business related
23 functions. Following the merger of Niagara Mohawk and National Grid USA in 2002, I

1 retained the position and associated responsibilities of Director Outdoor Lighting – NY.

2 In 2008, I became Manager Outdoor Lighting, having responsibility for all policies,
3 processes, information systems, and regulatory issues associated with the outdoor lighting
4 business in National Grid’s New England and upstate New York service territories.

5
6 Q. Have you previously testified before the New Hampshire Public Utilities Commission
7 (the “Commission”) or any other regulatory commissions?

8 A. While I have not testified before the Commission, I have provided testimony before the;
9 Massachusetts Department of Public Utilities in a rate case involving Massachusetts
10 Electric Company and Nantucket Electric Company, Rhode Island Public Utilities
11 Commission in a rate case involving the Narragansett Electric Company and the New
12 York Public Service Commission in a rate case and three other cases that were
13 consolidated in a single proceeding that related to the outdoor lighting business of
14 Niagara Mohawk.

15
16 **II. Purpose of Testimony**

17 Q. What is the purpose of your testimony?

18 A. My testimony presents the Company’s proposed tariff changes associated with a part-
19 night option (“Part-Night Option”) regarding the hours of operation of street lighting
20 service for customers taking service under the Company’s Outdoor Lighting Rate M.

21
22 **III. Part-Night Option**

23 Q. Briefly describe the Part-Night Option proposed by National Grid.

1 A. As set forth on the proposed Sixth Revised Page 59 through Original Page 64 (pages
2 associated with Outdoor Lighting Service Rate M) of the Company's tariff, which are
3 attached as Schedule JEW-1, the Company is proposing a new option under its "Hours of
4 Operation" which allows for "part-night hours of operation" in addition to "full-night
5 service", or "normal" hours of operation." Under the Company's existing Rate M, all
6 street lights are deemed to be in operation from approximately one half hour after sunset
7 until approximately one half hour before sunrise (dusk-to-dawn). Under the proposed
8 tariff provision, customers can select the Part-Night Option if the customer seeks
9 roadway illumination during initial night time hours with street lights turning off during
10 the later night time hours when there is low traffic volume in order to conserve energy
11 usage.

12

13 Q. What is the typical function of the luminaire under this Part-Night Option?

14 A. Under the proposed tariff, the luminaire would be in operation on a partial basis whereby
15 it would turn-on at approximately one-half (1/2) hour after sunset (dusk) and operate for a
16 period equal to one-half (1/2) of the prior nights dusk-to-dawn cycle at which time the
17 luminaire will turn off, remaining off for a period of five and one-half (5 1/2) hours at
18 which time it will turn on if ambient light conditions are less than observed at dusk until
19 approximately one-half (1/2) hour before sunrise (dawn).

20

21 Q. Why is National Grid proposing the Part-Night Option?

22 A. National Grid recognizes customer demand for cost savings initiatives associated with
23 outdoor lighting service. This savings may be achieved through the reduced electric

1 consumption of the luminaire during the off cycle occurring each night. This energy
2 savings, in aggregate, also provides a positive environmental enhancement through
3 reduced sky glow and potential power plant carbon emission reduction. Additionally, the
4 Part-Night Option is compliant with House Bill 585 and further supports the state's clean
5 energy initiatives.

6
7 Q. Why is National Grid proposing an operating schedule that will turn lights back on prior
8 to dawn?

9 A. During certain periods of the year when dawn occurs later in the morning, early morning
10 commuter traffic, school buses and waiting school age children create a high potential for
11 vehicle - pedestrian conflict in a dark environment. The proposed Part-Night Option
12 operating cycle reduces this potential conflict by operating the lights during the calendar
13 months when it remains dark longer in the morning hours.

14
15 Q. Are there any restrictions which prevent the customer from selecting the Part-Night
16 Option?

17 A. No. A customer can select either services for new lighting installations or request to
18 change the mode of operation for all or some of its existing street lights.

19
20 Q. How will the Company notify customers of the availability of the Part-Night Option?

21 A. The Company's municipal account managers will notify municipal customers of the
22 availability of the Part-Night Option once it is approved by the Commission.

23

1 Q. How will National Grid manage the requests for Part-Night service?

2 A. National Grid will process the requests on an as-received basis. Work orders will be
3 created for each individual light specified for an operation option change. These orders
4 will be scheduled and the work performed similar to all other lighting work orders.
5 Billing changes will become effective following the completion of each work order and
6 will be reflected on the next bill cycle. Any cost reimbursements due from the customer
7 and the applicable Part-Night Charge to retrofit the street lights affected will be billed to
8 the customer once all work has been performed.

9

10 Q. Describe the initial customer costs associated with the Part-Night Option.

11 A. Under the Company's proposal, the customer would be responsible for providing the
12 appropriate services or the reimbursement of costs associated with any work zone
13 protection, traffic control or permit fees required to perform the facility installation.
14 Additionally, a Part Night Charge as proposed in the tariff is assessed per luminaire
15 modified.

16

17 Q. Describe the bill impact associated with the Part-Night Option.

18 A. There are no facility pricing impacts associated with a change between Full-Night
19 Service and Part-Night Service (i.e., the luminaire charge under both services is the
20 same). The billing associated with the energy usage by each respective luminaire/lamp
21 combinations is lower for Part-Night Service than Full-Night Service due to the reduced
22 burning hours of the light.

23

1 Q. Describe the energy usage reduction associated with the Part-Night Option.

2 A. The billing for energy-based charges would be based upon 2,448 hours of operation
3 annually for the Part-Night Option as compared to 4,175 hours annually for Full-Night
4 Service street lighting. The difference between the two operating schedules represents
5 the operating time savings. The actual energy cost savings is dependant upon the lamp
6 type wattage and luminaire. The table containing the determination of the Part-Night
7 hours of operation is included in Schedule JEW-2.

8

9 Q. Briefly describe the Part Night Charge.

10 A. The Part Night Charge represents the average costs incurred by the Company associated
11 with an individual round trip to the specific existing light location and the work effort and
12 material necessary to change the operating control.

13

14 Q. Why does the Company propose a Part Night Charge?

15 A. The costs related to a retrofitting a street light to provide Part-Night Service have never
16 been incurred by the Company in the past and therefore are not a part of the Company's
17 rates. Because the customer is requesting a service for which the Company would not
18 have otherwise been required to perform, the cost of such service should be borne by the
19 customer. The Part Night Charge, which is proposed at \$150.00 per application (light),
20 was developed as a consistent and easy to administer method to recover the costs of this
21 service. The calculation of the Part Night Charge is presented in Schedule JEW-3. The
22 Company is proposing that the Part Night Charge also be assessed should a customer
23 request to transfer back to Full-Night Service from Part-Night Service.

1

2 Q. Is National Grid proposing any other changes to the tariff?

3 A. The Company proposes minor, non-substantive clarifying changes to its tariff for Rate M.

4 For example, the Company has revised the “Availability” section of the tariff to clarify

5 that the “public lighting” provisions apply to the State, municipalities and other public

6 entities as well as installations on tunnels and bridges, and provided some clarifying

7 language regarding “private lighting.”

8

9 Q. What is the proposed effective date of the revised tariff?

10 A. The Company proposes these revisions become effective on a service rendered basis as of

11 January 1, 2011.

12

13 **IV. Conclusion**

14 Q. Does this conclude your testimony?

15 A. Yes.