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July 8, 2011

EMAIL and HAND DELIVERY

Luly E. Massaro, Commission Clerk
Rhode Island Public Utilities Commission
89 Jefferson Boulevard
Warwick, RI 02888

Re: Review of Power Purchase Agreement With Orbit Energy Rhode Island, LLC Pursuant to R.I. Gen. Laws § 39-26.1 et seq.; Docket No. 4265

Dear Ms. Massaro:

This firm, along with Paul Corey, Esq., represents Orbit Energy Rhode Island, LLC in connection with this matter. Attorney Corey will be requesting *pro hac vice* permission from the Rhode Island Supreme Court to appear at the July 28, 2011 hearing in this matter pursuant to the directives set forth in the Commission's July 3, 2011 memorandum.

Orbit Energy fully supports the filing made by National Grid on June 22, 2011. In further support, Orbit Energy respectfully submits the enclosed testimony of Anwar Shareef, Manager of Orbit Energy. Mr. Shareef will be present at the July 28, 2011 hearing to answer any further questions from the Commission.

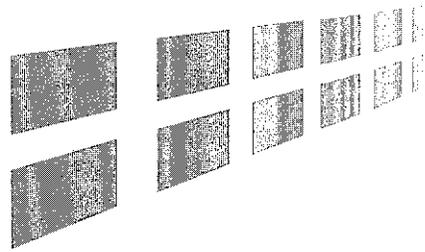
Thank you for your attention to this matter.

Sincerely,



Brian J. Lamoureux (#6211)

Luly E. Massaro, Commission Clerk
July 8, 2011



Enclosure

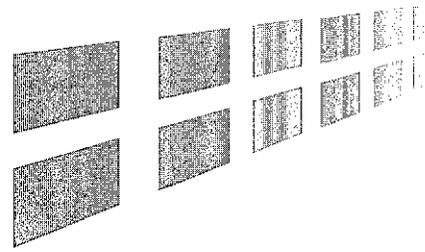
CERTIFICATION:

Pursuant to Commission Rule 1.7(d), I hereby certify that this letter and its enclosure were sent to the following via first class mail on July 8, 2011:

cc: Paul Corey, Esq. (email, w/ enclosure)
Gary R. Pannone, Esq. (email, w/ enclosure)
Service List (see attached)

Brian J. Lamoureux (#6211)

Luly E. Massaro, Commission Clerk
 July 8, 2011



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STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS

RHODE ISLAND PUBLIC UTILITIES COMMISSION

**Review of Orbit Energy Rhode Island, LLC
Power Purchase Agreement
Pursuant to R.I. Gen. Laws § 39-26.1 *et seq.***

Docket No. 4265

DIRECT TESTIMONY

OF

**S. ANWAR SHAREEF
Chief Executive Officer and Chairman, Orbit Energy, Inc.
Manager, Orbit Energy Rhode Island, LLC**

1 **I. Introduction**

2 **Q. Please state your name and business address.**

3 **A.** My name is S. Anwar Shareef, and my business address is 3310 Benson Drive, Suite 535,
4 Raleigh, NC 27609.

5 **Q. Please state your position with Orbit Energy, Inc. and Orbit Energy Rhode Island,**
6 **LLC.**

7 **A.** I am Chief Executive Officer and Chairman of Orbit Energy, Inc., and Manager of Orbit
8 Energy Rhode Island, LLC.

9 **Q. Please describe your general background and qualifications.**

10 **A.** I obtained a bachelor's degree in chemical engineering from Middle East Technical
11 University (Ankara, Turkey) and an MBA in Marketing and Finance from Auburn University in
12 Alabaman. In 1990, I founded Alpha-Gamma Technologies, Inc. (AGTI), a technical research
13 and consulting firm based in Raleigh, North Carolina which provides technical services in the
14 areas of energy, environment, and biotechnology to U.S. government agencies and Fortune 100
15 companies. I have been the CEO of Orbit Energy, Inc. since 2006.

16 **Q. Please tells us about your experience with HSAD technology.**

17 **A.** I have been involved in developing and promoting HSAD technology for the last several
18 years. I became the international licensee for HSAD soon after the U.S. Department of Energy
19 transferred the technology to the private sector. Subsequently, I led further development and
20 commercialization efforts for HSAD and took over the responsibilities of CEO of Orbit Energy,
21 Inc. in 2006.

1 **Q. Please tell us about Orbit Energy's mission and business model.**

2 Orbit Energy is located in Raleigh, North Carolina. Its mission is to be a significant part of the
3 renewable energy revolution with a focus on harvesting renewable energy from organic wastes.
4 Some examples of these wastes include food waste, yard waste, food processing waste, animal
5 wastes, and municipal solid wastes. These organic wastes are best suited to the HSAD
6 technology and are generally unacceptable for other alternative energy technologies. Our overall
7 business model is to build, own, and operate regional HSAD facilities. Successful
8 implementation of our HSAD technology will generate sustainable sources of energy, reduce
9 greenhouse gas emissions and create green jobs.

10 Orbit Energy owns a 12 ton per day HSAD plant in Clinton, NC. The Clinton Plant, consisting of
11 a 20 ft and 40 ft digester, has operated since 2002 and has received funding from major federal,
12 state, and private agencies to demonstrate the effectiveness of HSAD technology. Funding
13 agencies include the U.S. Department of Energy, the U.S. Army, the U.S. Trade and
14 Development Agency, the State of North Carolina, and the Golden Leaf Foundation. This facility
15 is currently processing food waste from local Walmart stores.

16 Orbit has plans to build 15 facilities across the U.S. over the next three years. Currently Orbit
17 Energy is in final stages of negotiations with Duke Energy Carolinas for a 4.8MW PPA for a
18 plant to be located in Charlotte, NC. Additionally Orbit is developing a plant in the Seattle-
19 Tacoma, WA area and in several locations in Northern California with site selection near
20 finalization and interconnect studies due to begin.

21 **Q. Please tell us about some of the unique beneficial qualities associated with HSAD.**

22 A. Among other things, Orbit Energy's HSAD plants:

- 23
 - Generate electricity from renewable resources;

- 1 • Reduce greenhouse gas emissions;
- 2 • Add “green” jobs; and
- 3 • Extend the useful life of landfills

4 **Q. Please provide more details regarding the HSAD technology.**

5 Orbit’s HSAD technology is a zero waste process that converts organic wastes such as food
6 scraps, agricultural waste, green waste, paper/cardboard, and animal wastes to biogas/electricity
7 and nitrogen rich compost with no residual solid wastes or waste water discharges.

8 The biogas, which is about 65% methane, will be used to fuel two 1.6 MW generator sets. The
9 facility will process approximately 120 tons per day of organic waste, primarily food scraps.
10 Reducing the amount of organic waste disposed in the Central Landfill is a top initiative of the
11 Rhode Island Resource Recovery Corporation and Orbit’s plant will be a significant step in that
12 direction. Orbit’s HSAD technology also presents an opportunity to produce electricity at a
13 competitive rate while lowering the cost of solid waste disposal.

14 **Q. Please succinctly describe your proposal.**

15 **A.** Orbit Energy proposes to use its proprietary HSAD technology to generate biogas and
16 compost from food scraps at its plant located adjacent to the Central Landfill owned and
17 operated by the Rhode Island Resource Recovery Corporation (RIRRC). Orbit Energy has signed
18 a 15-year lease for the site located at Lot 5B Green Earth Lane in Johnston, RI with RIRRC,
19 along with an option to purchase the site. Orbit Energy has also signed a Power Purchase
20 Agreement (PPA) with National Grid.

21 **Q. Please identify the timeline for your proposal as well as its general impact on the**
22 **local economy (i.e. employment).**

1 Orbit Energy has contracted with an engineering firm with professional engineers licensed and
2 experienced in Rhode Island to assist with plant permitting process. Construction on the plant is
3 scheduled to begin in 2012 with projected date of operation by September 2013. Orbit Energy
4 considers the projected timeline to be achievable.

5 This new facility will generate a \$15 million investment in Johnston, RI. Construction is
6 expected to start in 2012, providing 20 full-time jobs during the one-year construction period.
7 Operation of the facility will provide 12 full-time jobs.

8 **Q. Have you read the pre-filed testimony of Madison N. Milhous, Jr., dated June 22,**
9 **2011, filed in this matter?**

10 **A. Yes.**

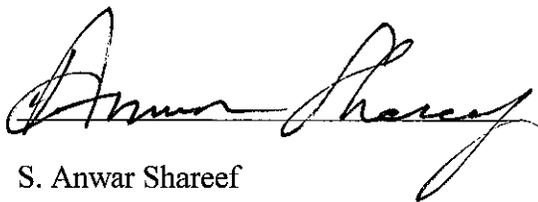
11 **Q. Do you have anything to add to Mr. Milhous's testimony, other than the answers set**
12 **forth above?**

13 **A. No, not at this time. However, I will be available for further questions and to provide**
14 **additional information at the public hearing of this matter.**

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

16 **A. Yes.**

Pursuant to Commission Rule 1.20(e), I hereby swear and affirm under oath that the foregoing testimony is true and correct:

A handwritten signature in black ink, appearing to read "S. Anwar Shareef". The signature is written in a cursive style with a large initial 'S' and a long, sweeping tail.

S. Anwar Shareef

July 7, 2011