



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

OFFICE OF LEGAL SERVICES
235 Promenade Street, 4th Floor, Providence, RI 02908-5767

401-222-6607 TDD 401-222-4462
FAX 401-222-3378

FIRST CLASS MAIL

April 26, 2019

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

**Re: The Narragansett Electric Company d/b/a National Grid, Review of Power
Purchase Agreement Pursuant to R.I. Gen. Laws § 39-31-1 to 9
PUC Docket No. 4929**

Dear Ms. Massaro:

Enclosed for filing in this matter are an original and nine (9) copies the Resumes for the DEM witnesses Laurie Grandchamp and Julia Livermore who will be testifying to DEM's Advisory Opinion filed in this matter.

Should you need any further information, do not hesitate to contact me at (401) 222-4700 ext. 2023. Thank you for your time and attention to this matter.

Best regards,

A handwritten signature in cursive script, appearing to read "Christina Hoefsmit".

Christina A. Hoefsmit, Esq.

enc: Laurie Grandchamp Resume
Julia Livermore Resume

Docket No. 4929 -- National Grid's Review of PPA w/ WWD Rev I, LLC

Service List updated 4/23/2019

Name/Address	E-mail Distribution	Phone
National Grid John K. Habib, Esq. Keegan Werlin LLP 99 High Street, Suite 2900 Boston, MA 02110	Jhabib@keeganwerlin.com ;	617-951-1354
	MStern@keeganwerlin.com ;	
	Jdunne@keeganwerlin.com ;	
	Corinne.didomenico@nationalgrid.com ;	
	Timothy.brennan@nationalgrid.com ;	
	laura.bickel@nationalgrid.com ;	
	Joanne.scanlon@nationalgrid.com ;	
Jon Hagopian, Esq. Division of Public Utilities & Carriers 89 Jefferson Blvd. Warwick, RI 02888	Jon.hagopian@dpuc.ri.gov ;	401-784-4775
	Leo.wold@dpuc.ri.gov ;	
	John.bell@dpuc.ri.gov ;	
	Ronald.Gerwatowski@dpuc.ri.gov ;	
	Thomas.kogut@dpuc.ri.gov ;	
	Jonathan.Schrag@dpuc.ri.gov ;	
Office of Energy Resources Andrew Marcaccio, Esq. Carol Grant, Commissioner Christopher Kearns, OER Nicholas Ucci, OER	Andrew.Marcaccio@doa.ri.gov ;	
	Christopher.Kearns@energy.ri.gov ;	
	Nicholas.Ucci@energy.ri.gov ;	
	Carol.Grant@energy.ri.gov ;	
John Dalton Carson Robers Power Advisory LLC	crobers@poweradvisoryllc.com ;	
	jdalton@poweradvisoryllc.com ;	
DWW Rev I, LLC Joseph A. Keough Jr., Esquire Keough + Sweeney, Ltd. 41 Mendon Avenue Pawtucket, Rhode Island 02861	jkeoughjr@keoughsweeney.com ;	401-724-3600
Conservation Law Foundation (CLF) James Crowley, Esq. Conservation Law Foundation 235 Promenade St., Suite 560, Mailbox 28 Providence, RI 02908	jcrowley@clf.org ;	401-228-1905
File an original & 9 copies w/: Luly E. Massaro, Commission Clerk Cynthia Wilson-Frias, Commission Counsel Public Utilities Commission 89 Jefferson Blvd. Warwick, RI 02888	Luly.massaro@puc.ri.gov ;	401-780-2017
	Alan.nault@puc.ri.gov ;	
	Todd.bianco@puc.ri.gov ;	
	Cynthia.WilsonFrias@puc.ri.gov ;	
	Margaret.Hogan@puc.ri.gov ;	
Orsted US Offshore Wind: Stacy Tingley David Schwartz Jeffrey Grybowski	STATI@orsted.com ;	
	DSCHW@orsted.com ;	
	JEFGR@orsted.com ;	
Coit, Janet, DEM Director	Janet.Coit@dem.ri.gov ;	

Christina Hoefsmit, Esq.	Christina.Hoefsmit@dem.ri.gov ;	
	Mary.Kay@dem.ri.gov ;	
	Ron.Gagnon@dem.ri.gov ;	
	Julia.Livermore@dem.ri.gov ;	
Jesse Saglio, RI Commerce Corporation	jesse.saglio@commerceri.com ;	
	hilary.fagan@commerceri.com ;	
	Kara.Kunst@commerce.ri.gov ;	
Tom Carlotto, Esq.	tec@shslawfirm.com ;	
Ted Nesi	TNesi@wpri.com ;	
Chris Bergenheim	Bergenheim@pbn.com ;	
Paulette Hamilton, Lieutenant Governor	Paulette.Hamilton@ltgov.ri.gov ;	

LAURIE A. GRANDCHAMP, P.E.

Rhode Island Department of Environmental Management – Office of Air Resources

SUMMARY OF QUALIFICATIONS

- Knowledgeable in all aspects of environmental engineering; including air quality, solid, hazardous, and medical waste, recycling, remediation, groundwater and water/wastewater treatment.
- 20+ years expertise in permitting and compliance.
- Excellent and efficient organizational, planning and analytical skills.
- Innovative problem solver with reputation for completing tasks.
- Effective communication and writing skills.

EXPERIENCE

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Office of Air Resources

June 2017 – Present

Administrator, Environmental Protection

- Manage the Office of Air Resources' daily activities, develop long term planning goal and ensure activities are completed on time.
- Office of Air Resources hiring manager.
- Prepare and maintain the budget for the Office of Air Resources.
- Administration of several federal grants.
- Participate in meetings with regulated entities, organizations, stakeholders, state and local officials, and representatives from other State agencies to regulate, inform, plan, and/or administer a comprehensive program for air pollution control.
- Participate in multi-state, regional and national organizations (NESCAUM, OTC and NACAA) at the Air Director level in order to implement and coordinate air programs.

Office of Air Resources

April 2016 – June 2017

Deputy Chief

- Currently manage the Air Toxics Section and responsible for planning, scheduling and administering the daily activities, develop long term planning goals and ensure the activities are completed on time.
- Familiar with the DEM budget process and administration of federal grants.
- Responsible for the development and promulgation of Air Pollution Control Regulation No. 50 (Clean Diesel Fund).
- Oversee the recodification of the fifty Air Pollution Control Regulations to RICR format.
- Involved in the development of state implementation plans for achievement of state and federal air quality standards.

Office of Waste Management

June 2000 – April 2016

Supervising Sanitary Engineer

- Currently manage the Waste Facilities Management Program (WFMP), which includes Solid Waste, Hazardous Waste and Medical Waste Permitting Programs, the Landfill Closure Program and Commercial Recycling.
- Responsible for planning, scheduling and administering the daily activities of the WFMP, develop long term planning goals and ensure the activities are completed on time.
- Manage a staff of up to ten employees, as well as train and supervise student interns.
- Provide recommendations to high level management on complex issues.
- Responsible for revising numerous regulations in accordance with state statutes and federal regulations, including Solid Waste Regulations, Hazardous Waste Regulations, Universal Waste Regulations, Medical Waste Regulations, and the Recycling Regulations.
- Leader of several stakeholder workgroups and participation in numerous technical and policy workgroups.
- Successful at gaining the support of municipalities to voluntarily initiate action at 35 of the 50 inactive municipal landfills in Rhode Island.
- Experienced in testifying in court, depositions and moderating formal public meetings/hearings.
- Participate in several Northeast Waste Management Officials Association (NEWMOA) workgroups regarding solid and hazardous waste management, recycling, and environmental product stewardship.

Office of Waste Management

November 1999 – June 2000

Senior Sanitary Engineer

- Developed and implemented a new program that proactively works with owners of inactive landfills to investigate and properly close the landfills in accordance with the Rhode Island Solid Waste and Remediation Regulations.
- Manage and train Landfill Closure Program staff and student interns.
- Responsible for overseeing the investigation and remediation of the most complex landfills within the State, including Central Landfill and Cranston Sanitary Landfill.
- Assist site remediation staff in evaluating various aspects associated with inactive landfills in order to maintain program consistency.
- Coordinator of innovative technology seminars for staff.

Office of Waste Management

October 1995 – November 1999

Sanitary Engineer

- Responsible for overseeing the remediation of hazardous waste sites on the National Priorities List, State Sites and Department of Defense Sites.
- Review and approve technical documents such as Work Plans, Remedial Investigations, and Remedial Design/Action Plans.
- Direct contractors and consultants in the field and oversee their work.
- Coordinate with other offices within RIDEM and obtain all necessary permits for field activities and ensure compliance with their regulations.
- Utilize Microsoft Project for scheduling activities at remediation sites.
- Attend and participate in public meetings, answer questions from concerned citizens, and contribute to press releases to keep communities involved and informed.

Division of Air Resources

August 1993 - September 1995

Air Quality Engineer

- Performed air dispersion modeling to determine beyond property-line chemical concentrations.
- Assisted in the implementation of the Stage II Vapor Recovery Program for gasoline stations.
- Revised Rhode Island Air Pollution Control Regulations.
- Developed and implemented a degreaser program and inspected facilities utilizing degreaser operations.
- Performed air sampling for toxic chemicals.
- Certified to evaluate visible emissions in accordance with 40 CFR Part 60 Method 9.
- Assisted in the training of student interns.

EDUCATION

- Bachelor of Science Degree in Civil/Environmental Engineering from the University of Rhode Island
- Completed some graduate coursework towards a Masters Degree in Environmental Engineering.

LICENSES

Professional Engineering License #9243

CERTIFICATIONS

40 Hour OSHA Certified, 4 hour Permit Required Confined Space Certified

AWARDS

Environmental Protection Agency Merit Award, RIDEM Distinguished Service Award 2012

RECENT TRAINING COURSES

Lean/Value Stream Mapping Workshop, Indoor Air Vapor Intrusion, Quality System Awareness Training
8-hour HAZWOPER Refresher, Verbal Judo (Tactical Communication Strategies), Principles of Management
Incident Command Systems, Disaster Debris Management Planning Training

JULIA C. LIVERMORE, MEM

3 Fort Wetherill Road
Jamestown, RI 02835
Work Phone: 401.423.1937
julia.livermore@dem.ri.gov

EDUCATION

- May 2015 **Duke University Nicholas School of the Environment**, Durham, NC
Master of Environmental Management (Coastal Resource Management)
- May 2015 **Duke University Nicholas School of the Environment**, Durham, NC
Professional Certificate in Geospatial Analysis
- May 2013 **Bowdoin College**, Brunswick, ME
Bachelor of Arts; Majors: Biology and Environmental Studies;
Honors: Biology

RESEARCH EXPERIENCE

- 2018 – Present **Supervising Marine Biologist** - Rhode Island Department of
Environmental Management, Division of Fish and Wildlife, Marine
Fisheries (Jamestown, RI)
- 2016 – 2018 **Principal Marine Biologist** - Rhode Island Department of Environmental
Management, Division of Fish and Wildlife, Marine Fisheries
(Jamestown, RI)
- 2015 – 2016 **Marine Resource Impact Assessment Fisheries Specialist** - Rhode
Island Department of Environmental Management, Division of Fish and
Wildlife, Marine Fisheries Section (Jamestown, RI)
- 2015 **Anadromous Fisheries Technician** - Massachusetts Division of Marine
Fisheries (New Bedford, MA)
- 2014 – 2015 **Graduate Teaching Assistant in Geospatial Analysis for Coastal and
Marine Management** - Duke University (Durham, NC)
- 2014 **Climate-Fisheries Research Intern and Database Developer** - Gulf of
Maine Research Institute (Portland, ME)
- 2013 – 2014 **Forge Fish Policy Analyst/Graduate Research Assistant** - Fisheries
Leadership and Sustainability Forum (Beaufort and Durham, NC)

- 2013 **River Herring Fisheries Technician** - Maine Department of Marine Resources (Hallowell and Woolich, ME)
- 2012 **Doherty Coastal Studies Research Fellow** - Bowdoin College Coastal Studies Center (Brunswick and Orr's Island, ME)

HONORS / AWARDS

- 2014 **North Carolina Wildlife Federation Scholarship Grant**
- 2013 – 2015 **Duke Nicholas School Merit-Based Scholarship**
- 2013 – 2014 **Grua/O'Connell Research Award**
- 2012 **Doherty Coastal Studies Research Fellowship**

PUBLICATIONS

- 2018 **Livermore, J., T. Perreault, T. Rivers.** 2018. Luminescent defensive behaviors of polynoid polychaete worms to natural predators. *Marine Biology*. 165:149 <https://doi.org/10.1007/s00227-018-3403-2>
- 2017 **Livermore, J., M. Trainor, M.S. Bednarski.** 2017. Response of anadromous *Petromyzon marinus* L. (sea lamprey) following dam removal and channel reconstruction in the Mill River, Massachusetts. *Northeastern Naturalist*. 24(3):380-390.

PRESENTATIONS

- 2018 **Research Framework for Offshore Wind Energy**
New England Fishery Management Council Habitat Committee Meeting - August 2018
- Spatiotemporal & Socioeconomic Analysis of VMS Data within WEAs in the North Atlantic**
Massachusetts Fisheries Working Group on Offshore Wind Energy Meeting - June 2018
- Spatiotemporal & Socioeconomic Analysis of Fishing Activity within the New York Bight Call Areas**
Intergovernmental Renewable Energy Task Force Meeting on the New York Bight - May 2018

- 2017 **Rhode Island Department of Environmental Management Division of Marine Fisheries Involvement with Block Island Wind Farm Fish Science**
Southern New England Offshore Wind Energy Science Forum - December 2017
- Using a GIS to select sampling sites for the RI DEM clam suction survey**
Lecture and All-Day Workshop; Intro to ArcGIS: Applications to Marine Science at UMass Dartmouth School for Marine Science & Technology - July 2017
- 2016 **Ongoing Federal Wind Farm Projects: Intersection with Rhode Island's Commercial Fishing Industry**
Presentation and facilitation of stakeholder meeting; University of Rhode Island Graduate School of Oceanography - May 2016
- 2015 **Evaluating the potential for using species presence data collected by commercial fishermen for species distribution modeling in the Gulf of Maine**
Master's Thesis Defense; Duke University – April 2015
- 2014 **Influences of climate and environmental variability on commercial fishing in New England: NROC Northeast Climate-Fisheries Research Database Development**
Gulf of Maine Research Institute Scientific Meeting – August 2014
- 2013 **Interspecific interactions between luminescent scale worms and their crustacean predators**
Honors Thesis Defense; Bowdoin College – May 2013
- Effect of Luminescent Behavior on the Survivorship of the Intertidal Scale Worm *Harmothoe imbricata* (Poster)**
National Benthic Ecology Meeting – March 2013
- Luminescence reduces mortality of the scale worm *Harmothoe imbricata* when attacked by crustacean predators. RIVERS, TJ*; LIVERMORE, JC; PERREAULT, TR; Bowdoin College; Bowdoin College; Bowdoin College**
Society for Integrative and Comparative Biology Meeting – January 2013

RESEARCH PROJECTS

- 2018 **Assessing Impacts of the Block Island Wind Farm on Recreational Saltwater Fishing**

Rhode Island Sea Grant (co-Principal Investigator; February 2018 - January 2020; \$200,000)

2016 – 2018 **Understanding marine resource user response to ecological impacts of offshore wind energy: a case study of the Block Island Wind Farm**
Rhode Island Sea Grant (Principal Investigator; May 2016 – January 2018; \$56,437)

An investigation of users' preferences for and values of recreational boating activities associated with the Block Island Wind Farm
Rhode Island Sea Grant (Investigator; May 2016 – January 2018; \$79,927)

PROFESSIONAL APPOINTMENTS

2018 - Present **New York Offshore Wind Technical Fisheries Working Group**
Member

New England Fishery Management Council Habitat Plan Development Team
Member

Atlantic States Marine Fisheries Commission Bluefish Plan Review Team
Member

2017 - Present **Atlantic States Marine Fisheries Commission Bluefish Technical Committee**
Member

Bureau of Ocean Energy Management New York Intergovernmental Renewable Energy Task Force
Member

2016 - Present **Bureau of Ocean Energy Management Rhode Island Intergovernmental Renewable Energy Task Force**
Member

OUTREACH PUBLICATIONS

2017 **Livermore, J.** First U.S. offshore wind farm now online in Rhode Island waters. 2017 Rhode Island Recreational Saltwater Fishing Magazine.

2016 **Livermore, J.** First U.S. offshore wind farm now complete in Rhode Island waters. 2016 ASMFC Habitat Hotline Atlantic.
https://www.asmfc.org/files/Habitat/Habitat%20HotlineAtlantic2016_web.pdf

RELEVANT SKILLS

Software Aptitude Proficient with R, Python, MATLAB, Microsoft Access, ArcGIS 10.x, ArcPy, NVivo

Research Diver AAUS Certified Research Diver and PADI Rescue Diver, over 200 logged dives