New England Wind

AVANGRID RENEWABLES

Construction and Operations Plan

Lease Area OCS-A0534

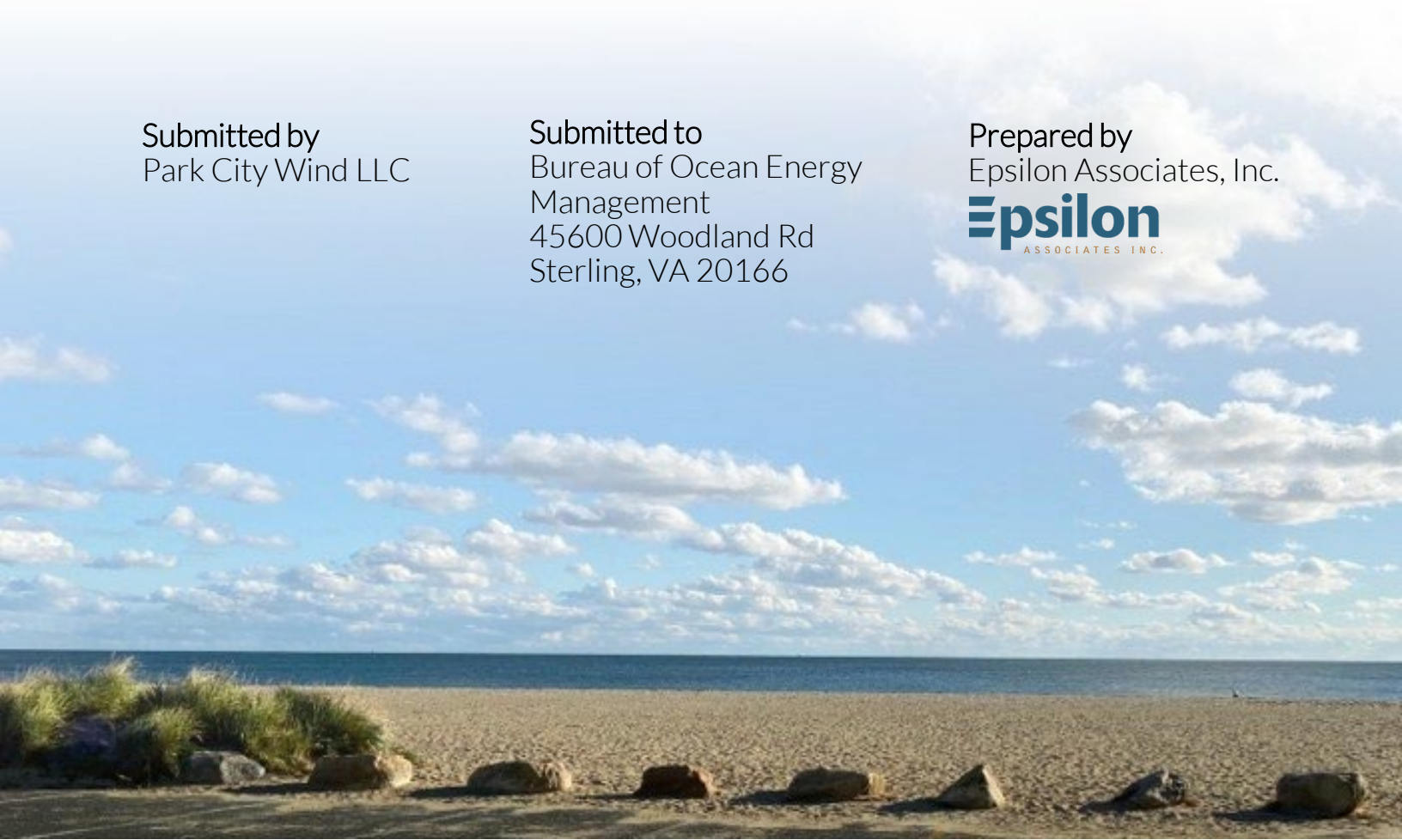
Volume I Appendices

February 2024

Submitted by
Park City Wind LLC

Submitted to
Bureau of Ocean Energy Management
45600 Woodland Rd
Sterling, VA 20166

Prepared by
Epsilon Associates, Inc.



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In Association with:

Baird & Associates
Biodiversity Research Institute
Capitol Air Space Group
Geo SubSea LLC
Geraldine Edens, P.A.
Gray & Pape
JASCO Applied Sciences
Public Archaeology Laboratory, Inc.
RPS
Saratoga Associates
SEARCH, Inc.
Wood Thilsted Partners Ltd

February 2024

Appendix I-H

New England Wind Survey Equipment List

New England Wind

Survey Equipment List

Prepared for:

Park City Wind LLC

Prepared by:

Epsilon Associates, Inc. & Geo SubSea LLC

October 2021

APPENDIX I-H NEW ENGLAND WIND SURVEY EQUIPMENT LIST

Geophysical surveys for New England Wind will be conducted just prior to construction, during construction, and post-construction for activities such as pre-lay surveys, verifying site conditions, ensuring proper installation of components, conducting as-built surveys, inspecting the depth of cable burial, and inspecting foundations. Geophysical survey instruments may include side scan sonar (SSS), single beam echosounders (SBES), multibeam echosounders (MBES), magnetometers/gradiometers, shallow (chirp subbottom) and medium (sparker) penetration single or multi-channel subbottom/seismic profilers, and all support systems (e.g. positioning, motion sensor, compass, sound velocity profiler [SVP]) as well as high resolution visual imaging systems (e.g. remotely operated vehicles [ROVs], underwater cameras) and passive acoustic monitoring (PAM) systems.

Industry-standard survey grade systems to be utilized include, but are not limited to, the following systems (or equivalent):

- Applanix POS MV with Trimble Nav-Beacon/USCG differential receiver
- Atlas H10 Offshore Corrections DGPS
- SBG Ekinox 2-U Motion Sensor
- iXSea Blue Octans 3 motion and heading sensor
- Applanix POSMV M5 with C-NAV differential
- Hemisphere VS330 GPS Receiver with heading
- Voyager 5 integrated navigation with Fugro Starfix HP/XP corrections
- Applanix POS MV with Intuicom RTK Bridge-C
- Applanix POS MV Oceanmaster DGNSS with a Trimble Nav Beacon XL auxiliary GNSS antenna
- C-NAV 3050 DGPS antenna (redundant positioning system)
- Teledyne TSS Meridian gyrocompass
- POSPac software with Post Processed Kinematic (PPK) solution
- Veripos LD5A-2 Providing Apex DGPS Corrections
- QPS QINSy navigation and data logging software
- HYPACK navigation and digital logging software
- Sonardyne MiniRanger 2 ultra-short baseline (USBL)
- Applied Acoustics Easytrak Nexus 2 USBL System
- iXSea Blue GAPS USBL
- Reson 7125 MBES
- Kongsberg EM2040C (dual head) MBES
- R2Sonic 2024 MBES
- Reson T50 Dual Head MBES
- Odom HydroTrac SBES
- Knudsen 3212 200 kHz SBES
- Reson Navisound 215 SBES
- Furuno 200 kHz digital depth finder, hull mounted
- UNIDEN or Simrad 200kHz digital depth finder
- EdgeTech 6205 MBES/SSS
- Klein 3900 side scan sonar
- Edgetech 4125/4200/4205 multi-frequency Side Scan Sonars

- Kraken AquaPix Synthetic Aperture Sonars
- Geometrics G-882 Cesium Marine Magnetometer
- Geometrics Transverse Gradiometer (TVG) with dual G882 magnetometers
- Eiva Katria Scanfish with four G882 magnetometers
- Teledyne-Benthos CHIRP III shallow subbottom profiler
- Knudsen 3260 2x2 SBP Array (3.5kHz) Pinger
- EdgeTech 216/512 Chirp Subbottom Profiler
- Innomar SES 2000 Medium/Standard Parametric Subbottom Profiler
- GeoMarine Geospark 1000J medium penetration subbottom profiler with 200/400 tip sparker source and 8 element single channel GeoEel streamer
- Applied Acoustic Dura-spark400 seismic system with AA CSP-N (2400J) power supply
- Applied Acoustics AAE-200/301 single plate boomer systems
- Applied Acoustics S-Boom triple plate boomer system
- Teledyne-Oceanscience RapidCAST sound velocity profiler
- Valeport Midas SVX2 CTD
- AML Base-X SVP sensor
- Valeport Mini SVP sensor
- Ocean Instruments Towed Camera TLS-500 system
- Sea Rover survey class ROV with a SONY UMC S3CA 4K video camera
- DSSI Sea Max MK2 survey class ROV
- Go Pro Hero 9 Black 4K video and 20 MP stills
- Outland UWC-330/P HD Camera with UWL-400 light source
- Generation 3 NVG and Gardline PAMS system
- MSeis-NH3 (4 hydrophone array) PAM system
- Seiche-6-hydrophone-PAM Guard64 system