## RECEIVED

### NOV - 6 2012

| UNITED STATES  | Office                     | Renewable Energy  |
|--|----------------------------|-------------------|
| DEPARTMENT OF THE INTERIOR   |                            | Lease Randbergens |
| BUREAU OF OCEAN ENERGY   | State of the second second |                   |
| MANAGEMENT   | Herndon, VA                | OCS-A 0482        |
|  | Cash Bonus and/or          | Resource Type     |
| COMMERCIAL LEASE OF  | Acquisition Fee            |                   |
| SUBMERGED LANDS FOR  |                            | March March 197   |
| <b>RENEWABLE ENERGY DEVELOPMENT</b>  | \$24,107.50                | Wind              |
| ON THE   | Effective Date             | Block Number(s)   |
| OUTER CONTINENTAL SHELF  |                            | Salisbury NJ18-05 |
| Paperwork Reduction Act of 1995 statement: This form does not<br>constitute an information collection as defined by 44 U.S.C. § 3501 et<br>seq. and therefore does not require approval by the Office of<br>Management and Budget. | December 1, 2012           | See Addendum A    |

This lease, which includes any addenda hereto, is hereby entered into by and between the United States of America, ("Lessor"), acting through the Bureau of Ocean Energy Management ("BOEM"), its authorized officer, and

| Lessee                      | Interest Held |
|-----------------------------|---------------|
| Bluewater Wind Delaware LLC | 100%          |

("Lessee"). This lease is effective on the date written above ("Effective Date") and will continue in effect until the lease terminates as set forth in Addendum "B." In consideration of any cash payment heretofore made by the Lessee to the Lessor and in consideration of the promises, terms, conditions, covenants, and stipulations contained herein and attached hereto, the Lessee and the Lessor agree as follows:

#### Section 1: Statutes and Regulations.

This lease is issued pursuant to subsection 8(p) of the Outer Continental Shelf Lands Act ("the Act"), 43 U.S.C. §§ 1331 *et seq.* This lease is subject to the Act and regulations promulgated pursuant to the Act, including but not limited to, offshore renewable energy and alternate use regulations at 30 CFR Part 585 as well as other applicable statutes and regulations in existence on the Effective Date of this lease. This lease is also subject to those statutes enacted (including amendments to the Act or other statutes) and regulations promulgated thereafter, except to the extent that they explicitly conflict with an express provision of this lease. It is expressly understood that amendments to existing statutes, including but not limited to the Act, and regulations may be made, and/or new statutes may be enacted or new regulations promulgated, which do not explicitly conflict with an express or decrease the Lessee's obligations under the lease.

#### Section 2: Rights of the Lessee.

- (a) The Lessor hereby grants and leases to the Lessee the exclusive right and privilege, subject to the terms and conditions of this lease and applicable regulations, to: (1) submit to the Lessor for approval a Site Assessment Plan (SAP) and Construction and Operations Plan (COP) for the project identified in Addendum "A" of this lease; and (2) conduct activities in the area identified in Addendum "A" of this lease ("leased area") that are described in a SAP or COP that has been approved by the Lessor. This lease does not, by itself, authorize any activity within the leased area.
- (b) The rights granted to the Lessee herein are limited to those activities described in any SAP or COP approved by the Lessor. The rights granted to the Lessee are limited by the lease-specific terms, conditions, and stipulations required by the Lessor per Addendum "C."
- (c) This lease does not authorize the Lessee to conduct activities on the Outer Continental Shelf (OCS) relating to or associated with the exploration for, or development or production of, oil, gas, other seabed minerals, or renewable energy resources other than those renewable energy resources identified in Addendum "A."

#### Section 3: Reservations to the Lessor.

- (a) All rights in the leased area not expressly granted to the Lessee by the Act, applicable regulations, this lease, or any approved SAP or COP, are hereby reserved to the Lessor.
- (b) The Lessor will decide whether to approve a SAP or COP in accordance with the applicable regulations in 30 CFR Part 585. The Lessor retains the right to disapprove a SAP or COP based on the Lessor's determination that the proposed activities would have unacceptable environmental consequences, would conflict with one or more of the requirements set forth in subsection 8(p)(4) of the Act (43 U.S.C. § 1337(p)(4)), or for other reasons provided by the Lessor pursuant to 30 CFR 585.613(e)(2) or 30 CFR 585.628(f)(2). Disapproval of plans will not subject the Lessor to liability. The Lessor also retains the right to approve with modifications a SAP or COP, as provided in applicable regulations.
- (c) The Lessor reserves the right to suspend the Lessee's operations in accordance with the national security and defense provisions of section 12 of the Act and applicable regulations.
- (d) The Lessor reserves the right to authorize other uses within the leased area that will not unreasonably interfere with activities described in Addendum "A."

#### **Section 4: Payments.**

- (a) The Lessee must make all rent payments to the Lessor in accordance with applicable regulations in 30 CFR Part 585, unless otherwise specified in Addendum "B."
- (b) The Lessee must make all operating fee payments to the Lessor in accordance with applicable regulations in 30 CFR Part 585, as specified in Addendum "B."

#### Section 5: Plans.

The Lessee may conduct those activities described in Addendum "A" only in accordance with a SAP or COP approved by the Lessor. The Lessee may not deviate from an approved SAP or COP except as provided in applicable regulations in 30 CFR Part 585.

#### Section 6: Associated Project Easements.

Pursuant to 30 CFR 585.200(b), the Lessee has the right to one or more project easements, without further competition, for the purpose of installing gathering, transmission, and distribution cables, pipelines, and appurtenances on the OCS, as necessary for the full enjoyment of the lease, and under applicable regulations in 30 CFR Part 585. As part of submitting a COP for approval, the Lessee may request that one or more easement(s) be granted by the Lessor. If the Lessee requests that one or more easement(s) be granted by the Lessor. If the Lessee regulations in 30 CFR Part 585 upon approval of the COP in which the Act and applicable regulations in 30 CFR Part 585 upon approval of the COP in which the Lessee has demonstrated a need for such easements. Such easements must be in a location acceptable to the Lessor, and will be subject to such conditions as the Lessor may require. The project easement(s) that would be issued in conjunction with an approved COP under this lease will be described in Addendum "D" to this lease, which will be updated as necessary.

#### Section 7: Conduct of Activities.

The Lessee must conduct, and agrees to conduct, all activities in the leased area in accordance with an approved SAP or COP, and with all applicable laws and regulations.

The Lessee further agrees that no activities authorized by this lease will be carried out in a manner that:

- (a) could unreasonably interfere with or endanger activities or operations carried out under any lease or grant issued or maintained pursuant to the Act, or under any other license or approval from any Federal agency;
- (b) could cause any undue harm or damage to the environment;
- (c) could create hazardous or unsafe conditions; or
- (d) could adversely affect sites, structures, or objects of historical, cultural, or archaeological significance, without notice to and direction from the Lessor on how to proceed.

#### Section 8: Violations, Suspensions, Cancellations, and Remedies.

If the Lessee fails to comply with (1) any of the applicable provisions of the Act or regulations, (2) the approved SAP or COP, or (3) the terms of this lease, including associated Addenda, the Lessor may exercise any of the remedies that are provided under

the Act and applicable regulations, including, without limitation, issuance of cessation of operations orders, suspension or cancellation of the lease, and/or the imposition of penalties, in accordance with the Act and applicable regulations.

The Lessor may also cancel this lease for reasons set forth in subsection 5(a)(2) of the Act (43 U.S.C. § 1334(a)(2)), or for other reasons provided by the Lessor pursuant to 30 CFR 585.437.

Non-enforcement by the Lessor of a remedy for any particular violation of the applicable provisions of the Act or regulations, or the terms of this lease, will not prevent the Lessor from exercising any remedy, including cancellation of this lease, for any other violation or for the same violation occurring at any other time.

#### Section 9: Indemnification.

The Lessee hereby agrees to indemnify the Lessor for, and hold the Lessor harmless from, any claim caused by or resulting from any of the Lessee's operations or activities on the leased area or project easements or arising out of any activities conducted by or on behalf of the Lessee or its employees, contractors (including Operator, if applicable), subcontractors, or their employees, under this lease, including claims for:

- a. loss or damage to natural resources,
- b. the release of any petroleum or any Hazardous Materials,
- c. other environmental injury of any kind,
- d. damage to property,
- e. injury to persons, and/or
- f. costs or expenses incurred by the Lessor.

The Lessee will not be liable for any losses or damages proximately caused by the activities of the Lessor or the Lessor's employees, contractors, subcontractors, or their employees. The Lessee must pay the Lessor for damage, cost, or expense due and pursuant to this section within 90 days after written demand by the Lessor. Nothing in this lease will be construed to waive any liability or relieve the Lessee from any penalties, sanctions, or claims that would otherwise apply by statute, regulation, operation of law, or could be imposed by the Lessor or other government agency acting under such laws.

"Hazardous Material" means

- 1. Any substance or material defined as hazardous, a pollutant, or a contaminant under the *Comprehensive Environmental Response, Compensation, and Liability Act* at 42 U.S.C. §§ 9601(14) and (33);
- 2. Any regulated substance as defined by the Resource Conservation and Recovery Act ("RCRA") at 42 U.S.C. § 6991 (7), whether or not contained in or released from underground storage tanks, and any hazardous waste regulated under RCRA pursuant to 42 U.S.C. §§ 6921 *et seq.*;
- 3. Oil, as defined by the Clean Water Act at 33 U.S.C. § 1321(a)(1) and the Oil Pollution Act at 33 U.S.C. § 2701(23); or

4. Other substances that applicable Federal, state, tribal, or local laws define and regulate as "hazardous."

#### Section 10: Financial Assurance.

The Lessee must provide and maintain at all times a surety bond(s) or other form(s) of financial assurance approved by the Lessor in the amount specified in Addendum "B." As required by the applicable regulations in 30 CFR Part 585, if, at any time during the term of this lease, the Lessor requires additional financial assurance, then the Lessee must furnish the additional financial assurance required by the Lessor in a form acceptable to the Lessor within 90 days after receipt of the Lessor's notice of such adjustment.

#### Section 11: Assignment or Transfer of Lease.

This lease may not be assigned or transferred in whole or in part without written approval of the Lessor. The Lessor reserves the right, in its sole discretion, to deny approval of the Lessee's application to transfer or assign all or part of this lease. Any assignment will be effective on the date the Lessor approves the Lessee's application. Any assignment made in contravention of this section is void.

#### Section 12: Relinquishment of Lease.

The Lessee may relinquish this entire lease or any officially designated subdivision thereof by filing with the appropriate office of the Lessor a written relinquishment application, in accordance with applicable regulations in 30 CFR Part 585. No relinquishment of this lease or any portion thereof will relieve the Lessee or its surety of the obligations accrued hereunder, including but not limited to, the responsibility to remove property and restore the leased area pursuant to section 13 of this lease and applicable regulations.

# Section 13: Removal of Property and Restoration of the Leased Area on Termination of Lease.

Unless otherwise authorized by the Lessor, pursuant to the applicable regulations in 30 CFR Part 585, the Lessee must remove or decommission all facilities, projects, cables, pipelines, and obstructions and clear the seafloor of all obstructions created by activities on the leased area, including any project easements within two years following lease termination, whether by expiration, cancellation, contraction, or relinquishment, in accordance with any approved SAP, COP, or approved Decommissioning Application, and applicable regulations in 30 CFR Part 585.

#### Section 14: Safety Requirements.

The Lessee must:

a. maintain all places of employment for activities authorized under this lease in compliance with occupational safety and health standards and, in addition, free

from recognized hazards to employees of the Lessee or of any contractor or subcontractor operating under this lease;

- b. maintain all operations within the leased area in compliance with regulations in 30 CFR Part 585 and orders from the Lessor and other Federal agencies with jurisdiction, intended to protect persons, property and the environment on the OCS; and
- c. provide any requested documents and records, which are pertinent to occupational or public health, safety, or environmental protection, and allow prompt access, at the site of any operation or activity conducted under this lease, to any inspector authorized by the Lessor or other Federal agency with jurisdiction.

#### Section 15: Debarment Compliance.

The Lessee must comply with the Department of the Interior's non-procurement debarment and suspension regulations set forth in 2 CFR Parts 180 and 1400 and must communicate the requirement to comply with these regulations to persons with whom it does business related to this lease by including this requirement in all relevant contracts and transactions.

#### Section 16: Notices.

All notices or reports provided from one party to the other under the terms of this lease must be in writing, except as provided herein and in the applicable regulations in 30 CFR Part 585. Written notices must be delivered to the party's Lease Representative, as specifically listed in Addendum "A," either electronically, by hand, by facsimile, or by United States first class mail, adequate postage prepaid. Either party may notify the other of a change of address by doing so in writing. Until notice of any change of address is delivered as provided in this section, the last recorded address of either party will be deemed the address for all notices required under this lease. For all operational matters, notices must be provided to the party's Operations Representative, as specifically listed in Addendum "A," as well as the Lease Representative.

#### Section 17: Severability Clause.

If any provision of this lease is held unenforceable, all remaining provisions of this lease will remain in full force and effect.

#### Section 18: Modification.

Unless otherwise authorized by the applicable regulations in 30 CFR Part 585, this lease may be modified or amended only by mutual agreement of the Lessor and the Lessee. No such modification or amendment will be binding unless it is in writing and signed by the Lease Representatives of both the Lessor and the Lessee.

**Bluewater Wind Delaware LLC** Lessee

(Signature of Authorized Officer)

WILLIAM LEE DAVIS (Name of Signatory)

LESIDENT (Title)

The United States of America Lessor. (Signature of Authorized Officer)

Maureen A. Bornholdt

(Name of Signatory) Chief, Office of Renewable Energy Programs

(Title)

November 16, 2012 (Date)

### U.S. DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT

### **ADDENDUM "A"**

### DESCRIPTION OF LEASED AREA AND LEASE ACTIVITIES

### Lease Number OCS-A 0482

#### I. Lessor and Lessee Contact Information

Lessee Company Number: 15000

(a) Lessor's Contact Information

|         | Lease Representative   | <b>Operations Representative</b> |
|---------|--|----------------------------------|
| Name    | Maureen A. Bornholdt   | Same as Lease Representative.    |
| Title   | Program Manager  |                                  |
| Address | U.S. Department of the Interior<br>Bureau of Ocean Energy<br>Management<br>381 Elden Street, HM1328<br>Herndon, Virginia 20170 |                                  |
| Phone   | (703) 787-1300   |                                  |
| Fax     | (703) 787-1708   |                                  |
| Email   | Maureen.Bornholdt@boem.gov   |                                  |

#### (b) Lessee's Contact Information

|         | Lease Representative                         | <b>Operations Representative</b> |
|---------|--|----------------------------------|
| Name    | WILLIAM LEE DAVIS                            | Same as Lease Reperentative      |
| Title   | PRESIDENT                                    |                                  |
| Address | 211 CARNEOLE CENTER<br>PRIME TONI ALT DRE-40 |                                  |
| Phone   | PRINKETON, NJ 08540<br>609-524-5396          |                                  |
| Fax     |  |                                  |
| Email   | 100. DAVIS @ NRGENERGY. UM                   |                                  |

### II. Description of Leased Area

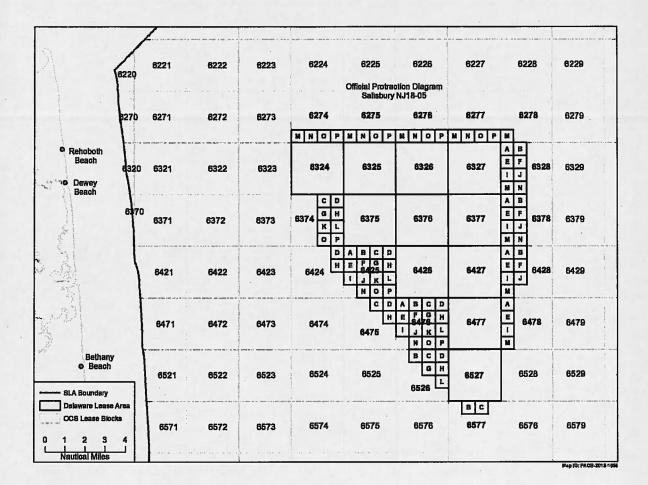
The total acreage of the lease area is approximately 96,430.

This area is subject to later adjustment, in accordance with applicable regulations (*e.g.*, contraction, relinquishment, etc.).

The following Blocks or portions of Blocks lying within Official Protraction Diagram Salisbury NJ18-05, are depicted on the map below and comprise 96,430 acres, more or less.

- 1) Block 6274, S1/2 of S1/2
- 2) Block 6275, S1/2 of S1/2
- 3) Block 6276, S1/2 of S1/2
- 4) Block 6277, S1/2 of S1/2
- 5) Block 6278, SW1/4 of SW1/4
- 6) Block 6324, All of Block
- 7) Block 6325, All of Block
- 8) Block 6326, All of Block
- 9) Block 6327, All of Block
- 10) Block 6328, W1/2
- 11) Block 6374, E1/2
- 12) Block 6375, All of Block
- 13) Block 6376, All of Block
- 14) Block 6377, All of Block
- 15) Block 6378, W1/2
- 16) Block 6424, NE1/4 of NE1/4, and that portion of SE1/4 of NE1/4 specifically described in the attached OCS block diagram (Exhibit A)
- 17) Block 6425, N1/2, N1/2 of S1/2, SE1/4 of SW1/4, S1/2 of SE1/4
- 18) Block 6426, All of Block
- 19) Block 6427, All of Block
- 20) Block 6428, NW1/4, N1/2 of SW1/4, SW1/4 of SW1/4
- 21) Block 6475, N1/2 of NE1/4, SE1/4 of NE1/4
- 22) Block 6476, N1/2, N1/2 of S1/2, SE1/4 of SW1/4, S1/2 of SE1/4
- 23) Block 6477, All of Block
- 24) Block 6478, W1/2 of W1/2
- 25) Block 6526, NE1/4, NE1/4 of NW1/4, NE1/4 of SE1/4
- 26) Block 6527, All of Block
- 27) Block 6577, NW1/4 of NE1/4, NE1/4 of NW1/4

For the purposes of these calculations, a full Block is 2304 hectares. The acreage of a hectare is 2.471043930.



#### III. <u>Renewable Energy Resource</u>

Wind

### IV. <u>Description of the Project</u>

A project to generate energy using wind turbine generators and any associated resource assessment activities, located on the OCS in the leased area east of Rehoboth Beach, Delaware, as well as associated offshore substation platforms, inner array cables, and subsea export cables.

#### V. <u>Description of Project Easement(s)</u>

Once approved, the Lessor will incorporate Lessee's project easement(s) in this lease as Addendum "D."

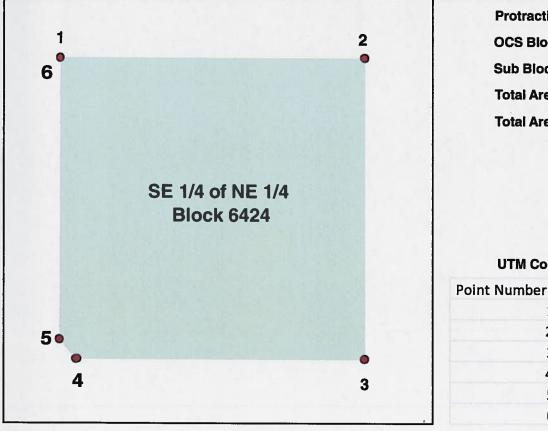
### U.S. DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT

#### **Exhibit** A

Lease Number OCS-A 0482

### MAP OF OPD NJ18-05 BLOCK 6424, THAT PORTION OF SE ¼ OF NE ¼

### As referenced in ADDENDUM "A"

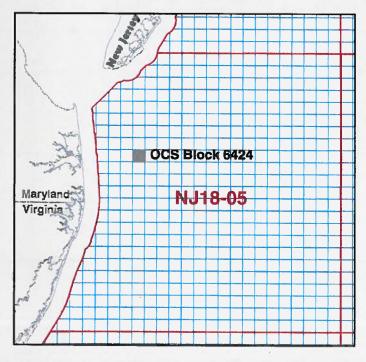


Protraction: NJ18-05 OCS Block: 6424 Sub Block: SE1/4 of NE1/4 Total Area Acres: 355.21 Total Area Hectares: 143.75

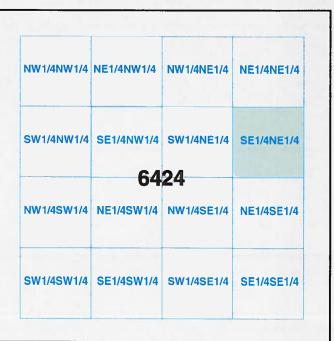
#### UTM Coordinates (zone 18, NAD83)

| Point Number | X (easting) | Y (northing) |
|--------------|-------------|--------------|
| 1            | 518000.00   | 4275600.00   |
| 2            | 519200.00   | 4275600.00   |
| 3            | 519200.00   | 4274400.00   |
| 4            | 518065.02   | 4274400.00   |
| 5            | 518000.00   | 4274477.56   |
| 6            | 518000.00   | 4275600.00   |

**Protraction NJ18-05** 



**Block 6424** 



### U.S. DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT

#### **ADDENDUM "B"**

#### LEASE TERM AND FINANCIAL SCHEDULE

#### Lease Number OCS-A 0482

#### I. <u>Lease Term</u>

The duration of each term of the lease is described below. The terms may be extended or otherwise modified in accordance with applicable regulations in 30 CFR Part 585.

| Lease Term:          | Duration: |
|----------------------|-----------|
| Preliminary Term     | 0 years   |
| Site Assessment Term | 5 years   |
| Operations Term      | 25 years  |

Schedule: Addendum "C" includes a schedule and reporting requirements for conducting site characterization activities.

Renewal: The Lessee may request renewal of the operations term of this lease, in accordance with applicable regulations in 30 CFR Part 585. The Lessor, at its discretion, may approve a renewal request to conduct substantially similar activities as were originally authorized under this lease or in an approved plan. The Lessor will not approve a renewal request that involves development of a type of renewable energy not originally authorized in the lease. The Lessor may revise or adjust payment terms of the original lease, as a condition of lease renewal.

Unless otherwise described below, the Preliminary Term begins on the Effective Date of this lease for leases issued competitively. Unless otherwise described below, for noncompetitively issued leases, the Site Assessment Term begins on the Effective Date of this lease. The Operations Term begins on the date that the Lessor approves the Lessee's Construction and Operations Plan (COP).

#### II. <u>Definitions</u>

"Lease Issuance Date" refers to the date on which this lease has been signed by *both* the Lessee and the Lessor.

"Lease Anniversary" refers to the anniversary of the Effective Date of the lease.

"End Date" refers to the earlier of a) the last calendar day of the last month of the

Operations Term; or b) the date on which the lease terminates in the event of a lease termination.

"Commercial Operations" means the generation of electricity or other energy product for commercial use, sale, or distribution.

"Commercial Operation Date," or "COD," refers to the date on which the Lessee first begins Commercial Operations on the lease.

"COD Anniversary" refers to the calendar day of the COD, e.g., if COD is May 15, 2013, the COD Anniversary is May 15<sup>th</sup> in every subsequent year until the end of the Operations Term. If the COD falls on February 29<sup>th</sup> during a leap year the COD Anniversary will be March 1<sup>st</sup>.

"Delivery Point" is the meter identified in the COP where the Lessee's facility interconnects with the electric grid to deliver electricity for sale.

An individual wind generation turbine is said to be "available for Commercial Operations" on or after the first day that it engages in Commercial Operations on the lease; and to be no longer available for Commercial Operations on or after the day when it is permanently decommissioned. These dates are determined per the COP.

#### III. <u>Payments</u>

Unless otherwise authorized by the Lessor in accordance with the applicable regulations in 30 CFR Part 585, the Lessee must make payments as described below.

(a) **Rent.** The Lessee must pay rent as described below:

Rent payments prior to the COD, or prior to the lease End Date in the event that the lease terminates prior to the COD, are calculated by multiplying the acres in the leased area times the rental rate per acre as follows:

- Acres in Leased Area: 96,430 (rounded up from 96,429.40)
- Annual Rental Rate: \$3.00 per acre or fraction thereof
- Rental Fee for Entire Leased Area: \$3.00 x 96,430 (rounded up) = \$289,290

The first year's rent payment of \$289,290 is due by January 16, 2013. Rent for the entire leased area for the next year and for each subsequent year is due on or before each Lease Anniversary through the year in which the COD occurs. The rent for each year subsequent to the COD on the portion of the lease not authorized for Commercial Operations is due on or before each Lease Anniversary. The portion of the lease that is not authorized for Commercial Operations at each Lease Anniversary in year t,  $S_t$ , and the corresponding Adjusted Annual Rent Payment will be determined as follows:

(A) 
$$S_t = \left(1 - \frac{M'_t}{MAX(M'_t: for all t \ge 2)}\right)$$

**(B)** Adjusted Annual Rent Payment =  $S_t * Rental Fee for Entire Leased Area Where:$ 

 $S_t$  = Portion of the lease not authorized for Commercial Operations in year t based on the definition of t in Section III (b) (4) below.

 $M'_t$  = Actual Nameplate capacity expressed in megawatts (MW) rounded to the nearest second decimal in year t of Commercial Operations on the lease as defined in Section III (b) (4) below prior to any adjustments as specified in the most recent approved COP for turbine maintenance, replacements, repowering, or decommissioning.

 $MAX(M'_t)$  = Highest value of  $M'_t$  projected in the most recent approved version of the COP to be achieved in any year of Commercial Operations on the lease.

The Adjusted Annual Rent Payment calculated in Equation (A) above will be rounded up to the nearest dollar. The annual rent payments will be set forth in Addendum "E" when the COP is initially approved or subsequently revised. Consider an example of a 1,000 MW project on a lease with an Effective Date of January 1, 2014 and a COD of January 1, 2022 on a lease area consisting of 100,000 acres as follows:

| Payment<br>(Jan. 1 <sup>st</sup> ) | <i>M't</i><br>(MW) | $MAX(M'_t)$ (MW) | $\left  \left( 1 - \frac{M'_t}{MAX(M'_t)} \right) \right $ | Rental Fee for<br>Entire Area | Payment<br>Amount |
|------------------------------------|--------------------|------------------|--|-------------------------------|-------------------|
| 2014                               | 0                  |                  | 1.0  |                               | \$300,000         |
|                                    |                    |                  |  |                               |                   |
| 2021                               | 0                  |                  | 1.0  |                               | \$300,000         |
| 2022                               | 500                |                  | 0.5  |                               | \$150,000         |
| 2023                               | 500                | 1 000            | 0.5  | ¢200.000                      | \$150,000         |
| 2024                               | 500                | 1,000            | 0.5  | \$300,000                     | \$150,000         |
| 2025                               | 800                |                  | 0.2  |                               | \$60,000          |
| 2026                               | 800                |                  | 0.2  |                               | \$60,000          |
| 2027                               | 800                |                  | 0.2  |                               | \$60,000          |
| 2028                               | 1,000              |                  | 0.0  |                               | \$0               |

In the event a revised COP is approved by BOEM that identifies an alternative installation schedule that differs from the previously-approved COP, the Lessee must make subsequent payments based on the revised installation schedule. In addition, the Lessee must make a payment equal to the sum of any incremental annual rent payments that would have been due at the Lease Anniversary of prior years based on the differences between the Initial Installation Schedules specified in the previously-approved COP and the revised COP, plus interest on the annual balances in accordance with 30 CFR 1218.54.

Consider an example whereby the initial COP specified an installation schedule with all 1,000 MW online at the COD, i.e.,  $M'_t$  is 1,000 MW at COD. The following table demonstrates how the back rent payments would be calculated if the project was initially scheduled as a

single phase, but then later determined to be the three-phase project as shown in the previous example in a revised COP approved prior to the payment due on January 1, 2023.

| Payment<br>(Jan. 1 <sup>st</sup> ) | Initial<br><i>M't</i><br>(MW) | Revised<br><i>M't</i><br>(MW) | Single-Phase<br>Payment<br>Amount | Three-Phase<br>Payment<br>Amount | Back Rent<br>Payment<br>Amount | Subsequent<br>Rent Payment<br>Amount |
|------------------------------------|-------------------------------|-------------------------------|-----------------------------------|----------------------------------|--------------------------------|--------------------------------------|
| 2014                               | 0                             | 0                             | \$300,000                         | \$300,000                        | \$0                            | \$0                                  |
|                                    |                               |                               |                                   |                                  |                                |                                      |
| 2021                               | 0                             | 0                             | \$300,000                         | \$300,000                        | \$0                            | \$0                                  |
| 2022                               | 1,000                         | 500                           | \$0                               | \$150,000                        | \$150,000                      | \$0                                  |
| 2023                               | 1,000                         | 500                           | \$0                               | \$150,000                        | \$0                            | \$150,000                            |
| 2024                               | 1,000                         | 500                           | \$0                               | \$150,000                        | \$0                            | \$150,000                            |
| 2025                               | 1,000                         | 800                           | \$0                               | \$60,000                         | \$0                            | \$60,000                             |
| 2026                               | 1,000                         | 800                           | \$0                               | \$60,000                         | \$0                            | \$60,000                             |
| 2027                               | 1,000                         | 800                           | \$0                               | \$60,000                         | \$0                            | \$60,000                             |
| 2028                               | 1,000                         | 1,000                         | \$0                               | 0                                | \$0                            | \$0                                  |

The last rent payment prior to Commercial Operations being authorized on the entire lease area, i.e., the year in which the value of  $S_t$  is equal to zero, or prior to the lease End Date in the event that the lease terminates prior to Commercial Operations being authorized on the entire lease area, will represent the final rent payment unless a revised COP identifying an alternative maximum initial capacity is approved by BOEM. All rent payments, including the last rent payment, are payable for the full year and will not be prorated to the COD or other installation milestones. The COD is equivalent to the authorization date for the first phase of development on the lease to be updated based on the initial or revised approved COP documentation. The schedule of rent payments on the lease is defined in Addendum "E". All rent payments must be made as required in 30 CFR 1218.51. Late rent payments will be charged interest in accordance with 30 CFR 1218.54.

### (1) Project Easement.

Rent for any project easement(s) is described in Addendum "D".

### (2) Relinquishment.

If the Lessee submits an application for relinquishment of a portion of the leased area within the timeframe allowed for the Lessee to submit its first rent payment under section III (a) of this Addendum, and the Lessor approves that application, no rent payment will be due on that relinquished portion of the leased area. Later relinquishments of any leased area will reduce the Lessee's rent payments due the year following the Lessor's approval of the relinquishment through a reduction in the Acres in Leased Area and the corresponding Rental Fee for the Entire Leased Area and any related Adjusted Annual Rent Payments.

**Operating Fee.** The Lessee must pay an operating fee as described below: (b)

#### (1) Initial Operating Fee Payment.

The Lessee must pay an initial prorated operating fee within 45 calendar days after the COD. The initial operating fee payment covers the first year of Commercial Operations on the lease and will be calculated in accordance with subsection (4) below, using an operating fee rate of 0.02 and a capacity factor of 0.39.

#### (2) Annual Operating Fee Payments.

The Lessee must pay the operating fee for each subsequent year of Commercial Operations on or before each Lease Anniversary following the formula in subsection (4) below. The Lessee must calculate each operating fee annually subsequent to the initial operating fee payment using an operating fee rate of 0.02 through the 8th year of Commercial Operations. Starting in the 9<sup>th</sup> year of Commercial Operations, the operating fee rate will be 0.04 and will remain in effect until the End Date. The capacity factor of 0.39 will remain in effect until the Lease Anniversary of the year in which the Lessor adjusts the capacity factor.

#### (3) Final Operating Fee Payment.

The final operating fee payment is due on the Lease Anniversary prior to the End Date. The final operating fee payment covers the last year of Commercial Operations on the lease and will be calculated in accordance with the formula in subsection (4) below.

| Ft                        | = | Mt                      | * | H                   | * | Cp                   | * | Pt               | * | rt                   |
|---------------------------|---|-------------------------|---|---------------------|---|----------------------|---|------------------|---|----------------------|
| (annual<br>operating fee) |   | (nameplate<br>capacity) |   | (hours per<br>vear) |   | (capacity<br>factor) |   | (power<br>price) |   | (operating fee rate) |

#### (4) The formula for calculating the operating fee in year t.

| -          |            |     |  |
|------------|------------|-----|--|
| Т.         | ٧ł         |     |  |
| - <b>N</b> | <b>V F</b> | 101 |  |
|            |            |     |  |

| Where            |  |
|------------------|--|
| t=               | the year of Commercial Operations on the lease starting from each Lease Anniversary, where <i>t</i> equals 1 represents the year beginning on the Lease Anniversary prior to, or on, the COD.  |
| $F_t =$          | the dollar amount of the annual operating fee in year <i>t</i> .   |
| M <sub>t</sub> = | the nameplate capacity expressed in megawatts (MW) rounded to the nearest second decimal place in year $t$ of Commercial Operations on the lease.  |
|                  | The value of $M_t$ , reflecting the availability of turbines, will be determined based on the COP. This value will be adjusted to reflect any modifications to the COP approved by BOEM as of the date each operating fee payment is due, in accordance with the calculation in Equation 1, for each year of Commercial Operations on the lease. |

(1) 
$$M_{t} = \sum_{w=1}^{W_{t}} \left( N_{w} * \left[ \frac{\left( \sum_{d=1}^{D} E_{w,t,d} \right)}{D} \right] \right)$$

Where:

 $W_t$  = Number of individual wind generation turbines, w, that will be available for Commercial Operations during any day of the year, t, per the COP.

 $N_w$  = Nameplate capacity of individual wind generation turbine, *w*, per the COP expressed in MW.

 $E_{w,t,d}$  = Indicates whether individual wind generation turbine, w, will be available

for Commercial Operations on day d of year t. The value is set to 1 for any day in year t for which the condition is true, i.e., the wind turbine will be available for Commercial Operations, and zero for any day in year t for which the condition is false, i.e., the wind turbine will not be available for Commercial Operations. The month of February is always assumed to have 28 days for purposes of this calculation, where March 1<sup>st</sup> will be counted as the first day of Commercial Operations if Commercial Operations commence on February 29<sup>th</sup> of a leap year.

D = Days in the year set equal to 365 in all years for purposes of this calculation.

 $M_t$  may be reduced only in the event that installed capacity is permanently decommissioned per the COP.  $M_t$  will not be changed in response to routine or unplanned maintenance of units, including the temporary removal of a nacelle for off-site repair or replacement with a similar unit.

EXAMPLE: Assume that the Lease Anniversary is January 1<sup>st</sup>, the COD Anniversary is July 1<sup>st</sup> commencing in the year 2018, that the facility will ultimately have 100 individual wind generation turbines with a nameplate capacity of 5.0 MW each, and that the COP specifies the following, cumulative installation schedule for wind turbines to become available for Commercial Operations:

- July 1, 2018 (COD): 20 turbines (20 new units);
- October 1, 2018: 45 turbines (25 new units);
- January 1, 2019: 50 turbines (5 new units);
- July 1, 2019: 65 turbines (15 new units);
- January 1, 2020: 95 turbines (30 new units);
- February 29, 2020: 100 turbines (5 new units).

Further assume that the COP calls for 50 of the turbines to be decommissioned after September 30, 2039 (t = 22), and that the remaining turbines are decommissioned at the End Date of March 15, 2040 (t = 23).

The value of  $M_t$  would be estimated as demonstrated in Table 1a for each year of Commercial Operations on the lease in this example.

|             | Table  |   |  | Mt Calculations for  |   |  |  |  |   |
|-------------|--|---|--|--|---|--|--|--|---|
|             | t.   | Turbines  | MW   | Commercial   | Comm.   | Days   | Share  | MW   | $M_{i}$   |
|             |  |   |  | Operations Period  | Ops.  | in   | of Days  |  |   |
|             |  |   |  | 이렇게 다 날 때 가 드릴 수 없다.   | Days  | Year   |  |  |   |
|             | 1  | 20  | 100  | Jul. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 184   |  | 50.41%   | 50.41  | 81.92   |
|             | 1  | 25  | 125  | Oct. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 92  |  | 25.21%   | 31,51  | 0,1,7,4   |
|             | 2  | 50  | 250  | Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 365   |  | 100.00%  | 250.00   | 287.81  |
| 2           | 4  | 15  | 75   | Jul. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 184   |  | 50.41%   | 37.81  | 207.01  |
|             | 3  | 95  | 475  | Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 365   |  | 100.00%  | 475.00   | 495.96  |
|             | 5  | 5   | 25   | Mar, 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 306   | 265  | 83.84%   | 20.96  | 495.90  |
|             | 4  | 100   | 500  | Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 365   | 365  | 100.00%  | 500.00   | 500.00  |
|             |  |   |  |  |   |  |  |  |   |
|             | 21   | 100   | 500  | Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 365   |  | 100.00%  | 500.00   | 500.00  |
|             | 00   | 50  | 250  | Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | 365   |  | 100.00%  | 250.00   | 426.00  |
|             | 22   | 50  | 250  | Jan. 1 <sup>st</sup> to Sep. 30 <sup>th</sup>  | 273   | 1  | 74.79%   | 186.98   | 436.98  |
|             | 23   | 50  | 250  | Jan. 1st to Mar. 15th  | 74  |  | 20.27%   | 50.68  | 50.68   |
|             | of 7.0<br>Septe  | mber 15, 2  | are ex<br>022. 1   | pected to be made<br>The impact on M <sub>t</sub> in<br>atil decommissionir  | e availab<br>1 2022 ai  | le for (<br>nd in su   | Commercia<br>1bsequent   | l Operat<br>years sta  | ions on   |
|             | of 7.0<br>Septe<br>2023  | ) MW and<br>mber 15, 2<br>and contin<br><b>e 1b: Exam</b>   | are ex<br>022. T<br>uing un<br><b>ple of</b>   | pected to be made<br>The impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for   | e availab<br>n 2022 an<br>ng is illus<br><b>or Repov</b>  | le for (<br>nd in su<br>trated i<br>v <b>ering</b>   | Commercia<br>1bsequent<br>n Table 1b.  | l Operat<br>years sta  | ions on<br>rting in   |
|             | of 7.0<br>Septe<br>2023  | ) MW and<br>mber 15, 2<br>and contin  | are ex<br>022. T<br>uing un  | pected to be made<br>the impact on M <sub>t</sub> in<br>atil decommissionin<br><u>M<sub>t</sub> Calculations fo</u><br>Commercial  | e availab<br>n 2022 an<br>ng is illus<br><b>or Repov</b><br>Comm.   | le for (<br>nd in su<br>trated i<br>vering<br>Days   | Commercia<br>ibsequent<br>n Table 1b.<br>Share   | l Operat<br>years sta  | ions on   |
|             | of 7.0<br>Septe<br>2023  | ) MW and<br>mber 15, 2<br>and contin<br><b>e 1b: Exam</b>   | are ex<br>022. T<br>uing un<br><b>ple of</b>   | pected to be made<br>The impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for   | e availab<br>n 2022 an<br>ng is illust<br><b>or Repov</b><br>Comm.<br>Ops.  | le for (<br>nd in su<br>trated i<br>vering<br>Days<br>in   | Commercia<br>1bsequent<br>n Table 1b.  | l Operat<br>years sta  | ions on<br>rting in   |
|             | of 7.0<br>Septer<br>2023<br>Table  | ) MW and<br>mber 15, 2<br>and contin<br>e <b>1b: Exam</b><br>Turbines   | are ex<br>2022. T<br>uing un<br><b>ple of</b><br>MW  | pected to be made<br>The impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for<br>Commercial<br>Operations Period  | e availab<br>n 2022 an<br>ng is illus<br>or Repov<br>Comm.<br>Ops.<br>Days  | le for (<br>nd in su<br>trated i<br>vering<br>Days   | Commercia<br>ibsequent<br>n Table 1b.<br>Share<br>of Days  | l Operat<br>years sta<br>MW  | ions on<br>rting in   |
|             | of 7.0<br>Septe<br>2023  | MW and<br>mber 15, 2<br>and contin<br><b>and contin</b><br><b>1b: Exam</b><br>Turbines<br>90 (5.0)  | are ex<br>2022. T<br>uing un<br><b>ple of</b><br>MW<br>450   | pected to be made<br>The impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for<br>Commercial<br>Operations Period<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>   | e availab<br>n 2022 an<br>ng is illus<br><b>or Repov</b><br>Comm.<br>Ops.<br>Days<br>365  | le for (<br>nd in su<br>trated i<br>vering<br>Days<br>in   | Commercia<br>ubsequent<br>n Table 1b.<br>Share<br>of Days<br>100.00%   | d Operat<br>years sta<br>MW<br>450.00  | ions on<br>rting in<br>M <sub>i</sub>   |
|             | of 7.0<br>Septer<br>2023<br>Table  | ) MW and<br>mber 15, 2<br>and contin<br>e <b>1b: Exam</b><br>Turbines   | are ex<br>2022. T<br>uing un<br><b>ple of</b><br>MW  | pected to be made<br>the impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for<br>Commercial<br>Operations Period<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Mar. 31 <sup>st</sup>  | e availab<br>n 2022 an<br>ng is illus<br>or Repov<br>Comm.<br>Ops.<br>Days  | le for (<br>nd in su<br>trated i<br>vering<br>Days<br>in   | Commercia<br>Ibsequent<br>n Table 1b.<br>Share<br>of Days<br>100.00%<br>24.66%   | d Operat<br>years sta<br>MW<br>450.00<br>12.33   | ions on<br>rting in   |
|             | of 7.0<br>Septer<br>2023<br>Table  | MW and<br>mber 15, 2<br>and contin<br><b>and contin</b><br><b>1b: Exam</b><br>Turbines<br>90 (5.0)  | are ex<br>2022. T<br>uing un<br><b>ple of</b><br>MW<br>450   | pected to be made<br>The impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for<br>Commercial<br>Operations Period<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>   | e availab<br>n 2022 an<br>ng is illus<br><b>or Repov</b><br>Comm.<br>Ops.<br>Days<br>365  | le for (<br>nd in su<br>trated i<br>vering<br>Days<br>in   | Commercia<br>Ibsequent<br>n Table 1b.<br>Share<br>of Days<br>100.00%<br>24.66%<br>29.59%   | d Operat<br>years sta<br>MW<br>450.00  | ions on<br>rting in<br>M <sub>i</sub>   |
|             | of 7.0<br>Septer<br>2023<br>Table  | ) MW and<br>mber 15, 2<br>and continue<br><b>1b: Exam</b><br>Turbines<br><u>90 (5.0)</u><br>10 (5.0)  | are ex<br>2022. T<br>uing un<br><b>ple of</b><br>MW<br>450<br>50   | pected to be made<br>the impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for<br>Commercial<br>Operations Period<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Mar. 31 <sup>st</sup>  | e availab<br>a 2022 an<br>ag is illus<br><b>or Repov</b><br>Comm.<br>Ops.<br>Days<br><b>365</b><br>90   | le for (<br>nd in su<br>trated i<br>vering<br>Days<br>in<br>Year   | Commercia<br>Desequent<br>n Table 1b.<br>Share<br>of Days<br>100.00%<br>24.66%<br>29.59%<br>100.00%  | d Operat<br>years sta<br>MW<br>450.00<br>12.33   | ions on<br>rting in<br>M:<br>483.04   |
|             | of 7.0<br>Septe<br>2023<br>Table<br>5  | MW and<br>mber 15, 2<br>and contine<br><b>1b: Exam</b><br>Turbines<br>90 (5.0)<br>10 (5.0)<br>10 (7.0)  | are ex<br>022. T<br>uing un<br><b>ple of</b><br>MW<br>450<br>50<br>70  | pected to be made<br>the impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for<br>Commercial<br>Operations Period<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> , to Mar. 31 <sup>st</sup><br>Sep. 15 <sup>th</sup> to Dec. 31 <sup>st</sup>  | e availab<br>a 2022 an<br>ig is illus<br><b>or Repov</b><br>Comm.<br>Ops.<br>Days<br>365<br>90<br>108   | le for (<br>nd in su<br>trated i<br>vering<br>Days<br>in<br>Year   | Commercia<br>Ibsequent<br>n Table 1b.<br>Share<br>of Days<br>100.00%<br>24.66%<br>29.59%   | d Operat<br>years sta<br>MW<br>450.00<br>12.33<br>20.71  | ions on<br>rting in<br>M <sub>i</sub>   |
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| · · · · ·   | of 7.0<br>Septe<br>2023<br>Table<br>(<br>5<br>6<br>the nu<br>years   | MW and<br>mber 15, 2<br>and continue<br><b>1b: Exam</b><br>Turbines<br>90 (5.0)<br>10 (5.0)<br>10 (7.0)<br>90 (5.0)<br>10 (7.0)<br>umber of h<br>of Commen  | are ex<br>2022. T<br>uing un<br><b>ple of</b><br>MW<br>450<br>50<br>70<br>450<br>70<br>uours in<br>rcial Op  | pected to be made<br>the impact on M <sub>t</sub> in<br>the commercial<br>Operations for<br>Operations Period<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>an 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>an the year for billing<br>perations on the leas  | e availab<br>a 2022 an<br>ag is illust<br>or Repov<br>Comm.<br>Ops.<br>Days<br>365<br>90<br>108<br>365<br>365<br>365<br>365<br>365<br>365<br>365  | le for (<br>nd in su<br>trated i<br>vering<br>Days<br>in<br>Year<br>365<br>ses whi   | Commercia<br>Ibsequent<br>In Table 1b.<br>Share<br>of Days<br>100.00%<br>24.66%<br>29.59%<br>100.00%<br>100.00%<br>ich is equa   | d Operat<br>years sta<br>MW<br>450.00<br>12.33<br>20.71<br>450.00<br>70.00<br>1 to 8,760                                     | ions on<br>rting in<br>483.04<br>520.00<br>D for all  |
| · · · · ·   | of 7.0<br>Septer<br>2023<br>Table<br>(<br>5<br>6<br>the nu<br>years<br>the "                                     | MW and<br>mber 15, 2<br>and continue<br><b>1b: Exam</b><br><b>Turbines</b><br>90 (5.0)<br>10 (5.0)<br>10 (7.0)<br>90 (5.0)<br>10 (7.0)<br>umber of h<br>of Commen<br>Capacity F   | are ex<br>2022. T<br>uing un<br><b>ple of</b><br>MW<br>450<br>50<br>70<br>450<br>70<br>450<br>70<br>uours ir<br>rcial Op                                 | pected to be made<br>the impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for<br>Commercial<br>Operations Period<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>an. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup> | e availab<br>a 2022 an<br>ag is illust<br><b>or Repove</b><br>Comm.<br>Ops.<br>Days<br>365<br>90<br>108<br>365<br>365<br>365<br>ag purpos<br>se.<br>Period pa                                       | le for (<br>nd in su<br>trated i<br>vering<br>Days<br>in<br>Year<br>365<br>ses whi   | Commercia<br>Ibsequent<br>n Table 1b.<br>Share<br>of Days<br>100.00%<br>24.66%<br>29.59%<br>100.00%<br>100.00%<br>ich is equa  | d Operat<br>years sta<br>MW<br>450.00<br>12.33<br>20.71<br>450.00<br>70.00<br>I to 8,760<br>ts the s                         | ions on<br>rting in<br>M;<br>483.04<br>520.00<br>D for all<br>hare of                       |
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| · · · · ·   | of 7.0<br>Septer<br>2023<br>Table<br>(<br>5<br>6<br>the m<br>years<br>the "<br>antici                            | MW and<br>mber 15, 2<br>and continue<br><b>1b: Exam</b><br><b>Turbines</b><br>90 (5.0)<br>10 (5.0)<br>10 (7.0)<br>90 (5.0)<br>10 (7.0)<br>90 (5.0)<br>10 (7.0)<br>umber of h<br>of Commen<br>Capacity F<br>pated gene   | are ex<br>022. T<br>uing un<br><b>ple of</b><br>MW<br>450<br>50<br>70<br>450<br>70<br>actor"<br>eration  | pected to be made<br>the impact on M <sub>t</sub> in<br>atil decommissionin<br>M <sub>t</sub> Calculations for<br>Commercial<br>Operations Period<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>an 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup>  | e availab<br>a 2022 an<br>ag is illus<br><b>or Repov</b><br>Comm.<br>Ops.<br>Days<br>365<br>90<br>108<br>365<br>365<br>365<br>ag purpos<br>se.<br>Period pa<br>ative to                             | le for of<br>nd in su<br>trated i<br>vering<br>Days<br>in<br>Year<br>365<br>ses whi<br>, which<br>its gen  | Commercia<br>Ibsequent<br>In Table 1b.<br>Share<br>of Days<br>100.00%<br>24.66%<br>29.59%<br>100.00%<br>100.00%<br>ich is equa<br>In represent<br>the represent<br>the represent | d Operat<br>years sta<br>MW<br>450.00<br>12.33<br>20.71<br>450.00<br>70.00<br>I to 8,760<br>ts the s<br>continue             | ions on<br>rting in<br>M<br>483.04<br>520.00<br>D for all<br>hare of<br>ous full            |
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| · · · · ·   | of 7.0<br>Septer<br>2023<br>Table<br>(<br>5<br>6<br>the nu<br>years<br>the "<br>antici<br>powe<br>one.<br>The in | MW and<br>mber 15, 2<br>and continue<br>and continue<br><b>1b: Exam</b><br><b>Turbines</b><br>90 (5.0)<br>10 (5.0)<br>10 (7.0)<br>90 (5.0)<br>10 (7.0)<br>90 (5.0)<br>10 (7.0)<br>umber of h<br>of Commen<br>Capacity F<br>pated generation<br>nitial Capacity Fa | are ex<br>022. T<br>uing un<br><b>ple of</b><br>MW<br>450<br>50<br>70<br>450<br>70<br>450<br>70<br>actor"<br>eration<br>at the<br>city Fac               | pected to be made<br>the impact on M <sub>t</sub> in<br>the commercial<br>Operations for<br>Operations for<br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>Jan. 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>an 1 <sup>st</sup> to Dec. 31 <sup>st</sup><br>of the year for billing<br>perations on the lead<br>in Performance I<br>of the facility rel<br>nameplate capacity  | e availab<br>a 2022 an<br>ag is illust<br>or Repove<br>Comm.<br>Ops.<br>Days<br>365<br>90<br>108<br>365<br>365<br>365<br>365<br>ag purpos<br>se.<br>Period p,<br>ative to<br>y, express<br>to 0.39. | le for for for the second in subtracted in second s | Commercia<br>Ibsequent<br>In Table 1b.<br>Share<br>of Days<br>100.00%<br>24.66%<br>29.59%<br>100.00%<br>100.00%<br>ich is equa<br>In represent<br>the represent<br>the decimal b | d Operat<br>years sta<br>MW<br>450.00<br>12.33<br>20.71<br>450.00<br>70.00<br>I to 8,760<br>ts the s<br>continue<br>etween z | ions on<br>rting in<br>M<br>483.04<br>520.00<br>D for all<br>hare of<br>ous full<br>ero and |

Lessee will utilize data gathered from years 2 through 6 of Commercial Operations on the lease and determine the Capacity Factor to be used to calculate subsequent annual payments, as provided for in Table 2 below. A similar process will be conducted at the conclusion of each five-year Performance Period, thereafter.

| Performance<br>Period ( <i>p</i> ) | Commercial<br>Operation<br>Years ( <i>t</i> ) | Payments Affected<br>by Adjustment | Capacity<br>Factor ( <i>C</i> ) | Date End<br>Year<br>(n)  |   |
|------------------------------------|---|------------------------------------|---------------------------------|--------------------------|---|
| 0 (COD)                            | Not Applicable                                | Payments 1 to 7                    | Co=0.39                         |                          | ] |
| 1                                  | t = 2  to  6                                  | Payments 8 to 12                   | C1                              | <i>n</i> <sub>1</sub> =6 | 1 |
| 2                                  | t = 7  to  11                                 | Payments 13 to 17                  | C2                              | n2=11                    | 1 |
| 3                                  | t = 12  to  16                                | Payments 18 to 22                  | C3                              | <i>n</i> ₃=16            | ] |
| 4                                  | t = 17  to  21                                | Payments 23 to End<br>Date         | C4                              | n <sub>4</sub> =21       |   |

### **Table 2: Definition of Performance Periods**

### Adjustments to the Capacity Factor

The Actual 5-year Average Capacity Factor (Xp) is calculated for each Performance Period after COD (p > 0) per Equation 2 below. Xp represents the sum of actual, metered electricity generation in megawatt-hours (MWh) at the Delivery Point to the electric grid  $(A_t)$  divided by the amount of electricity generation in MWh that would have been produced if the facility operated continuously at its full, stated capacity  $(M_t)$  in all of the hours  $(h_t)$  in each year, t, of the corresponding five-year period.

(2) 
$$X_p = \frac{\sum_{t=n-4}^{n} A_t}{\left(\sum_{t=n-4}^{n} M_t * h_t\right)}$$

Where:

 $M_t$  = Nameplate Capacity as defined above.

*n* = "Date End Year" value for the Performance Period, *p*, as defined in Table 2.

*p* = Performance Period as defined in Table 2.

- $A_t$  = Actual generation in MWh associated with each year of Commercial Operations, t, on the lease; delivery point meter data supporting the values submitted for annual actual generation may be requested by BOEM in evaluating changes to the capacity factor.
- $h_t$  = Hours in the year on which the Actual Generation associated with each year of Commercial Operations, *t*, on the lease is based; this definition of "hours in the year" differs from the definition of H in the operating fee equation above. The hours in the year for purposes of calculating the capacity factor must take into account the actual number of hours including leap years.

The value of the Capacity Factor at the outset of Commercial Operations (p = 0) is set to 0.39 as stated in equation 3:

|                  | (3) $c_0 = CF_{COP}(0.39)$  |  |  |  |
|------------------|---|--|--|--|
|                  | The value of the Capacity Factor corresponding to each Performance Period $(C_p)$ is<br>according to equations 4A, 4B, and 4C as follows for each value of $p$ greater than ze<br>The Capacity Factor is set equal to the Actual 5-Year Average Capacity Factor   |  |  |  |
|                  | provided that the value falls within a range of plus or minus ten percent of previous Performance Period's capacity factor.   |  |  |  |
|                  | (4A) $c_p = X_p$ for $c_{p-1} * 0.90 \le X_p \le c_{p-1} * 1.10$  |  |  |  |
|                  | (4B) $c_p = c_{p-1} * 0.90$ for $X_p < c_{p-1} * 0.90$  |  |  |  |
|                  | (4C) $c_p = c_{p-1} * 1.10$ for $X_p > c_{p-1} * 1.10$  |  |  |  |
|                  | All values for $C_p$ will be rounded to the nearest third decimal place.  |  |  |  |
| P <sub>t</sub> = | a measure of the annual average wholesale electric power price expressed in dollars per MW hour.  |  |  |  |
|                  | The Lessee will calculate $P_t$ at the time each operating fee payment is due, subject to approval by the Lessor. The Base Price ( $P_b$ ) will equal the weighted average of the   |  |  |  |
|                  | peak and off-peak spot price indices for the Northeast – PJM West power market for<br>the most recent year of data available as reported by the Federal Energy Regulatory<br>Commission (FERC) as part of its annual <u>State of the Markets Report</u> with specific<br>reference to the summary entitled "Electric Market Overview: Regional Spot Prices."<br>The latest version of this report is available at <u>http://www.ferc.gov/market-<br/>oversight/mkt-electric/overview/elec-ovr-3yr-regional-elec-pr.pdf</u> . If FERC stops<br>publishing its annual <u>State of the Markets Report</u> required for this calculation or the<br>specified location of the data changes over time, the Lessor will specify an alternate<br>source of data and methodology that is approximately equivalent. |  |  |  |
|                  | The peak and off-peak price indices will be weighted 52.0% and 48.0%, respectively, for purposes of estimating the weighted index value for the Base Price. For example, in the January 4, 2011 <u>State of the Markets Report</u> the peak price index for 2010 was \$53.68/MWh and the corresponding off-peak price index for 2010 was \$35.81/MWh, resulting in a weighted index value for the Base Price for 2010 ( $P_{2010}$ ) of \$45.10/MWh (=52.0% * \$53.68 / MWh + 48.0% *\$35.81 / MWh). The calculation of $P_b$ will be   |  |  |  |
|                  | rounded up to the nearest, second decimal place.  |  |  |  |
| *                | The Base Price will be adjusted for inflation from the year associated with the published spot prices to the year in which the operating fee is to be paid as shown in equations (5A) and (5B):   |  |  |  |

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(5A) 
$$P_t = P_b * \left(\frac{GDP_g}{GDP_{g-1}}\right)^{y-g} * \left(\frac{GDP_g}{GDP_b}\right) \text{ for } g \ge b$$
  
(5B)  $P_t = P_b * \left(\frac{GDP_g}{GDP_{g-1}}\right)^{y-b} \text{ for } g < b$ 

Where:

GDP = Annual Implicit Price Deflators for Gross Domestic Product (GDP deflator index) from Table 1.1.9, line 1, in the <u>Survey of Current Business</u> published by the U.S. Bureau of Economic Analysis (BEA) in the specified period; the latest version of this data is currently available at:

http://bea.gov/iTable/iTable.cfm?ReqID=9&step=1.

If BEA stops publishing the data required for this calculation, or the specified location of the data changes over time, the Lessor will specify an alternative source of data and methodology that it considers approximately equivalent.

- b = The most recent year for which FERC reports the appropriate electricity spot price data expressed as the year, e.g., 2008 as in the illustrative example below.
- g = The most recent year for which GDP deflator indices are available from BEA expressed as the year, e.g., 2010 as in the illustrative example below.
- y = The year the annual payment is due expressed as the year corresponding to the value of *t* described above, e.g., 2012 as in the illustrative example below.

The second term on the right-hand side of equation (5A) represents a projected annual change in the index of inflation employing the last year of data available from BEA, while the third term represents the cumulative change in the index of inflation up to the previous year.

#### **Example:**

The following hypothetical example is provided to illustrate the methodology using Equation (5A) and the illustrative values provided for *b*, *g*, and *y* above applied to historical GDP deflator data. If the actual FERC price indices are based on 2008 data and the GDP deflator indices are available for 2010, the inflation-adjusted price index value would be determined from equation (5A) as follows for a payment occurring in y = 2012:

$$P_{t(2012)} = P_{2008} * \left(\frac{GDP_{2010}}{GDP_{2009}}\right)^{2012-2010} * \left(\frac{GDP_{2010}}{GDP_{2008}}\right) = \frac{\$68.10}{\text{MWh}} * \left(\frac{110.992}{109.729}\right)^2 * \left(\frac{110.992}{108.582}\right) = \frac{\$71.22}{\text{MWh}}$$

Note: The current GDP deflator index is 110.992 for 2010, 109.729 for 2009, and 108.582 for 2008 (last revised by BEA on October 27, 2011); the FERC index price for the year 2008 is \$68.10/MWh (On-peak: \$83.70/MWh; Off-peak: \$51.21/MWh; last revised January 4, 2010). Although 2010 FERC prices are available, the 2008 prices are used in the example to illustrate the concept.
The Lessor and the Lessee will use the latest FERC price indices and revised BEA GDP

deflator index values at the time the pricing adjustments are made. The source of data used in the calculations will be noted in the Lessee's documentation supporting their estimate of the value of  $P_t$  each year for review and approval by the Lessor.

 $\mathbf{r}_t = \mathbf{I}$  the operating fee rate.

For the first 8 years of Commercial Operations on the lease (t = 1 to 8) the operating fee rate will be 0.02. Starting in the 9<sup>th</sup> year and continuing throughout the remaining years of the lease term ( $t \ge 9$ ), the operating fee rate will be 0.04.

#### (c) Reporting, Validation, Audits, and Late Payments.

The Lessee must submit the values used in the operating fee formula to the Lessor at the time the annual payment based on these values is made. Submission of this and other reporting, validation, audit and late payment information as requested by the Lessor will be sent to the Lessor using the contact information indicated in Addendum "A", unless the Lessor directs otherwise. Failure to submit the estimated values and the associated documentation on time to the Lessor may result in penalties as specified in applicable regulations.

Within sixty (60) days of the submission by the Lessee of the annual payment, the Lessor will review the data submitted and validate that the operating fee formula was applied correctly. If the Lessor validation results in a different operating fee amount, the amount of the annual operating fee payment will be revised to the amount determined by the Lessor.

The Lessor also reserves the right to audit the meter data upon which the Actual five-year Average Capacity Factor is based. If, as a result of such audit, the Lessor determines that any annual operating fee payment was calculated incorrectly, the Lessor has the right to correct any errors and collect the correct annual operating fee payment amount.

If the annual operating fee is revised downward as a result of the Lessor's validation of the Lessee's calculations or audit of meter data, the Lessee will be refunded the difference between the amount of the payment received and the amount of the revised annual operating fee, without interest. Similarly, if the payment amount is revised upward, the Lessee will be required to pay the difference between the amount of the payment received and the amount of the payment received and the amount of the revised annual operating fee, plus interest on the balance in accordance with 30 CFR 1218.54.

Late operating fee payments will be charged interest in accordance with 30 CFR 1218.54.

III. <u>Financial Assurance</u>

The Lessor will base the determination for the amounts of all SAP, COP and decommissioning financial assurance requirements on estimates of the cost to meet all accrued lease obligations. The Lessor determines the amount of supplemental and decommissioning financial assurance requirements on a case-by-case basis. The amount of financial assurance requirements on a case-by-case basis. The amount of financial assurance requirements includes:

- The projected amount of rent and other payments due the Lessor over the next 12 months;
- Any past due rent and other payments;
- Other monetary obligations (e.g., fines, liens); and
- The estimated cost of facility decommissioning.
- (a) *Initial Financial Assurance Due Prior to Lease Issuance Date.* The Lessee must provide the required financial assurance as described below in a form acceptable to the Lessor prior to the Lease Issuance Date:
  - An initial lease-specific bond, or other approved means of meeting the Lessor's initial financial assurance requirements, in the amount of \$100,000, and
  - A supplemental bond, or other approved means of meeting the Lessor's supplemental financial assurance requirements, in the amount of \$289,290. This supplemental bond amount guarantees lease obligations from rental payments due to the Lessor over the first 12 months.
- (b) Additional Financial Assurance. In addition to the initial lease-specific and supplemental financial assurance discussed above, the Lessee is also required to provide an additional supplemental bond, or other approved means of meeting the Lessor's financial assurance requirements, and a decommissioning bond, or other approved means of meeting the Lessee's decommissioning obligations.
  - (1) Prior to the Lessor's approval of a SAP, the Lessor will require an additional supplemental bond or other form of financial assurance in an amount determined by the Lessor based on the complexity, number, and location of all facilities involved in the site assessment activities planned in the SAP, and estimates of the costs to meet all accrued obligations, in accordance with applicable BOEM regulations (30 CFR 585.515-585.537). The supplemental financial assurance requirement is in addition to the initial lease-specific financial assurance in the amount of \$100,000 and the initial supplemental financial assurance in the amount of \$289,290. The Lessee may meet these obligations by providing a new bond or other acceptable form of financial assurance, or increasing the amount of its existing bond or other form of financial assurance.

- (2) Prior to the Lessor's approval of a COP, the Lessor will require an additional supplemental bond or other form of financial assurance in an amount determined by the Lessor based on the complexity, number, location of all facilities, activities and Commercial Operations planned in the COP, and estimates of the costs to meet all accrued obligations, in accordance with applicable BOEM regulations (30 CFR 585.515-585.537). The supplemental financial assurance requirement is in addition to the initial lease-specific financial assurance in the amount of \$100,000, the initial supplemental financial assurance in the amount of \$289,290, and any additional supplemental bond or other form of financial assurance required with the SAP. The Lessee may meet these obligations by providing a new bond or other acceptable form of financial assurance, or increasing the amount of its existing bond or other form of financial assurance.
- (3) The Lessor will determine the amount and the schedule for providing the decommissioning bond or other financial assurance based on the anticipated decommissioning costs in accordance with applicable BOEM regulations (30 CFR 585.515-585.537). The decommissioning obligation must be guaranteed through an acceptable form of financial assurance and will be due according to the schedule beginning before commencement of the installation of commercial facilities on a date or dates to be determined by the Lessor.
- (c) Adjustments to Financial Assurance Amounts. The Lessor reserves the right to adjust the amount of any financial assurance requirement (initial, supplemental or decommissioning) associated with this lease and/or reassess the Lessee's cumulative lease obligations, including decommissioning obligations, at any time. If the Lessee's cumulative lease obligations and/or liabilities increase or decrease, the Lessor will notify the Lessee of any adjustment to the financial assurance requirements and provide the Lessee an opportunity to comment in accordance with applicable BOEM regulations.

### U.S. DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT

### **ADDENDUM "C"**

#### LEASE-SPECIFIC TERMS, CONDITIONS, AND STIPULATIONS

### Lease Number OCS-A 0482

The Lessee's rights to conduct activities on the leased area are subject to the following terms, conditions, and stipulations. The Lessor reserves the right to impose additional terms, and conditions incident to the future approval or approval with modifications of plans, such as a Site Assessment Plan (SAP) or Construction and Operations Plan (COP).

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### **1 DEFINITIONS**

- 1.1 Definition of "Archaeological Resource": The term "archaeological resource" has the same meaning as "archaeological resource" in BOEM regulations provided in 30 CFR 585.112.
- 1.2 Definition of "Dynamic Management Area (DMA)": The term "DMA" refers to a temporary area designated by the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) and consisting of a circle around a confirmed North Atlantic right whale sighting. The radius of this circle expands incrementally with the number of whales sighted, and a buffer is included beyond the core area to allow for whale movement. Mandatory or voluntary speed restrictions may be applied by NOAA NMFS within DMAs. Information regarding the location and status of applicable DMAs is available from the NMFS Office of Protected Resources.
- **1.3** Definition of "Effective Date": The term "Effective Date" has the same meaning as "effective date" in BOEM regulations provided in 30 CFR 585.237.
- 1.4 Definition of "Geological and Geophysical Survey (G&G Survey)": The term "G&G Survey" serves as a collective term for surveys that collect data on the geology of the seafloor and landforms below the seafloor. High resolution geophysical surveys and geotechnical (sub-bottom) sampling are components of G&G surveys.
- 1.5 Definition of "Geotechnical Sampling": The term "Geotechnical Sampling," also referred to as "Sub-bottom Sampling," or "Geotechnical Testing," is used to collectively refer to site specific sediment and underlying geologic data acquired from the seafloor and the sub-bottom and includes geotechnical surveys utilizing deep borings, vibracores, and cone penetration tests.
- 1.6 Definition of "High Resolution Geophysical Survey (HRG Survey)": The term "HRG Survey" means a marine remote-sensing survey using, but not limited to, such equipment as side-scan sonar, magnetometer, shallow and medium (Seismic) penetration sub-bottom profiler systems, narrow beam or multibeam echo sounder, or other such equipment employed for the purposes of providing data on geological conditions, identifying shallow hazards, identifying archaeological resources, charting bathymetry, and gathering other site characterization information.
- 1.7 Definition of "Listed Species": The term "listed species", also referred to in adjective form as "listed," means any species of fish, wildlife, or plant that has been determined to be endangered or threatened under Section 4 of the Endangered Species Act. Listed species are provided in 50 CFR 17.11-17.12.
- 1.8 Definition of "Protected-Species Observer": The term "protected-species observer," or "observer," means an individual who is trained in the shipboard identification and behavior of protected species. Protected species include marine mammals (those protected under the Endangered Species Act and those protected under the Marine Mammal Protection Act) and sea turtles.

- **1.9** Definition of "Ramp-up": The term "ramp-up" means the process of incrementally increasing the acoustic source level of the survey equipment when conducting HRG surveys until it reaches the operational setting.
- 1.10 Definition of "Site Assessment Activities": The term "site assessment activities," or "site assessment," has the same meaning as "site assessment activities" in 30 CFR 585.112.
- 1.11 Definition of "Qualified Marine Archaeologist": The term "qualified marine archaeologist" means a person retained by the Lessee who meets the Secretary of the Interior's Professional Qualifications Standards for Archaeology (48 FR 44738-44739), and has experience analyzing marine geophysical data.
- 1.12 Definition of "Take": The terms "Takes" and "Taken" and "Taking" have the same meaning as the term "take" as defined in 16 U.S.C. § 1532(19).

### **2** SCHEDULE

### 2.1 Site Assessment

- 2.1.1 <u>Site Assessment Term</u>. The site assessment term of this lease commences on the Effective Date. The Lessee will have a site assessment term of five years to conduct site assessment activities. The Lessee must submit a COP at least six months before the end of the site assessment term per the requirements provided in 30 CFR 585.601.
- 2.1.2 <u>Site Assessment Plan</u>. The Lessee must submit a SAP for the Lessor's review and approval no later than the first anniversary of this lease's Effective Date that meets the requirements of the applicable regulations, including but not limited to 30 CFR 585.606, 610, and 611. If the Lessee does not intend to conduct site assessment activities during the site assessment term, then the Lessee's SAP may consist of a statement asserting this fact.

### 2.2 Site Characterization

#### 2.2.1 Survey Plan(s).

- 2.2.1.1 <u>Pre-Filing Plan and Schedule</u>. A pre-filing plan and schedule must be submitted to the Lessor within three months of this lease's Effective Date. The pre-filing plan and schedule must include a description of the activities the Lessee will conduct to prepare a SAP, and demonstrate how the Lessee will comply with the SAP filing deadline (see 2.1.2). This pre-filing plan and schedule must include the date by which the Lessee will submit the SAP survey plan to the Lessor. The Lessor may require that the Lessee modify this pre-filing plan and schedule to address any comments the Lessor submits to the Lessee on the contents of this pre-filing plan and schedule in a manner deemed satisfactory to the Lessor prior to the submission of the SAP survey plan. The Lessor will review the pre-filing plan and schedule and provide any comments that the Lessor has on the pre-filing plan and schedule to the Lessee within 30 business days of receipt.
- 2.2.1.2 <u>SAP Survey Plan</u>. If the Lessee proposes to conduct site assessment activities during the site assessment term, then the Lessee must submit to the Lessor a complete SAP survey plan. This SAP survey plan must include the results of prior relevant surveys conducted in the lease area, if available to the Lessee, and details of any surveys to be conducted on this lease necessary to support the submission of a SAP (see 2.1.2).

The Lessee must submit in the SAP survey plan a supporting explanation to substantiate any assertion that the results of prior surveys conducted in the lease area satisfy all or some of the information requirements of a SAP.

The Lessee must submit the SAP survey plan to the Lessor by the date specified in the Lessee's pre-filing plan and schedule.

The Lessor will require that the Lessee modify the SAP survey plan to address any comments the Lessor submits to the Lessee on the contents of the SAP survey plan in a manner deemed satisfactory to the Lessor prior to the commencement of any survey activities described in the SAP survey plan.

2.2.1.3 <u>COP Survey Plan</u>. The Lessee must submit to the Lessor for review a complete COP survey plan providing details and timelines of the surveys to be conducted on this lease necessary to support of the submission of a COP (i.e., necessary to satisfy the information requirements in the applicable regulations, including but not limited to 30 CFR 621, 626, 627). The COP survey plan must be submitted to the Lessor no later than the first anniversary of this lease's Effective Date, unless the deadline for submission of this plan is extended by the Lessor per 2.2.4. The Lessee must modify the COP survey plan to address any comments the Lessor submits to the Lesser on the contents of the COP survey plan in a manner deemed satisfactory to the Lessor prior to the commencement of these survey activities.

- 2.2.2 <u>Pre-Survey Meeting(s) with the Lessor</u>. At least 60 days prior to the initiation of survey activities in support of the submission of a plan (i.e., SAP and/or COP), the Lessee must hold a pre-survey meeting with the Lessor to discuss the applicable proposed survey plan and timelines. The Lessee must ensure the presence of a Qualified Marine Archaeologist at this meeting (See 4.2.2).
- 2.2.3 <u>HRG Survey Milestone</u>. The Lessee must complete the HRG surveys necessary to support of the submission of a COP no later than the third anniversary of this lease's Effective Date, unless the deadline for completion of the HRG surveys necessary to support of the submission of a COP is extended by Lessor per 2.2.4. The Lessee must include this milestone in the COP survey plan (See 2.2.1.3).
- 2.2.4 <u>Deadline Extensions</u>. The Lessee may for good cause request that the Lessor extend the deadline for Lessee's performance of the actions contained in 2.2.1.3 pertaining to the required timeframe for submission of the Lessee's COP survey plan in support of later submission of a COP and/or in 2.2.3 pertaining to the completion date of the HRG surveys necessary to support the submission of a COP. The Lessor will approve, approve with modification, or deny the Lessee's request(s) at the Lessor's discretion.

#### 2.3 Progress Reporting

2.3.1 <u>Quarterly Progress Report</u>. The Lessee must submit to the Lessor a quarterly progress report through the duration of the site assessment term that includes a brief narrative of the overall progress since the last progress report, or – in the case of the first report – since the Effective Date. The Lessee must submit the first progress report at the end of the first calendar quarter of 2013 (i.e., March 31, 2013). The progress report must include an update regarding progress in executing the activities included in the survey plan(s), and include as an enclosure an updated survey plan(s) accounting for any modifications in schedule.

### **3 NATIONAL SECURITY AND MILITARY OPERATIONS**

The Lessee must comply with the requirements specified in stipulations 3.1, 3.2, and 3.3 when conducting site characterization activities in support of plan (i.e., SAP and/or COP) submittal.

### 3.1 Hold and Save Harmless

Whether compensation for such damage or injury might be due under a theory of strict or absolute liability or otherwise, the Lessee assumes all risks of damage or injury to persons or property, which occur in, on, or above the OCS, to any persons or to any property of any person or persons in connection with any activities being performed by the Lessee in, on, or above the OCS, if such injury or damage to such person or property occurs by reason of the activities of any agency of the United States Government, its contractors, or subcontractors, or any of its officers, agents or employees, being conducted as a part of, or in connection with, the programs or activities of the individual military command headquarters (hereinafter "the appropriate command headquarters") listed in the contact information provided as an Enclosure to this lease.

Notwithstanding any limitation of the Lessee's liability in Section 9 of the lease, the Lessee assumes this risk whether such injury or damage is caused in whole or in part by any act or omission, regardless of negligence or fault, of the United States, its contractors or subcontractors, or any of its officers, agents, or employees. The Lessee further agrees to indemnify and save harmless the United States against all claims for loss, damage, or injury in connection with the programs or activities of the command headquarters, whether the same be caused in whole or in part by the negligence or fault of the United States, its contractors, or subcontractors, or any of its officers, agents, or employees and whether such claims might be sustained under a theory of strict or absolute liability or otherwise.

### **3.2 Evacuation or Suspension of Activities**

- 3.2.1 <u>General</u>. The Lessee hereby recognizes and agrees that the United States reserves and has the right to temporarily suspend operations and/or require evacuation on this lease in the interest of national security pursuant to Section 3(c) of this lease.
- 3.2.2 <u>Notification</u>. Every effort will be made by the appropriate military agency to provide as much advance notice as possible of the need to suspend operations and/or evacuate. Advance notice will normally be given before requiring a suspension or evacuation. Temporary suspension of operations may include but are not limited to the evacuation of personnel, and appropriate sheltering of personnel not evacuated.

"Appropriate shelter" means the protection of all Lessee personnel for the entire duration of any Department of Defense activity from flying or falling objects or substances and will be implemented by an order (oral and/or written) from the BOEM Office of Renewable Energy Programs (OREP) Program Manager, after consultation with the appropriate command headquarters or other appropriate military agency, or higher Federal authority. The appropriate command headquarters, military agency or higher authority will provide information to allow the Lessee to assess the degree of risk to, and provide sufficient protection for, the Lessee's personnel and property.

- 3.2.3 <u>Duration</u>. Suspensions or evacuations for national security reasons will not generally exceed 72 hours; however, any such suspension may be extended by order of the OREP Program Manager. During such periods, equipment may remain in place, but all operations, if any, must cease for the duration of the temporary suspension if so directed by the OREP Program Manager. Upon cessation of any temporary suspension, the OREP Program Manager will immediately notify the Lessee such suspension has terminated and operations on the leased area can resume.
- 3.2.4 <u>Lessee Point-of-Contact for Evacuation/Suspension Notifications</u>. The Lessee must inform the Lessor of the persons/offices to be notified to implement the terms of 3.2.2 and 3.2.3.
- 3.2.5 <u>Coordination with Command Headquarters</u>. The Lessee must establish and maintain early contact and coordination with the appropriate command headquarters, in order to avoid or minimize the potential to conflict with and minimize the potential effects of conflicts with military operations.
- 3.2.6 <u>Reimbursement</u>. The Lessee is not entitled to reimbursement for any costs or expenses associated with the suspension of operations or activities or the evacuation of property or personnel in fulfillment of the military mission in accordance with 3.2.1 through 3.2.5 above.

#### **3.3 Electromagnetic Emissions**

The Lessee, prior to entry into any designated defense operating area, warning area, or water test area, must enter into an agreement with the commander of the appropriate command headquarters prior to commencing survey activities undertaken to support SAP or COP submittal, to coordinate the electromagnetic emissions associated with such survey activities. The Lessee must ensure that all electromagnetic emissions associated with such survey activities are controlled as directed by the commander of the appropriate command headquarters.

### **4** STANDARD OPERATING CONDITIONS

### 4.1 General

- 4.1.1 <u>Vessel Strike Avoidance Measures</u>. The Lessee must ensure that all vessels associated with activities performed in support of plan (i.e., SAP and/or COP) submittal comply with the vessel-strike avoidance measures specified in stipulations 4.1.1.1 through 4.1.1.8, except under extraordinary circumstances when the safety of the vessel or crew is in doubt or the safety of life at sea is in question.
- 4.1.1.1 The Lessee must ensure that vessel operators and crews maintain a vigilant watch for marine mammals and sea turtles and slow down or stop their vessel to avoid striking marine mammals or sea turtles.
- 4.1.1.2 The Lessee must ensure that, when whales are sighted, vessels maintain a distance of 100 yards or greater from the whale. If the whale is judged by the protected-species observer (if present; see 4.3.2) and/or the vessel operator to be a North Atlantic right whale, the vessel must maintain a minimum distance of 500 yards from the animal in accordance with 50 CFR 224.103 Special prohibitions for endangered marine mammals.
- 4.1.1.3 The Lessee must ensure that, when sea turtles or small cetaceans are sighted, the vessels maintain a distance of 50 yards or greater whenever possible.
- 4.1.1.4 The Lessee must ensure that, when cetaceans are sighted while a vessel is underway, the vessel remains parallel to the animal's course whenever possible. The vessel must avoid excessive speed or abrupt changes in direction until the cetacean is at least 100 yards or, in the case of a North Atlantic right whale, 500 yards away from the vessel.
- 4.1.1.5 The Lessee must ensure that, when safety permits, vessel speeds are reduced to 10 knots or less when mother/calf pairs, pods, or large assemblages of cetaceans are observed near an underway vessel.
- 4.1.1.6 The Lessee must ensure that, when whales are sighted in a vessel's path or in close proximity to a moving vessel, the vessel will reduce speed and shift the engine to neutral when safety permits. The Lessee must ensure that engines are not engaged until the whale is at least 100 yards away from the vessel.
- 4.1.1.7 The Lessee must ensure that all vessels 65 feet in length or greater operating from November 1 through April 30 operate at speeds less than 10 knots. In addition, vessel operators must comply with speed restrictions in any DMA.
- 4.1.1.8 The Lessee must ensure that all vessel operators are briefed to ensure they are familiar with the requirements specified in 4.1.1.

4.1.2 <u>Marine Trash and Debris Prevention.</u> The Lessee must ensure that vessel operators, employees and contractors actively engaged site characterization activities performed in support of plan (i.e., SAP and/or COP) submittal are briefed on marine trash and debris awareness and elimination, as described in the BOEM Gulf of Mexico Region's Notice to Lessees (NTL) No. 2007-G03, except that the Lessor will not require the Lessee, vessel operators, employees and contractors to undergo formal training or post placards.

The Lessee must ensure that vessel operator employees, and contractors are made aware of the environmental and socioeconomic impacts associated with marine trash and debris and their responsibilities for ensuring that trash and debris are not intentionally or accidentally discharged into the marine environment. The abovereferenced NTL provides information the Lessee may use for this awareness training.

### 4.2 Archaeological Survey Requirements

- 4.2.1 <u>Archaeological Survey Procedures</u>. For site characterization surveys conducted for the purpose of identifying archaeological resources in support of plan (i.e., SAP and/or COP) submittal, the Lessee must comply with Appendix A.
- 4.2.2 <u>Qualified Marine Archaeologist</u>. The Lessee must ensure that the analysis of archaeological survey data collected in support of plan (e.g, SAP and/or COP) submittal and the preparation of archaeological reports in support of plan submittal are conducted by a Qualified Marine Archaeologist.
- 4.2.3 <u>Tribal Pre-Survey Meeting</u>. Subsequent to any pre-survey meeting with the Lessor (see 2.2.2) and at least forty-five (45) calendar days prior to commencing survey activities performed in support of plan (i.e., SAP and/or COP) submittal, the Lessee must invite by certified mail the Narragansett Indian Tribe, the Shinnecock Indian Nation, and the Lenape Tribe of Delaware to a tribal pre-survey meeting. The purpose of this meeting will be for the Lessee and the Qualified Marine Archaeologist to discuss the Lessee's Survey Plan and consider requests to monitor portions of the archaeological survey and the geotechnical sampling activities, including the visual logging and analysis of geotechnical samples (e.g., cores, etc.). The meeting must be scheduled for a date at least thirty (30) calendar days prior to commencing survey and at a location and time that affords the participants a reasonable opportunity to participate. The anticipated date for the meeting must be identified in the timeline of activities described in the applicable survey plan (see 2.2.1).

- 4.2.4 <u>Geotechnical (Sub-bottom) Sampling</u>. The Lessee may only conduct geotechnical sampling activities performed in support of plan (i.e., SAP and/or COP) submittal in locations where an analysis of the results of geophysical surveys has been completed. This analysis must include a determination by a Qualified Marine Archaeologist as to whether any potential archaeological resources are present in the area. Except as allowed by the Lessor under 4.2.6, the geotechnical sampling activities must avoid potential archaeological resources by a minimum of 50 meters, and the avoidance distance must be calculated from the maximum discernible extent of the archaeological resource. A Qualified Marine Archaeologist must certify, in the Lessee's archaeological reports, that geotechnical sampling activities did not impact potential historic properties identified as a result of the HRG surveys performed in support of plan submittal, except as provided in Appendix A, section IV(A).
- 4.2.5 <u>Monitoring and Avoidance</u>. The Lessee must inform the Qualified Marine Archaeologist that he or she may be present during HRG surveys and bottomdisturbing activities performed in support of plan (i.e., SAP and/or COP) submittal to ensure avoidance of potential archaeological resources, as determined by the Qualified Marine Archaeologist (including bathymetric, seismic, and magnetic anomalies; side scan sonar contacts; and other seafloor or sub-surface features that exhibit potential to represent or contain potential archaeological sites or other historic properties). In the event that this Qualified Marine Archaeologist indicates that he or she wishes to be present, the Lessee must facilitate the Qualified Marine Archaeologist's presence, as requested by the Qualified Marine Archaeologist, and provide the Qualified Marine Archaeologist the opportunity to inspect data quality.
- 4.2.6 <u>No Impact without Approval</u>. In no case may the Lessee knowingly impact a potential archaeological resource without the Lessor's prior approval.
- 4.2.7 <u>Post-Review Discovery Clauses</u>. If the Lessee, while conducting site characterization activities in support of plan (i.e., SAP and/or COP) submittal, discovers a potential archaeological resource as determined by a Qualified Marine Archaeologist, such as the presence of a shipwreck (e.g., a sonar image or visual confirmation of an iron, steel, or wooden hull, wooden timbers, anchors, concentrations of historic objects, piles of ballast rock), prehistoric artifacts, and/or relict landforms, etc. within the project area, the Lessee must:
- 4.2.7.1 Immediately halt seafloor/bottom-disturbing activities within the area of discovery;
- 4.2.7.2 Notify the Lessor within 24 hours of discovery;
- 4.2.7.3 Notify the Lessor in writing via report to the Lessor within 72 hours of its discovery;

- 4.2.7.4 Keep the location of the discovery confidential and take no action that may adversely affect the archaeological resource until the Lessor has made an evaluation and instructs the applicant on how to proceed; and
- 4.2.7.5 Conduct any additional investigations as directed by the Lessor to determine if the resource is eligible for listing in the National Register of Historic Places (30 CFR 585.802(b)). The Lessor will do this if: (1) the site has been impacted by the Lessee's project activities; or (2) impacts to the site or to the area of potential effect cannot be avoided. If investigations indicate that the resource is potentially eligible for listing in the National Register of Historic Places, the Lessor will tell the Lessee how to protect the resource or how to mitigate adverse effects to the site. If the Lessor incurs costs in protecting the resource, under Section 110(g) of the National Historic Preservation Act, the Lessor may charge the Lessee reasonable costs for carrying out preservation responsibilities under the OCS Lands Act (30 CFR 585.802(c-d)).

### 4.3 Geological and Geophysical (G&G) Survey Requirements

- 4.3.1 <u>Visibility</u>. The Lessee must not conduct G&G surveys in support of plan (i.e., SAP and/or COP) submittal at any time when lighting or weather conditions (e.g., darkness, rain, fog, sea state) prevents monitoring of the HRG survey exclusion zone (see 4.3.6) or the geotechnical sampling exclusion zone (see 4.3.7). If the Lessee intends to conduct G&G survey operations in support of plan submittal at night or when visual observation is otherwise impaired, it must consult with the Lessor regarding sufficient monitoring of the exclusion zone. The Lessor may, after consultation with NMFS, decide to allow the Lessee to conduct G&G surveys in support of plan submittal at night or when visual observation is otherwise impaired. The Lessee may request the use of active or passive acoustic monitoring technologies to facilitate G&G survey activity in support of plan submittal when visual observation may be impaired. The Lessor may, after consultation with NMFS, allow the Lessee to use active or passive acoustic monitoring technologies to facilitate survey activity in support of plan submittal when visual observation is impaired.
- 4.3.2 <u>Protected-Species Observer</u>. The Lessee must ensure that the exclusion zone for all G&G surveys performed in support of plan (i.e., SAP and/or COP) submittal is monitored by a NMFS-approved protected-species observer. The Lessee must provide to the Lessor a list of observers and their résumés no later than forty-five (45) calendar days prior to the scheduled start of surveys performed in support of plan submittal. The résumés of additional observers must be provided fifteen (15) calendar days prior to each observer's start date. The Lessor will send the observer information to NMFS for approval.

- 4.3.3 <u>Visual Monitoring of Exclusion Zone</u>. The Lessee must ensure that visual monitoring of the exclusion zone around the vessel for the presence of marine mammals or sea turtles begins no less than 60 minutes prior to the beginning of the operation of the sound source and continue until survey operations performed in support of plan (i.e., SAP and/or COP) submittal are concluded.
- 4.3.4 <u>Shut Down</u>. If a listed marine mammal or sea turtle is spotted within or transiting towards the exclusion zone surrounding the survey vessel and HRG survey equipment used during surveys performed in support of plan (i.e., SAP and/or COP) submittal, an immediate shutdown of the equipment will be required. Subsequent restart of the HRG survey equipment may only occur following clearance of the exclusion zone and the implementation of ramp-up procedures (if technologically feasible).
- 4.3.5 <u>Optical Device Availability</u>. The Lessee must ensure that binoculars or other suitable equipment are available to each observer to adequately perceive and monitor distant objects within the exclusion zone during surveys conducted in support of plan (i.e., SAP and/or COP) submittal.
- 4.3.6 <u>High-Resolution Geophysical (HRG) Surveys.</u> Stipulations specific to HRG surveys conducted in support of plan (i.e., SAP and/or COP) submittal are provided in 4.3.6.1 through 4.3.6.4:
- 4.3.6.1 <u>Establishment of Exclusion Zone</u>. Except as provided in 4.3.6.1.1, the Lessee must ensure a 500-meter radius exclusion zone for marine mammals and sea turtles around the HRG survey vessel and sound source array during operation of the sound source.
- 4.3.6.1.1 <u>Modification of Exclusion Zone.</u> The Lessee may use the field-verification method described in 4.3.6.1.2 to modify the exclusion zone in 4.3.6.1 for specific HRG survey equipment being utilized. Any new exclusion zone radius must be based on the most conservative measurement (i.e., the largest safety zone configuration) of the 160 dB zone. This modified zone must be used for all subsequent use of field-verified equipment and may be periodically reevaluated based on the regular sound monitoring described in 4.3.6.1.2. The Lessee must obtain Lessor approval of any new exclusion zone before it may be implemented.

- 4.3.6.1.2 Field Verification of Exclusion Zone. If the Lessee wishes to modify the exclusion zone as described in 4.3.6.1.1, the Lessee must conduct field verification of the exclusion zone for specific HRG survey equipment. The results of the sound measurements from the survey equipment must be used to establish a new exclusion zone which may be greater than or less than the 500-meter default exclusion zone depending on the results of the field tests. The Lessee must take acoustic measurements at two reference locations. The first location must be at a distance of 500 meters from the sound source and the second location must be as close to the sound source as technically feasible. Sound measurements must be taken at the reference locations at two depths (i.e., a depth at mid-water and a depth at approximately 1 meter above the seafloor). Sound pressure levels must be measured and reported in the field in dB re 1  $\mu$ Pa rms (impulse). An infrared range finder may be used to determine distance from the sound source to the reference location.
- 4.3.6.2 <u>Monitoring Requirements</u>. The Lessee must ensure compliance with the monitoring requirements provided in 4.3.6.2.1 through 4.3.6.2.3:
- 4.3.6.2.1 If a marine mammal or sea turtle is observed, the observer must note and monitor the position, including the position of the vessel in latitude and longitude, and relative bearing and estimated distance to the animal, until the animal dives or moves out of visual range of the observer. The protected-species observer must continue to observe for additional animals that may surface in the area, as often there are numerous animals that may surface at varying time intervals.
- 4.3.6.2.2 At any time a listed marine mammal or sea turtle is observed within the exclusion zone whether due to the listed marine mammal or sea turtle's movement, the vessel's movement, or because the listed marine mammal or sea turtle surfaced inside the exclusion zone, the observer will call for the immediate shut-down of the HRG survey operation. The vessel operator must comply immediately with such a call by the observer. Any disagreement or discussion may occur only after shut-down.

- 4.3.6.2.3 When no marine mammals or sea turtles are sighted for at least a 60 minute period, ramp-up of the sound source may begin (see 4.3.6.3). Ramp-up must not begin unless conditions allow the sea surface to be visually inspected for marine mammals and sea turtles for 60 minutes prior to commencement of ramp-up. Any shut-down due to a marine mammal or sea turtle(s) sighting within the exclusion zone must be followed by a 60 minute all-clear period and then a rampup. Any shut-down for other reasons, including, but not limited to, mechanical or electronic failure, resulting in the cessation of the sound source for a period greater than 20 minutes, must also be followed by ramp-up procedures. In recognition of occasional, short periods of the cessation of survey equipment for a variety of reasons, periods of silence not exceeding 20 minutes in duration will not require ramp-up for the resumption of HRG-survey operations if: (1) visual monitoring of the exclusion zone is continued diligently throughout the silent period; and (2) no marine mammals or sea turtles are observed in the exclusion zone. If marine mammals or sea turtles are observed in the exclusion zone during the short silent period, resumption of HRG-survey operations must be preceded by 60 minute all-clear period followed by a ramp-up.
- 4.3.6.3 <u>Implementation of Ramp-Up</u>. A "ramp-up" is required at the beginning of each HRG survey (if technologically feasible) in order to allow marine mammals and sea turtles to vacate the area prior to the commencement of activities. Unless otherwise authorized by Lessor under 4.3.1, HRG surveys must not commence (i.e., ramp-up) at night time or when visual observation of the exclusion zone is impaired. Ramp-up must begin with the power of the smallest acoustic equipment for the survey at its lowest power output. The power output must be gradually turned up and other acoustic sources must be added in a way such that the source level will increase in steps not exceeding 6 dB per 5-minute period.
- 4.3.6.4 <u>Compliance with Equipment Noise Standards</u>. All HRG survey equipment used by the Lessee must comply with applicable equipment noise standards of the U.S. Environmental Protection Agency (EPA), unless directed otherwise by the Lessor. All HRG survey equipment, even if modified from the original, must have noisecontrol devices no less effective than those provided on the original equipment.
- 4.3.7 <u>Geotechnical (Sub-bottom) Sampling</u>. Stipulations specific to geotechnical sampling conducted in support of plan (i.e., SAP and/or COP) submittal are provided in 4.3.7.1 through 4.3.7.2.
- 4.3.7.1 <u>Establishment of Exclusion Zone</u>. Except as provided in 4.3.7.1.1, the Lessee must ensure a 200-meter radius exclusion zone for marine mammals and sea turtles around any vessel conducting sub-bottom sampling.

- 4.3.7.1.1 <u>Modification of Exclusion Zone</u>. The Lessee may use the field-verification method as described in 4.3.7.1.2 to modify the exclusion zone in 4.3.7.1 for specific geotechnical sampling equipment being utilized. Any new exclusion zone radius must be based on the most conservative measurement (i.e., the largest safety zone configuration) of the 160 dB zone. This modified zone must be used for all subsequent use of field-verified equipment and may be periodically reevaluated based on the regular sound monitoring described in 4.3.7.1.2. The Lessee must obtain Lessor approval of any new exclusion zone before it may be implemented.
- 4.3.7.1.2 Field Verification of Exclusion Zone. If the Lessee wishes to modify the exclusion zone as described in 4.3.7.1.1, the Lessee must conduct field verification of the exclusion zone for specific geotechnical sampling equipment. The results of the measurements from the equipment must be used to establish a new exclusion zone, which may be greater than or less than the 200-meter default exclusion zone depending on the results of the field tests. The Lessee must take acoustic measurements at two reference locations. The first location must be at a distance of 200 meters from the sound source and the second location must be taken at the reference locations at two depths (i.e., a depth at mid-water and a depth at approximately 1 meter above the seafloor). Sound pressure levels must be measured and reported in the field in dB re 1  $\mu$ Pa rms (impulse). An infrared range finder may be used to determine distance from the sound source to the reference location.
- 4.3.7.2 <u>Visual Monitoring of Exclusion Zone</u>. The Lessee must ensure that the exclusion zone around the vessel is monitored using the protocol for HRG survey work detailed in 4.3.6.2, absent the ramp-up procedures.

## 4.4 Benthic Habitat

4.4.1 <u>Fishing Grounds/Fish Habitat</u>. The Lessee must survey, collecting physical and biological survey data, the fishing grounds/fish habitat known as the "Old Grounds", "Mussel Bed", "Inside Mud Hole", "Middle Mud Hole", and "Outer Mud Hole."

## 4.5 Protected-Species Reporting Requirements

The Lessee must ensure compliance with the following reporting requirements for site characterization activities performed in support of plan (i.e., SAP and/or COP) submittal and must use the contact information provided as an Enclosure to this lease, or updated contact information as provided by the Lessor, to fulfill these requirements:

- 4.5.1 <u>Reporting Injured or Dead Protected Species</u>. The Lessee must ensure that sightings of any injured or dead protected species (e.g., marine mammals or sea turtles) are reported to the NMFS Northeast Region's Stranding Hotline (800-900-3622 or current) within 24 hours of sighting, regardless of whether the injury or death is caused by a vessel. In addition, if the injury or death was caused by a collision with a project-related vessel, the Lessee must ensure that the Lessor is notified of the strike within 24 hours. The notification of such strike must include the date and location (latitude/longitude) of the strike, the name of the vessel involved, and the species identification or a description of the animal, if possible. If the Lessee's activity is responsible for the injury or death, the Lessee must ensure that the vessel assist in any salvage effort as requested by NMFS.
- 4.5.2 <u>Reporting Observed Impacts to Protected Species</u>. The observer must report any observations concerning impacts on Endangered Species Act listed marine mammals or sea turtles to the Lessor and NMFS within 48 hours. Any observed Takes of listed marine mammals or sea turtles resulting in injury or mortality must be reported within 24 hours to the Lessor and NMFS.
- 4.5.3 <u>Report of Activities and Observations</u>. The Lessee must provide the Lessor and NMFS with a report within ninety (90) calendar days following the commencement of HRG and/or geotechnical sampling activities that includes a summary of the survey activities and an estimate of the number of listed marine mammals and sea turtles observed or Taken during these survey activities.
- 4.5.4 <u>Report Information</u>. Data on all protected-species observations must be recorded based on standard marine mammal observer collection data by the protected-species observer. This information must include: dates, times, and locations of survey operations; time of observation, location and weather; details of marine mammal sightings (e.g., species, numbers, behavior); and details of any observed Taking (e.g., behavioral disturbances or injury/mortality).

## **5** COORDINATION

5.1 <u>Notification</u>. The Lessor will endeavor to notify the Lessee of any activity that the Lessor authorizes or funds that the Lessor has determined may affect the activities of the Lessee within the lease area.

## Appendix A

## Lease Number OCS-A 0482

## HIGH RESOLUTION GEOPHYSICAL SURVEYS & ANALYSIS FOR THE IDENTIFICATION OR REPORTING OF ARCHAEOLOGICAL RESOURCES

The Lessee must perform surveys for the identification of archaeological resources in support of plan (i.e., Site Assessment Plan [SAP] and/or Construction and Operations Plan [COP]) submittal as described below. Surveys for the identification of archaeological resources performed in support of plan submittal are hereinafter referred to as "archaeological surveys."

The Lessee must prepare an archaeological-resource assessment report, which presents the results of the archaeological surveys, in accordance with the reporting requirements described in this Appendix. The Lessee must submit an archaeologicalresource assessment report to the Lessor with any plan required to be submitted by the Lessee for activities associated with this lease.

#### I. Navigation

The Lessee must use a state-of-the-art navigation system that can continuously determine the surface position of each survey vessel. The Lessee must ensure that the precision of the navigation system is  $\pm 1$  meter (m). The Lessee must ensure that equipment position is logged digitally at least every 12.5 m along the vessel track and annotated on all records at intervals no greater than 150 m. The Lessee must show position on the final shot point chart at intervals no greater than 150 m.

#### II. Survey Patterns

#### A. Area Surveys

The Lessee must ensure that archaeological surveys cover the vertical and horizontal extent of the area of the seafloor that the Lessee proposes to physically disturb. The area of physical disturbances includes, but is not limited to, the area within which construction vessel or work-barge anchors may be placed.

The Lessee must ensure that the archaeological surveys are run along parallel primary lines spaced at a maximum of 30 m. The Lessee must ensure that cross-tie lines are run perpendicular to the primary lines spaced at a maximum of 900 m. A minimum of at least three equidistant tie-lines must be surveyed; this may mean in some instances that tighter line spacing is necessary for the tie-lines.

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#### **B.** Linear Surveys

Where the Lessee proposes to install subsea cables in areas not already covered by an area survey described above, the Lessee must ensure that the survey pattern consists of a line run along the proposed cable route (centerline), and a minimum of two offset parallel lines on either side of the centerline, located at a maximum of 30 m from the centerline. This equals no fewer than five parallel survey tracts. The Lessee must ensure that the number of offset parallel lines is sufficient to provide coverage of the entire area that could be physically disturbed by the cable-laying activities. The area of physical disturbances includes, but is not limited to, the area where cable lay barge anchors will be placed, plus a buffer of 50 m. The Lessee must ensure that

## III. Data Acquisition Instrumentation

The Lessee must ensure that the HRG instrumentation used during the archaeological surveys is state-of-the-art in technological development and is deployed in a manner that minimizes interference among other instrumentation systems. The Lessee must ensure that all data recorders are interfaced with the navigation system of the vessel to ensure proper integration of data collection and navigation system. The Lessee must ensure that all instrumentation is adequately tuned and that all recorded data are readable, accurate, and properly annotated.

A. Magnetometer

The Lessee must use a proton precession, overhauser, or Cesium total field magnetometer to detect ferrous and other magnetically susceptible metals. The Lessee must tow the magnetometer sensor as near as possible to the seafloor, but no more than 6 m above the seafloor. The Lessee must tow the magnetometer sensor in a fashion that minimizes interference from the vessel hull and any other survey instruments.

The Lessee must ensure that a depth sensor is attached to the magnetometer sensor and annotate each survey line with "tow sensor height off seafloor" and with the time that each survey line was started and ended. The Lessee must ensure that magnetometer sensitivity is one gamma (y) or one nano-Tesla (nT) or less, and that the data sampling interval does not exceed one (1) second. The Lessee must ensure that the background noise level does not exceed a total of 3 gammas peak to peak.

The Lessee must ensure that data is recorded on a digital medium in such a way that they can be linked electronically to the positioning data. The Lessee must ensure that the recording scales are set no higher than 1,000-gamma and 100-gamma full scale, respectively. The Lessee must ensure that shot points and recorder speed are annotated.

## B. Dual Channel Sidescan Sonar

The Lessee must use a dual-channel, dual-frequency, side-scan sonar system to provide continuous planimetric images of the seafloor. This side scan sonar system selected must operate in the 300- to 500-kHz range or greater. The Lessee must ensure that the number and orientation of survey lines, line spacing, and display range selected will result in the collection of data providing overlapping sonar coverage of the survey area (including coverage of the nadir below the towfish on adjacent lines). The Lessee must ensure that the side-scan sonar sensor is towed above the seafloor at a distance that is 10 to 20 percent of the range of the instrument (see table below for appropriate coverage areas).

The Lessee must ensure that the side-scan sonar data is displayed live on a graphic recorder capable of adjusting the data for slant range effects and variable speed along line to give a true plan view of the seabed conditions as the survey progresses.

The Lessee must record the data digitally to allow signal processing to improve data quality further and allow export to a workstation for integrated interpretation and mapping of the data. For all archaeological surveys, the Lessee must image-process and export the recorded sonar data in mosaic form. The Lessee must export such mosaics as a geo-referenced digital model of the seabed.

| Height Above Seafloor | Range at 10% of Fish Altitude | Range at 20% of Fish Altitude |  |
|-----------------------|-------------------------------|-------------------------------|--|
| 5 m                   | 50 m/channel                  | 25 m/channel                  |  |
| 10 m                  | 100 m/channel                 | 50 m/channel                  |  |
| 15 m                  | 150 m/channel                 | 75 m/channel                  |  |
| 20 m                  | 200 m/channel                 | 100 m/channel                 |  |

#### **Appropriate Sidescan Sonar Coverage Areas**

#### C. Sub-bottom Profiler

The Lessee must use a high-frequency sub-bottom acoustic profiler operating within the 1.5 to 4.5 kHz bandwidth to provide continuous and very high-resolution information of near-surface geological features within the uppermost 15 m of sediment. The Lessee must run the sub-bottom profiler system to provide penetration that exceeds the depth of the proposed seabed disturbance. The Lessee must ensure that the sub-bottom profiler system is capable of achieving a resolution of vertical bed separation of at least one foot in the uppermost 15 m below the mudline. The Lessee must record the data digitally to allow signal processing to improve data quality further and allow export to a workstation for integrated interpretation and mapping of the data. The Lessee must acquire sufficient geological information to map and characterize any existing relict paleolandforms that might be present in the survey area and possibly disturbed by lease or plan-related activities.

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## D. Echo Sounder

The Lessee must employ either a hull mounted, high-frequency, narrow beam hydrographic echo sounder or multibeam bathymetry to obtain bathymetric data. The Lessee must ensure that the data is displayed on a graphic recorder and is logged digitally and continuously. The Lessee must ensure that the echo sounder records with a sweep appropriate to the range of water depths expected in the survey area. The Lessee must use a heave compensator in conjunction with the echo sounder system to remove the effects of vessel movement from the data.

The Lessee must ensure that water column sound velocity is calibrated at the start and end of the survey with a conductivity temperature depth (CTD) sensor or velocity probe capable of recording in the maximum water depth expected in the survey area.

E. Additional Investigations

During the Lessee's pre-survey meeting with the Lessor (see Addendum "C", 2.2.2), the Lessee must present to the Lessor any proposed additional or alternate instrumentation and methods other than those described above, such as underwater imaging, diver investigation, remotely operated vehicles, coring, and additional survey lines.

IV. Contents of Archaeological Resources Assessment Report

The archaeological resources assessment report (hereinafter "report") must be a stand-alone report that represents an evaluation and synthesis of the data gathered during the archaeological survey. The report and analyses presented therein must be prepared by a Qualified Marine Archaeologist. Any changes to the plans the Lessee submits for activities on its lease and any additional information required by the Lessor must be incorporated into a revised report.

The Lessee must submit one paper copy and one electronic version of report, including all large format map layouts. The electronic version of the report must be submitted on a compact disc (CD), digital video disc (DVD), or Windows-compatible hard drive in PDF format.

The Lessee must ensure that the report includes the following components, preferably organized as follows:

A. Front Matter

This section of the report includes the cover, the certification, executive summary, table of contents, and lists. Lists must include lists of tables, figures, and appendices.

Per Addendum "C", 4.2.4, the Lessee and the Qualified Marine Archaeologist who

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prepared the report must certify that geotechnical sampling activities did not impact potential historic properties identified in the archaeological surveys without the Lessor's prior approval. This certification must be a single page, signed by the Lessee and the Qualified Marine Archaeologist, which states that the Lessee's activities did not impact any potential historic properties, as defined by the Qualified Marine Archaeologist, including paleolandscapes, without the Lessor's prior approval.

In the event that the geotechnical sampling activities did impact potential historic properties identified in the archaeological surveys without the Lessor's prior approval, the Lessee and the Qualified Marine Archaeologist who prepared the report must instead provide a statement documenting the extent of these impacts.

**B.** Introduction

This section of the report must describe the proposed activities considered under the lease plan(s) (i.e., SAP and/or COP), including a description of the surveyed area (OCS lease number(s), block number(s), and lease area(s) and minimum and maximum water depths); the exact number, location(s), dimensions, and other salient aspects of the technology to be deployed under the plan; and associated activities that would be involved. This section must also introduce the findings of the report, including how many potential historic properties were identified and how many properties may or may not be impacted by the activities in the proposed plan. The narrative must be accompanied by maps and plan drawings, as appropriate, illustrating these points. This includes at least one reproducible (photocopy) geographic area map (generally page size =  $8.5^{"} \times 11^{"}$  and/or  $11^{"} \times 17^{"}$  fold-out) showing proposed facility and/or transmission cable route relative to nearby geographic features, if such is proposed in the plan.

C. Cultural and Environmental Context

This section of the report must include an analysis of the potential for pre-contact sites and historic shipwrecks within the area. For pre-contact sites, the context must include:

- 1. A review of current literature on late Pleistocene and Holocene geology, paleogeography, and sea level change in the area (if relevant); marine and coastal prehistory (if relevant); and previous archaeological resource reports pertaining to the area, if available.
- 2. A discussion of relict geomorphic features and their archaeological potential, which includes the type, age, and association of the mapped features; the acoustic characteristics of channels and their fill material; evidence for preservation or erosion of channel margins; evidence for more than one generation of fluvial downcutting; and the relative sea level curves used in the assessment. Any geological and sediment data collected during coring or boring activities associated with developing the lease and any available data

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collected during previous geological or geotechnical surveys within the area must be incorporated into the discussion and the potential for the survival of submerged and buried pre-contact sites must be assessed.

3. A discussion, based on the capabilities of current technology in relation to the thickness and composition of sediments overlying the area of a potential site, of the potential for identification and evaluation of buried pre-contact sites.

For historic shipwrecks, the context includes:

- 1. A current review of existing information regarding reported shipwreck locations within 1 kilometer (km) of the leasehold and within 1 km of any bottom disturbing activities proposed outside of the leasehold (e.g., cable routes).
- 2. A discussion of the potential for shipwreck preservation in terms of bottom sediment type and thickness, and the effects of past and present marine processes in the survey area.
- 3. A discussion of the capabilities of current technology to identify historic shipwrecks in relation to the water depth, probable thickness and composition of sediments overlying the potential shipwreck location, and the preservation potential.
- D. Methodology

This section of the report must discuss the methods used to obtain the survey data, the exact equipment used, the dates the surveys were conducted, the sea state during the surveys, and other salient features of the surveys. Representative data samples from each survey instrument in the vicinity of proposed seafloor/bottom-disturbance must be included to demonstrate the quality of the data collected. Additionally, a personnel list noting their functional responsibilities must be included, comprised of a list of the individuals involved in survey planning, fieldwork, and report preparation, and a brief description of their duties. Technical specifications of the survey equipment must include:

- A brief description of survey instrumentation including scale and sensitivity settings, sampling rates, and tow heights off the seafloor for the magnetometer and side scan sonar sensors.
- A description or diagram of the survey vessels, including their sizes, sensor configurations, navigation antenna locations, cable lengths, and distances from sensors to navigation antennas.
- Vessel speeds, course changes, sea states and weather conditions.

- A complete copy of the daily survey operations logs (for the entire duration of the survey(s)).
- A description of survey procedures, including a statement of survey and data quality, a comparison of data from survey line crossings, and a discussion of any problems that may have affected the ability of the Qualified Marine Archaeologist to identify and analyze potential archaeological resources in the surveyed area.
- E. Results

This section of the report must provide discussion narratives and maps of the results of the survey. The Lessee must present potential archaeological resources, as determined by the Qualified Marine Archaeologist, with locations presented in latitude and longitude (decimal degrees) and Universal Transverse Mercator projection and grid system (UTM) coordinates. It must include the following features, at a minimum:

- 1. A summary of field operations, including unusual incidents.
- 2. A table of the unidentified magnetic anomalies with the OCS block, Shot Point, and survey line location (corrected for sensor offset); gamma intensity; lateral extent (duration); whether the anomaly is characterized by a dipolar, monopolar, or complex signature; the magnetometer sensor tow height off seafloor; the appropriate decimal degree coordinates of the center of each unidentified anomaly; and the recommended avoidance zone. The following table is an example, including sample information, for listing unidentified magnetic anomalies.

| Anomaly<br>Number | Area/<br>Block | Line<br>No. | Shot<br>Pt, | Tow<br>Height<br>(m) | Signature | Intensity<br>(gammas) | Duration<br>(m) | NAD 83<br>Coordinates<br>(in decimal<br>degrees) | Minimum<br>Avoidance<br>Distance<br>(m) |
|-------------------|----------------|-------------|-------------|----------------------|-----------|-----------------------|-----------------|--|---|
| 1                 | MP 100         | 002         | 11.4        | 18                   | Dipole    | 15                    | 75              |  | 150                                     |

3. A table of side-scan sonar contacts with the lease block, SP, and survey line location (corrected for sensor offset); size; shape; height of protrusion above the seafloor; the appropriate decimal degree coordinates; and recommended avoidance distance, as determined by the Qualified Marine Archaeologist, of each. The following table is an example, including sample information, for listing side scan sonar contacts.

| Anomaly<br>Number | Area/<br>Block | Magnetometer<br>Association              | Dimensions<br>LxWxH (m) | Shape  | NAD 83<br>Coordinates<br>(in decimal<br>degrees) | Minimum<br>Avoidance<br>Distance<br>(m) |
|-------------------|----------------|--|-------------------------|--------|--|---|
| 1                 | MP<br>100      | Mag. Anomaly<br>1, Line 0020,<br>SP 11.4 | 100 x 50 x 5            | Linear |  | 225                                     |

- 4. A discussion of any magnetic anomalies and side scan sonar contacts of unknown source in terms of their potential as historic shipwrecks (include an analysis of reported nearby wrecks and their potential association with these contacts on the basis of vessel size and anomaly characterization);
- 5. A discussion of any correlation between magnetic anomalies or side scan sonar contacts and known or probable or possible sources;
- 6. For any archaeological resources that can be positively identified from remote-sensing data, an analysis of their possible significance and recommendations for any further research or special precautions that may be necessary.
- 7. A discussion of the data and results from any additional investigations that the Lessor may have directed.

If potential archaeological resources were identified, the Lessee must include the following data samples in the report:

- 1. A sample of sub-bottom profiler data for each type of relict landform identified. When more than one generation of fluvial channeling is evident, include a sample that depicts each generation. Each sample must be readable and must include horizontal and vertical scales. If any interpretive highlighting or annotation of the sample data is provided, it must be provided either a separate overlay or a copy of the sample data. The original survey data must not be highlighted.
- 2. Copies of all side scan sonar data, where contacts representing unidentified objects are recorded. The copies must be readable and must include

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horizontal and vertical scales. If any interpretive highlighting or annotation of the data is provided, it must be provided as a separate overlay or additional image. The original survey data must not be highlighted. A digital copy of computer-generated mosaics as a geo-referenced Tagged Image Format (TIFF) file must be included.

The results section of the report also must include a paleolandscape reconstruction using marine geophysical, geological, and paleoenvironmental data.

- 1. The results section must include a reconstruction of sea-level history based on a computer-modeled simulation of relative sea level (RSL) changes that predicts the depth of submerged shorelines at specific time intervals. This simulation, commonly referred to as glacio-isostatic adjustment (GIA) model, must consist of a numerical estimate of the earth's response to ice loading during the last glacial cycle.
- 2. The results section must include RSL simulations to digitally shade or contour a bathymetric surface of the seabed to produce paleogeographic maps charting the evolution of the coast. This will predict former shorelines and exclude areas that were underwater even during lowstands. The results section must scrutinize exposed areas for geomorphic features relating to the past landscape that, in favorable circumstances, may have survived transgression and are preserved on the seabed. Examples include fluvial paleochannels, shore platforms, spits, and barriers.
- 3. The results section must include an analysis of the sub-bottom profiler data collected to determine if elements of the past landscape are buried beneath modern seabed sediments. Buried geomorphic features must be identified, including freshwater lake basins, lagoons, shoreline terraces, in-filled paleochannels, etc, if possible. The results section must also identify buried layers that may require further sampling to conclusively determine their nature.
- 4. The results section must include analyses of core samples collected during geotechnical sub-bottom sampling activities, if such samples were collected. Analyses may include accounts of visual observance of the presence of intact paleosols, subsampling of organics for paleoenvironmental analysis, temporal dating for building transgression chronologies, or other applicable analyses.
- 5. The results section must integrate data referred to in numerals 1 (one) to 4 (four) immediately above into an evolutionary model of the submerged landscape of the survey area. Buried layers identified on sub-bottom profiles on the basis of their acoustic character and/or sampling must be digitally traced, geo-referenced, and linked to produce a continuous landsurface,

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indicating limitations based on data gaps. The model must be depicted in one or more map-based figures with accompanying descriptive narrative text.

6. The results section must map archaeological potential based on landscape attributes that were favored by past humans, given what is known from terrestrial sites; and landscape settings that have the greatest potential for preservation of archaeological deposits, given what is known of seabed geology. The archaeological potential must be depicted in one or more mapbased figures with accompanying descriptive narrative text.

F. Summary and Conclusions

This section of the report must include a summary of conclusions and recommendations supported by the archaeological resource field survey data and archaeological analyses, including a discussion of known or potential archaeological resources and recommendations for avoidance or for further archaeological investigations, citing the relevant language as found in the National Historic Preservation Act (NHPA) (1966, as amended).

#### G. Back Matter

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This section of the report must include bibliographic references, appendices, and metadata discussions, as appropriate.

V. Formatting Requirements for Digital Data and Maps

A. Maps

The Lessee must annotate all maps with linear bar-scales (feet and meters), geographic and plane coordinates (latitude and longitude, UTM), lease boundaries, lease numbers, geologic/geotechnical sampling locations, proposed facility site(s) and cable transmission corridors. Large-scale map data must be in a format compatible with the BOEM Geographic Information System (GIS) in current use.

The Lessee must submit, with its report, the following set of maps at a standard scale (generally 1:12,000) and oriented to true north:

- 1. Archaeological resource map that includes the following:
  - Navigation Post-Plot Map of the surveyed area, showing survey lines and directions, and navigational SPs at intervals of no more than 150 m.
  - The location of the proposed project activities in addition to illustration of any areas of the seafloor that could be physically disturbed by any of the activities proposed, including anchor sweep radius.

- The location of soil borings, cone penetrometer (CPT), and vibracores.
- All magnetic anomalies and seafloor side scan sonar contacts of unknown source (for magnetic anomalies use map symbol: ▲; for side scan sonar contacts use map symbol: ☑). The Lessee must identify these magnetic anomalies and side scan sonar contacts using only the aforementioned symbols and a unique number keyed to the listings in the unidentified magnetic anomaly and side scan sonar tables in the text. In congested areas with numerous unidentified magnetic anomalies, the Lessee may use a map(s) at a scale of 1:6,000 to depict the anomalies. If the Lessee does use a map(s) at a scale of 1:6,000, the Lessee must tie this congested area map(s) into the 1:12,000 survey area map. The Lessee must plot all recommended potential archaeological avoidance areas on the survey area map.
- Bathymetry at contour intervals of 0.3 m to 15 m depending on seafloor morphology.
- The horizontal and vertical extent of all relict geomorphic features having potential for associated pre-contact sites.
- 2. Magnetic Contour Map (processed and corrected for diurnal variation and ambient magnetic field).
- 3. Shallow Isopach Map showing thickness of unconsolidated Holocene/late-Pleistocene sediments (in meters).
- 4. Side Scan Sonar Mosaic

B. Magnetic Anomalies Data

The Lessee must submit with its report:

- A list of all magnetic anomalies in a DBF table.
- latitude/longitude to six decimal places.
- additional fields to the table as needed (see sample table above).
- A report of total percentage of survey area flown above 6 m.
- C. Side Scan Sonar Contacts

The Lessee must submit with its report:

• A list of all side scan sonar contacts of unknown source in a DBF table.

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- latitude/longitude to six decimal places of all side scan sonar contacts.
- additional fields to the table as needed (see sample table above).
- A georeferenced TIFF file of the side scan sonar mosaic.
- D. Geotechnical Data/Analysis

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The Lessee must provide with its report (in tabular format) latitude/longitude to six decimal places for all soil borings, cone penetrometers, and/or vibracores.

#### **ADDENDUM "D"**

#### **PROJECT EASEMENT**

#### Lease Number OCS-A 0482

This section includes a description of the Project Easement(s), if any, associated with this lease, and the financial terms associated with it. This section will be updated as necessary.

#### I. <u>Rent</u>

The Lessee must begin submitting rent payments for any project easement associated with this lease commencing on the date that Lessor approves, or approves with modifications, the Construction and Operations Plan (or modification) describing the project easement. Annual rent for a project easement 200 feet wide, centered on the transmission cable, is \$70.00 per statute mile. For any additional acreage required, the Lessee must also pay the greater of \$5.00 per acre per year or \$450.00 per year.

## **ADDENDUM "E"**

## **RENT SCHEDULE**

## Lease Number OCS-A 0482

This section includes a description of the schedule for rent payments that will be determined after the Construction and Operations Plan has been approved or approved with modifications. This section will be updated as necessary.

Unless otherwise authorized by the Lessor in accordance with the applicable regulations in 30 CFR Part 585, the Lessee must make rent payments as described below.

#### Lease Number OCS-A 0482

## CONTACT INFORMATION FOR REPORTING REQUIREMENTS

• The following contact information must be used for the reporting and coordination requirements specified in Addendum C, Stipulation 3:

United States Fleet Forces (USFF) N46 1562 Mitscher Ave, Suite 250 Norfolk, VA 23551 (757) 836-6206

• The following contact information must be used for the reporting requirements in Addendum C, Stipulations 4.2.7 and 4.3.2, and Appendix A:

Bureau of Ocean Energy Management Environment Branch for Renewable Energy Phone: 703-787-1340 Email: renewable\_reporting@boem.gov

• The following contact information must be used for the reporting requirements in Addendum C, Stipulation 4.5:

#### **Reporting Injured or Dead Protected Species**

NOAA Fisheries Northeast Region's Stranding Hotline 800-900-3622

#### All other reporting requirements in Stipulation 4.5

Bureau of Ocean Energy Management Environment Branch for Renewable Energy Phone: 703-787-1340 Email: renewable\_reporting@boem.gov

National Marine Fisheries Service Northeast Regional Office, Protected Resources Division Section 7 Incidental Take Coordinator Phone: 978-281-9328 Email: incidental.take@noaa.gov

• The following web site provides information regarding active Dynamic Management Areas (DMAs) for Reducing Ship Strikes to North Atlantic Right Whales, referred to in Addendum C, Stipulation 4.1:

http://www.nmfs.noaa.gov/pr/shipstrike/



# United States Department of the Interior

BURBAU OF OCEAN ENERGY MANAGEMENT WASHINGTON, DC 20240-0001

OCT 2 4 2012

Mr. Lee Davis President Bluewater Wind Delaware LLC 211 Carnegle Center Princeton, New Jersey 08540

Dear Mr. Davis:

The Bureau of Ocean Energy Management (BOEM) is pleased to offer commercial lease OCS-A 0482 (three copies enclosed) to Bluewater Wind Delaware LLC. The lease area comprises 96,430 acres lying within the Delaware Wind Energy Area (WEA).

As a condition of issuing this commercial lease, BOEM requires that Bluewater Wind Delaware LLC relinquish its existing Interim Policy lease OCS-A 0474, which is within the proposed commercial lease area. This condition was conveyed in our initial lease offer dated July 18, 2012. Per Section 17 of lease OCS-A 0474, Bluewater Wind Delaware LLC can surrender this lease by filing with BOEM a written relinquishment that will be effective on the date of filing. Please include this written relinquishment with your completed and signed commercial lease copies.

Within ten (10) business days of receipt of these lease copies, you must:

- Execute and return the three copies of the commercial lease, along with a written relinquishment of Interim Policy lease OCS-A 0474. Your relinquishment should contain all of the required information identified in 30 CFR 585.435(b). Please include lease and operations contact information on Addendum A of the lease instrument.
- 2) Provide a surety bond or other form of BORM-approved financial assurance in the amount of \$389,290 to guarantee compliance with all terms and conditions of the lease.

After confirming compliance with the above requirements, BOEM will execute the lease on behalf of the United States and send you one fully executed copy. Your lease will become effective on the first day of the month following the date on which the lease is signed by both parties, unless you request, and we approve, an effective date of the first day of the month in which it is signed by BOEM. Please note that you will be required to pay the first year's rent by January 16, 2013, as stated in Addendum "B" of the lease.

Because Bluewater Wind Delaware LLC paid its acquisition fee on December 9, 2010 in the amount of \$25,887.00 for 103,548 acres – which was a larger area than the acreage

offered in this lease – the Office of Natural Resources Revenue will apply the overage to your first year's rent. The acquisition fee for this lease is \$24,107.50; therefore the overage paid was \$1,779.50. Because the first year's rent due is in the amount of \$289,290.00, Bluewater Wind Delaware LLC will owe an outstanding balance of \$287,510.50 by January 16, 2013.

Please send all hardcopy materials to Ms. Gina Goodwin, Land Law Examiner, Office of Renewable Energy Programs, 381 Elden Street, HM-1328, Herndon, Virginia, 20170. If you have any questions, Ms. Gina Goodwin may be reached at (703) 787-1341 or at Gina.Goodwin@boem.gov.

Sincerely,

agh K. Françon

Maureen A. Bornholdt Program Manager Office of Renewable Energy Programs

Enclosures