

INFORMATION SHEET

PRESIDING: Chair Mitchell, and Commissioners Brown-Bland, Clodfelter, Duffley, Hughes, McKissick, and Kemerait

PLACE: Dobbs Building, Raleigh, NC

DATE: Wednesday, September 28, 2022

TIME: 1:32 p.m. – 4:59 p.m.

DOCKET NO(s): E-100, Sub 179

COMPANY: Duke Energy Progress, LLC, and Duke Energy Carolinas, LLC

DESCRIPTION: 2022 Biennial Integrated Resource Plans and Carbon Plan

VOLUME NUMBER: 29

APPEARANCES

See Attached

WITNESSES

See Attached

EXHIBITS

See Attached

CONFIDENTIAL COPIES OF TRANSCRIPTS AND EXHIBITS ORDERED BY:

REPORTED BY: Joann Bunze

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PLACE: Dobbs Building, Raleigh, North Carolina

DATE: Wednesday, September 28, 2022

TIME: 1:32 p.m. - 4:59 p.m.

DOCKET NO.: E-100, Sub 179

BEFORE: Chair Charlotte A. Mitchell, Presiding

Commissioner ToNola D. Brown-Bland

Commissioner Daniel G. Clodfelter

Commissioner Kimberly W. Duffley

Commissioner Jeffrey A. Hughes

Commissioner Floyd B. McKissick, Jr.

Commissioner Karen M. Kemerait

IN THE MATTER OF:

Duke Energy Progress, LLC, and

Duke Energy Carolinas, LLC,

2022 Biennial Integrated Resource Plans

and Carbon Plan

VOLUME: 29

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E X H I B I T S

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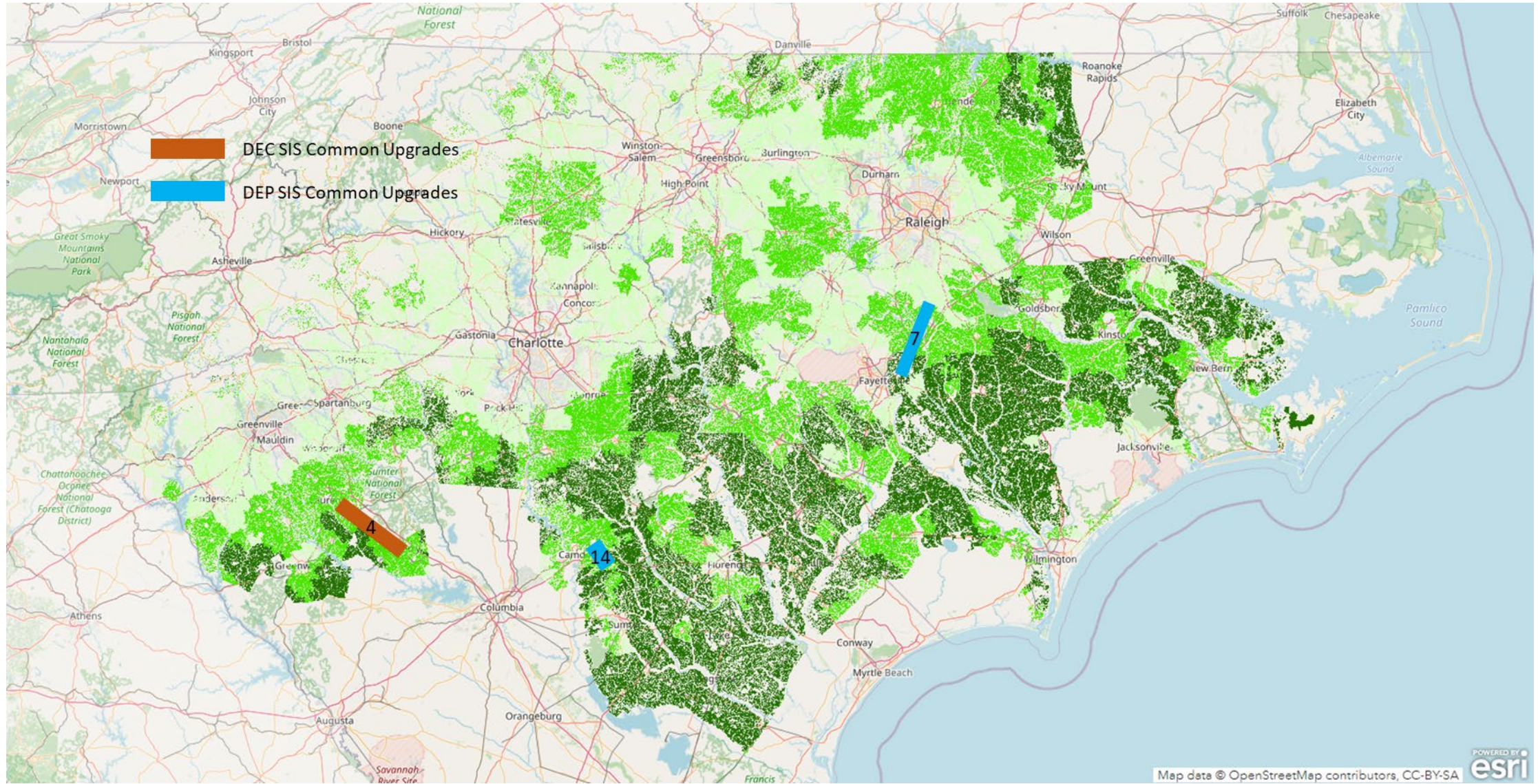
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**Transmission and Solar Procurement Panel Rebuttal Exhibit 1: Carbon Plan Execution
Plan Table 4-13**

Near-Term Actions (2022-2024)	
2022	<ul style="list-style-type: none"> • FERC filing to establish generation replacement queue process • Subject to Transmission Advisory Group stakeholder review and NCTPC approval, start public policy transmission projects included in Local Transmission Plan • Start preliminary routing, scoping, siting, right-of-way acquisition for OSW transmission projects with point of interconnection at New Bern Substation
2023-2024	<p>DEC</p> <ul style="list-style-type: none"> • Marshall Station (Units 1-4) - (Earliest planned retirement date Marshall 1,2 EOY 2028; Marshall 3,4 EOY 2032) <ul style="list-style-type: none"> • Determine feasibility for upgrading McGuire – Marshall 230kV lines by EOY 2028. Study replacement generation located at brownfield site • Belews Creek (Units 1-2) - (Earliest planned retirement date EOY 2035) <ul style="list-style-type: none"> • Transmission planning to evaluate transmission upgrades and replacement generation requirements to enable retirements by EOY 2035 <p>DEP</p> <ul style="list-style-type: none"> • Roxboro Station (Units 1-4) and Mayo (Unit 1) (Earliest planned retirement dates Roxboro 3,4 EOY 2027; Roxboro 1,2 EOY 2028; Mayo EOY 2028) Transmission planning to evaluate transmission upgrades and replacement generation requirements to enable retirements by earliest planned dates • For contingency purposes, transmission planning to evaluate transmission upgrades needed to site Roxboro/Mayo replacement generation in DEC service area
2023	<ul style="list-style-type: none"> • Request interconnection studies for needed MW levels of offshore wind being injected into New Bern Substation



Project #	Owner	Project	Acknowledge need for inclusion in the 2022 Local Plan	Continued evaluation for inclusion in post-2022 Local Transmission Plans
1	DEC	Lee 100 kV (Lee-Shady Grove)	X	
2	DEC	Piedmont 100 kV (Lee-Shady Grove)	X	
3	DEC	Newberry 115 kV (Bush River-DESC)	X	
4	DEC	Clinton 100 kV (Bush River-Laurens)	X	
5	DEP	Cape Fear Plant – West End 230kV Line	X	
6	DEP	Erwin – Fayetteville East 230kV Line	X	
7	DEP	Erwin – Fayetteville 115kV Line	X	
8	DEP	Fayetteville-Fayetteville Dupont 115kV Line –	X	
9	DEP	Rockingham – West End 230kV West Line		X
10	DEP	Milburnie 230kV Substation	X	
11	DEP	Erwin-Milburnie 230kV Line		X
12	DEP	Sutton Plant-Wallace 230kV Line		X
13	DEP	Weatherspoon-Marion 115kV Line	X	
14	DEP	Camden-Camden Dupont 115kV Line		X
15	DEP	Camden Junction-DPC Wateree 115kV Line	X	
16	DEP	Robinson Plant-Rockingham 115kV Line	X	
17	DEP	Robinson Plant-Rockingham 230kV Line	X	
18	DEP	Fayetteville-Fayetteville Dupont 115kV Line – 4.9 mile section	X	

Duke Energy Progress + Carolinas Cluster Generator Interconnection Queue**Solar Projects**

Data as of July 10, 2022

Source: <https://www.oasis.oati.com/cpl/><https://www.oasis.oati.com/duk/>

OPCO	State or FERC	Capacity (MWAC)	County	State	Transmission Line
DEP	FERC	275	Richmond	NC	LAURINBURG - RICHMOND 230KV
DEP	FERC	200	Marlboro	SC	BENNETTSVILLE SW STA - LAURINBURG 230KV - FLOR
DEP	FERC	200	Pender	NC	SUTTON PLANT - WALLACE 230KV
DEP	FERC	187	Wake	NC	CAPE FEAR PLANT - HARRIS PLANT 230KV SOUTH
DEC	FERC	176.3	Davie	NC	Marshall 230 kv
DEP	FERC	172.4	Jones	NC	JACKSONVILLE - NEW BERN 230KV
DEP	FERC	160	Wayne	NC	LEE SUB - WOMMACK 230KV SOUTH
DEP	FERC	152	Wake	NC	
DEP	FERC	120	Person	NC	ROXBORO PLANT - AEP EAST DANVILLE 230KV
DEP	FERC	111.59	Duplin	NC	CLINTON - MT OLIVE 230KV SUB 115KV
DEC	FERC	111	Forsyth	NC	
DEP	FERC	91.3	Lenoir	NC	JACKSONVILLE - WOMMACK 115KV
DEP	FERC	80	Franklin	NC	FRANKLINTON - SPRING HOPE SWITCHING STATION 115KV
DEP	FERC	79.99	Johnson	NC	SELMA - WAKE 230KV
DEP	FERC	76	Darlington	SC	
DEP	FERC	75	Marlboro	SC	BENNETTSVILLE SW STA - LAURINBURG 230KV - FLOR
DEC	FERC	70.7	Newberry	SC	Champion 100 kv
DEP	State	80	Wayne	NC	LEE SUBSTATION - MT OLIVE 230KV
DEP	State	80	Craven	NC	NEW BERN - WOMMACK 230KV NORTH
DEP	State	80	Person	NC	ROXBORO PLANT - AEP EAST DANVILLE 230KV
DEP	State	80	Onslow	NC	JACKSONVILLE - WALLACE 230KV
DEP	State	80	Hoke	NC	WEATHERSPOON PLANT - RAEFORD 230KV SUB 115KV
DEP	State	80	Scotland	NC	LAURINBURG - RAEFORD 230KV SUB 115KV
DEP	State	80	Scotland	NC	FAYETTEVILLE - ROCKINGHAM 230KV
DEP	State	80	Duplin	NC	CLINTON - MT OLIVE 230KV SUB 115KV
DEP	State	80	Duplin	NC	LEE SUB - WALLACE 230KV SUB 115KV - NEW BERN
DEP	State	80	Bladen	NC	CUMBERLAND - DELCO 230KV
DEP	State	80	Jones	NC	HAVELOCK - NEW BERN 230KV
DEP	State	80	Scotland	NC	BENNETTSVILLE SW STA - LAURINBURG 230KV - ABER
DEP	State	80	Bladen	NC	CUMBERLAND - WHITEVILLE 230KV
DEP	State	80	Wayne	NC	LEE SUB - WOMMACK 230KV SOUTH
DEP	State	80	Bladen	NC	CUMBERLAND - DELCO 230KV

DEC	State	80	Davidson	NC	High Point WH 100 kV
DEP	State	78.32	Nash	NC	PERSON - ROCKY MOUNT 230KV
DEP	State	75	Pender	NC	SUTTON PLANT - WALLACE 230KV
DEP	State	75	Granville	NC	HENDERSON - PERSON 230KV
DEP	State	75	Darlington	SC	ROBINSON PLANT - FLORENCE 230KV
DEP	State	75	Montgomery	NC	BISCOE - ROCKINGHAM 230KV
DEP	State	75	Marlboro	SC	BENNETTSVILLE SW STA - LAURINBURG 230KV - FLOR
DEP	State	75	Darlington	SC	ROBINSON PLANT - ROCKINGHAM 230KV - FLORENCE
DEP	State	75	Montgomery	NC	BLEWETT FALLS PLANT - TILLERY PLANT 115KV
DEP	State	75	Columbus	NC	MARION - WHITEVILLE 230KV - EASTERN
DEC	State	74.99	Anderson	SC	Refuge WH 100 kV
DEP	State	74.9	Cumberland	NC	ERWIN - FAYETTEVILLE EAST 230KV - RALEIGH
DEP	State	74.9	Lee	SC	ROBINSON PLANT - SUMTER 230KV
DEP	State	74.9	Darlington	SC	DARLINGTON COUNTY PLANT - BENNETTSVILLE SW STA 230KV
DEP	State	74.9	Darlington	SC	ROBINSON PLANT - ROCKINGHAM 230KV - FLORENCE
DEP	State	74.9	Chesterfield	SC	ROBINSON PLANT - ROCKINGHAM 230KV - FLORENCE
DEP	State	74.9	Darlington	SC	ROBINSON PLANT - FLORENCE 115KV
DEP	State	74.9	Darlington	SC	DOVESVILLE NUCOR 230KV TAP LINE
DEC	State	74.9	Greenwood	SC	Clark Hill 115 kV
DEC	State	74.9	Anderson	SC	Toxaway 100 kV
DEC	State	74.9	Greenwood	SC	Clark Hill 115 kV
DEP	State	73.91	Lenoir	NC	LEE SUB - WOMMACK 230KV NORTH
DEC	State	72	Greenwood	SC	Champion 100 kV
DEP	State	70	Robeson	NC	WEATHERSPOON PLANT - LAURINBURG 230KV
DEP	State	70	Darlington	SC	DARLINGTON COUNTY PLANT - FLORENCE 230KV LINE
DEP	State	66	Chesterfield	SC	DARLINGTON COUNTY PLANT - FLORENCE 230KV LINE
DEP	State	65	Richmond	NC	ROCKINGHAM - WEST END 230KV EAST
DEP	State	60	Darlington	SC	DARLINGTON COUNTY PLANT - BENNETTSVILLE SW STA 230KV
DEP	State	60	Columbus	NC	DELCO 230KV SUB - WHITEVILLE 230KV SUB 115KV
DEP	State	60	Lee	SC	ROBINSON PLANT - SUMTER 230KV
DEP	State	60	Marlboro	SC	BENNETTSVILLE SW STA - LAURINBURG 230KV - FLOR
DEC	State	58	Union	SC	Jordan 100 kV
DEC	State	54	Spartanburg	SC	Avon WH 100 kV
DEP	State	51.667	Johnston	NC	LEE SUB - SELMA 230KV
DEP	State	50	Kershaw	SC	CAMDEN JUNCTION - DPC WATEREE PLANT 115KV
DEC	State	50	Laurens	SC	Clinton 100 kV
DEP	State	48	Kershaw	SC	ROBINSON PLANT - CAMDEN JUNCTION 115KV
DEP	State	48	Chesterfield	SC	ROBINSON PLANT - ROCKINGHAM 115KV - FLORENCE

DEC	State	48	Newberry	SC	Champion 100 kV
DEC	State	45	Laurens	SC	Clinton 100 kV
DEC	State	30	Cherokee	SC	Thicketty 44 kV
DEC	State	20	Greenwood	SC	Florida 44 kV
DEC	State	20	Wilkes	NC	Ronda 44 kV

Average Project Size (MW)	
FERC projects	137.5 MW
State projects	68.3 MW
Overall	84.0 MW

**Potential HB 951-Compliant Portfolios
(based on DISIS 1 project size)**

Average project size (overall)	% of MW		
PPA projects: 7 @ 84 MW	588	MW	47%
UOT projects: 8 @ 84 MW	672	MW	53%
Total MW	1260		

Average project size (by category)	% of MW		
PPA projects: 9 @ 68 MW	614.8	MW	43%
UOT projects: 6 @ 137 MW	825.3	MW	57%
Total MW	1440.1		

Largest project size (by category)	% of MW		
PPA projects (top 10)	800	MW	44%
UOT projects (top 5)	1038.3	MW	56%
Total MW	1838.3		

§ 583.350

agreement. BOEM is under no obligation to extend or modify an agreement and cannot be held liable for the consequences of the expiration of an agreement. With the exception of paragraph (b) of this section, any such requests must be made at least 180 days before the term of the agreement expires. BOEM will respond to the request for modification within 30 days of receipt and request any necessary information and evaluations to comply with § 583.305. BOEM may approve the request, disapprove it, or approve it with modifications subject to the requirements of § 583.305.

(1) If BOEM approves a request to extend or modify an agreement, BOEM will draft an agreement modification for review by the parties to the agreement in the form of an amendment to the original agreement. The amendment will include:

- (i) The agreement number, as assigned by BOEM;
- (ii) The modification(s) agreed to;
- (iii) Any additional mitigation required; and
- (iv) The signatures of the parties to the agreement and BOEM.

(2) If BOEM disapproves a request to extend or modify an agreement, BOEM will inform the parties to the agreement of the reasons in writing. Parties to the agreement may ask the BOEM Director for reconsideration in accordance with § 583.125.

(b) By written request, for strictly minor modifications that do not change the substance of the project or the analyzed environmental effects of the project, including but not limited to, the change of a business address, the substitution of a different Federal, State or local government agency contact, or an extension of less than 30 days, parties to the agreement may memorialize the minor modification in a letter from BOEM to the parties indicating the request has been granted.

§ 583.350 When can an agreement be terminated?

(a) The Director will terminate any agreement issued under this part upon proof that it was obtained by fraud or misrepresentation, after notice and an opportunity to be heard has been afforded to the parties of the agreement.

30 CFR Ch. V (7-1-21 Edition)

(b) The Director may immediately suspend and subsequently terminate any agreement issued under this part when:

(1) There is noncompliance with the agreement, pursuant to § 583.330 (a); or

(2) It is necessary for reasons of national security or defense; or

(3) The Director determines that:

(i) Continued activity under the agreement would cause serious harm or damage to natural resources; life (including human and wildlife); property; the marine, coastal, or human environment; or sites, structures, or objects of historical or archaeological significance;

(ii) The threat of harm or damage will not disappear or decrease to an acceptable extent within a reasonable period of time; and

(iii) The advantages of termination outweigh the advantages of continuing the agreement.

(c) The Director will immediately notify the parties to the agreement of the suspension or termination. The Director will also mail a letter to the parties to the agreement at their record post office address with notice of any suspension or termination and the cause for such action.

(d) In the event that BOEM terminates an agreement under this section, none of the parties to the agreement will be entitled to compensation as a result of expenses or lost revenues that may result from the termination.

PART 585—RENEWABLE ENERGY AND ALTERNATE USES OF EXISTING FACILITIES ON THE OUTER CONTINENTAL SHELF

Subpart A—General Provisions

- Sec.
- 585.100 Authority.
- 585.101 What is the purpose of this part?
- 585.102 What are BOEM's responsibilities under this part?
- 585.103 When may BOEM prescribe or approve departures from these regulations?
- 585.104 Do I need a BOEM lease or other authorization to produce or support the production of electricity or other energy product from a renewable energy resource on the OCS?
- 585.105 What are my responsibilities under this part?

§ 585.400

30 CFR Ch. V (7-1-21 Edition)

Subpart D—Lease and Grant Administration

NONCOMPLIANCE AND CESSATION ORDERS

§ 585.400 What happens if I fail to comply with this part?

(a) BOEM may take appropriate corrective action under this part if you fail to comply with applicable provisions of Federal law, the regulations in this part, other applicable regulations, any order of the Director, the provisions of a lease or grant issued under this part, or the requirements of an approved plan or other approval under this part.

(b) BOEM may issue to you a notice of noncompliance if we determine that there has been a violation of the regulations in this part, any order of the Director, or any provision of your lease, grant or other approval issued under this part. When issuing a notice of noncompliance, BOEM will serve you at your last known address.

(c) A notice of noncompliance will tell you how you failed to comply with this part, any order of the Director, and/or the provisions of your lease, grant or other approval, and will specify what you must do to correct the noncompliance and the time limits within which you must act.

(d) Failure of a lessee, operator, or grant holder under this part to take the actions specified in a notice of noncompliance within the time limit specified provides the basis for BOEM to issue a cessation order as provided in § 585.401, and/or a cancellation of the lease or grant as provided in § 585.437.

(e) If BOEM determines that any incident of noncompliance poses an imminent threat of serious or irreparable damage to natural resources; life (including human and wildlife); property; the marine, coastal, or human environment; or sites, structures, or objects of historical or archaeological significance, BOEM may include with its notice of noncompliance an order directing you to take immediate remedial action to alleviate threats and to abate the violation and, when appropriate, a cessation order.

(f) The BOEM may assess civil penalties, as authorized by section 24 of the OCS Lands Act, if you fail to com-

ply with any provision of this part or any term of a lease, grant, or order issued under the authority of this part, after notice of such failure and expiration of any reasonable period allowed for corrective action. Civil penalties will be determined and assessed in accordance with the procedures set forth in 30 CFR part 550, subpart N.

(g) You may be subject to criminal penalties as authorized by section 24 of the OCS Lands Act.

§ 585.401 When may BOEM issue a cessation order?

(a) BOEM may issue a cessation order during the term of your lease or grant when you fail to comply with an applicable law; regulation; order; or provision of a lease, grant, plan, or other BOEM approval under this part. Except as provided in § 585.400(e), BOEM will allow you a period of time to correct any noncompliance before issuing an order to cease activities.

(b) A cessation order will set forth what measures you are required to take, including reports you are required to prepare and submit to BOEM, to receive approval to resume activities on your lease or grant.

§ 585.402 What is the effect of a cessation order?

(a) Upon receiving a cessation order, you must cease all activities on your lease or grant, as specified in the order. BOEM may authorize certain activities during the period of the cessation order.

(b) A cessation order will last for the period specified in the order or as otherwise specified by BOEM. If BOEM determines that the circumstances giving rise to the cessation order cannot be resolved within a reasonable time period, the Secretary may initiate cancellation of your lease or grant, as provided in § 585.437.

(c) A cessation order does not extend the term of your lease or grant for the period you are prohibited from conducting activities.

(d) You must continue to make all required payments on your lease or grant during the period a cessation order is in effect.

§ 585.437

30 CFR Ch. V (7-1-21 Edition)

LEASE OR GRANT CANCELLATION

§ 585.437 When can my lease or grant be canceled?

(a) The Secretary will cancel any lease or grant issued under this part upon proof that it was obtained by fraud or misrepresentation, and after notice and opportunity to be heard has been afforded to the lessee or grant holder.

(b) The Secretary may cancel any lease or grant issued under this part when:

(1) The Secretary determines after notice and opportunity for a hearing that, with respect to the lease or grant that would be canceled, the lessee or grantee has failed to comply with any applicable provision of the OCS Lands Act or these regulations; any order of the Director; or any term, condition or stipulation contained in the lease or grant, and that the failure to comply continued 30 days (or other period BOEM specifies) after you receive notice from BOEM. The Secretary will mail a notice by registered or certified letter to the lessee or grantee at its record post office address;

(2) The Secretary determines after notice and opportunity for a hearing that you have terminated commercial operations under your COP, as provided in § 585.635, or other approved activities under your GAP, as provided in § 585.656;

(3) Required by National security or defense; or

(4) The Secretary determines after notice and opportunity for a hearing

that continued activity under the lease or grant:

(i) Would cause serious harm or damage to natural resources; life (including human and wildlife); property; the marine, coastal, or human environment; or sites, structures, or objects of historical or archaeological significance; and

(ii) That the threat of harm or damage would not disappear or decrease to an acceptable extent within a reasonable period of time; and

(iii) The advantages of cancellation outweigh the advantages of continuing the lease or grant in force.

Subpart E—Payments and Financial Assurance Requirements

PAYMENTS

§ 585.500 How do I make payments under this part?

(a) For acquisition fees or the initial 12-months' rent paid for the preliminary term of your lease, you must make your electronic payments through the *Fees for Services* page on the BOEM Web site at <http://www.boem.gov>, and you must include one copy of the *Pay.gov* confirmation receipt page with your unsolicited request.

(b) For all other required rent payments and for operating fee payments, you must make your payments as required in 30 CFR 1218.51.

(c) This table summarizes payments you must make for leases and grants, unless otherwise specified in the Final Sale Notice:

	Payment	Amount	Due date	Payment mechanism	Section reference
Initial payments for leases					
(1) If your lease is issued competitively,	Bid Deposit	As set in Final Sale Notice/depends on bid.	With bid	Pay.Gov	§ 585.501.
	Bonus Balance	Lease issuance ...	30 CFR 1218.51.	§ 585.502.
(2) If your lease is issued non-competitively.	Acquisition Fee	\$0.25 per acre, unless otherwise set by the Director.	With application ...	Pay.gov	
	(3) All leases	Initial Rent	\$3 per acre per year.	45 days after lease issuance.	Pay.gov
Subsequent payments for leases and project easements					
(4) All leases	Subsequent Rent	\$3 per acre per year.	Annually	30 CFR 1218.51 ..	§§ 585.503 and 585.504.

§ 585.600

30 CFR Ch. V (7–1–21 Edition)

Subpart F—Plans and Information Requirements

§ 585.600 What plans and information must I submit to BOEM before I conduct activities on my lease or grant?

You must submit a SAP, COP, or GAP and receive BOEM approval as set forth in the following table:

Before you:	you must:
(a) conduct any site assessment activities on your commercial lease,	submit and obtain approval for your SAP according to §§ 585.605 through 585.613.
(b) conduct any activities pertaining to construction of facilities for commercial operations on your commercial lease,	submit and obtain approval for your COP, according to §§ 585.620 through 585.629.
(c) conduct any activities on your limited lease, ROW grant, or RUE grant in any OCS area,	submit and obtain approval for your GAP according to §§ 585.640 through 585.648.

§ 585.601 When am I required to submit my plans to BOEM?

You must submit your plans as follows:

(a) You may submit your SAP or GAP prior to lease or grant issuance, but must submit your SAP or your GAP no later than 12 months from the date of lease or grant issuance.

(b) If you intend to continue your commercial lease with an operations term, you must submit a COP, or a FERC license application, at least 6 months before the end of your site assessment term.

(c) You may submit your COP or FERC license application with your SAP.

(1) You must provide sufficient data and information with your COP for BOEM to complete the needed reviews and NEPA analysis; and

(2) BOEM may need to conduct additional reviews, including NEPA analysis, if significant new information becomes available after you complete your site assessment activities or you revise your COP. As a result of the additional reviews, we may require modification of your COP.

[76 FR 64623, Oct. 18, 2011, as amended at 79 FR 21623, Apr. 17, 2014]

§ 585.602 What records must I maintain?

Until BOEM releases your financial assurance under § 585.534, you must maintain and provide to BOEM, upon request, all data and information re-

lated to compliance with required terms and conditions of your SAP, COP, or GAP.

§§ 585.603–585.604 [Reserved]

SITE ASSESSMENT PLAN AND INFORMATION REQUIREMENTS FOR COMMERCIAL LEASES

§ 585.605 What is a Site Assessment Plan (SAP)?

(a) A SAP describes the activities (e.g., installation of meteorological towers, meteorological buoys) you plan to perform for the characterization of your commercial lease, including your project easement, or to test technology devices.

(1) Your SAP must describe how you will conduct your resource assessment (e.g., meteorological and oceanographic data collection) or technology testing activities; and

(2) BOEM will withhold trade secrets and commercial or financial information that is privileged or confidential from public disclosure under exemption 4 of the FOIA and as provided in § 585.113.

(b) Your SAP must include data from:

(1) Physical characterization surveys (e.g., geological and geophysical surveys or hazards surveys); and

(2) Baseline environmental surveys (e.g., biological or archaeological surveys).

(c) You must receive BOEM approval of your SAP before you can begin any

I/A

JUN 14 2022

Office of Renewable Energy Programs

<p>UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT</p> <p>COMMERCIAL LEASE OF SUBMERGED LANDS FOR RENEWABLE ENERGY DEVELOPMENT ON THE OUTER CONTINENTAL SHELF</p> <p><i>Paperwork Reduction Act of 1995 statement: This form does not constitute an information collection as defined by 44 U.S.C. § 3501 et seq. and therefore does not require approval by the Office of Management and Budget.</i></p>	Office	Renewable Energy Lease Number
	Sterling, VA	OCS-A 0546
	Cash Bonus and/or Acquisition Fee	Resource Type
	\$129,166,667 (\$155,000,000 Bonus Bid - \$25,833,333 Bidding Credit)	Wind
	Effective Date	Block Number(s)
	June 1, 2022	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
Duke Energy Renewables Wind, 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 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 provision of this lease, and that the Lessee bears the risk that such amendments, regulations, and statutes may increase or decrease the Lessee's obligations under the lease.

Public Staff
Long Lead-Time Resources Panel
(Witnesses Repko, Nolan, Pompee)
Rebuttal Testimony
Cross-Examination Exhibit No. 2

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") and/or Addendum "D" of this lease ("project easement(s)"), 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 and project easement(s) 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 goals 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 585.628(f)(2). Disapproval of plans will not subject the Lessor to liability under the lease. 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 and project easements(s) that will not unreasonably interfere with activities described in an approved SAP and/or COP, pursuant to this lease.

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 approved pursuant to applicable regulations in 30 CFR Part 585.

Section 6: Associated Project Easement(s).

Pursuant to 30 CFR 585.200(b), the Lessee has the right to one or more project easement(s), 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 when submitting a COP for approval, such project easements will be granted by the Lessor in accordance with 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 and project easement(s) 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 easement(s) 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.

Except as provided in any addenda to this lease, 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 that could be imposed by the Lessor or other government agency acting under such laws.

"Hazardous Material" means

1. A "hazardous substance" or a "pollutant or contaminant" as defined by 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." If, at any time during the term of this lease, the Lessor requires additional financial assurance under the authority of applicable regulations in 30 CFR Part 585, 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 and project easement(s) pursuant to section 13 of this lease and applicable regulations.

Section 13: Removal of Property and Restoration of the Leased Area and Project Easement(s) 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 and project easement(s) 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 and project easement(s) 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: Equal Opportunity Clause.

During the performance of this lease, the Lessee must fully comply with paragraphs (1) through (7) of Section 202 of Executive Order 11246, as amended (reprinted in 41 CFR 60-1.4(a)), and the implementing regulations, which are for the purpose of preventing employment discrimination against persons on the basis of race, color, religion, sex, or national origin. Paragraphs (1) through (7) of Section 202 of Executive Order 11246, as amended, are incorporated in this lease by reference.

Section 17: Certification of Nonsegregated Facilities.

By entering into this lease, the Lessee certifies, as specified in 41 CFR 60-1.8, that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. As used in this certification, the term "facilities" means, but is not limited to, any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees. Segregated facilities include those that are segregated by explicit directive or those that are in fact segregated on the basis of race, color, religion, sex, or national origin, because of habit, local custom, or otherwise; provided, that separate or single-user restrooms and necessary dressing or sleeping areas must be provided to assure privacy as appropriate. The Lessee further agrees that it will obtain identical certifications from proposed contractors and subcontractors prior to awarding contracts or subcontracts unless they are exempt under 41 CFR 60-1.5.

Section 18: 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 and reports must be delivered to the Lessee's or Lessor'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. Each party must, as soon as practicable, notify the other of a change to their Lessee's or Lessor's Contact Information listed in Addendum "A" by a written notice signed by a duly authorized signatory and delivered by hand or United States first class mail, adequate postage prepaid. Until such notice is delivered as provided in this section, the last recorded contact information for either party will be deemed current for service of all notices and reports required under this lease. For all operational matters, notices and reports must be provided to the party's Operations Representative, as specifically listed in Addendum "A," as well as the Lease Representative.

Section 19: 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 20: 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 duly authorized signatories of the Lessor and the Lessee.

Duke Energy Renewables Wind, LLC

Lessee

Christopher M. Fallon

(Signature of Authorized Officer)

Christopher M. Fallon
(Name of Signatory)

President

(Title)

June 13, 2022

(Date)

The United States of America

Lessor

James F. Bennett

(Signature of Authorized Officer)

James F. Bennett

(Name of Signatory)

Program Manager, Office of
Renewable Energy Programs

(Title)

JUN 22 2022

(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 0546

I. Lessor and Lessee Contact Information

Lessee Company Number: 15134

(a) Lessor's Contact Information

	Lease Representative	Operations Representative
Title	Program Manager, Office of Renewable Energy Programs	Same as Lease Representative
Address	U.S. Department of the Interior Bureau of Ocean Energy Management 45600 Woodland Road	
Phone	(703) 787-1300	
Fax	(703) 787-1708	
Email	renewableenergy@boem.gov	

(b) Lessee's Contact Information

	Lease Representative	Operations Representative
Name	Spencer Hanes	Same as Lease Representative
Title	Managing Director	
Address	550 S. Caldwell St. Suite 600 Charlotte, NC 28202	
Phone	704-382-4560	
Fax	980-373-9875	
Email	spencer.hanes@duke-energy.com	

II. Description of Leased Area

The total acreage of the leased area is approximately 55,154 acres, more or less. This area is subject to later adjustment, in accordance with applicable regulations (e.g., contraction, relinquishment, etc.).

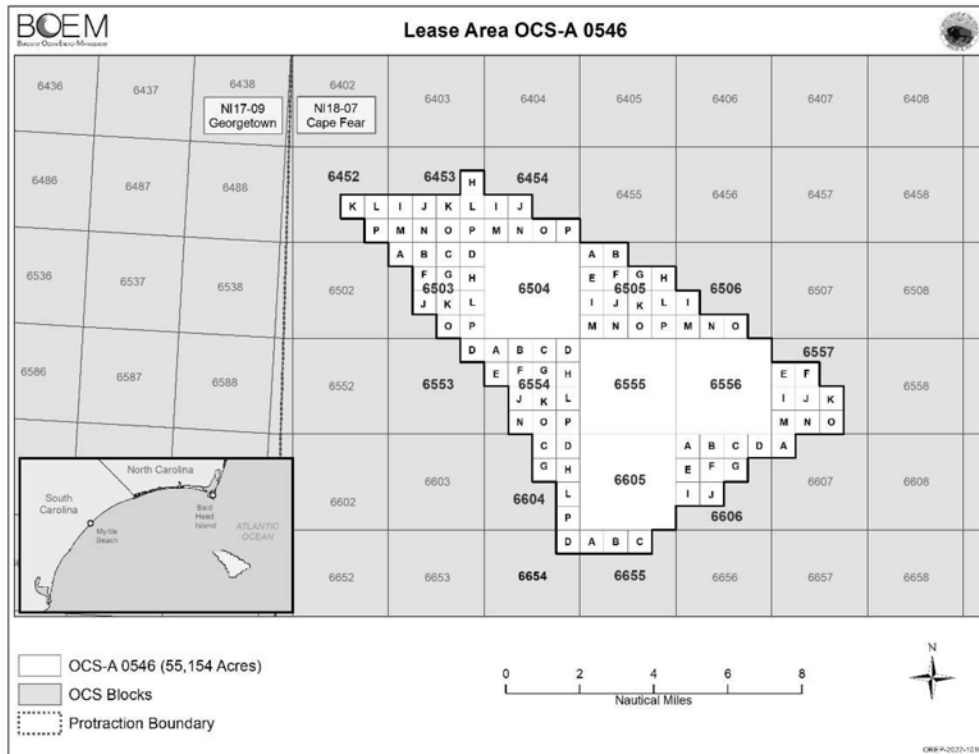
Lease OCS-A 0546

The following Blocks or portions of Blocks lying within Official Protraction Diagram Cape Fear NI18-07 are depicted on the map below and comprise 55,154 acres, more or less.

- 1) Block 6452, N1/2 of SE1/4, SE1/4 of SE1/4
- 2) Block 6453, SE1/4 of NE1/4, S1/2
- 3) Block 6454, SW1/4, S1/2 of SE1/4
- 4) Block 6503, E1/2, N1/2 of NW1/4, SE1/4 of NW1/4, NE1/4 of SW1/4
- 5) Block 6504, All of Block
- 6) Block 6505, S1/2 of NE1/4, W1/2, SE1/4
- 7) Block 6506, W1/2 of SW1/4, SE1/4 of SW1/4, SW1/4 of SE1/4
- 8) Block 6553, NE1/4 of NE1/4
- 9) Block 6554, N1/2, E1/2 of SW1/4, SE1/4
- 10) Block 6555, All of Block
- 11) Block 6556, All of Block
- 12) Block 6557, S1/2 of NW1/4, SW1/4, W1/2 of SE1/4
- 13) Block 6604, NE1/4, E1/2 of SE1/4
- 14) Block 6605, All of Block
- 15) Block 6606, N1/2 of NE1/4, SW1/4 of NE1/4, NW1/4, N1/2 of SW1/4
- 16) Block 6607, NW1/4 of NW1/4
- 17) Block 6654, NE1/4 of NE1/4
- 18) Block 6655, NW1/4 of NE1/4, N1/2 of NW1/4

For the purposes of these calculations, a full Block is 2,304 hectares. The acreage of a hectare is 2.471043930.

Map of Lease OCS-A 0546



III. Renewable Energy Resource
Wind

IV. Description of the Project

A project to generate energy using wind turbine generators and any associated resource assessment activities, located on the Outer Continental Shelf in the leased area, as well as associated offshore substation platforms, inner array cables, and subsea export cables.

V. Description of Project Easement(s)

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

ADDENDUM "B"

LEASE TERM AND FINANCIAL SCHEDULE

Lease Number OCS-A 0546

I. Lease Term

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	1 year
Site Assessment Term	5 years
Operations Term	33 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.

II. Definitions

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

"Effective Date" has the same meaning as "effective date" in the Bureau of Ocean Energy Management (BOEM) regulations provided in 30 CFR 585.237.

"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 for another reason under 30 CFR 585.432.

"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.

“Delivery Point” is the meter identified in the Construction and Operations Plan (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 by the COP, the Facility Design Report (FDR) or Fabrication Installation Report (FIR).

III. Payments

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. The acreage for Lease OCS-A 0546 is documented in Addendum A. For example:

- Acres: 100,000
- Annual Rental Rate: \$3.00 per acre or fraction thereof
 - Rental Fee for Entire Leased Area: $\$3.00 \times 100,000 = \$300,000$

The first year’s rent payment is due within 45 days of the date that the lease is received by the Lessee for execution, in accordance with 30 CFR 585.503. 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.

Once a portion of the lease begins commercial operations, rent will only be due for the undeveloped or non-operating acreage. The rent calculation becomes a three-step process:

- (1) rent is calculated on the portion of the lease not authorized for commercial operations.
- (2) rent is calculated on the portion of the lease authorized for commercial operations but without operating turbines.
- (3) the sum of (1) and (2) yield the rent due.

Step (1): The Lessee will continue to pay rent at the lease rate for acreage outside the approved commercial project area will continue to pay rent at the lease rate. The demarcation between acreage for a commercial project and undeveloped acreage will be defined in the COP or supplemental documents approved by BOEM. For example, if the total lease acreage is 100,000 acres and exactly one-quarter of the lease acreage is approved for commercial operations, 75,000 acres is not authorized for commercial operations.

- Acres: 75,000
- Annual Rental Rate: \$3.00 per acre or fraction thereof
- Rental Fee for Undeveloped Leased Area: $\$3.00 \times 75,000 = \$225,000$

Step (2): Acreage for the approved project area subject to rent will be the complement of the operating name plate capacity divided by the total nameplate capacity, $\frac{M_t}{\sum N_w}$, 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. If contiguous acreage for an approved project cannot be developed due to buffers or other surface occupancy restrictions, it will be considered part of the operating area of the lease and covered by the lease's operating fee payment.

- Acres: 25,000
- Annual Rental Rate: \$3.00 per acre or fraction thereof
- Rental Fee for Undeveloped Acreage Authorized for Commercial Operations: $\$3.00 \times 25,000 \times \left(1 - \frac{M_t}{\sum N_w}\right) = \Rent

Using the summed capacity of 14.21 MW from the 30 MW project in Table 1 from Section III (b) (4) below, the rental calculation for the project area is: $\$3.00 \times 25,000 \times (1 - 0.473667) = \$39,475$

Step (3): Summing the rent due in steps (1) & (2): $\$225,000 + \$39,475 = \$264,475$.

- The Adjusted Annual Rent Payment will be rounded up to the nearest dollar.

All rent payments must be made as required in 30 CFR 1218.51. Late rent payments will be charged underpayment interest in accordance with 30 CFR 1218.54.

Advance lease rent and operating fee payments are due annually, before the lease anniversary date. 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. If the installation schedule proceeds more quickly than projected by the lessee, lease payments may need to be reconciled. The Lessee should work with BOEM's Office of Renewable Energy Programs and the Office of Natural Resources Revenue (ONRR) on any payment reconciliation as instructed in Section III (c).

(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 first 45 calendar days following the date that the lease is received by the Lessee for execution, 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, the corresponding Rental Fee for the Entire Leased Area, and any related Adjusted Annual Rent Payments.

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

(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 0.4.

(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). 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 thirty-three year operations term of the lease. The capacity factor of 0.4 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.

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

F_t	=	M_t	*	H	*	C_p	*	P_t	*	R_t
(annual operating fee)		(nameplate capacity)		(hours per year)		(capacity factor)		(power price)		(operating fee rate)

Where:

t =	the year of Commercial Operations on the lease starting from each Lease Anniversary, where t 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 t .
M _t =	<p>the nameplate capacity expressed in megawatts (MW) rounded to the nearest second decimal place in year t of Commercial Operations on the lease. The capacity calculation is a two-step process: (1) scaling each turbine's nameplate capacity in proportion to the number of days in the year that it is operational and (2) summing these scaled values across all turbines</p> <p>The value of M_t, reflecting the availability of turbines, will be determined based on the FDR or FIR. This value will be adjusted to reflect any changes to installed capacity 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.</p> $(1) M_t = \sum_{w=1}^{W_t} \left(N_w \times \left[\frac{Y_{w,t}}{D} \right] \right)$ <p>Where:</p> <p>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 FDR or FIR.</p> <p>N_w = Nameplate capacity of individual wind generation turbine, w, per the FDR or FIR expressed in MW.</p> <p>$Y_{w,t}$ = Number of days that turbine w is commercially available during year.</p> <p>D = Days in the year set equal to 365 in all years for purposes of this calculation.</p> <p>M_t may be reduced only in the event that installed capacity is permanently decommissioned. 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.</p> <p>EXAMPLE: Table 1 illustrates the calculations represented by Equation (1) for a single lease year for a lease on which the lessee plans to erect six turbines, each with a nameplate capacity of 5 MW. Based on the days in each turbine's commercial operations period (column B), the exhibit shows the number of days during the year that the turbine is available for operation. Dividing this value by 365 (column D) yields the percent of days during the year that the turbine is available for operation (column E). For each turbine, the resulting percentage (column E) is multiplied by its nameplate capacity (column A) to calculate its scaled capacity for the year (column F). The individual values in column F are then summed across all six turbines to calculate total capacity (M_t).</p> <p style="text-align: center;">Table 1: Example of M_t Calculations for Installation</p>

Turbine	Nameplate Capacity (N _w) [A]	Days in Turbine's Commercial operations Period [B]	Number of days Turbine is available for operation in year t (Y _{w,t}) [C]	Number of days in the Year [D]	Percent of days available for Commercial Operation $\left(\frac{Y_{w,t}}{D}\right)$ [E = C ÷ D]	Turbine capacity scaled based on percent of days in commercial operation $N_w \times \frac{Y_{w,t}}{D}$ [F = A × E]
#1	5	January 1 to December 31	365	365	100%	5.00
#2	5	January 1 to December 31	365	365	100%	5.00
#3	5	October 1 to December 31	92	365	25.2%	1.26
#4	5	October 1 to December 31	92	365	25.2%	1.26
#5	5	October 1 to December 31	92	365	25.2%	1.26
#6	5	December 1 to December 31	31	365	8.5%	0.42

Note: Available capacity summed across all turbines: $M_t = \sum_{w=1}^{W_t} \left(N_w \times \left[\frac{Y_{w,t}}{D} \right] \right) = 14.21$

The same calculation would be performed for the lease during the decommissioning phase.

H =	the number of hours in the year for billing purposes which is equal to 8,760 for all years of Commercial Operations on the lease.																				
C _p =	<p>the "Capacity Factor" in Performance Period p, which represents the share of anticipated generation of the facility that is delivered to where the Lessee's facility interconnects with the electric grid (i.e. the Delivery Point) relative to its generation at continuous full power operation at the nameplate capacity, expressed as a decimal between zero and one.</p> <p>The initial Capacity Factor (C₀) will be set to 0.4.</p> <p>The Capacity Factor will be subject to adjustment at the end of each Performance Period. After the sixth year of Commercial Operations on the lease has concluded, the Lessee will utilize data gathered from years two through six of Commercial Operations on the lease and propose a revised 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.</p> <p>Table 2: Definition of Performance Periods</p> <table border="1"> <thead> <tr> <th>Performance Period (p)</th> <th>Commercial Operation Years (t)</th> <th>Payments Affected by Adjustment</th> <th>Capacity Factor (c)</th> <th>Date End Year (n)</th> </tr> </thead> <tbody> <tr> <td>0 (COD)</td> <td>Not Applicable</td> <td>Payments 1 to 7</td> <td>C₀=0.4</td> <td>--</td> </tr> <tr> <td>1</td> <td>t = 2 to 6</td> <td>Payments 8 to 12</td> <td>C₁</td> <td>n₁=6</td> </tr> <tr> <td>2</td> <td>t = 7 to 11</td> <td>Payments 13 to 17</td> <td>C₂</td> <td>n₂=11</td> </tr> </tbody> </table>	Performance Period (p)	Commercial Operation Years (t)	Payments Affected by Adjustment	Capacity Factor (c)	Date End Year (n)	0 (COD)	Not Applicable	Payments 1 to 7	C ₀ =0.4	--	1	t = 2 to 6	Payments 8 to 12	C ₁	n ₁ =6	2	t = 7 to 11	Payments 13 to 17	C ₂	n ₂ =11
Performance Period (p)	Commercial Operation Years (t)	Payments Affected by Adjustment	Capacity Factor (c)	Date End Year (n)																	
0 (COD)	Not Applicable	Payments 1 to 7	C ₀ =0.4	--																	
1	t = 2 to 6	Payments 8 to 12	C ₁	n ₁ =6																	
2	t = 7 to 11	Payments 13 to 17	C ₂	n ₂ =11																	

	3	$t = 12$ to 16	Payments 18 to 22	C_3	$n_3=16$
	4	$t = 17$ to 21	Payments 23 to 27	C_4	$n_4=21$
	5	$t = 22$ to 26	Payments 28 to 32	C_5	$n_5=26$
	6	$t = 27$ to 31	Payment 33	C_6	$n_6=31$

Adjustments to the Capacity Factor

The Actual 5-year Average Capacity Factor (X_p) is calculated for each Performance Period after COD ($p > 0$) per Equation 2 below. X_p 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.

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

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 that is transferred at the Delivery Point; Delivery Point meter data supporting the values submitted for annual actual generation must be recorded, preserved, and timely provided to the Lessor upon request. The generation data for the facility must be the same data reported on the Energy Information Administration's EIA-923.

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 those in leap years.

The value of the Capacity Factor at the outset of Commercial Operations ($p = 0$) is set to 0.4 as stated in equation 3:

$$(3) c_0 = 0.4$$

P_t = a measure of the annual average wholesale electric power price expressed in dollars per MW hour.

The Lessee must calculate P_t at the time each operating fee payment is due, subject to approval by the Lessor. The Price (P_t) must equal the simple average of the "on-the-hour" spot price indices for VACAR for the most recent calendar year of data available. VACAR is a subregion of the Southeastern Electric Reliability Council and is comprised

	<p>of the Carolinas and parts of Virginia. The VACAR average price per megawatt represents prices from Duke, Progress Energy's Carolina Power and Light, Santee Cooper, South Carolina Electric and Gas, Southeastern Power Administration, and APGI Yadkin Division. Aggregated data from commercial subscription services such as S&P Global Market Intelligence Platform or Hitachi ABB Velocity Suite can also be used and may be posted by BOEM for reference.</p> <p>The source of data used in the calculations must 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. BOEM will use the posted prices to verify the lessee's calculations.</p>
$r_t =$	the operating fee rate of 0.02 (2%).

(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 must 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 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 5-year Average Capacity Factor is based at any time during the lease term. 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 Lessee's calculations, as validated by the Lessor, or an audit of meter data conducted by the Lessee or Lessor, 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 is required to pay the difference between the amount of the payment received and the amount of the revised annual operating fee, plus underpayment interest on the balance, in accordance with 30 CFR § 1218.54.

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

IV. Financial Assurance

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

(a) **Initial Financial Assurance.** Prior to the Lease Issuance, the Lessee must provide an initial lease-specific bond, or other approved means of meeting the Lessor's initial financial assurance requirements in an amount equal to \$100,000.

(b) **Additional Financial Assurance.** In addition to the initial lease-specific financial assurance discussed and as set forth above, the Lessee is also required to provide additional supplemental bonds associated with the SAP and COP, or other form of financial assurances 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 585.515-537). The supplemental financial assurance requirement is in addition to the initial lease-specific financial assurance in the amount of \$100,000. 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 may 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 585.515-537). The supplemental financial assurance requirement is in addition to the initial lease-specific financial assurance in the amount of \$100,000, and an additional supplemental bond or other form of financial assurance required with the SAP. The Lessee may meet this obligation 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 require a decommissioning bond or other form of financial assurance based on the anticipated decommissioning costs in accordance with

applicable BOEM regulations (30 CFR 585.515-537). The decommissioning obligation must be satisfied 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 intended 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 0546

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. Definition of “Archaeological Resource”: The term “archaeological resource” has the same meaning as “archaeological resource” in the Bureau of Ocean Energy Management (BOEM) regulations provided in 30 CFR 585.112.
2. Definition of “Effective Date”: The term “Effective Date” has the same meaning as “effective date” in BOEM regulations provided in 30 CFR 585.237.
3. 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) exploration are components of G&G surveys.
4. Definition of “Geotechnical Exploration”: The term “Geotechnical Exploration,” 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.
5. 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.
6. Definition of “Protected Species”: The term “protected species” includes marine mammals (those protected under the Endangered Species Act and those protected under the Marine Mammal Protection Act), sea turtles, sturgeon, and giant manta ray.
7. 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.
8. 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.

2 SITE CHARACTERIZATION

- 2.1 Survey Plan(s):** Prior to conducting each physical, biological, or cultural resources survey in support of the submission of a plan, the Lessee must submit to the Lessor a survey plan. Each distinct survey effort (e.g., mobilization) must be addressed by a survey plan, although a single survey plan may cover more than one survey effort and may cover multiple types of activities (e.g., geotechnical and geophysical surveys on lease and along cable routes).

Each survey plan must include details of activities to be conducted and timelines of each survey effort necessary to support the submission of a plan (i.e., necessary to satisfy the information requirements in the applicable regulations, including but not limited to 30 CFR

585.606, 610, 611, 621, 626, 627, et al.). The Lessor will not accept survey plans that do not provide sufficient detail for review, including but not limited to specific description and illustration of the geographic areas to be surveyed, specific discussion of the survey methods and equipment to be employed, and a schedule of survey activities.

The Lessee must demonstrate compliance with each of the lease stipulations in Section 4 of Addendum "C" and include any waiver requests in its initial survey plan. Each survey plan must be consistent with the Lessee's Fisheries Communication Plan (FCP) (see 3.1.2.1) and Native American Tribal Communications Plan (NATCP) (see 3.1.2.2) and include a description of the Lessee's intentions to coordinate with the U.S. Coast Guard (USCG) to prepare a Notice to Mariners for the specific survey activities described in the survey plan.

The Lessee must submit a survey plan to the Lessor at least 90 calendar days prior to commencement of any survey activities described in the survey plan. Within 30 calendar days from receipt, the Lessor may request the Lessee modify the survey plan to address any comments the Lessor submits to the Lessee on the contents of the survey plan. Comments must be addressed by the Lessee in a manner deemed satisfactory by the Lessor prior to commencement of the survey activities. If the Lessor does not respond with comments or objections within 30 calendar days of receipt of the survey plan, the Lessee may proceed with the survey activities per the proposed schedule. The lack of Lessor comment or objection to the survey plan does not ensure acceptance of the survey results with the SAP and/or COP. If the Lessee is proposing a fisheries survey that could result in the take of species listed under the Endangered Species Act, additional time should be allowed for consultation and/or permits authorizing the activity (see Section 5.1.4).

- 2.2 Pre-Survey Meeting(s) with the Lessor:** If requested by the Lessor, the Lessee must hold a pre-survey meeting with the Lessor prior to the commencement of survey activities to discuss the applicable survey plan. The Lessee must ensure the presence at this meeting of any relevant subject matter experts, as requested by the Lessor.

3 REPORTING

- 3.1 Progress Report:** The Lessee must submit to the Lessor a progress report every six months (unless BOEM directs otherwise) 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. Within 60 calendar days from receipt, the Lessor may request the Lessee modify the progress report to address any comments the Lessor submits to the Lessee on the contents of the document. The Lessee must address comments in a manner deemed satisfactory by the Lessor. Should the Lessee not address the comments provided by the Lessor in a timely and adequate manner, BOEM reserves the right to require specific mitigation such as, but not limited to, third party verification/mediation at the Lessee's expense, adjustment of required reporting frequency, or designation that the Lease is not in good standing. This obligation does not expire at the end of the site assessment term and continues until approval of a COP.

- 3.1.1 Engagement:** The Lessee shall make reasonable efforts to consult with Tribes and parties that may be potentially affected by the project activities on the OCS, which include, but are not limited to, the following:

- Coastal communities
- Commercial and recreational fishing industries

- Educational and research institutions
- Environmental and public interest non-governmental organizations
- Federal, state, and local agencies
- Federally recognized Tribes (see 5.3.3)
- Mariners and the maritime industry
- Ocean users
- Submarine cable operators
- Underserved communities, as defined in Section 2 of Executive Order 13985

The Progress Report must include the following:

- Identify Tribes and parties with whom the Lessee made reasonable efforts to engage with under 3.1.1 above.
- Document, and update for subsequent reports, engagement with Tribes and parties since the previous reporting period.
- Document potential adverse effects from the Lessee's project to the interests of Tribes and parties.
- Document how, if at all, the design or implementation of the project has been informed by or altered to address these potential effects (including by investing in, or directing benefits to, Tribes and parties).
- Include a description of any anticipated or scheduled engagement activities for the next reporting period.
- Include feedback from engagement with Tribes and parties regarding transmission planning, prior to proposing any export cable route.
- Provide information that can be made available to the public and posted on the BOEM website.

The intent of this requirement is to improve Lessee communication and transparency with affected Tribes, parties, and members of the public, and to encourage lessees to identify and engage with underserved communities, including environmental justice communities that may be disproportionately impacted by a project's OCS activities, in order to avoid, minimize, and mitigate potential adverse effects by, for example, investing in these communities.

BOEM will protect privileged or confidential information that you submit, as required by the Freedom of Information Act (FOIA) and 30 CFR 585.113. Exemption 4 of FOIA applies to "trade secrets and commercial or financial information that you submit that is privileged or confidential." 5 U.S.C. 552(b)(4). If you wish to protect the confidentiality of such information, clearly mark it "Contains Privileged or Confidential Information" and consider submitting such information as a separate attachment. BOEM will not disclose such information, except as required by FOIA. Labeling information as privileged or confidential will alert BOEM to more closely scrutinize whether it warrants withholding. Further, BOEM will not treat as confidential aggregate summaries of otherwise nonconfidential information.

The Lessee shall make reasonable efforts to implement the project in a manner that minimizes, mitigates, and/or redresses the project's adverse effects, if any, on Tribes and parties. To facilitate consultation under this section, the Lessee should work collaboratively with federal, state, and local governments, community organizations, and Tribes.

3.1.2 Communication Plans: The Progress Report must include a section with plan(s) on how the Lessee will communicate with fisheries, federally recognized Tribes, and agencies (see 3.1.2.1, 3.1.2.2, 3.1.2.3). In addition to the plans, each progress report should provide updates on the progress of communication efforts with those and other affected stakeholder or ocean user groups during the reporting period (see 3.1.1).

3.1.2.1 Fisheries Communications Plan and Fisheries Liaison: The Lessee must develop a draft FCP and make it publicly available within 120 days of lease execution. The Lessee may request the Lessor extend the 120-day deadline for the FCP and the Lessee must update and refine the FCP from time to time, in response to feedback obtained by engagement with Tribes and parties and BOEM consultation. If the Lessee does not develop a project website on which the FCP is publicly available, the Lessee must make the FCP available to the Lessor and the public upon request. The plan must include the following:

- A description of the strategies that the Lessee intends to use for communicating with commercial and recreational fisheries prior to and during activities in support of the submission of a plan (i.e., SAP or COP). This description must include mechanisms to distribute notices to Federal and state fisheries license holders known to operate near the lease area through a local "Notice to Mariners" and outreach to, e.g., Fisheries Management Councils, newsletters, websites, Fisheries Liaison Officers and/or Fisheries Representatives, and applicable state agencies.
- The contact information for an individual retained by the Lessee as its primary point of contact with commercial and recreational fisheries (i.e., Fisheries Liaison).
- The strategy and general timing of discussions with commercial and recreational fisheries regarding the reduction of conflicts with facility designs, pursuant to Lease stipulation 3.1.1.
- A process to file a complaint with the offshore wind operator and seek the replacement of or compensation for lost gear.
- Plans to coordinate with commercial and recreational fisheries to identify peak fishing seasons and, to the extent practicable, avoid unnecessary interaction offshore between survey vessels and commercial fishermen.

Additionally, the Lessee is required to (i) notify applicable ocean users two weeks in advance of any geological and geophysical survey activities and, (ii) provide an annual summary of filed complaint claims and outcomes to BOEM to help BOEM better understand the frequency and extent of gear interactions.

3.1.2.1 Native American Tribes Communication Plan: The Lessee must develop a publicly available NATCP that describes the strategies that the Lessee intends to use for communicating with federally recognized Tribes, and that should outline specific methods for engaging with and disseminating information to federally recognized Tribes with cultural and/or historical ties to the lease area. The NATCP must include the contact information for an individual retained by the Lessee as its primary point of contact with federally recognized Tribes (i.e., a Tribal Liaison). The NATCP should include detailed information and protocols for regular engagement with federally recognized Tribes

including, but not limited to, the types of engagement activities (e.g., one-on-one meetings, group meetings, open houses, open information sharing meetings, etc.); the frequency of proposed engagements/meetings (e.g., monthly, quarterly, bi-annually, annually, etc.); meeting locations and/or virtual platforms; and contact information (e.g., telephone numbers, email addresses, website addresses, etc.). The Lessee must make the NATCP available to the Lessor and the federally recognized Tribes upon request. The Lessee must provide a draft NATCP to BOEM and federally recognized Tribes for review and comment, and hold a meeting with federally recognized Tribes to discuss the NATCP, within 120 days of lease execution. The Lessee may request the Lessor extend the 120-day deadline and the Lessee must invite federally recognized Tribes with cultural and historical ties to the lease area to participate in the development of the NATCP. If a federally recognized Tribe wishes to participate, the Lessee should request that the Tribe designate a Tribal Representative from each Tribe to serve as the Tribe's primary point of contact for communicating with the Lessee. If a Tribe does not respond to outreach from the Lessee, the Lessee will continue to invite the Tribe to participate in NATCP engagement opportunities until the Tribe provides a written response to the Lessee or Lessor, which may be a notice that the Tribe does not wish to participate in the development of the NATCP. If a federally recognized Tribe does not wish to participate in the development of the NATCP, the Lessee is no longer required to include them in NATCP communications.

- 3.1.2.2 Agency Communication Plan (ACP): The Lessee must develop a publicly available ACP that describes the strategies that the Lessee intends to use for communicating with federal, state and local agencies with authority related to the lease area and should outline specific methods for engaging with and disseminating information related to permits and trust resources to these agencies. The purpose of the ACP is to ensure early and active information sharing, focused discussion of potential issues, and collaborative identification of solutions in order to improve the quality and efficiency of various agency decision-making processes, and to promote the sustainable development of offshore wind energy projects. The ACP must include the contact information for an individual retained by the Lessee as its primary point of contact with agencies, (i.e., an Agency Liaison). The ACP should include detailed information and protocols for regular engagement with permitting and resource agencies including, but not limited to, the types of engagement activities (e.g., one-on-one meetings, interagency meetings, open information sharing meetings, etc.); the frequency of proposed engagements/meetings (e.g., monthly, quarterly, bi-annually, annually, etc.); meeting locations and/or virtual platforms; and contact information (e.g., telephone numbers, email addresses, etc.). The Lessee must make the ACP available to the Lessor and other agencies upon request. The Lessee must provide a draft ACP to BOEM and other permitting and resource agencies with authority related to the lease area for review and comment, and host a meeting with each interested agency, to discuss the ACP within 120 days of lease execution. The Lessee may request the Lessor extend the 120-day deadline and meetings may include multiple agencies. The Lessee must invite agencies with permitting roles and/or resource expertise to participate in the ACP. The Lessee should request that the agency designate a primary point of contact(s) for communicating with the Lessee. If an agency states in writing to the Lessee or Lessor that it does not wish to participate in the ACP, the Lessee need no longer include that agency in ACP communications and must document this change in the ACP. If an agency does not respond to outreach from the Lessee, the Lessee will continue to invite the agency to participate in ACP engagement opportunities until the agency provides a response. Note that a decision to not participate in the ACP in no way changes the agency regulatory authority or the need to communicate with that agency. The Lessee must

update the ACP or provide other written summary of how the Lessee used information gained during agency engagement to inform project planning and development.

- 3.1.3 **Coordinated Engagement:** To the maximum extent practicable, the Lessee must coordinate engagement activities for Tribes and parties (see Section 3.1.1) with other regional lessees and document their activities in the Progress Report. Lessee(s) must design coordinated engagement activities to decrease the communication and consultation burden on Tribes and parties. BOEM appreciates that not all engagement can be coordinated.
- 3.1.4 **Survey Plans:** 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.

4 NATIONAL SECURITY AND MILITARY OPERATIONS

- 4.1 **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 Outer Continental Shelf (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.

4.2 Evacuation or Suspension of Activities

- 4.2.1 **General:** 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 consistent with Section 3(c) of this lease.
- 4.2.2 **Notification:** 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 is not limited to the evacuation of personnel and appropriate sheltering of personnel not evacuated. “Appropriate sheltering” 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.

- 4.2.3 Duration: Suspensions or evacuations for national security reasons will not generally exceed seventy-two (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.
- 4.2.4 Lessee Point-of-Contact for Evacuation/Suspension Notifications: The Lessee must inform the Lessor of the persons/offices to be notified to implement the terms of 4.2.2 and 4.2.3.
- 4.2.5 Coordination with Command Headquarters: 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.
- 4.2.6 Reimbursement: 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 4.2.1 through 4.2.5 above.
- 4.3 Electromagnetic Emissions**: The Lessee, prior to entry into any designated defense operating area, warning area, or water test area, for the purpose of commencing survey activities undertaken to support SAP or COP submittal must enter into an agreement with the commander of the appropriate command headquarters 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.

5 STANDARD OPERATING CONDITIONS

5.1 General Requirements

- 5.1.1 Prior to the start of operations, the Lessee must hold a briefing to establish responsibilities of each involved party, define the chains of command, discuss communication procedures, provide an overview of monitoring procedures, and review operational procedures. This briefing must include all relevant personnel, crew members and Protected Species Observers (PSOs). New personnel must be briefed as they join the work in progress.
- 5.1.2 The Lessee must ensure that all vessel operators and crew members, including PSOs, are familiar with, and understand, the requirements specified in this ADDENDUM "C".
- 5.1.3 The Lessee must ensure that a copy of ADDENDUM "C" and the Project Design Criteria and Best Management Practices listed in Appendix B of the Letter of Concurrence issued by the National Marine Fisheries Service (NMFS) on June 29, 2021 (2021 Letter of Concurrence), is made available on every project-related vessel. The 2021 Letter of Concurrence may be

found at <https://www.boem.gov/sites/default/files/documents/renewable-energy/OSW-surveys-NLAA-programmatic.pdf>.

- 5.1.4 **Endangered Species Act (ESA) Consultation for Biological Surveys:** The Lessee must consult with BOEM, NMFS, and the U.S. Fish and Wildlife Service (USFWS) prior to designing and conducting biological surveys intended to support offshore renewable energy plans that could interact with ESA-listed species. Please see data collection activities that have been previously consulted upon in the 2021 biological assessment issued by NMFS on June 29, 2021 (2021 Biological Assessment), and 2021 Letter of Concurrence at <https://www.boem.gov/renewable-energy/nmfs-esa-consultations>.

5.2 Protected Species

- 5.2.1 **Protected Species:** Unless otherwise authorized by BOEM, Lessee's OCS activities must comply with applicable Project Design Criteria and Best Management Practices found in BOEM's notice (<https://www.boem.gov/sites/default/files/documents/PDCs%20and%20BMPs%20for%20Atlantic%20Data%20Collection%2011222021.pdf>) last revised on November 22, 2021. The 2021 Biological Assessment and 2021 Letter of Concurrence may be found at <https://www.boem.gov/renewable-energy/nmfs-esa-consultations>. At the Lessee's option, the Lessee, its operators, personnel, and contractors may satisfy this requirement by complying with the NMFS-approved measures to safeguard protected species that are most current at the time an activity is undertaken under this lease, including but not limited to new or updated versions of the 2021 Biological Assessment or 2021 Letter of Concurrence, or through new or activity-specific consultations.

5.3 Archaeological Survey Requirements

- 5.3.1 **No Impact without Approval:** In no case may the Lessee knowingly impact a potential archaeological resource without the Lessor's prior approval.
- 5.3.2 **Archaeological Survey Required:** The Lessee must provide the results of an archaeological survey with its plans.
- 5.3.3 **Qualified Marine Archaeologist:** The Lessee must ensure that the analysis of archaeological survey data collected in support of plan (i.e., SAP and/or COP) submittal and the preparation of archaeological reports in support of plan submittal are conducted by a Qualified Marine Archaeologist.
- 5.3.4 **Tribal Pre-Survey Meeting:** The Lessee must coordinate a tribal pre-survey meeting by sending a letter through certified mail, and following up with email or phone calls as necessary, to the following Tribes:
- Delaware Tribe of Indians
 - Nansemond Indian Nation
 - Chickahominy Indian Tribe
 - Chickahominy Indian Tribe–Eastern Division
 - Monacan Indian Nation
 - Upper Mattaponi Indian Tribe
 - Rappahannock Tribe
 - Delaware Nation

- Eastern Band of Cherokee Indians
- Cherokee Nation
- United Keetoowah Band of Cherokee Indians in Oklahoma
- Tuscarora Nation
- Catawba Indian Nation

The purpose of this meeting will be for the Lessee and the Lessee's Qualified Marine Archaeologist to discuss the Lessee's Survey Plan and consider requests to monitor portions of the archaeological survey and the geotechnical exploration activities, including the visual logging and analysis of geotechnical samples (e.g., cores, etc.). Notification of the tribal pre-survey meeting must be sent at least 15 calendar days prior to the date of the proposed tribal pre-survey meeting. The meeting must be scheduled for a date at least 30 calendar days prior to commencement of survey activities performed in support of plan submittal 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 2.1). The Lessee must provide the Lessor with documentation of compliance with this stipulation prior to commencement of surveys.

- 5.3.5 Geotechnical Exploration: The Lessee may only conduct geotechnical exploration 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 5.3.1, the geotechnical exploration activities must avoid potential archaeological resources by a minimum of 50 meters (164 feet), 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 exploration activities did not impact potential historic properties identified as a result of the HRG surveys performed in support of plan submittal.
- 5.3.6 Monitoring and Avoidance: The Lessee must inform the Qualified Marine Archaeologist that he or she may elect to be present during HRG surveys and bottom-disturbing 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). If the Qualified Marine Archaeologist indicates that he or she wishes to be present, the Lessee must reasonably 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.
- 5.3.7 Post-Review Discovery Clauses: If the Lessee, while conducting geotechnical exploration or any other bottom-disturbing site characterization activities in support of plan (i.e., SAP and COP) submittal and after review of the location by a Qualified Marine Archaeologist under 5.3.5 discovers an unanticipated potential archaeological resource, 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) or

evidence of a pre-contact archaeological site (e.g., stone tools, pottery or other pre-contact artifacts) within the project area, the Lessee must:

- 5.3.7.1 Immediately halt seafloor/bottom-disturbing activities within the area of discovery;
- 5.3.7.2 Notify the Lessor within 24 hours of discovery;
- 5.3.7.3 Notify the Lessor in writing via report to the Lessor within 72 hours of its discovery;
- 5.3.7.4 Keep the location of the discovery confidential and take no action that may adversely impact the archaeological resource until the Lessor has made an evaluation and instructs the applicant on how to proceed; and
- 5.3.7.5 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, conduct 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)). If investigations indicate that the resource is potentially eligible for listing in the National Register of Historic Places, the Lessor will inform 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, then, 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)).

5.4 Avian and Bat Survey and Reporting Requirements

- 5.4.1 **Lighting:** Any lights used to aid marine navigation by the Lessee during construction, operations, and decommissioning of a meteorological buoy must meet USCG requirements for private aids to navigation (https://www.navcen.uscg.gov/pdf/AIS/CG_2554_Paton.pdf) and BOEM's Guidelines for Lighting and Marking of Structures Supporting Renewable Energy Development (<https://www.boem.gov/2021-lighting-and-marking-guidelines>). For any additional lighting, the Lessee must use such lighting only when necessary, and the lighting must be hooded downward and directed when possible, to reduce upward illumination and illumination of adjacent waters.
- 5.4.2 **Motus Wildlife Tracking System:** To help address information gaps on offshore movements of birds and bats, including ESA-listed species, the Lessee must install Motus stations on meteorological or environmental data buoys in coordination with USFWS's Offshore Motus network.
- 5.4.3 **Bird Deterrents:** To minimize the attraction of birds, the Lessee must install bird deterrent devices (e.g., anti-perching), where appropriate.
- 5.4.4 **Avian Annual Reporting:** The Lessee must provide an annual report to both the Lessor and USFWS using the contact information provided as an Enclosure to this lease, or updated contact information as provided by the Lessor. This report must document any dead or injured birds or bats found during activities conducted in support of plan submittal. The first report must be submitted within 6 months of the start of the first survey conducted in support of plan submittal, and subsequent reports must be submitted annually thereafter until all surveys in support of plan submittal have concluded and all such birds and bats have been reported. If surveys are not conducted in a given year, the annual report may consist of a simple statement to that effect. An annual report must be provided to BOEM and

USFWS documenting any dead (or injured) birds or bats found on vessels and structures during construction, operations, and decommissioning. The report must contain the following information: the name of species, date found, location, a picture to confirm species identity (if possible), and any other relevant information. Carcasses with Federal or research bands must be reported to the United States Geological Survey Bird Band Laboratory, available at <https://www.usgs.gov/labs/bird-banding-laboratory>.

- 5.4.5 Survey Results and Data: The Lessee must provide the results of avian surveys and data to BOEM and USFWS with its plans.

6 PROJECT LABOR AGREEMENTS

- 6.1 Project Labor Agreements:** The Lessee shall make every reasonable effort to enter a Project Labor Agreement(s) (PLA) that covers the construction stage of any project proposed for the leased area, and that applies to all contractors.

7 WORKFORCE TRAINING AND SUPPLY CHAIN DEVELOPMENT

- 7.1 Supply Chain Statement of Goals:** The Lessee must submit to the Lessor a statement of goals in which the Lessee describes any plans by the Lessee for contributing to the creation of a robust and resilient US-based offshore wind supply chain. The Statement of Goals must include the Lessee's plans for investments in supply chain improvements, if any, to support the offshore wind industry, including investments in the following:

- Installation, downpipe, survey and other vessels
- Port infrastructure
- Grid upgrades
- Research & development
- Manufacturing of components and facilities
- Supply chain architecture like fabrication and assembly halls, port storage, laydown areas
- Dry docks and navigation channels
- Onshore and offshore docking and refueling stations for autonomous vehicles
- Workforce diversity, training, and development
- Ensuring equal access to contracting opportunities

Following COP approval, the Lessee must annually provide updates to the Lessor on the Lessee's progress in meeting these goals. This information may be provided as part of the certification of compliance statement pursuant to 30 CFR 585.633(b).

The Lessee must submit a final report evaluating the Lessee's success in meeting these goals no later than the last required Fabrication and Installation Report submission. The Lessee must submit two versions of the Statement of Goals, updates, and final report, one of which does not contain confidential information, so that BOEM can make them publicly available.

- 7.2 Bidding Credits – General Requirements and Restrictions:** The Lessee has committed \$20,666,666 for the benefit of workforce training and/or domestic supply chain

development as part of its high bid (hereinafter, the “Contribution”).¹ The Contribution must support workforce training programs for the U.S. offshore wind industry, development of a U.S. domestic supply chain for the offshore wind energy industry, or both. The Contribution for workforce training and/or domestic supply chain development can be made in support of existing programs, or for the establishment of new programs or incentives associated with the planning, design, construction, operation, maintenance, or decommissioning of U.S. offshore wind energy projects, or manufacturing or assembling of their components, in the United States. The Contribution must be made by the Lessee, its parent company, or an Affiliated Entity. (e.g., project company).² The Lessee will meet this commitment in accordance with the conceptual strategy submitted pursuant to the Bidder’s Financial Form (BFF) addendum. The requirements and restrictions included in the BFF’s addendum are incorporated hereto by reference.

Contributions must be made to (i) private, public, or municipal corporations, companies, associations, partnerships, or other legal entities organized under the laws of any State of the United States, the District of Columbia, or any territory or insular possession subject to U.S. jurisdiction; (ii) an executive Agency of the United States as defined in section 105 of Title 5 of the U.S. Code; or (iii) a State of the United States or a political subdivision thereof. Contributions cannot be made to the parent or affiliated entities of the Lessee or for purposes of directly or indirectly satisfying a purchase or work order of the Lessee. The Lessee, its parent company, or its affiliated entities are not permitted to retain an ownership/equity interest in the entity receiving the Contribution or directly receive goods, services, or other compensation as a result of the Contribution itself.

- 7.2.1 Workforce Training Credit – Requirement and Restrictions: The Contribution for workforce training must result in a better trained and/or larger domestic offshore wind work force in the United States that would provide for more efficient operations via an increase in the supply of fully trained personnel. Workforce training contributions must support the development of skills for the general workforce (i.e., not only the developer’s workers) used in the planning, design, construction, operation, maintenance, or decommissioning of offshore wind energy projects.

Training of existing Lessee employees, Lessee contractors, or employees of affiliated entities will not qualify under this Contribution. All offshore wind lessees must have the opportunity to hire individuals trained in programs that benefited from the Contribution. Trainees cannot be contractually required to enter into employment agreements with either the Lessee making the Contribution or the entity providing the training.

The workforce training must be provided in the United States and to citizens of the United States, nationals of the United States, or aliens lawfully admitted for permanent residence in the United States as defined in 8 U.S.C. 1101(a)(20). The training must be provided by any of the following: (i) Private, public, or municipal corporations, companies, associations, partnerships, and other legal entities organized under the laws of any State of the United States, the District of Columbia, or any territory or insular possession subject to U.S.

¹ As used herein, “Contribution” means: (i) the direct transfer or payment of funds (including, but not limited to, money, grants, financial instruments, and securities); and (ii) establishment of non-refundable monetary commitments or guarantees (including, but not limited to, revolving funds, trusts and loan guarantees).

² BOEM considers an entity to be an “Affiliated Entity” if they meet the definition of affiliate in 30 CFR 1206.20, as applicable, or if they are both direct, or indirect, subsidiaries of the same parent company.

jurisdiction; (ii) Executive Agency of the United States as defined in section 105 of Title 5 of the U.S. Code; or (iii) State of the United States or a political subdivision thereof.

Contributions to workforce training must be one of the following:

- Contributions in support of union apprenticeships, labor management training partnerships, stipends for workforce training, or other technical training programs or institutions focused on providing skills necessary for the planning, design, construction, operation, maintenance, or decommissioning of offshore wind energy projects in the United States.
- Contributions toward maritime training necessary for the crewing of vessels to be used for the construction, servicing, and/or decommissioning of wind energy projects in the United States.
- Contributions toward training workers in skills or techniques necessary to manufacture or assemble offshore wind components, subcomponents or subassemblies. Examples of these skills and techniques include welding; wind energy technology; hydraulic maintenance; braking systems; mechanical systems, including blade inspection and maintenance; or computers and programmable logic control systems.³
- Contributions toward training in any other job skills that the Lessee can demonstrate are necessary for the planning, design, construction, operation, maintenance, or decommissioning of offshore wind energy projects in the United States.

7.2.2 Domestic Supply Chain Credit – Requirement and Restrictions: The Contribution must result in (i) overall benefits to the U.S. offshore wind supply chain for all potential purchasers of offshore wind services, components, or subassemblies, not solely the Lessee's project; (ii) either the demonstrable development of new domestic capacity (including vessels) or the demonstrable buildout of existing capacity; and (iii) a more robust domestic supply chain by reducing the upfront capital or certification cost for manufacturing offshore wind components including the building of facilities, the purchasing of capital equipment, and the certifying of existing manufacturing facilities. Supply chain development contributions can be made to programs supporting the development of the supply chain or can be direct contributions or incentives for manufacturing or other services supporting the offshore wind industry.

Contributions to domestic supply chain development must be one of the following:

- Contributions supporting the development of a domestic supply chain for the offshore wind industry, including manufacturing of components and sub-assemblies and the expansion of related services.

³ <https://www.bls.gov/ooh/installation-maintenance-and-repair/wind-turbine-technicians.htm#tab-4>

- Contributions to domestic Tier-2⁴ and Tier-3⁵ offshore wind component suppliers and domestic Tier-1⁶ supply chain efforts, including quay-side fabrication.
- Contributions for technical assistance grants to help U.S. manufacturers re-tool or certify (e.g., ISO-9001) for offshore wind manufacturing.
- Contributions for the development of Jones Act-compliant vessels for the construction, servicing, and/or decommissioning of wind energy projects in the United States.
- Contributions to establish a new or existing bonding support reserve or revolving fund available to all businesses providing goods and services to offshore wind energy companies, including disadvantaged businesses.⁷
- Other Contributions to supply chain development efforts that the Lessee can demonstrate further the manufacture of offshore wind components or subassemblies, or the provision of offshore wind services, in the United States.

7.2.3 **Documentation:** The Contribution must be verifiable by BOEM. The documentation provided by the Lessee must contain the information called for in the conceptual strategy submitted at the time of the bid deposit and must allow BOEM to objectively verify (i) the amount of the Contribution and the beneficiary(ies) of the Contribution; and (ii) compliance with the bidding credit criteria provided in subsections 7.2, 7.2.1 and 7.2.2 of the Lease. The Lessee must provide written documentation to BOEM demonstrating payment of the full commitment to initiatives or programs supporting workforce development and/or the domestic supply chain, as provided in subsections 7.2.1 and 7.2.2. The documentation must be submitted to BOEM with (or before) the submission of the Lease's first FDR.

The documentation must also describe how the funded initiative or program has advanced, or is expected to advance, U.S. offshore wind workforce training or supply chain development. The documentation must provide qualitative and/or quantitative information that includes the estimated number of trainees or jobs supported, or the estimated leveraged supply chain investment resulting or expected to result from the Contribution. If the Lessee's implementation strategy has changed from that in the conceptual strategy due to market needs or other factors, the Lessee must explain the changed approach.

At a minimum, the documentation must include:

- all written agreements between the Lessee and beneficiary(ies) of the Contribution;

⁴ Tier 2: Subassemblies are the systems that have a specific function for a Tier 1 component. They may include subassemblies of a number of smaller parts, such as a pitch system for blades. Tier 2 manufacturers contract with Tier 1 suppliers as a subcontractor or vendor.

⁵ Tier 3: Subcomponents are commonly available items that are combined into Tier 2 subassemblies, such as motors, bolts, and gears. Tier 3 manufacturers are typically vendors that provide components to Tier 2 suppliers.

⁶ Tier-1 components examples include the primary offshore wind components such as the blades, nacelles, towers, foundations, and cables. Tier-1 components are the major products that are purchased by an offshore wind project developer, such as the wind turbine, foundation, or cables. Tier 1 suppliers are primary suppliers that contract directly with the project developer. Contributions for Tier-1 supply chain development can include infrastructure necessary for quay-side manufacturing, fabrication, or assembly.

⁷ A disadvantaged business entity would be one at least 51% owned and controlled by a socially and economically disadvantaged individual or individuals as defined by the Small Business Administration (<https://www.sba.gov/federal-contracting/contracting-assistance-programs/small-disadvantaged-business>).

- all receipts documenting the amount, date, financial institution, and the account and owner of account to which the Contribution was made; and
- sworn statements by the entity that made the Contribution and the beneficiary(ies) of the Contribution, attesting:
 - o the amount and date(s) of the Contribution;
 - o that the Contribution is being (or will be) used in accordance with the bidding credit requirements in the Lease; and
 - o that all information provided is true and accurate.

7.2.4 **Enforcement:** BOEM reserves the right to determine that the bidding credit has not been satisfied if changes to the Lessee's conceptual strategy do not meet the criteria for the bidding credit described herein. The requirements and restrictions applicable to the bidding credit commitment described in subsections 7.2, 7.2.1, and 7.2.2, not limited to the amount to be paid, bind the Lessee and any future assignee(s) of the Lease. 30 C.F.R. 585.410. If BOEM determines that a Lessee or assignee has failed to satisfy the commitment at the FDR stage or if a Lessee or assignee relinquishes or otherwise fails to develop the Lease by the tenth anniversary date of Lease issuance, the amount corresponding to the bidding credit awarded shall be immediately due and payable to the Office of Natural Resources Revenue with interest from the date of lease execution. The interest rate will be the underpayment interest rate identified by ONRR. BOEM may, at its sole discretion, extend the documentation deadline beyond the FDR or the 10-year timeframe stated in this paragraph.

8 SITING CONDITIONS

8.1 Surface Structure Layout and Orientation: If the Lessee's lease area abuts a neighboring BOEM lease area, in its COP project design, the Lessee must endeavor to design a structure layout that contains two common lines of orientation across the adjacent leases (as described in Navigation and Vessel Inspection Circular 01-19). If the Lessee and the neighboring BOEM lessee cannot agree on such a structure layout, the Lessee must incorporate a 1 nautical mile setback from the boundary of the neighboring lease, within which the Lessee must not construct any surface structures. Rent will be collected on all areas assigned to the lessee, as outlined in Addendum A, regardless of potential restrictions.

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ADDENDUM "D"

PROJECT EASEMENT

Lease Number OCS-A 0546

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

I. Rent

The Lessee must begin submitting rent payments for any project easement associated with this lease commencing on the date that BOEM approves the Construction and Operations Plan or modification of the COP describing the project easement. Annual rent for a project easement is \$5.00 per acre per year or, a minimum of \$450.00 per year in accordance with 30 CFR § 585.507(a).

I/A

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ADDENDUM "E"

RENT SCHEDULE

Lease Number OCS-A 0546

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

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Lease Number OCS-A 0546

CONTACT INFORMATION FOR REPORTING REQUIREMENTS

The following contact information must be used for the reporting and coordination requirements specified in ADDENDUM "C", Stipulation 4:

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

All Other Reporting Requirements in Stipulation 5.3:

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

ENCLOSURE

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