

## Appendix E. Project Design Envelope and Maximum-Case Scenario

Ocean Wind proposes the Project using a PDE concept. This concept allows Ocean Wind to define and bracket proposed Project characteristics for environmental review and permitting of the Project while maintaining a reasonable degree of flexibility for selection and purchase of Project components such as WTGs, foundations, export cables, and OSS.<sup>1</sup>

BOEM provides Ocean Wind and other lessees with the option to submit COPs using the PDE concept—providing sufficiently detailed information within a reasonable range of parameters to analyze a “maximum-case scenario” (described below) within those parameters for each affected environmental resource. BOEM identified and verified that the maximum-case scenario based on the PDE provided by Ocean Wind and analyzed in this Draft EIS could reasonably occur if approved. This approach is intended to provide flexibility for lessees and allow BOEM to analyze environmental impacts in a manner that minimizes the need for subsequent environmental and technical reviews as design changes occur.

This Draft EIS assesses the impacts of the reasonable range of Project designs that are described in the Ocean Wind 1 COP by using the maximum-case scenario process. The maximum-case scenario analyzes the aspects of each design parameter that would result in the greatest impact for each physical, biological, and socioeconomic resource. This Draft EIS considers the interrelationship among aspects of the PDE rather than simply viewing each design parameter independently. This Draft EIS also analyzes the planned action impacts of the maximum case scenario alongside other reasonably foreseeable past, present, and future actions.

A summary of Ocean Wind 1’s PDE parameters is provided in Table E-1. Table E-2 details the full range of maximum-case design parameters for the proposed Project and which parameters are relevant to the analysis for each EIS section in Chapter 3, *Affected Environment and Environmental Consequences*.

**Table E-1 Summary of PDE Parameters**

Project Parameter Details
<b>General (Layout and Project Size)</b>
<ul style="list-style-type: none"> <li>• Up to 98 WTGs</li> <li>• Project anticipated to be in service in 2024</li> </ul>
<b>Foundations</b>
<ul style="list-style-type: none"> <li>• Monopile foundations with transition piece, or one-piece monopile/transition piece, where the transition piece is incorporated into the monopile</li> <li>• Foundation piles would be installed using a pile-driving hammer</li> <li>• Scour protection around all foundations</li> </ul>

<sup>1</sup> Additional information and guidance related to the PDE concept can be found here: <https://www.boem.gov/Draft-Design-Envelope-Guidance/>.

<b>Project Parameter Details</b>
<p><b>Wind Turbine Generators</b></p> <ul style="list-style-type: none"> <li>• Rotor diameter up to 788 feet (240 meters)</li> <li>• Hub height up to 512 feet (156 meters) above MLLW</li> <li>• Upper blade tip height up to 906 feet (276 meters) above MLLW</li> <li>• Lowest blade tip height 70.8 feet (22 meters) above MLLW</li> </ul>
<p><b>Inter-Array Cables</b></p> <ul style="list-style-type: none"> <li>• Target burial depth of 4 to 6 feet (1.2 to 1.8 meters) depending on site conditions, navigation risk, and third-party requirement (final burial depth dependent on CBRA and coordination with agencies)</li> <li>• Cables could be up to 170 kV (alternating current)</li> <li>• Preliminary layout available; however, final layout pending</li> <li>• Maximum total cable length is 190 miles (approximately 300 kilometers)</li> <li>• Cable lay, installation, and burial: Activities may involve use of a jetting tool (jet ROV or jet sled), vertical injection, leveling, mechanical cutting, plowing (with or without jet-assistance), pre-trenching, controlled-flow excavation</li> </ul>
<p><b>Offshore Export Cables</b></p> <ul style="list-style-type: none"> <li>• Up to three maximum 275 kV alternating current export cables</li> <li>• Target burial depth of 4 to 6 feet (1.2 to 1.8 meters) depending on site conditions, navigation risk, and third-party requirements (final burial depth dependent on burial risk assessment and coordination with agencies)</li> <li>• Two export cable route corridors, Oyster Creek and BL England</li> <li>• Maximum total cable length is 143 miles (230 kilometers) for Oyster Creek and 32 miles (51 kilometers) for BL England</li> <li>• Cable lay, installation, and burial: Activities may involve use of a jetting tool (jet ROV or jet sled), vertical injection, leveling, mechanical cutting, plowing (with or without jet-assistance), pre-trenching, backhoe dredger, controlled-flow excavation</li> </ul>
<p><b>Offshore Substations</b></p> <ul style="list-style-type: none"> <li>• Up to three OSS</li> <li>• Total structure height up to 296 feet (90 meters) above MLLW</li> <li>• Maximum length and width of topside structure 295 feet (90 meters; with ancillary facilities)</li> <li>• OSS installed atop a modular support frame and monopile substructure or atop a piled jacket foundation substructure</li> <li>• Foundation piles to be installed using a pile-driving hammer</li> <li>• Scour protection installed at foundation locations where required</li> </ul>
<p><b>Landfall for the Offshore Export Cable</b></p> <ul style="list-style-type: none"> <li>• Open cut or trenchless (e.g., HDD, direct pipe, or auger bore) installation at landfall</li> <li>• Up to six cable ducts for landfall, if installed by trenchless technology</li> <li>• A reception pit (may be subsea pit, not yet finalized) would be required to be constructed at the exit end of the bore</li> <li>• Construction reception pit: excavator barge, land excavator mounted to a barge, sheet piling from barge used for intertidal cofferdams, swamp excavators</li> </ul>

<b>Project Parameter Details</b>
<p><b>Offshore Substations Interconnector Cable</b></p> <ul style="list-style-type: none"> <li>• Maximum 275 kV alternating current cables</li> <li>• Target burial depth of 4 to 6 feet (1.2 to 1.8 meters) depending on conditions (final burial depth dependent on burial risk assessment and coordination with agencies)</li> <li>• Potential layout available; however, final layout pending</li> <li>• Maximum total cable length is 19 miles (approximately 30 kilometers)</li> <li>• Cable lay, installation, and burial: Activities may involve use of a jetting tool, vertical injection, pre-trenching, scar plow, trenching (including leveling, mechanical cutting), plowing, controlled-flow excavation</li> </ul>
<p><b>Onshore Export Cable</b></p> <ul style="list-style-type: none"> <li>• Connect with offshore cables at TJB and carry electricity to the onshore substation</li> <li>• Would be buried at a target burial depth of 4 feet (1.2 meters) (this represents a target burial depth rather than a minimum or maximum)</li> <li>• Could require up to a 50-foot (15-meter) wide construction corridor and up to a 30-foot (9-meter) wide permanent easement for Oyster Creek and BL England cable corridor excluding landfall locations and cable splice locations to accommodate space for splice vaults, joint bays, and HDD. Permanent easements are expected to be larger at splice vaults and TJB locations.</li> <li>• Up to eight export cables circuits would be required, with each cable circuit comprising up to three single cables. The cables would consist of copper or aluminum conductors wrapped with materials for insulation protection and sealing.</li> <li>• TJBs, splice vaults/grounding link boxes, and fiber optic system, including manholes</li> </ul>
<p><b>Onshore Substations and Interconnector Cable</b></p> <ul style="list-style-type: none"> <li>• Two onshore substations in proximity to existing substations with associated infrastructure</li> <li>• Each onshore substation would require a permanent site (for Oyster Creek interconnection point up to 31.5 acres and for BL England up to 13 acres), including area for the substation equipment and buildings, energy storage, and stormwater management and landscaping</li> <li>• During construction, up to an additional 3 acres would be required for temporary workspace</li> <li>• The main buildings within the substations would be up to 1,017 feet long, 492 feet wide, and 82 feet tall (310 meters long, 150 meters wide, and 25 meters tall)</li> <li>• Secondary buildings may be used to house reactive compensation, transformers, filters, a control room, and a site office. The external electrical equipment may include switchgear, busbars, transformers, high-voltage reactors, SVC/static synchronous compensator, synchronous condensers, harmonic filters, and other auxiliary equipment. Lightning protection would include up to 35 lightning masts at Oyster Creek and up to 25 masts at BL England for a total height up to 98 feet (30 meters).</li> <li>• Maximum height of overhead lines would be 115 feet (35 meters)</li> <li>• Interconnector cable to existing substation</li> </ul>

ROV = remotely operated vehicle; SVC = static VAR compensator

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**Table E-2 Maximum-Case Design Parameters for the Ocean Wind 1 Project (an "X" indicates that the parameter is relevant to an EIS resource analysis)**

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
<b>WIND FARM</b>																				
Wind farm capacity	1,100 MW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<b>WIND TURBINES</b>																				
<b>Parameters per Turbine</b>																				
Minimum lower blade tip height (feet) (relative to MLLW)	70.8		X		X		X	X		X		X		X	X	X		X		
Maximum upper blade tip height (feet) (relative to MLLW)	906		X		X		X	X		X		X		X	X	X		X		
Maximum rotor diameter (feet)	788		X		X			X		X		X		X	X	X		X		
<b>Parameters per Turbine Foundation</b>																				
Outer diameter at seabed of main tubular structure (feet)	37			X			X	X			X		X	X			X		X	
Sea surface diameter (feet)	27						X	X		X	X		X	X			X	X		
Scour protection (if required) diameter (yards)	61			X	X		X			X	X		X	X			X		X	
Scour protection (if required) layer thickness (feet)	8.2			X	X		X			X	X		X	X			X		X	
Seabed structure area per monopile (acres)	0.023			X	X		X	X		X	X		X	X			X		X	
Seabed scour protection (if required) area per monopile (acres)	0.59			X	X		X	X		X	X		X	X			X		X	
Seabed permanent area affected per monopile (acres)	0.85			X	X		X	X		X	X		X	X			X		X	
Scour protection (if required) volume per monopile (cubic yards)	7,764			X	X		X				X		X	X			X		X	
Pile structure grout volume per monopile (cubic yards)	144			X							X		X	X			X		X	
Seabed penetration (feet)	164			X			X	X		X	X		X	X			X		X	
Maximum hammer energy (kilojoules)	4,000		X	X	X		X				X		X	X			X		X	
Indicative continuous piling duration per turbine (hours)	4		X	X	X		X				X		X	X			X		X	
<b>Maximum Total Impacts for Wind Turbine Foundations</b>																				
Maximum number of turbines	98	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X
Total seabed structure area (acres)	2.3			X			X	X		X	X	X	X	X			X	X	X	
Total scour (if required) protection area (acres)	58			X	X		X			X	X		X	X			X		X	
Total permanent affected area (acres)	60.3			X	X		X	X		X	X		X	X			X	X	X	
Total scour (if required) protection volume (cubic yards)	761,000			X	X		X				X		X	X			X		X	
Total pile structure grout volume (cubic yards)	14,000			X							X		X	X			X		X	

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
<b>OFFSHORE SUBSTATIONS</b>																				
<b>Topside Offshore Substations</b>																				
Number of substations	3	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	
Length of topside main structure (feet)	230		X	X	X		X	X		X	X	X	X	X			X	X		
Width of topside main structure (feet)	230		X	X	X		X	X		X	X	X	X	X			X	X		
Length of topside main structure inclusive of ancillary structures (feet)	295		X		X		X	X		X	X	X	X	X			X	X		
Width of topside main structure inclusive of ancillary structures (feet)	295		X		X		X	X		X	X	X	X	X			X	X		
Total structure height: including ancillary structures (feet) (relative to MLLW)	296		X		X		X	X		X		X		X	X			X		
Bridge links link length (feet)	328									X		X		X				X		
<b>Substation Foundations (Parenthesis notes Maximum Scenario Foundation Type)</b>																				
Maximum number of structures	3	X	X	X	X		X	X		X	X	X	X	X	X	X	X		X	
Maximum scour protection (if required) dimension (yards)	72 (Monopile)			X	X		X				X		X	X			X		X	
Maximum structure dimension at seabed (yards)	77 (Piled Jacket)			X	X		X	X			X		X	X			X		X	
Maximum structure dimension at sea surface (yards)	77 (Piled Jacket)						X	X			X		X	X			X		X	
Number of Piles	16 (Piled Jacket)		X	X	X		X	X			X	X	X	X			X		X	
Seabed preparation area (acres)	0			X			X	X			X		X	X			X		X	
Seabed gravel bed area (acres)	0			X	X		X	X		X	X		X	X			X		X	
Seabed structure area (acres)	0.04 (Monopile)			X			X	X		X	X		X	X			X		X	
Seabed scour protection (if required) area (acres)	1 (Monopile)			X	X		X			X	X		X	X			X		X	
Seabed total permanent area (acres)	0.6 (Piled Jacket)			X	X		X	X		X	X		X	X			X		X	
Scour protection (if required) volume (cubic yards)	1,721 (Piled Jacket)			X	X		X				X		X	X			X		X	
Pile-structure grout volume (cubic yards)	222 (Piled Jacket)			X							X		X	X			X		X	
<b>Piled Jacket Foundations for Substations</b>																				
Number of legs per foundation	6		X	X	X		X	X			X		X	X			X		X	
Number of piles per foundation (4 piles per corner)	16		X	X	X		X	X			X		X	X			X		X	
Separation of adjacent legs at seabed (feet)	230			X			X				X		X	X			X			
Separation of adjacent legs at sea surface (feet)	230						X						X	X			X			
Height of platform above MLLW (feet)	131							X						X				X		
Jacket leg diameter (feet)	15			X			X	X			X		X	X			X		X	
Pin pile outer diameter at seabed (feet)	8			X			X	X			X		X	X			X		X	
Mud-mat area (square feet)	4,306			X			X	X			X		X	X			X		X	
Seabed structure area (acre)	<0.1			X	X		X	X		X	X		X	X			X		X	

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
Seabed scour protection (if required) area (acres)	0.2			X	X		X			X	X		X	X			X		X	
Seabed total permanent area (acres)	0.6			X	X		X	X		X	X		X	X			X		X	
Scour protection (if required) volume (cubic yards)	1,721			X	X		X				X		X	X			X		X	
Pile-structure grout volume (cubic yards)	222			X							X		X	X			X		X	
Embedment depth (below seabed) (feet)	230			X			X	X		X	X		X	X			X			
Maximum hammer energy (kilojoule)	2,500		X	X	X		X				X		X	X			X		X	
Maximum piling duration per foundation (days) <sup>1</sup>	15		X	X	X		X				X		X	X			X		X	
Indicative continuous piling duration per pile (hours) <sup>1</sup>	4		X	X	X		X				X		X	X			X		X	
<b>ARRAY CABLES</b>																				
Cable diameter (inches)	8			X				X			X	X	X	X	X		X		X	
Estimated total length of cable (miles)	190	X		X			X	X		X	X	X	X	X	X		X		X	
Typical voltage (kV)	66			X			X				X	X	X	X			X			
Maximum voltage (kV)	170			X			X				X	X	X	X			X			
Target burial depth (feet) (final burial depth based on CBRA)	4–6			X			X	X		X	X	X	X	X	X		X		X	
Cable separation: typical (feet)	328			X			X				X	X	X	X			X			
Offshore Cable disturbance corridor width (feet)	82			X			X	X		X	X	X	X	X	X		X		X	
<b>Maximum Total Impacts for Array Cables</b>																				
Full corridor width seabed disturbance (acres)	1,850 <sup>2</sup>			X			X	X		X	X		X	X			X		X	
Boulder clearance: seabed disturbance (acres)	2,220 <sup>3</sup>			X			X	X		X	X		X	X			X		X	
Sand wave clearance: seabed disturbance (acres)	2,220 <sup>3</sup>			X			X	X		X	X		X	X			X		X	
Sand wave clearance: material volume (cubic yards)	58,858,000 <sup>4</sup>			X			X	X			X		X	X			X		X	
Burial spoil: jetting/plowing/control flow excavation material volume (cubic yards)	2,354,000 <sup>5</sup>			X			X				X		X	X			X		X	
Percent of cable requiring protection	10%			X			X				X		X	X			X		X	
Cable protection area (acres) <sup>6</sup>	77			X			X	X		X	X		X	X			X		X	
Cable protection volume (cubic yards)	341,000			X			X				X		X	X			X		X	
Cable/pipe crossings: pre- and post-lay rock berm area (acres)	0			X			X			X	X		X	X			X		X	
Cable/pipe crossings: pre- and post-lay rock berm volume (cubic yards)	0			X			X				X		X	X			X		X	
<b>SUBSTATION INTERCONNECTOR CABLE</b>																				
Number of substation interconnector cables	2			X			X	X			X	X	X	X	X		X		X	
Estimated total length of cable (miles)	19	X		X			X	X		X	X	X	X	X	X		X		X	
Cable diameter (inches)	13			X			X	X			X	X	X	X			X			
Maximum voltage (kV)	275			X			X				X	X	X	X			X			



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Target burial depth (feet) (final burial depth dependent on CBRA and coordination with agencies)	4–6			X			X	X			X	X	X	X	X		X		X	
Cable seabed disturbance width (feet)	82			X			X	X		X	X	X	X	X	X		X		X	
<b>Maximum Total Impacts for Substation Interconnection Cables</b>																				
Total seabed disturbed: full corridor width (acres)	185 <sup>7</sup>			X			X	X		X	X		X	X			X		X	
Seabed disturbed: boulder clearance (acres)	222 <sup>8</sup>			X			X	X		X	X		X	X			X		X	
Seabed disturbed: sand wave clearance (acres)	222 <sup>8</sup>			X			X	X		X	X		X	X			X		X	
Sand wave clearance volume (cubic yards)	5,886,000 <sup>9</sup>			X			X	X			X		X	X			X		X	
Burial spoil: jetting/plowing/control flow excavation volume (cubic yards)	235,000 <sup>10</sup>			X			X				X		X	X			X		X	
Cable protection area (acres) <sup>11</sup>	8			X			X	X		X	X		X	X			X		X	
Cable protection volume (cubic yards)	34,000			X			X	X			X		X	X			X		X	
Percent of cable requiring protection	10%			X			X				X		X	X			X		X	
Cable/pipe crossing- pre- and post-lay rock berm area (acres)	0			X			X			X	X		X	X			X		X	
Cable/pipe crossing- pre- and post-lay rock berm volume (cubic yards)	0			X			X				X		X	X			X		X	
<b>OFFSHORE EXPORT CABLE</b>																				
Offshore export cable diameter (inches)	13			X				X			X		X	X			X		X	
Typical export cable voltage (kV)	275			X			X				X		X	X			X			
Cable seabed disturbance width per cable (feet)	82			X			X	X		X	X		X	X			X		X	
Target burial depth (feet)	4–6			X			X	X		X	X		X	X			X		X	
Cable weight in air (kilogram per meter)	138			X			X				X		X				X		X	
Cable weight in water (kilogram per meter)	90			X			X				X		X				X		X	
<b>Maximum Total Impacts for Offshore Export Cables</b>																				
<b>Oyster Creek</b>																				
Number of cable sections per cable	4			X							X		X	X			X			
Number of cable joints	3			X							X		X	X			X			
Offshore cables	2			X			X	X			X		X	X			X		X	
Length of offshore export cable route (miles)	72	X		X			X	X		X	X		X	X	X	X	X		X	
Length of offshore export cable (miles) (2 cables within corridor)	143	X		X			X	X			X		X	X	X	X	X		X	
Full corridor width seabed disturbance (acres)	1,430 <sup>12</sup>			X			X	X		X	X		X	X			X		X	
Boulder clearance: seabed disturbance (acres)	1,710 <sup>13</sup>			X			X	X		X	X		X	X			X		X	
Sand wave clearance: seabed disturbance (acres)	1,710 <sup>13</sup>			X			X	X		X	X		X	X			X		X	
Sand wave clearance: material volume (cubic yards)	45,124,000 <sup>14</sup>			X			X	X			X		X	X			X		X	



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Burial spoil: vertical injection material volume (cubic yards)	665,000 <sup>15</sup>			X			X				X		X	X			X		X	
Burial spoil: plowing/control flow excavation material volume (cubic yards)	1,805,000			X			X				X		X	X			X		X	
Cable protection area (acres) <sup>16</sup>	70			X	X		X	X		X	X		X	X			X		X	
Cable protection volume (cubic yards)	400,000			X	X		X	X			X		X	X			X		X	
Percent of cable requiring protection	10%			X	X		X				X		X	X			X		X	
Cable/pipe crossings: pre- and post-lay rock berm area (acres)	48			X			X			X	X		X	X			X		X	
Cable/pipe crossings: pre- and post-lay rock berm volume (cubic yards)	279,000			X			X				X		X	X			X		X	
<b>BL England</b>																				
Number of cable sections per cable	3			X							X		X	X			X			
Number of cable joints	2			X							X		X	X			X			
Offshore cables	1			X			X	X			X		X	X			X		X	
Length of offshore export cable route (miles)	32	X		X			X	X		X	X		X	X			X		X	
Length of offshore export cable (miles) (1 cable within corridor)	32	X		X			X	X			X		X	X			X		X	
Full corridor width seabed disturbance (acres)	320 <sup>12</sup>			X			X	X		X	X		X	X			X		X	
Boulder clearance: seabed disturbance (acres)	400 <sup>13</sup>			X			X	X		X	X		X	X			X		X	
Sand wave clearance: seabed disturbance (acres)	390 <sup>13</sup>			X			X	X		X	X		X	X			X		X	
Sand wave clearance: material volume (cubic yards)	10,006,000 <sup>14</sup>			X			X	X			X		X	X			X		X	
Burial spoil: vertical injection material volume (cubic yards)	148,000 <sup>15</sup>			X			X				X		X	X			X		X	
Burial spoil: plowing/control flow excavation material volume (cubic yards)	400,000			X			X				X		X	X			X		X	
Cable protection area (acres) <sup>16</sup>	16			X	X		X	X		X	X		X	X			X		X	
Cable protection volume (cubic yards)	87,000			X	X		X	X			X		X	X			X		X	
Percent of cable requiring protection	10%			X	X		X				X		X	X			X		X	
Cable/pipe crossings: pre- and post-lay rock berm area (acres)	12.6			X			X			X	X		X	X			X		X	
Cable/pipe crossings: pre- and post-lay rock berm volume (cubic yards)	75,000			X			X				X		X	X			X		X	
<b>WIND TURBINE VESSEL TRIPS</b>																				
<b>Wind Turbine Foundation Installation – Maximum Number of Simultaneous Vessels</b>																				
Scour Protection Vessel	1	X	X	X	X		X				X		X	X	X		X	X	X	
Installation Vessel	4	X	X	X	X		X				X		X	X	X		X	X	X	
Support Vessels	16	X	X	X	X		X				X		X	X	X		X	X	X	
Transport / Feeder Vessels (including tugs)	40	X	X	X	X		X				X		X	X	X		X	X	X	
- of which are anchored	2	X	X	X	X		X				X		X	X	X		X	X	X	

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
<b>Wind Turbine Foundation Installation – Maximum Number of Trips per Vessel Type</b>																				
Scour Protection Vessel	50	X	X	X	X		X				X		X	X	X		X	X	X	
Installation Vessel	99	X	X	X	X		X				X		X	X	X		X	X	X	
Support Vessels	396	X	X	X	X		X				X		X	X	X	X	X	X	X	
Transport / Feeder Vessels (including tugs)	396	X	X	X	X		X				X		X	X	X	X	X	X	X	
- of which are anchored	198	X	X	X	X		X				X		X	X	X		X	X	X	
<b>Structure Installation – Maximum Number of Simultaneous Vessels</b>																				
Installation Vessels	2	X	X	X	X		X				X		X	X	X		X	X	X	
Transport / Feeder Vessels	12	X	X	X	X		X				X		X	X	X		X	X	X	
Other Support Vessels	24	X	X	X	X		X				X		X	X	X		X	X	X	
Helicopters	2	X	X		X								X	X	X		X	X		
<b>Structure Installation – Maximum Number of Trips per Vessel Type</b>																				
Installation Vessels	99	X	X	X	X		X				X		X	X	X		X	X	X	
Transport / Feeder Vessels	99	X	X	X	X		X				X		X	X	X		X	X	X	
Other Support Vessels	594	X	X	X	X		X				X		X	X	X	X	X	X	X	
Helicopters	75	X	X		X								X	X	X		X	X		
<b>VESSELS REQUIRED FOR SUBSTATION INSTALLATION</b>																				
<b>Maximum Design Parameters</b>																				
Primary Installation Vessels	2	X	X	X	X		X				X		X	X	X		X		X	
Support Vessels	11	X	X	X	X		X				X		X	X	X		X		X	
Transport Vessels	4	X	X	X	X		X				X		X	X	X		X		X	
Helicopters per day per major vessel	2	X	X		X								X	X	X		X			
Maximum Duration (days)	67	X	X	X	X		X				X		X	X	X		X		X	
<b>Maximum Return Trips per Vessel Type</b>																				
Primary Installation Vessels	12	X	X	X	X		X				X		X	X	X		X	X	X	
Support Vessels	72	X	X	X	X		X				X		X	X	X		X	X	X	
Transport Vessels	24	X	X	X	X		X				X		X	X	X		X	X	X	
Helicopters per day per major vessel	21	X	X		X								X	X	X		X	X		
<b>VESSELS REQUIRED FOR ARRAY CABLE INSTALLATION</b>																				
<b>Maximum Number of Simultaneous Vessels</b>																				
Main Laying Vessels	3	X	X	X	X		X				X		X	X	X		X	X	X	
Main Burial Vessels	3	X	X	X	X		X				X		X	X	X		X	X	X	

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands	
Support Vessels	12	X	X	X	X		X				X		X	X	X		X	X	X		
Helicopters support: construction return trips	2	X	X		X								X	X	X		X	X			
<b>Maximum Number of Return Trips per Vessel Type</b>																					
Main Laying Vessels	99	X	X	X	X		X				X		X	X	X		X	X	X		
Main Burial Vessels	99	X	X	X	X		X				X		X	X	X		X	X	X		
Support Vessels	594	X	X	X	X		X				X		X	X	X		X	X	X		
Helicopters support: construction return trips	198	X	X		X								X	X	X		X	X			
Duration per cable section (days)	3.5	X	X	X	X		X				X		X	X	X		X	X	X		
Total Duration (months)	12	X	X	X	X		X				X		X	X	X		X	X	X		
<b>VESSELS REQUIRED FOR SUBSTATION INTERCONNECTION CABLE INSTALLATION</b>																					
<b>Maximum Number of Simultaneous Vessels</b>																					
Main Laying Vessels	Included In numbers for export and array cables	X	X	X	X		X				X		X	X	X		X	X	X		
Main Burial Vessels		X	X	X	X		X				X		X	X	X		X	X	X		
Support Vessels		X	X	X	X		X				X		X	X	X		X	X	X		
Helicopter Support: construction		X	X		X								X	X	X		X	X			
Duration: per cable (days)		X	X	X	X		X					X		X	X	X		X	X	X	
Duration: total (months)		X	X	X	X		X					X		X	X	X		X	X	X	
<b>Maximum Number of Return Trips per Vessel Type</b>																					
Main Laying Vessels	8	X	X	X	X		X				X		X	X	X		X	X	X		
Main Burial Vessels	8	X	X	X	X		X				X		X	X	X		X	X	X		
Support Vessels	12	X	X	X	X		X				X		X	X	X		X	X	X		
Helicopter Support: construction	40	X	X		X								X	X	X		X	X			
Duration: per cable (days)	20	X	X	X	X		X				X		X	X	X		X	X	X		
Duration: total (months)	1	X	X	X	X		X				X		X		X		X	X	X		
<b>VESSELS REQUIRED FOR OFFSHORE EXPORT CABLE INSTALLATION</b>																					
<b>Maximum Design Parameters</b>																					
Main Cable Laying Vessels	3	X	X	X	X		X				X		X	X	X		X	X	X		
Main Cable Jointing Vessels	3	X	X	X	X		X				X		X	X	X		X	X	X		
Main Cable Burial Vessels	3	X	X	X	X		X				X		X	X	X		X	X	X		
Support Vessels	15	X	X	X	X		X				X		X	X	X		X	X	X		
Helicopter support: construction	2	X	X		X								X	X	X		X	X			

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
<b>Maximum Number of Return Trips per Vessel Type</b>																				
Main Cable Laying Vessels	48	X	X	X	X		X				X		X	X	X		X	X	X	
Main Cable Jointing Vessels	36	X	X	X	X		X				X		X	X	X		X	X	X	
Main Cable Burial Vessels	48	X	X	X	X		X				X		X	X	X		X	X	X	
Support Vessels	72	X	X	X	X		X				X		X	X	X		X	X	X	
Helicopter support: construction	351	X	X		X					X			X	X	X	X	X	X		
Duration per cable section (days)	59	X	X	X	X		X				X		X	X	X		X	X	X	
Typical Duration (months)	6	X	X	X	X		X				X		X	X	X		X	X	X	
<b>TOTAL PROJECT OFFSHORE SURVEYS OF FOUNDATIONS, BATHYMETRY, SCOUR PROTECTION AND CABLE BURIAL</b>																				
All Offshore Facilities: Seabed Surveys: for Bathymetry, Cable Burial Depth, Scour during Project lifetime (events)	38		X	X	X		X				X		X	X			X	X	X	
<b>OFFSHORE FOUNDATION OPERATION AND MAINTENANCE ACTIVITIES</b>																				
<b>Wind Turbine Foundations</b>																				
Repainting (events)	347			X			X						X	X			X	X	X	
Cleaning (guano removal) (events)	17,325			X			X						X	X			X	X	X	
Access Ladder Replacement (events)	693			X			X						X	X			X	X		
Anode Replacement (events)	693			X			X				X		X	X			X	X		
J-tube Replacement (events)	198			X			X				X		X	X			X	X		
Concrete Crack Repairs (events)	99			X			X						X	X			X	X	X	
<b>Offshore Substations</b>																				
Repainting (events)	3			X			X				X		X	X			X	X	X	
Cleaning (guano removal) (events)	525			X			X				X		X	X			X	X	X	
Access Ladder Replacement (events)	21			X			X				X		X	X			X	X		
Anode Replacement (events)	21			X			X				X		X	X			X	X		
J-tube Replacement (events)	6			X			X				X		X	X			X	X		
<b>TOTAL WTG OPERATION AND MAINTENANCE ACTIVITIES</b>																				
WTGs: Major Component Replacement (events)	966			X			X				X		X	X			X	X	X	
<b>TOTAL PROJECT OSS OPERATION AND MAINTENANCE ACTIVITIES</b>																				
OSS: Major Faults/Component Replacements (events)	6			X			X				X		X	X			X	X	X	

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
<b>TOTAL PROJECT OFFSHORE CABLE OPERATION AND MAINTENANCE ACTIVITIES</b>																				
<b>Array Cable</b>																				
Remedial Burial for the life of the Project (miles)	13			X			X	X			X		X	X			X	X	X	
Jetting Remedial Burial: Length per event (miles)	1.24			X			X	X			X		X	X			X		X	
Jetting Remedial Burial: Width per event (feet)	328			X			X	X			X		X	X			X		X	
Jetting Remedial Burial: Seabed disturbance area (acres per event)	49.4			X			X	X			X		X	X			X		X	
Cable Faults (number of events)	6			X			X				X		X	X			X		X	
Cable Faults: Seabed disturbance area per event (acres)	4.9			X			X	X			X		X	X			X		X	
Cable Faults: Rock berm area per event (acres)	1.5			X			X				X		X	X			X		X	
Cable Faults: Rock berm volume per event (cubic yards)	8,800			X			X				X		X	X			X		X	
<b>Substation Interconnector Cables</b>																				
Remedial Burial for the life of the Project (miles)	1.9			X			X	X			X		X	X			X		X	
Jetting Remedial Burial: Length per event (miles)	1.2			X			X	X			X		X	X			X		X	
Jetting Remedial Burial: Width per event (feet)	328			X			X	X			X		X	X			X		X	
Jetting Remedial Burial: Seabed disturbance area (acres per event)	49.4			X			X	X			X		X	X			X		X	
Cable Faults (number of events)	2			X			X				X		X	X			X		X	
Cable Faults: Seabed disturbance area per event (acres)	4.9			X			X	X			X		X	X			X		X	
Cable Faults: Rock berm area per event (acres)	1.5			X			X				X		X	X			X		X	
Cable Faults: Rock berm volume per event (cubic yards)	8,800			X			X				X		X	X			X		X	
<b>Offshore Export Cables</b>																				
Jetting Remedial Burial: Length per event (miles)	1.24			X			X	X			X		X	X			X		X	
Jetting Remedial Burial: Width per event (feet)	328			X			X	X			X		X	X			X		X	
Jetting Remedial Burial: Seabed disturbance area (acres per event)	49.4			X			X	X			X		X	X			X		X	
Cable Faults: Seabed disturbance area per event (acres)	4.9			X			X	X			X		X	X			X		X	
Cable Faults: Rock berm area per event (acres)	1.5			X			X				X		X	X			X		X	
Cable Faults: Rock berm volume per event (cubic yards)	8,800			X			X				X		X	X			X		X	
<b>Oyster Creek Export Cables</b>																				
Remedial Burial for the life of the Project (miles)	3.1			X			X	X			X		X	X			X		X	
Cable Faults (number of events)	13			X			X				X		X	X			X		X	
<b>BL England Export Cables</b>																				
Remedial Burial for the life of the Project (miles)	1.2			X			X	X			X		X	X			X		X	
Cable Faults (number of events)	3			X			X				X		X	X			X		X	

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
<b>OFFSHORE OPERATION AND MAINTENANCE VESSEL SUMMARY OF MAXIMUM ANNUAL VISITS</b>																				
Helicopter, crew transfer vessels, or service operation vessels	2,278	X	X	X	X		X				X		X	X	X	X	X	X	X	
Jack-Up Vessels	102	X	X	X	X		X				X		X	X	X	X	X	X	X	
Crew Vessels	908	X	X	X	X		X				X		X	X	X	X	X	X	X	
Supply Vessels	104	X	X	X	X		X				X		X	X	X	X	X	X	X	
<b>OPERATIONS JACK-UP AND ANCHORED VESSEL PARAMETERS</b>																				
Number of jack-up vessel legs	6			X			X				X		X	X			X		X	
Area of each leg base at the seabed (square feet)	1,830			X			X				X		X	X			X		X	
Anchored vessel: anchor dimensions (feet)	32.8 x 32.8			X			X				X		X	X			X		X	
Anchored vessel: number of anchors per vessel	8			X			X				X		X	X			X		X	
<b>ONSHORE EXPORT CABLE PARAMETERS</b>																				
Type of cable	XLPE, FF Copper, and Aluminum											X								
Diameter of cable (inches)	8					X		X				X								
Diameter of cable ducts (inches)	13					X		X				X								
Maximum voltage (kV)	275					X						X								
Target burial depth (feet)	4 <sup>17</sup>					X		X				X								
<b>Oyster Creek Construction Areas and Volumes</b>																				
Length of onshore cable route (miles)	5.3	X	X		X	X		X		X		X						X	X	X
Cable trenches	2					X		X				X						X	X	X
Total onshore cables	6		X		X	X		X				X						X	X	X
Corridor width: permanent (feet)	30		X		X	X		X				X						X	X	X
Corridor width: temporary and permanent used for construction (feet)	50		X		X	X		X				X						X	X	X
Corridor area: permanent (acres)	9		X		X	X		X				X			X	X		X	X	X
Corridor area: temporary and permanent used for construction (acres)	32	X	X		X	X		X		X		X			X	X		X	X	X
Number of joint bays and splice vaults/grounding link boxes	34					X		X				X						X	X	X
Joint bays total area (acres)	2		X		X	X		X				X							X	X
Joint bays spoil volume per pit (cubic yards)	3,000					X						X							X	X
Joint bays spoil total volume (cubic yards)	97,200					X						X							X	X
Link bays total area (acres)	0.03		X		X	X		X				X							X	X
Link bays spoil volume per pit (cubic yards)	9					X						X							X	X
Link bays spoil total volume (cubic yards)	311					X						X							X	X



Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
Utility bridge length (feet)	200					X		X				X						X		
Utility bridge height and width (feet)	10					X		X				X						X		
<b>BL England Construction Areas and Volumes</b>																				
Length of onshore cable route (miles) <sup>18</sup>	8	X	X		X	X		X	X	X		X			X	X			X	X
Cable trenches	1					X		X	X			X			X	X		X	X	X
Total onshore cables	3		X		X	X		X				X						X	X	X
Corridor width: permanent (feet)	30		X		X	X		X				X						X	X	X
Corridor width: temporary and permanent used for construction (feet)	50		X		X	X		X	X	X		X			X	X		X	X	X
Corridor area: permanent (acres) <sup>18</sup>	29		X		X	X		X		X		X							X	X
Corridor area: temporary and permanent used for construction (acres) <sup>18</sup>	48	X	X		X	X		X	X	X		X			X	X			X	X
Number of joint bays and splice vaults/grounding link boxes <sup>18</sup>	26					X						X						X	X	X
Joint bays total area (acres) <sup>18</sup>	1.5		X		X	X		X				X							X	X
Joint bays spoil volume per pit (cubic yards)	3,000					X						X							X	X
Joint bays spoil total volume (cubic yards) <sup>18</sup>	19,000					X						X							X	X
Link bays total area (acres) <sup>18</sup>	0.02		X		X	X		X				X							X	X
Link bays spoil volume per pit (cubic yards)	9					X						X							X	X
Link bays spoil total volume (cubic yards)	55					X						X							X	X
<b>ONSHORE SUBSTATION PARAMETERS</b>																				
<b>Oyster Creek</b>																				
Permanent site area (acres)	31.5	X	X		X	X		X	X	X		X			X	X		X	X	X
Temporary construction workspace (acres)	2	X	X		X	X		X	X	X		X			X	X		X	X	X
Main building length (feet)	1,017		X		X	X		X		X		X						X		
Main building width (feet)	492		X		X	X		X		X		X						X		
Main building area (acres)	11.5		X		X	X		X		X		X							X	X
Main building height (feet)	82		X		X			X		X		X						X		
Maximum secondary building(s) length (feet)	105		X		X	X		X		X		X						X		
Maximum secondary building(s) width (feet)	105		X		X	X		X		X		X						X		
Secondary building(s) height (feet)	33		X		X			X		X		X						X		
Fire-wall height (feet)	82		X		X			X		X		X								
Number of lightning masts	35		X		X	X		X		X		X						X		
Lightning protection height (feet)	98		X		X			X		X		X						X		
Power mast infrastructure height (feet)	115		X		X			X		X		X						X		



Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
Transformer height (feet) <sup>19</sup>	46		X		X			X		X		X						X		
High-voltage reactor height (feet) <sup>19</sup>	46		X		X			X		X		X						X		
SVC/Statcom height (feet) <sup>19</sup>	39		X		X			X		X		X						X		
Harmonic filter height (feet) <sup>19</sup>	49		X		X			X		X		X						X		
Bus duct height (feet) <sup>19</sup>	49		X		X			X		X		X						X		
Other auxiliary equipment height (feet) <sup>19</sup>	33		X		X			X		X		X						X		
<b>BL England</b>																				
Permanent site area (acres)	13	X	X		X	X		X	X	X		X			X	X			X	X
Temporary construction workspace (acres)	3	X	X		X	X		X	X	X		X			X	X			X	X
Main building length (feet)	656		X		X	X		X		X		X						X		
Main building width (feet)	525		X		X	X		X		X		X						X		
Main building area (acres)	7.9		X		X	X		X		X		X							X	X
Main building height (feet)	82		X		X			X		X		X						X		
Maximum secondary building(s) length (feet)	154		X		X	X		X		X		X						X		
Maximum secondary building(s) width (feet)	105		X		X	X		X		X		X						X		
Secondary building(s) height (feet)	33		X		X			X		X		X						X		
Fire-wall height (feet)	82		X		X			X		X		X								
Number of lightning masts	25		X		X	X		X		X		X						X		
Lightning protection height (feet)	98		X		X			X		X		X						X		
Power mast infrastructure height (feet)	115		X		X			X		X		X						X		
Transformer height (feet) <sup>19</sup>	46		X		X			X		X		X						X		
High-voltage reactor height (feet) <sup>19</sup>	46		X		X			X		X		X						X		
SVC/Statcom height (feet) <sup>19</sup>	39		X		X			X		X		X						X		
Harmonic filter height (feet) <sup>19</sup>	49		X		X			X		X		X						X		
Bus duct height (feet) <sup>19</sup>	49		X		X			X		X		X						X		
Other auxiliary equipment height (feet) <sup>19</sup>	35		X		X			X		X		X						X		
<b>UNDERGROUND AND OVERHEAD TRANSMISSION LINE PARAMETERS</b>																				
<b>Underground Option</b>																				
Maximum trench depth (feet)	10.25		X		X	X		X	X	X		X				X			X	X
Average trench width (feet)	4.25		X		X	X		X	X	X		X				X		X	X	X
Maximum temporary work space, offset from centerline on each side (feet)	30		X		X	X		X	X	X		X				X		X	X	X

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
<b>Oyster Creek</b>																				
Maximum length of onshore interconnection cable (miles)	0.5	X	X		X	X		X	X	X		X			X	X			X	X
Number of splice vaults/grounding link boxes associated with interconnection cable	2		X		X			X		X		X				X		X		X
Number of poles	1		X		X			X		X		X				X		X		
Maximum pole height (feet)	117		X		X			X		X		X				X		X		
<b>BL England</b>																				
Maximum length of onshore interconnection cable (miles)	0.5	X	X		X	X		X	X	X		X			X	X			X	X
Number of splice vaults/grounding link boxes associated with interconnection cable	2		X		X			X		X		X				X		X		X
Number of poles	1		X		X			X		X		X				X		X		
Maximum pole height (feet)	117		X		X			X		X		X				X		X		
<b>Overhead Option</b>																				
<b>Oyster Creek</b>																				
Maximum Length of onshore interconnection cable route (miles)	0.5	X	X		X	X		X	X	X		X			X	X			X	X
Number of poles	6		X		X	X		X		X		X						X	X	X
Maximum pole height (feet)	115		X		X			X		X		X				X		X		
<b>BL England</b>																				
Maximum Length of onshore interconnection cable route (miles)	0.5	X	X		X	X		X	X	X		X			X	X			X	X
Number of poles	6		X		X	X		X		X		X						X	X	X
Maximum pole height (feet)	115		X		X			X		X		X				X		X		
<b>LANDFALL PARAMETERS</b>																				
Landfall type	Open cut or trenchless technology			X		X			X	X		X			X	X		X	X	X
HDD noise (decibels) <sup>20</sup>	120		X		X	X			X	X		X				X				
Number of personnel	60		X		X	X			X	X		X							X	
Daily vehicle movements (non-HGV)	10	X	X		X	X				X		X						X		
Daily vehicle movements (HGV)	5	X	X		X	X				X		X						X		
Inadvertent return contingency vehicles	4		X		X	X				X		X								
HDD exit pit depth (feet)	15					X		X				X								
HDD exit pit (acres)	0.4 (164 feet x 98 feet)					X		X				X							X	X
HDD onshore workspace (acres)	15		X		X	X		X				X							X	X
TJB depth (feet)	20					X		X				X						X		

Design Parameter	Maximum Design Parameters	3.4 Air Quality	3.5 Bats	3.6 Benthic Resources	3.7 Birds	3.8 Coastal Habitat and Fauna	3.9 Commercial Fisheries and For-Hire Recreational Fishing	3.10 Cultural Resources	3.11 Demographics, Employment, and Economics	3.12 Environmental Justice	3.13 Finfish, Invertebrates, and Essential Fish Habitat	3.14 Land Use and Coastal Infrastructure	3.15 Marine Mammals	3.16 Navigation and Vessel Traffic	3.17 Other Uses (Marine Minerals, Military Use, Aviation)	3.18 Recreation and Tourism	3.19 Sea Turtles	3.20 Scenic and Visual Resources	3.21 Water Quality	3.22 Wetlands
TJB area (acres)	0.06 (33 feet x 82 feet)					X		X				X							X	X
TJB workspace (acres)	0.4 (131 feet x 131 feet)		X		X	X		X				X							X	X
<b>Oyster Creek</b>																				
Number of TJBs	8					X		X				X						X	X	X
Landfall width (feet)	262					X		X				X						X	X	X
<b>BL England</b>																				
Number of TJBs	3					X	X	X				X						X	X	X
Landfall width (feet)	131					X	X	X				X						X	X	X

<sup>1</sup> The 15 days is inclusive of activities (i.e., mobilization, clearance times, demobilization) and not just pile driving. The indicative piling duration per pile is 4 hours. The maximum active piling duration per foundation would be up to 64 hours (16 piles per foundation x 4 hours per pile) spread over up to 15 days.

<sup>2</sup> Assumes 82-foot-wide corridor disturbed.

<sup>3</sup> Assumes 98-foot-wide corridor and 100% of route affected.

<sup>4</sup> Assumes 98-foot-wide corridor, 17-foot average height, and 100% of route affected.

<sup>5</sup> Assumes 95% with shallow burial depth (4 to 6 feet) and 5% with deep burial (33 feet).

<sup>6</sup> Could be rock, mattress, frond mattress, rock bags, or seabed spacers as described in Section 2.1.2.2.3, *Offshore and Nearshore Activities and Facilities*, of the Draft EIS.

<sup>7</sup> Assumes 82-foot-wide corridor disturbed.

<sup>8</sup> Assumes 98-foot-wide corridor and 100% of route affected.

<sup>9</sup> Assumes 98-foot-wide corridor, 17-foot average height, and 100% of route affected.

<sup>10</sup> Assumes 95% with shallow burial depth (4 to 6 feet) and 5% with deep burial (33 feet).

<sup>11</sup> Could be rock, mattress, frond mattress, rock bags, or seabed spacers as described in Section 2.1.2.2.3, *Offshore and Nearshore Activities and Facilities*, of the Draft EIS.

<sup>12</sup> Assumes 82-foot-wide corridor disturbed.

<sup>13</sup> Assumes 98-foot-wide corridor and 100% of route affected.

<sup>14</sup> Assumes 98-foot-wide corridor, 17-foot average height, and 100% of route affected.

<sup>15</sup> Assumes 95% with shallow burial depth (4–6 feet) and 5% with deep burial (33 feet).

<sup>16</sup> Could be rock, mattress, frond mattress, rock bags, or seabed spacers as described in Section 2.1.2.2.3, *Offshore and Nearshore Activities and Facilities*, of the Draft EIS.

<sup>17</sup> Burial depth is target burial rather than maximum burial depth.

<sup>18</sup> Increases reflected for identified parameters are related to removal of the Great Egg Harbor Bay inshore route, with a subsequent use of West Avenue for the eastern two landfall options.

<sup>19</sup> Where located in the open.

<sup>20</sup> Depends on rig spread to be used, phase of drilling, ground conditions, ancillary equipment, etc.

FF = foundation fieldbus; HGV = heavy goods vehicle; Statcom = statis synchronous compensator; SVC = static VAR compensator; XLPE = cross-linked polyethylene