

APPENDIX B

List of Preparers and Reviewers, References Cited, and Glossary

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LIST OF PREPARERS AND REVIEWERS

Table B-1. Bureau of Ocean Energy Management Contributors

Name	Role/Resource Area
National Environmental Policy Act (NEPA) Coordinator	
Olivier, Trevis	NEPA coordinator
Segarra, Katherine	NEPA coordinator
Wolfson, Laura Lee	NEPA coordinator
Resource Scientists and Contributors	
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Bedard, Justin	Cultural resources; government-to-government consultation
Bhandari, Doleswar	Socioeconomics
Bigger, David	Birds; bats; coastal habitats; terrestrial and coastal fauna; wetlands; USFWS Endangered Species Act (ESA) consultation
Caporaso, Alicia	Benthic resources
Carrier, Brandi	Project coordinator
Chaiken, Emma	Commercial fisheries, economics, and for-hire recreational fishing
Chaky, Sindy	Land use and coastal resources
Charpentier, Nicole	Coastal Zone management Act coordinator
Conrad, Alexander	Marine acoustics and sound exposure
Cornelison, Meghan	Environmental justice
Damour, Melanie	Navigation and vessel traffic; visual resources
de Zeeuw, Maureen	Birds; bats; coastal habitats
Glenn, Tre	Marine mammals; sea turtles; birds; bats; National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) ESA consultation
Hauer, Whitney	Project coordinator
Heinze, Martin	Demographics, employment, and economics
Hesse, Jeffrey T.	Military uses
Houghton, Bonnie	Military uses
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Johnson, Stacey	NEPA compliance
Jones, Douglas	Cultural resources; government-to government consultations
Lilley, Meredith	Project coordinator
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Name	Role/Resource Area
McCarty, John	Recreation and tourism; visual resources
Merritt, Stacie	Air quality
Miller, Jennifer	Alternatives, geophysical, cable burial and routing
Morin, Michelle	Chief, Environment Branch for Renewable Energy; NEPA compliance
Moshier, Marissa	Cultural resources, Section 106 consultations
Nord, Beth	Marine mammals; sea turtles
Oliver, Liz	Tribal liaison
Ren, Cholena	Air quality
Reuther, Dustin	Environmental justice, land use, recreation and tourism
Schiff, John	Water quality
Slayton, Ian	Cumulative impacts; air quality
Sorset, Scott	Cultural resources
Stokely, Sarah	Cultural resources; Section 106 consultations
Steen, Mariana	Benthic resources; invertebrates; finfish and essential fish habitat; NOAA NMFS EFH consultation
Stromberg, Jessica	Project coordinator and chief, Environment Branch for Renewable Energy; NEPA compliance
Sullivan, Kimberly	Environmental justice
Vaughn, Sarah	Water quality
White, Timothy	Birds; bats
Wisman, Jeri	Birds; bats; terrestrial and coastal fauna; wetlands; USFWS ESA consultation
Wolf, Jacob	Air quality

Table B-2. Reviewers

Name	Title	Agency
Brown, William	Chief Environmental Officer	U.S. Bureau of Ocean Energy Management (BOEM)
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Name	Title	Agency
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Desautels, Michele	District 1 Agency Point of Contact	USCG

Table B-3. Consultants

Name	Role/Resource Area
Project Management/Coordinators	

Name	Role/Resource Area
Fluder, Joseph; SWCA	Corporate sponsor
Kloepfer, Robert; SWCA	Project sponsor
Hartmann, Christine; SWCA	Project manager; all sections
Wilmot, Susan; SWCA	Deputy project manager; all sections
Smith, Earl; SWCA	Geographic information systems
Diais, Madeline; SWCA	Administrative record, executive summary, appendices
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Bockey, Chris; SWCA	Visual resources
Bush, Diane; SWCA	Editor
Clapsaddle, Madison; SWCA	Appendices
Cziesla, Chris; Confluence	Marine mammals, sea turtles
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Douglas, Calvin; Confluence	EFH/finfish
Faulkner, Geneva; Confluence	Land use and coastal infrastructure; other marine uses
Fisher, Michael; Northern Economics, Inc. (NEI)	Navigation and vessel traffic
Giblin, Kara; SWCA	Wetlands and non-tidal waters
Gilmer, Anna; SWCA	Cultural resources
Guest, Joanna; SWCA	Air quality
Hartley, Marcus; NEI	Commercial fisheries and for-hire recreational fishing; Demographics, employment, and economics
Himmelstein, Ashley; R. Christopher Goodwin & Associates (RCGA)	Cultural resources—marine archaeology
Hogel, Adrian; SWCA	Bats; birds; coastal habitats and fauna; wetlands and non-tidal waters
Huyhn, Alexis; Confluence	EFH/finfish, GIS support
Klewicki, Laura; SWCA	Water quality
Linehan, Kerri; SWCA	Editor
Maymon, Jeffrey; RCGA	Cultural resources—marine archaeology
McDonald, Kelly; Confluence	Marine mammals; GIS support
Medeiros, Melanie; SWCA	Cultural resources

Name	Role/Resource Area
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Novak, Grant; Confluence	Benthic resources; invertebrates; EFH/finfish; marine mammals; sea turtles; other (marine) uses; land use and coastal infrastructure
Phillips, Scott; SWCA	Cultural resources—terrestrial resources, terrestrial archaeology, historic architecture, viewshed resources; tribal consultation
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Wheeler, Letitia; Confluence	Land use and coastal infrastructure; other marine uses
Wilmot, Sue; SWCA	Recreation and tourism; water quality
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GLOSSARY

Term	Definition
affected environment	Environment as it exists today that could be impacted by the proposed Project
ancient submerged landform feature	A landform as it was in ancient times
algal blooms	Rapid growth of the population of algae, also known as algae bloom
allision	A moving ship running into a stationary ship
anthropogenic	Generated by human activity
applicant	Revolution Wind, LLC
archaeological resource	Historical place, site, building, shipwreck, or other archaeological site on the American landscape
automatic identification system	Automatic tracking system used on vessels to monitor ship movements and avoid collision
baleen whale	A cetacean with baleens (whalebones) instead of teeth
below grade	Below ground level
benthic	Related to the bottom of a body of water
benthic resources	The seafloor surface, the substrate itself, and the communities of bottom-dwelling organisms that live within these habitats
Cetacea	Order of aquatic mammals made up of whales, dolphins, porpoises, and related lifeforms
coastal habitat	Coastal areas where flora and fauna live, including salt marshes and aquatic habitats
coastal waters	Waters in nearshore areas where bottom depth is less than 98.4 feet
coastal zone	The lands and waters starting at 3 nautical miles from the land and ending at the first major land transportation route
cofferdam	A watertight enclosure pumped dry to permit construction work below the waterline
commercial fisheries	Areas or entities raising and/or catching fish for commercial profit
commercial-scale wind energy facility	Wind energy facility usually greater than 1 megawatt that sells the produced electricity
criteria pollutant	One of six common air pollutants for which the U.S. Environmental Protection Agency sets National Ambient Air Quality Standards: carbon monoxide, lead, nitrogen dioxide, ozone, particulate matter, or sulfur dioxide
critical habitat	Geographic area containing features essential to the conservation of threatened or endangered species. This is a specific term and designation within the U.S. Endangered Species Act.
cultural resource	Historical districts, objects, places, sites, buildings, shipwrecks, and archeological sites on the American landscape, as well as sites of traditional, religious, or cultural significance to cultural groups, including Native American tribes

Term	Definition
cumulative impacts	Impacts that could result from the incremental impact of a specific action, such as the proposed Project, when combined with other past, present, or reasonably foreseeable future actions or other projects; can occur from individually minor, but collectively significant actions that take place over time
demersal	Living close to the ocean floor
design envelope	The range of proposed Project characteristics defined by the applicant and used by the Bureau of Ocean Energy Management (BOEM) for purposes of environmental review and permitting
dredging	Removal of sediments and debris from the bottom of lakes, rivers, harbors, and other water bodies
duct bank	Underground structure that houses the onshore export cables, which consists of polyvinyl chloride (PVC) pipes encased in concrete
ecosystem	Community of interacting living organisms and nonliving components (such as air, water, soil)
environmental protection measure (EPM)	Measure proposed in a COP to avoid or minimize potential impacts
electromagnetic field	A field of force produced by electrically charged objects and containing both electric and magnetic components
endangered species	A species that is in danger of extinction in all or a significant portion of its range
Endangered Species Act–listed species	Species listed under the Endangered Species Act
ensonified	The process of filling with sound
environmental consequences	The potential impacts that the construction, operations, maintenance, and decommissioning of the proposed Project would have on the environment
environmental justice communities	Minority and low-income populations affected by the proposed Project
essential fish habitat	“Those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity” (50 Code of Federal Regulations 600)
export cables	Cables connecting the wind facility to the onshore electrical grid power
finfish	Vertebrate and cartilaginous fishery species, not including crustaceans, cephalopods, or other mollusks
for-hire commercial fishing	Commercial fishing on a for-hire vessel, i.e. a vessel on which the passengers make a contribution to a person having an interest in the vessel in exchange for carriage
for-hire recreational fishing	Fishing from a vessel carrying a passenger for hire who is engaged in recreational fishing

Term	Definition
foundation	The bases to which the wind turbine generators and offshore substation are installed on the seabed. Five alternative foundation designs were considered and reviewed for the Project (Section 2.2.2.2 of the COP): monopile; piled three-, four-, or six-legged jacket; suction caisson jackets; monopod suction caisson; or gravity-based structure. Monopile is the selected foundation type for the Project.
hard-bottom habitat	Benthic habitats comprised of hard-bottom (e.g., cobble, rock, and ledge) substrates
historic property	Prehistoric or historic district, site, building, structure, or object that is eligible for or already listed in the National Register of Historic Places. Also includes any artifacts, records, and remains (surface or subsurface) related to and located within such a resource
horizontal directional drilling	Trenchless technique for installing underground cables, pipes, and conduits using a surface-launched drilling rig
hull	Watertight frame or body of a ship
inter-array cables	Cables connecting the wind turbine generators to the offshore substations
interconnection facility	Substation connecting the proposed Project to the existing bulk power grid system
invertebrate	Animal with no backbone
jack-up vessel	Mobile and self-elevating platform with buoyant hull
jet plow	Method of submarine cable installation equipment that primarily uses water jets to fluidize soil, temporarily opening a channel to enable the cable to be lowered under its own weight or be pushed to the bottom of the trench via a cable depressor.
knot	Unit of speed equaling 1 nautical mile per hour
landing site	The shoreline landing site at which the offshore cable transitions to onshore
Lease Area	The entire area that Revolution Wind, LLC purchased from BOEM. The RWF must be within the Lease Area.
marine mammal	Aquatic vertebrate distinguished by the presence of mammary glands, hair, three middle ear bones, and a neocortex (a region of the brain)
marine waters	Waters in offshore areas where bottom depth is more than 98.4 feet
mechanical cutter	Method of submarine cable installation equipment that involves a cutting wheel or excavation chain to cut a narrow trench into the seabed allowing the cable to sink under its own weight or be pushed to the bottom of the trench via a cable depressor.
mechanical plow	Method of submarine cable installation equipment that involves pulling a plow along the cable route to lay and bury the cable. The plow's share cuts into the soil, opening a temporary trench which is held open by the side walls of the share, while the cable is lowered to the base of the trench via a depressor. Some plows may use additional jets to fluidize the soil in front of the share.
monopile or monopile foundation	A long steel tube driven into the seabed that supports a tower

Term	Definition
National Ambient Air Quality Standards	Limits on atmospheric concentration of six criteria pollutants that are common in outdoor air and considered harmful to public health and the environment as established by the U.S. Environmental Protection Agency under authority of the Clean Air Act.
nautical mile	A unit used to measure sea distances and equivalent to approximately 1.15 miles
offshore Revolution Wind Export Cable	Export cables located in state or federal waters
offshore substation	The interconnection point between the wind turbine generators and the export cable; the necessary electrical equipment needed to connect the inter-array cables to the offshore export cables
onshore transmission cable	Export cables located on land
operations and maintenance facilities	Would include offices, control rooms, warehouses, shop space, and pier space
outer continental shelf	All submerged land, subsoil, and seabed belonging to the United States but outside of states' jurisdiction
pile	A type of foundation akin to a pole
pile driving	Installing foundation piles by driving them into the seafloor
pinnipeds	Carnivorous, semiaquatic, fin-footed marine mammals, also known as seals
plume	Column of fluid moving through another fluid
private aids to navigation	Visual references operated and maintained by the U.S. Coast Guard, including radar transponders, lights, sound signals, buoys, and lighthouses, that support safe maritime navigation
Project	The siting and development of the Revolution Wind Farm and the Revolution Wind Export Cable
protected species	Endangered or threatened species that receive federal protection under the Endangered Species Act of 1973 (as amended)
right-of-way	Registered easement on private or government land that allows access by another entity. For purposes of renewable energy development of the Outer Continental Shelf (OCS), BOEM defines a right-of-way grant as an authorization issued by BOEM under 30 CFR 585 Subpart B to use a portion of the OCS for the construction and use of a cable or pipeline for the purpose of gathering, transmitting, distributing, or otherwise transporting electricity or other energy product generated or produced from renewable energy but does not constitute a project easement under Subpart B. The term also means the area covered by the authorization.
ruderal	Growing on waste ground or among refuse
scour protection	Protection consisting of rock and stone that would be placed around all foundations to stabilize the seabed near the foundations as well as the foundations themselves
sessile	Attached directly by the base

Term	Definition
soft-bottom habitat	Benthic habitats include soft-bottom (i.e., unconsolidated sediments) and hard-bottom (e.g., cobble, rock, and ledge) substrates, as well as biogenic habitat (e.g., eelgrass, mussel beds, and worm tubes) created by structure-forming species
Revolution Wind Farm (RWF)	The work area containing all proposed wind turbine generators, offshore substations, and inter-array cables
substrate	Earthy material at the bottom of a marine habitat; the natural environment that an organism lives in
suspended sediments	Very fine soil particles that remain in suspension in water for a considerable period of time without contact with the bottom. Such material remains in suspension due to the upward components of turbulence and currents, and/or by suspension.
threatened species	A species that is likely to become endangered within the foreseeable future
tidal energy project	Project related to the conversion of the energy of tides into usable energy, usually electricity
transition vault	Underground concrete transition vault that to be constructed at the landing site and inside of which offshore and shore South Fork Export Cable would be spliced together.
trawl	A large fishing net dragged by a vessel at the bottom or in the middle of sea or lake water
turbidity	A measure of water clarity
vibracore	Technology/technique for collecting core samples of underwater sediments and wetland soils
viewshed	Area visible from a specific location
visual resource	The visible physical features on a landscape, including natural elements such as topography, landforms, water, vegetation, and manmade structures
wetland	Land saturated with water; marshes; swamps
wind energy	Electricity from naturally occurring wind
wind energy area	Areas with significant wind energy potential and defined by BOEM
wind turbine generator	Component that puts out electricity in a structure that converts kinetic energy from wind into electricity