

**Mitigation Action Plan  
for the  
Port Angeles-Juan de Fuca Transmission Project**

Mitigation Measure	Responsible Party	Time of Implementation
<b>Water Resources</b>		
<ul style="list-style-type: none"> <li>• Institute control measures on the cable vessel to prevent the potential risk of an accidental release of any hazardous materials. (Mitigation measure also listed in Marine Habitat and Wildlife Section.)</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>• Use oil-adsorbent materials, maintained on the construction vessels, in the event of a petroleum product spill on the deck and/or if any sheen is observed in the water. (Mitigation measure also listed in Marine Habitat and Wildlife Section.)</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>• Use the following measures to lessen impacts of HDD:               <ul style="list-style-type: none"> <li>➢ Determine the optimal HDD trajectory to minimize the chance of bedrock or soil fractures using a geotechnical evaluation of the geologic formations to be drilled.</li> <li>➢ Install a casing through near surface formations susceptible to fracturing (e.g., highly permeable unconsolidated materials) during drilling to seal off permeable formations.</li> <li>➢ Monitor losses of drilling mud. If a loss of drilling mud volume or pressure is detected, slow drilling to assess whether a fracture to the surface may have occurred.</li> <li>➢ Visually monitor the ground surface and surface waters to facilitate quick identification and response to a fracture.</li> <li>➢ If a fracture occurs, decrease amount of drilling muds lost by, for example, increasing the viscosity of the drilling mud to seal fractures and stabilize the borehole.</li> <li>➢ Contain any release of drilling mud onto the ground surface using BMPs (which could include the use of silt fences, sand bags, straw bales, or booms) to reduce the possibility of muds reaching surface waters.</li> <li>➢ Contain any potential drilling mud releases to Ennis Creek or Port Angeles Harbor above the high tide line with sand bags, and collect for disposal.</li> <li>➢ Use a forward-reaming drilling method, if practicable, to reduce volumes of drilling mud and drill cutting discharges.</li> <li>➢ Flush the drilling mud and cuttings from the borehole, if practicable, prior to the final drill out during a forward-reaming process.</li> <li>➢ Excavate a containment area at the HDD hole end point to collect and contain drilling muds and cuttings.</li> </ul> </li> </ul>	Sea Breeze	During design and construction
<ul style="list-style-type: none"> <li>• Follow all mitigation measures required by the Department of Ecology for water quality and contaminated sediments. Measures could include pre-construction sediment sampling near the HDD hole end point and cable trench in the Harbor, sediment dispersion modeling, sediment monitoring to ensure turbidity levels are not raised more than 5 NTU above background levels, and sediment control measures. (Mitigation measure also listed in Geology and Soils Section.)</li> </ul>	Sea Breeze (in consultation with Department of Ecology)	Prior to and during construction

Mitigation Measure	Responsible Party	Time of Implementation
<ul style="list-style-type: none"> <li>Develop and implement a Spill Prevention, Control and Countermeasure Plan to minimize the potential for spills of fuels, oils, or other potentially hazardous materials to reach the shallow perched groundwater or surface water bodies.</li> </ul>	Sea Breeze BPA	Prior to and during construction
<ul style="list-style-type: none"> <li>Develop a dewatering plan for trenching activities in consultation with the City of Port Angeles. (Mitigation measure also listed in Terrestrial Fish and Wildlife Section.)</li> </ul>	Sea Breeze (in consultation with City of Port Angeles)	Prior to and during construction
<ul style="list-style-type: none"> <li>Keep vehicles and equipment in good working order to prevent oil and fuel leaks.</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Limit site disturbance to the minimum area necessary to complete construction activities to the extent practicable. (Mitigation measure also listed in Geology and Soils Section.)</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) to lessen soil erosion and improve water quality of stormwater run-off. (Mitigation measure also listed in Geology and Soils Section.)</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>For the SWPPP, use management practices contained in the most current addition of the Storm Water Management Manual for Western Washington found at <a href="http://www.ecy.wa.gov/programs/wq/stormwater/manual.html">http://www.ecy.wa.gov/programs/wq/stormwater/manual.html</a> (e.g., use silt fences, straw bales, interceptor trenches, or other perimeter sediment management devices, placing prior to the onset of the rainy season and monitoring and maintaining until disturbed areas have stabilized). (Mitigation measure also listed in Geology and Soils Section.)</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>If needed, develop temporary retention pond (a vegetated swale, a shallow excavation, or a combination of detaining systems) to contain turbid stormwater during construction at Port Angeles Substation. (Mitigation measure also listed in Geology and Soils Section.)</li> </ul>	BPA	Prior to and during construction
<ul style="list-style-type: none"> <li>Seed or plant exposed areas as soon as practicable after construction, or as called for by permit, at the converter station site and Port Angeles Substation to reduce the potential for short and long-term erosion. (Mitigation measure also listed in Vegetation and Wetlands, Geology and Soils, and Air Quality sections.)</li> </ul>	Sea Breeze BPA	After construction
<ul style="list-style-type: none"> <li>Provide appropriate long-term stormwater detention or control facilities at the converter station site as required by the City of Port Angeles. (Mitigation measure also listed in Terrestrial Fish and Wildlife Section.)</li> </ul>	Sea Breeze (in consultation with City of Port Angeles)	During design
<b>Vegetation and Wetlands</b>		
<ul style="list-style-type: none"> <li>Conduct pre- and post- construction eel grass/macro algae surveys in project impact area (HDD hole end point and cable corridor) two weeks prior and two weeks following cable installation. If a determination is made, in consultation with NMFS, that the macroalgae community is not likely to recover within one year, develop a plan to mitigate the effects. The plan may include annual monitoring for up to three years. Should the density of macroalgae in the disturbed area not recover to at least 80 percent of parallel reference transects after one year, take additional</li> </ul>	Sea Breeze (in consultation with Washington Department of Fish and Wildlife and NMFS)	2 weeks pre- and 2 weeks post-construction and at Year 1 and Year 2 following construction

Mitigation Measure	Responsible Party	Time of Implementation
mitigation measures. Potential measures include placing appropriate material such as rocks or quarry spalls to enhance macroalgae attachment, and additional monitoring to document effectiveness. (Mitigation measure also listed in Marine Habitat and Wildlife Section.)		
<ul style="list-style-type: none"> <li>Cut or crush vegetation, rather than blade, in areas that will remain vegetated in order to maximize the ability of plants to resprout. (Mitigation measure also listed in Geology and Soils Section.)</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Seed or plant exposed areas as soon as practicable after construction, or as called for by permit, at the converter station site and Port Angeles Substation to limit the potential for colonization by noxious weeds. (Mitigation measure also listed in Water Resources, Geology and Soils, and Air Quality sections.)</li> </ul>	Sea Breeze BPA	After construction
<b>Marine Habitat and Wildlife</b>		
<ul style="list-style-type: none"> <li>Monitor the beach within 100 feet (30.5 m) of the route for concentrations of crab and urchins, under the supervision of a qualified biologist over a two-week period prior to installation for any work occurring between February and September. If the survey identifies an unexpectedly high concentration of these priority species that would be directly impacted by the project, then determine additional mitigation requirements in consultation with WDFW.</li> </ul>	Sea Breeze (in consultation with Washington Department of Fish and Wildlife)	Prior to construction
<ul style="list-style-type: none"> <li>Mitigate loss of geoducks based on agreements with the DNR, WDFW, the Lower Elwha Klallam Tribe, the Port Gamble S'Klallam Tribe, and the Jamestown S'Klallam Tribe.</li> </ul>	Sea Breeze (in consultation with DNR, WDFW, the Lower Elwha Klallam Tribe, the Port Gamble S'Klallam Tribe, and the Jamestown S'Klallam Tribe)	Prior to and following construction
<ul style="list-style-type: none"> <li>Use procedures that reduce the volume of drilling muds and drill cutting discharged into the Harbor. (See HDD mitigation measures listed in Water Resources Section.)</li> </ul>	Sea Breeze	During design and construction

Mitigation Measure	Responsible Party	Time of Implementation
<ul style="list-style-type: none"> <li>Assess impacts to nearshore habitat from drilling and trenching to a depth of 70 feet (21 m). If a determination is made, in consultation with NMFS, that the macroalgae community is not likely to recover within one year, develop a plan to mitigate the effects. The plan may include annual monitoring for up to three years. Should the density of macroalgae in the disturbed area not recover to at least 80 percent of parallel reference transects after one year, take additional mitigation measures. Potential measures include placing appropriate material such as rocks or quarry spalls to enhance macroalgae attachment, and additional monitoring to document effectiveness. (Mitigation measure also listed in Vegetation and Wetlands Section.)</li> </ul>	Sea Breeze (in consultation with Washington Department of Fish and Wildlife and NMFS)	Within 2 weeks after construction and at Year 1, Year 2, and Year 3 following construction
<ul style="list-style-type: none"> <li>Institute control measures on the cable vessel to prevent the potential risk of an accidental release of any hazardous materials. (Mitigation measure also listed in Water Resources Section.)</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Use oil-adsorbent materials, maintained on the construction vessels, in the event of a petroleum product spill on the deck and/or if any sheen is observed in the water. (Mitigation measure also listed in Water Resources Section.)</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Conduct in-work and HDD drilling between July 16 through February 15 to avoid impacts to bull trout and migrating juvenile salmonids..</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Mitigate potential impacts to state-protected species as required by WDFW based on consultation (for example, marine work windows outside of the gray whale migration season of June 1 to November 30).</li> </ul>	Sea Breeze (in consultation with WDFW)	Prior to and during construction
<ul style="list-style-type: none"> <li>Have a trained marine mammal observer on board the cable-laying vessel to record any observations of marine mammals, especially ESA-listed species. During nighttime operations, the observer would use low-light binoculars for observations. During cable-laying operations, observations for a minimum of 10 minutes would be made at least four times each hour. If any listed species are observed, the following procedures would be followed: <ul style="list-style-type: none"> <li>➤ If an individual or group of animals is observed at 1,000 yards (915 m) from the cable-laying vessel, then behavior would be recorded and vessel operators would be notified. No change to cable-laying operations would be required.</li> <li>➤ If an individual or group of animals approaches the cable-laying vessel within 500 yards (457 m), the behavior of the animals would continue to be recorded, and the vessel operator would be notified and preparations to reduce the speed of cable-laying operations would begin.</li> <li>➤ If an individual or group of animals approaches the cable-laying vessel within 400 yards (366 m), the behavior of the animals would continue to be recorded, the vessel operator would be notified, and cable-laying operations would be reduced to one-half speed. The operator would prepare to stop cable-laying operation if necessary.</li> <li>➤ If an individual or group of animals approaches the cable-laying vessel within 100 yards (91 m), the behavior of the animals would continue to be recorded, the vessel operator would be notified, and cable-laying operations would cease until the individual or group of animals had</li> </ul> </li> </ul>	Sea Breeze	During construction

Mitigation Measure	Responsible Party	Time of Implementation
moved beyond 100 yards (91 m) of the vessel; then reduced-speed operations may resume.		
<ul style="list-style-type: none"> <li>Deploy any item or material that has the potential for entangling marine mammals only as long as necessary to perform its task, and then immediately remove it from the project site.</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>In the unlikely event that a marine mammal becomes entangled, immediately notify the stranding coordinator at NOAA Fisheries so that a rescue effort can be initiated.</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Aim work lights on the cable-laying ship and support vessels to illuminate work areas in such a way as to minimize spilling light into adjacent areas of water.</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>If required by the Department of Ecology, undertake a marine monitoring program to help confirm the extent to which buried portions of the marine cable remain covered with sediment, and develop mitigation measures to keep the cable buried to the extent practical. (Mitigation measure also listed in Socioeconomics.)</li> </ul>	Sea Breeze (in consultation with Department of Ecology)	Prior to construction
<b>Terrestrial Wildlife and Freshwater Fish</b>		
<ul style="list-style-type: none"> <li>Implement appropriate mitigation measures for ESA-listed species if required by USFWS through Section 7 consultations. Measures could include limitations to construction timing for noise producing activities.</li> </ul>	Sea Breeze (in consultation with USFWS)	During construction
<ul style="list-style-type: none"> <li>Develop a dewatering plan for trenching activities in consultation with the City of Port Angeles. (Mitigation measure also listed in Water Resources Section.)</li> </ul>	Sea Breeze (in consultation with City of Port Angeles)	Prior to and during construction
<ul style="list-style-type: none"> <li>Provide appropriate long-term stormwater detention or control facilities at the converter station site so that peak flows in Ennis and White creeks are not increased from pre-existing levels. (Mitigation measure also listed in Water Resources Section.)</li> </ul>	Sea Breeze (in consultation with City of Port Angeles)	During design
<b>Geology and Soils</b>		
<ul style="list-style-type: none"> <li>Follow all mitigation measures required by the Department of Ecology for water quality and contaminated sediments. Measures could include pre-construction sediment sampling near the HDD hole end point and cable trench in the Harbor, sediment dispersion modeling, sediment monitoring to ensure turbidity levels are not raised more than 5 NTU above background levels, and sediment control measures. (Mitigation measure also listed in Water Resources Section.)</li> </ul>	Sea Breeze (in consultation with Department of Ecology)	Prior to and during construction
<ul style="list-style-type: none"> <li>Limit site disturbance to the minimum area necessary to complete construction activities to the extent practicable. (Mitigation measure also listed in Water Resources Section.)</li> </ul>	Sea Breeze BPA	During construction

Mitigation Measure	Responsible Party	Time of Implementation
<ul style="list-style-type: none"> <li>For the SWPPP, use management practices contained in the most current addition of the Storm Water Management Manual for Western Washington found at <a href="http://www.ecy.wa.gov/programs/wq/stormwater/manual.html">http://www.ecy.wa.gov/programs/wq/stormwater/manual.html</a> (e.g., use silt fences, straw bales, interceptor trenches, or other perimeter sediment management devices, placing prior to the onset of the rainy season and monitoring and maintaining until disturbed areas have stabilized). (Mitigation measure also listed in Water Resources Section.)</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>For the SWPPP, use management practices contained in the Storm Water Management Manual for Western Washington (e.g., use silt fences, straw bales, interceptor trenches, or other perimeter sediment management devices, placing them prior to the onset of the rainy season and monitoring and maintaining until disturbed areas have stabilized). (Mitigation measure also listed in Water Resources Section.)</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>If needed, develop a temporary retention pond (a vegetated swale, a shallow excavation, or a combination of detaining systems) to contain turbid stormwater during construction at Port Angeles Substation. (Mitigation measure also listed in Water Resources Section.)</li> </ul>	BPA	Prior to and during construction
<ul style="list-style-type: none"> <li>Seed or plant exposed areas as soon as practicable after construction, or as called for by permit, at the converter station site and Port Angeles Substation to reduce the potential for short and long-term erosion. (Mitigation measure also listed in Water Resources, Vegetation and Wetlands, and Air Quality Sections.)</li> </ul>	Sea Breeze BPA	After construction
<ul style="list-style-type: none"> <li>Cut or crush vegetation, rather than blade, in areas that will remain vegetated in order to maximize the ability of plant roots to keep soil intact. (Mitigation measure also listed in Vegetation and Wetlands Section.)</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Install trip switches in the converter station to automatically shut off power at the station in the event of strong ground shaking during a seismic event that could damage the transmission system.</li> </ul>	Sea Breeze	During design
<ul style="list-style-type: none"> <li>Include engineered design and earthquake-resistant construction in all habitable structures to increase the safety of persons occupying the buildings. The minimum seismic design would comply with the Clallam County Building Code and applicable Washington State Building Codes.</li> </ul>	Sea Breeze	During design
<ul style="list-style-type: none"> <li>Design and construct non-habitable project components using earthquake-resistant measures.</li> </ul>	Sea Breeze	During design
<b>Land Use</b>		
<ul style="list-style-type: none"> <li>Notify residents and business owners of the construction schedule, potential impacts, and contact numbers for project managers who can provide information or address concerns during construction.</li> </ul>	Sea Breeze BPA	Prior to construction
<ul style="list-style-type: none"> <li>Contact residents along the route prior to construction to coordinate driveway access and reduce interference.</li> </ul>	Sea Breeze	Prior to construction

Mitigation Measure	Responsible Party	Time of Implementation
<ul style="list-style-type: none"> <li>Provide appropriate signage for redirecting traffic during construction through coordination with the City of Port Angeles Public Works Department.</li> </ul>	Sea Breeze (in coordination with the City of Port Angeles)	Prior to and during construction
<ul style="list-style-type: none"> <li>Implement measures to reduce visual and noise impacts (see Visual and Noise Sections).</li> </ul>	Sea Breeze	During design and construction
<b>Visual Resources</b>		
<ul style="list-style-type: none"> <li>Seek and incorporate input from local residents and planning officials about the design of the exterior of the converter station.</li> </ul>	Sea Breeze	During design
<ul style="list-style-type: none"> <li>Design converter station building exterior to be compatible with facilities of Peninsula College. This would be accomplished by including the following: <ul style="list-style-type: none"> <li>➤ Installing decorative walls,</li> <li>➤ Planting native trees and understory vegetation,</li> <li>➤ Installing slats on chain-link fencing.</li> </ul> </li> </ul>	Sea Breeze	During design
<ul style="list-style-type: none"> <li>Revegetate exposed ground above underground AC lines on BPA property with vegetation that does not jeopardize safety or reliability of equipment.</li> </ul>	BPA	After construction
<b>Socioeconomics</b>		
<ul style="list-style-type: none"> <li>Record the location of the marine cable bundle on navigational charts. (Mitigation measure also listed in Health and Safety Section.)</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Bury the cable bundle deep enough to provide protection, up to 12 feet (3.6 m), in areas of soft soils and potential ship anchorage. (Mitigation measure also listed in Health and Safety Section.)</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>If required by the Department of Ecology to reduce the possibility of the cable being snagged by anchors, undertake a marine monitoring program to help confirm the extent to which buried portions of the marine cable remain covered with sediment, and develop mitigation measures to keep the cable buried to the extent practical. (Mitigation measure also listed in Marine Habitat and Wildlife.)</li> </ul>	Sea Breeze	During operation
<b>Cultural Resources</b>		
<ul style="list-style-type: none"> <li>Develop an Inadvertent Discovery Plan that details crew member responsibilities for reporting in the event of a discovery during marine cable installation.</li> </ul>	Sea Breeze and BPA (in consultation with Washington SHPO and the Lower Elwha Klallam Tribe)	Prior to construction

Mitigation Measure	Responsible Party	Time of Implementation
<ul style="list-style-type: none"> <li>Develop a Cultural Resource Monitoring Plan in consultation with the Lower Elwha Klallam Tribe.</li> </ul>	Sea Breeze and BPA (in consultation with Washington SHPO and the Lower Elwha Klallam Tribe)	Prior to construction
<ul style="list-style-type: none"> <li>Ensure tribal monitors from the Lower Elwha Klallam Tribe and an archaeologist are present during excavation in areas of moderate to high risk for impacts (e.g., at the HDD platform, trenching along level areas of the terrestrial route, and excavation at the converter station site and interconnection site work).</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Develop an Inadvertent Discovery Plan that details construction worker responsibilities for reporting in the event of a discovery during terrestrial excavation.</li> </ul>	Sea Breeze and BPA (in consultation with Washington SHPO and the Lower Elwha Klallam Tribe)	Prior to construction
<ul style="list-style-type: none"> <li>If final placement of the project elements results in unavoidable adverse impacts to a significant resource, prepare a Mitigation Plan to retrieve the scientific and historical information that makes the site significant under the direction of a qualified archeologist and in consultation with Washington SHPO and the Lower Elwha Klallam Tribe.</li> </ul>	Sea Breeze and BPA (in consultation with Washington SHPO and the Lower Elwha Klallam Tribe)	During construction
<ul style="list-style-type: none"> <li>Stop work immediately and notify local law enforcement officials, the Washington SHPO, and the Lower Elwha Klallam Tribe if project activities expose human remains, either in the form of burials or isolated bones or teeth, or other mortuary items.</li> </ul>	Sea Breeze and BPA (in consultation with Washington SHPO and the Lower Elwha Klallam Tribe)	Immediately after remains are encountered
<b>Noise</b>		
<ul style="list-style-type: none"> <li>Incorporate the use of sound attenuating techniques at the HDD construction site to reduce noise levels as close to its source as possible.</li> </ul>	Sea Breeze	Prior to and during HDD construction
<ul style="list-style-type: none"> <li>Do not permit the use of equipment with back-up warning devices between 7:00 p.m. and 7:00 a.m.</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Monitor vibration levels during initial HDD operations and during pipe ramming.</li> </ul>	Sea Breeze	During HDD construction



Mitigation Measure	Responsible Party	Time of Implementation
<ul style="list-style-type: none"> <li>Conduct pre-construction and post-construction structural surveys of adjacent and nearby structures to determine if structural damage has occurred due to pipe ramming vibrations. Compensate property owners for damages as appropriate.</li> </ul>	Sea Breeze	Prior to and after HDD construction
<ul style="list-style-type: none"> <li>Reduce the speed of the HDD drill during non-exempt hours, if possible, to limit noise levels.</li> </ul>	Sea Breeze	During HDD construction
<ul style="list-style-type: none"> <li>Enclose major noise-generating equipment inside the converter station building, where possible.</li> </ul>	Sea Breeze	During design
<ul style="list-style-type: none"> <li>Place cooling fans at the converter station away from residents.</li> </ul>	Sea Breeze	During design
<b>Health and Safety</b>		
<ul style="list-style-type: none"> <li>Obtain approval from the City of Port Angeles prior to construction in city streets.</li> </ul>	Sea Breeze	Prior to construction
<ul style="list-style-type: none"> <li>Provide detailed information about the location of the cable (as-builts) to the Port Angeles Engineering Department so construction crews can avoid it.</li> </ul>	Sea Breeze	After construction
<ul style="list-style-type: none"> <li>Install concrete and warning tape above buried terrestrial cables to protect the cable from possible damage during future excavation in the street near the cable corridor.</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Record the location of the marine cable bundle on navigational charts. (Mitigation measure also listed in Socioeconomic Section.)</li> </ul>	Sea Breeze	During and after construction
<ul style="list-style-type: none"> <li>Bury the cable bundle deep enough to provide protection, up to 12 feet (3.6 m), in areas of soft soils and potential ship anchorage. (Mitigation measure also listed in Socioeconomic Section.)</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Configure and locate buried AC cables and overhead transmission lines to lessen potential magnetic field exposures.</li> </ul>	Sea Breeze	During design
<ul style="list-style-type: none"> <li>Abide by all federal, state, and local requirements for the storage, handling, transport, disposal, and spill reporting requirements of all products and deleterious substances. Personnel handling or transporting such materials would be adequately trained and, where necessary, material safety data sheets (MSDS) would be kept on hand.</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Ensure proper refueling procedures are followed and that containment materials are on hand at refueling locations.</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Maintain “good-housekeeping practices” within the hazardous material containment area, including prompt cleanup of spills.</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Place all transformers inside a bermed area large enough to capture the full potential volume of any oil spills or leaks from the equipment.</li> </ul>	Sea Breeze	During design
<ul style="list-style-type: none"> <li>Conduct periodic inspections around all transformers to look for any minor leaks or spills.</li> </ul>	Sea Breeze	During operation
<ul style="list-style-type: none"> <li>Install appropriate fire detectors, sprinklers, and other fire safety equipment in the converter station.</li> </ul>	Sea Breeze	During design

Mitigation Measure	Responsible Party	Time of Implementation
<ul style="list-style-type: none"> <li>Remove vegetation and tall trees that could pose a danger to overhead transmission lines, converter station equipment, and electrical yards to prevent potential damage during large windstorms or from tree deadfalls.</li> </ul>	Sea Breeze BPA	During construction
<b>Air Quality</b>		
<ul style="list-style-type: none"> <li>Apply water to exposed soils at construction sites as necessary to control dust.</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Clean accumulated dirt, as necessary, from roads along the cable construction corridor and near the converter station and substation.</li> </ul>	Sea Breeze	During construction
<ul style="list-style-type: none"> <li>Implement dust control measures, as necessary, to limit dust releases from dump trucks (such as wetting dry soil).</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>Seed or plant exposed areas as soon as practicable after construction, or as called for by permit, at the converter station site and Port Angeles Substation to reduce the potential for wind blown erosion. (Mitigation measure also listed in Water Resources, Vegetation and Wetlands, and Geology and Soils sections.)</li> </ul>	Sea Breeze BPA	After construction
<ul style="list-style-type: none"> <li>Keep all construction equipment in good running condition to minimize emissions from internal combustion engines and ensure that odor impacts are kept to a minimum.</li> </ul>	Sea Breeze BPA	During construction
<ul style="list-style-type: none"> <li>To the degree practical, minimize equipment idling for long periods of time.</li> </ul>	Sea Breeze BPA	During construction