Mitigation Action Plan for the Albany-Eugene Transmission Line Rebuild Project

Mitigation Measures	Time of Implementation
Land Use and Recreation	
 Distribute the proposed schedule of construction activities to all potentially affected landowners and post in recreational areas along the corridor so landowners and recreational users would know when they can expect to experience construction-related disruptions 	Prior to construction
Maintain access during construction	During construction
 Conduct construction activities in coordination with agricultural activities to the extent practicable 	During construction
 Instruct equipment operators and construction crews to close gates to avoid disturbances to livestock and to stay within the corridor to minimize impacts to crops 	During construction
 Coordinate with individual landowners to ensure that new and/or temporary access roads and gates, and construction and maintenance activities would not disrupt agricultural and commercial operations 	Prior to construction
 Compensate affected farmers for any lost crop production caused by construction of the Proposed Action 	After construction
• Coordinate with local agencies to avoid construction activities that could disrupt community events or conflict with their own construction activities	Prior to construction
Geology and Soils	
 Place new structures in existing structure holes to the maximum extent practicable to reduce ground disturbance 	During construction
 Conduct project construction, including danger tree removal, to the extent practicable, during the dry season when rainfall, runoff, and stream flow are low to minimize erosion, compaction, and sedimentation 	During construction
 Install sediment barriers and other appropriate erosion-control devices where needed to minimize sediment transport 	Prior to and during construction
Retain vegetative buffers where possible to prevent sediment from eroding into waterbodies	During construction
 Control runoff and prevent erosion on access road improvements by using low grades, water bars, and drain dips 	During construction
 Properly space and size culverts on access roads 	During construction
Use water trucks on an as-needed basis to minimize dust and reduce erosion due to wind	During construction
Till or scarify compacted soil at structure sites prior to reseeding	During and after construction
Reseed disturbed areas with a native seed mix as soon as work in that area is completed	During and after construction
 Inspect reseeded and revegetated areas to verify adequate growth; implement contingency measures as needed 	After construction
Conduct construction activities in coordination with agricultural activities to the extent	During construction

	Mitigation Measures	Time of Implementation
	practicable	
•	Assist farm operators in restoring productivity of compacted soils for structure sites on agricultural lands	After construction
•	Inspect and maintain facilities to ensure proper function and nominal erosion levels	After construction
	Water Resources	
•	Prepare and implement a Storm Water Pollution Prevention Plan	During design and construction
•	Inspect and maintain tanks and equipment containing oil, fuel, or chemicals for drips or leaks to prevent spills onto the ground or into waterbodies	Prior to and during construction
•	Maintain and repair all equipment and vehicles on impervious surfaces away from all sources of surface water	During construction
•	Refuel and maintain equipment away from natural or manmade drainage conveyances, including streams, wetlands, ditches, catch basins, ponds, and culverts; provide spill containment and cleanup; and use pumps, funnels, and absorbent pads for all equipment- fueling operations. Keep, maintain, and have readily available appropriate spill containment and cleanup materials in construction equipment, in staging areas, and at work sites	During construction
•	Place sorbent materials or other impervious materials underneath individual wood poles at pole storage and staging areas to contain leaching of preservative materials	During construction
•	Install erosion control measures prior to work in or near floodplains	Before and during construction
•	Monitor revegetation and site restoration work for adequate growth; implement contingency measures as necessary	After construction
•	Monitor erosion control Best Management Practices (BMP's) to ensure proper function and nominal erosion levels	During construction
	Wetlands and Floodplains	
•	Obtain and comply with applicable Clean Water Act permits for all work in wetlands or streams	Before construction
•	Identify and flag wetlands	Before construction
•	Install erosion-control measures prior to work in or near wetlands, such as silt fences, straw wattles, and other soil stabilizers; reseed disturbed areas as required	Before, during and after construction
•	Deposit and stabilize all excavated material not reused in an upland area outside of wetlands	During construction
•	Avoid construction within wetlands and wetland buffers to protect wetland functions and values, where possible. Avoid using these areas for construction staging, equipment or materials storage, fueling of vehicles, or related activities	During construction
•	Use existing road systems, where possible, to access structure locations	During construction
•	Remove all temporary fill and geotextile fabric, and revegetate after use of temporary roads built in wetlands	After construction
•	Use herbicides to control vegetation near wetlands in accordance with BPA's Transmission System Vegetation Management Program Final Environmental Impact Statement (BPA 2000) to limit impacts to water quality	Before, during and after construction
•	Deposit and stabilize all excavated material not reused in an upland area outside of floodplains	During construction

Install erosion-control measures prior to work in or near floodplains Before and during construction Avoid construction within floodplains to protect floodplain function, where possible During design Vegetation Before construction, conduct a noxious weeds Before construction Prior to construction, visit existing noxious weeds Before construction Before construction Infestations for avoidance (as practicable) during construction Before construction Before construction Infestations for avoidance (as practicable) during construction Before construction Before construction Infestations for avoidance (as practicable) during construction Before construction Before construction Infestations for avoidance (as practicable) during construction Before construction Before construction Identify potential onsite mitigation opportunities specific to vegetation replacement/replanting (e.g., willow planting/cutting installations) Before construction Identify potential onsite mitigation opportunities apecific to vegetation Before construction replace tree removal occurring as a result of the Proposed Action Before construction Ocordinate with local watershed councils and land conservancies (e.g., Calapooia Watershed Council, Institute for Applied Ecology, and ainflar grouspi regarining tree salvage for use in any habitat restoration p	Mitigation Measures	Time of Implementation
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approach to limit damage to remaining trees and understory vegetation during danger tree During Construction removal	approach to limit damage to remaining trees and understory vegetation during danger tree	During Construction

Mitigation Measures	Time of Implementation
Do not allow danger trees to be chipped and left onsite	During Construction
Top and trim Oregon white oak trees designated as danger trees	During Construction
 Top, trim, and/or girdle a percentage of designated danger trees (e.g., in higher quality habitat areas) to reduce impacts to vegetation and wildlife species, such as small mammals and amphibians 	During Construction
 Consider leaving a small percentage of cut and felled danger trees within the corridor as additional habitat/structure for wildlife, particularly small mammals and amphibians where appropriate 	During Construction
 Reseed disturbed areas with native grasses and forbs to ensure appropriate vegetation coverage and soil stabilization prior to November 1 (rainy season) 	During and after construction
 Inspect seeded sites to verify adequate growth and implement contingency measures as needed 	After Construction
• Schedule maintenance for fall or winter to avoid disturbing or destroying plants before they reproduce	After construction
Salvage natives where possible (especially camas) and replant after construction	Before, during and after construction
Limit herbicide use to appropriate areas	Before, during and after construction
 Restrict equipment access to wooden pole structures within or near the remnant native prairie areas to the edges of the ROW where possible 	During construction
Wildlife	
 Prior to initiating ground-disturbing activities, identify active raptor nest sites by consulting with ODFW and/or USFWS and conduct raptor nesting surveys if required 	Before construction
Install bird diverters where the line crosses the Calapooia and Willamette Rivers	During construction
 Avoid disruptive construction activities within 330 feet of active bald eagle nests during their critical nesting period (January–June) 	During construction
 Where practicable, schedule danger tree removal to avoid the critical nesting periods for migratory birds (March 1–September 15) 	During construction
Minimize the construction area to the extent practicable	During construction
 In areas where cottonwoods would be removed, leave understory layer intact (i.e., do not remove hawthorn, cherry, or willow trees) 	During construction
 Consider leaving a small percentage of cut and felled danger trees in upland and wetland areas within the corridor as additional habitat/structure for wildlife, particularly small mammals and amphibians 	During construction
Fish	
 Implement all impact minimization and mitigation measures identified in Section 7 Consultation with USFWS and NOAA Fisheries 	During and after construction
 Conduct all construction activities according to Oregon Department of Fish and Wildlife (ODFW) in-water work guidelines or ODFW-approved in-water work extension for streams identified as having ESA-listed Oregon chub 	During construction
 Conduct all construction activities according to ODFW in-water work guidelines or ODFW- approved in-water work extension for all remaining streams identified as containing ESA- listed fish species (Upper Willamette River chinook and Upper Willamette River steelhead) 	During construction