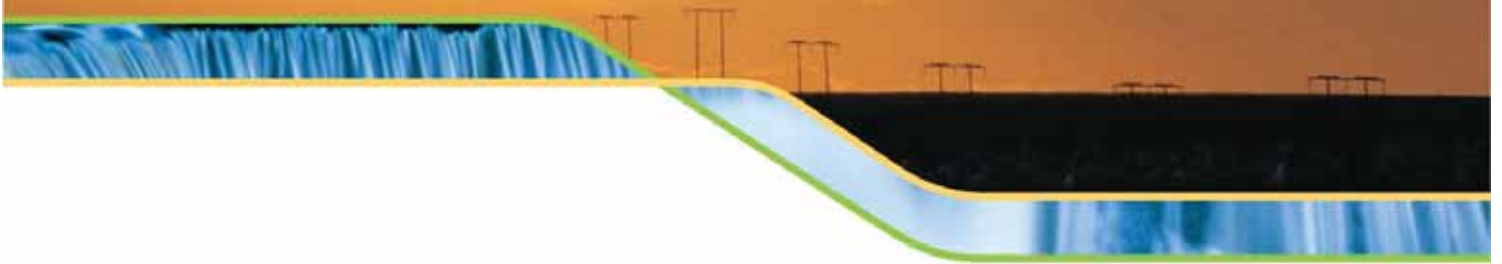


Boardman to Hemingway Transmission Line Project



Appendix E—Environmental Protection Measures

Prepared by:
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November 2011

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | |
|---|---|------------------------------|-------|---------|---|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---------------|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| Storm Water Pollution Prevention | | | | | | | | | | | | | | |
| SW-1 | A SWPPP and ECSP will be created and implemented to cover construction related ground disturbing activities associated with this project. The SWPPP and ECSP will specify BMPs that will be implemented in order to minimize sediment and other pollutants from impacting waters of the US. | * | * | * | * | * | | | * | | | | | |
| | | | | | Complies with 402 permitting requirements in both states and provides for storm water pollution prevention | | | | | | | | | |
| SW-2 | A storm water team will be assembled to manage construction storm water issues, conduct the required inspections, provided guidance to construction crews, and maintain and update the SWPPP and ECSP as needed. | * | * | * | * | * | | | * | | | | | |
| | | | | | The team will be responsible for assuring that appropriate BMPs are selected, installed, and maintained, and will document compliance with permitting requirements. | | | | | | | | | |
| SW-3 | The SWPPP and ECSP will identify areas with critical erosion conditions that may require special construction activities or additional Best Management Practices (BMPs) to minimize soil erosion and will be modified as necessary to account for changing construction conditions and schedules. | * | * | * | * | * | | | * | | | | | |
| | | | | | Allows for quick response to changing conditions during construction | | | | | | | | | |
| SW-4 | Temporary and permanent BMPs will be used to control erosion, sediment and other pollutants associated with construction related activities. BMPs will be installed and maintained until disturbed areas meet final stabilization criteria. | * | * | * | * | * | | | * | | | | | |
| | | | | | This EPM complies with 402 permitting requirements in both states and provides for storm water pollution prevention | | | | | | | | | |
| SW-5 | Damaged temporary erosion and sediment control structures will be repaired in accordance with the SWPPP and ECSP. | * | * | * | * | * | | | * | | | | | |
| | | | | | Provides explicit commitment for BMP maintenance and repair | | | | | | | | | |
| SW-6 | Upon completion of construction, permanent erosion and sediment BMPs will be installed in accordance with the SWPPP and ECSP. | * | * | * | * | * | | | * | | | | | |
| | | | | | Provides for long-term post-construction erosion and sedimentation control. | | | | | | | | | |
| Spill Prevention | | | | | | | | | | | | | | |
| SPC-1 | A SPCC Plan will be prepared and implemented as applicable for this project and will detail protective measures to prevent and contain oil and other petroleum products spills and leaks. | * | * | * | * | * | | | * | | | | | |
| | | | | | This EPM complies with 402 permitting requirements in both states and provides for spill prevention countermeasure and control. | | | | | | | | | |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | | |
|----------------------------------|--|--|-------|---------|--------------------------------------|----------|-------|--------------------------------|------|--------|------------------|------------------|----------|-------------|---------------|
| Number | Measure | Federal | State | Private | Water | | Soils | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | | Wildlife | Fish | Plants | | | | | |
| SPC-2 | Construction spills will be promptly cleaned up and contaminated materials will be transported to a disposal site that meets local, state, and federal requirements. | * | * | * | * | * | | | * | | | | | | |
| | | Provides for prompt clean up and disposal of construction spills. | | | | | | | | | | | | | |
| SPC-3 | Fueling areas within staging area will be contained. If fueling is conducted in other areas along the ROW, BMPs will be implemented to prevent spills. | * | * | * | * | * | | | * | | | | | | |
| | | Will help to limit fuel spills from entering waterways | | | | | | | | | | | | | |
| SPC-4 | If a spill occurs which is beyond the capability of on-site equipment and personnel, an Emergency Response Contractor will be identified and available to further contain and clean up the spill. | * | * | * | * | * | | | * | | | | | | |
| | | Will ensure that all spills are fully cleaned up. | | | | | | | | | | | | | |
| SPC-5 | For spills in standing water absorbent materials will be used as appropriate by the contractor to recover and contain released materials on the surface of the water. If the standing water is considered a water of the state, it will be reported immediately to the appropriate agency. | * | * | * | * | * | | | * | | | | | | |
| | | Provides process for spills in standing water and agency reporting. | | | | | | | | | | | | | |
| SPC-6 | If pre-existing contamination is encountered during operations, work will be suspended in the area of the suspected contamination until the type and extent of the contamination is determined. The type and extent of contamination; the responsible party (if identifiable); and local, state, and federal regulations will determine the appropriate cleanup method(s) for these areas. | * | * | * | * | * | | | * | | | | | | |
| | | This EPM will help to prevent the spread of existing contamination from project construction and protect workers from exposure to potentially hazardous materials. | | | | | | | | | | | | | |
| SPC-7 | Any oil spill to waters of the state/US are reportable. Oil spill notification is required for spills on land of 25 gallons or greater in Idaho. In Oregon an oil spill on land of 42 gallons or greater requires notification. Notification is required for hazardous material spills of reportable quantities (quantities are listed in the Code of Federal Regulations). | * | * | * | * | * | | | * | | | | | | |
| | | Notification of oil spills greater than 25 gallons in Idaho and 42 gallons in Oregon. | | | | | | | | | | | | | |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | |
|----------------------------------|---|---|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---------------|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| SPC-8 | Materials such as fuels, other petroleum products, chemicals, and hazardous materials including wastes will be located in upland areas away from streams or wells. | * | * | * | * | * | | | * | | | | | |
| | | Will help to prevent fuel spills from entering waterways. | | | | | | | | | | | | |
| SPC-9 | Pumps and temporary fuel tanks for the pumps will be stored in containment. | * | * | * | * | * | | | * | | | | | |
| | | Containment will prevent fuel spills from entering waterways. | | | | | | | | | | | | |
| Reclamation | | | | | | | | | | | | | | |
| REC-1 | Qualified company personnel and contractors will facilitate avoidance of noxious weed infestations where possible and identify new infestations. | * | * | * | | | | * | | * | | | * | |
| | | Provides for responsible parties for noxious weed and invasive plant identification and control | | | | | | | | | | | | |
| REC-2 | Preconstruction weed treatments will be limited to areas expected to have unavoidable ground-disturbing activities and have potential to spread weeds due to construction activities. Treatments will be conducted prior to the start of ground-disturbing activities. Preconstruction treatment may include (but is not limited to) using mechanical control and herbicides. The Reclamation Plan will discuss control options. It will also include appropriate times for pre-construction noxious weed treatments based on phased in-services dates for line segments. | * | * | * | | | | * | | * | | | * | |
| | | Limits weed control activities to areas to be disturbed only. | | | | | | | | | | | | |
| REC-3 | All herbicide applications will comply with label restrictions, federal, state and/or county regulation, and landowner agreements. No spraying will occur prior to notification and approval from the applicable land management agency or landowner. Private property will be sprayed only if written approval is obtained. State and federal herbicide recording requirements will be followed, including BLM and Forest Service recording requirements. The Reclamation Plan will contain a list of approved herbicides, target species and application times and rates. | * | * | * | * | * | | * | * | * | | | * | |
| | | Specifies how, when, and with what limitations herbicides would be used | | | | | | | | | | | | |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | | | |
|----------------------------------|---|------------------------------|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---------------|--------|--|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety | | |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | | Plants | |
| REC-4 | Herbicides may be applied using a broadcast applicator mounted on a truck or all-terrain vehicle (ATV), backpack sprayers, or with hand sprayers as conditions dictate. Herbicide applications will be conducted by licensed operators or under the supervision of a licensed operator in accordance with state laws. | * | * | * | * | * | | | * | * | | | | | | Specifies that aerial application of herbicides will not be utilized. |
| REC-5 | Herbicide use near special status species and water bodies will follow label requirements; state and federal law; and BLM and Forest Service recommendations. | * | * | * | * | * | | | * | | | | | | | Provides for protection of water and fish |
| REC-6 | Project vehicles and equipment will arrive at the job site clean of soil and herbaceous material. When project vehicles demobilize from the job sites where noxious weeds are present, they will use appropriate decontamination measures as defined in the Reclamation Plan. | * | * | * | * | * | | * | * | * | | | | | | Cost-effective measure to limit or eliminate construction-related weed spread. |
| REC-7 | Project-related storage and staging yards, fly yards, and other areas subject to regular long-term disturbance will be treated for noxious weeds when construction activity levels allow. | * | * | * | | | | * | | * | | | * | | | Practical measure to assure long-term disturbance does not result in establishment of weed populations |
| REC-8 | If topsoil is removed, care will be taken to ensure it is not mixed with the underlying subsoil. Topsoil will be stored in a separate stockpile. It will be returned to the area it was taken from and will not be spread in adjacent areas. If topsoil is not suitable for backfill, then it will be spread in another previously disturbed areas or transported to a predetermined offsite disposal area. | * | * | * | | | * | * | | * | | | * | | | Protection of topsoil as a critical resource |
| REC-9 | Subsurface soils and waste rock will be spread where practicable and in close proximity to the disturbance (within the ROW). This material will be spread uniformly to match existing contours and covered with topsoil—when available—and re-seeded. | * | * | * | | | * | | | | | | | | | Utilization of subsurface soils and rock to recon tour |
| REC-10 | Straw, hay, mulch, gravel, seed and other imported materials must be certified weed-free. If certified weed free materials are not available then alternative materials will be used. | * | * | * | | | * | | * | | | * | | | | Provides for limitation of weed introduction through erosion control materials used |
| REC-11 | Temporarily disturbed lands within the ROW will be re-contoured to match surrounding landscapes. Re-contouring will emphasize restoration of the existing drainage patterns and landform to pre-construction conditions, to the extent practicable. (Tower pads and most roads will not be re-contoured.) | * | * | * | | | * | | | | * | * | | | | Recontouring facilitates rehabilitation after construction |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | |
|----------------------------------|---|--|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---------------|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| REC-12 | Areas within the ROW, lay-down or staging yards, and other areas of extensive vehicle travel and material storage may contain compacted soils. These soils will be de-compacted on a case-by-case basis. | * | * | * | | | * | | | | | | | * |
| | | Decompaction reduces restoration time | | | | | | | | | | | | |
| REC-13 | IPC may use soil amendments (e.g., fertilizer, wood or straw mulches, tackifying agents, or soil stabilizing emulsions) on a case-by-case basis. | * | * | * | | | * | | | | | | | * |
| | | IPC will use soil amendments only where needed and permitted | | | | | | | | | | | | |
| REC-14 | Reclamation seeding methods will include broadcast seeding, drill seeding or hydro seeding/hydro mulching (or a combination of methods). Seeding methods will be chosen based on the type of seed, disturbance level, soil type, terrain and precipitation levels for the area to be reclaimed. Reclamation techniques will be described in more detail in the Reclamation Plan. | * | * | * | | | * | * | | * | | * | | |
| | | reseeding hastens restoration and limits spread of noxious weeds by providing appropriate plant cover quickly | | | | | | | | | | | | |
| REC-15 | Final cleanup will ensure all construction areas are free of construction debris including—but not limited to—assembly scrap metals, oil or other petroleum-based liquids, construction wood debris, and worker-generated litter. Permanent erosion control devices will be left in place. | * | * | * | * | * | * | * | * | * | | * | | |
| | | Removal of construction debris avoids contamination of soil and water and protects habitat. | | | | | | | | | | | | |
| Transportation | | | | | | | | | | | | | | |
| TR-1 | A Traffic and Transportation Management Plan will be developed, approved by the appropriate agency prior to the start of field activities, and implemented to provide site-specific details showing how the Project will comply with the transportation EPMs. This plan will be submitted to and approved by the appropriate federal, state, and local agencies with authority to regulate use of public roads, and approved, prior to the issuance of a Notice to Proceed with construction. | * | * | | | | | | | | | | | * |
| | | Traffic and transportation management plan will help to reduce impacts to road systems and resources adjacent to roads and prevent safety hazards. | | | | | | | | | | | | |
| TR-2 | Dust suppression techniques will be applied, such as watering construction areas or removing dirt tracked onto a paved road as necessary to prevent safety hazards or nuisances on access roads and in construction zones near residential and commercial areas and along major highways and interstates. | * | * | * | | | | | | | | | | * |
| | | Provides for public safety through dust suppression and material removal from paved roads. | | | | | | | | | | | | |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | | |
|----------------------------------|--|------------------------------|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---|--------|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety | |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | | Plants |
| TR-3 | If the Project proposes to obtain water from wells or surface water sources to suppress dust, written approval from the landowner or regulatory agency will be obtained prior to appropriation. | * | * | * | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Written approval will be obtained prior to obtaining water for project use | |
| TR-4 | If a construction method requires the closure of a state- or county-maintained road, a traffic control plan will be developed to accommodate traffic as required by a county or state permit. | | * | | | | | | | | | | | * | |
| | | | | | | | | | | | | | | Provide process for closure of state-or county -maintained roads for construction. | |
| TR-5 | On county- and state-maintained roads, caution signs will be posted on roads, where appropriate, to alert motorists of construction and warn them of slow traffic. Traffic control measures such as traffic control personnel, warning signs, lights, and barriers will be used during construction to ensure safety and to minimize traffic congestion. | | * | | | | | | | | | | | * | |
| | | | | | | | | | | | | | | Will help to minimize traffic congestion and ensure public and worker safety. | |
| TR-6 | To reduce traffic congestion and roadside parking hazards, an equipment yard will be provided for primary parking for construction employee personal vehicles. | * | * | * | | | | | | | | | | * | |
| | | | | | | | | | | | | | | Reduces traffic congestion by providing parking for workers at centralized locations | |
| TR-7 | Unauthorized vehicles will not be allowed within the construction right-of-way (ROW) during construction activities. | * | * | * | | | | | | | | | | * | |
| | | | | | | | | | | | | | | No unauthorized vehicles in construction area | |
| TR-8 | Construction vehicles on un-posted project roads will travel at speeds that are reasonable and prudent for the conditions. | * | * | * | | | | | | | | | | * | |
| | | | | | | | | | | | | | | Road used for construction without posted speed limits will be driven at speeds that reasonable and prudent for the conditions. | |
| TR-9 | All temporary culverts and associated fill material will be removed from stream crossings after construction, and banks will be re-contoured and restored to their pre-disturbance conditions. | * | * | * | * | * | | * | | | | | | * | |
| | | | | | | | | | | | | | | Streams will be restored to their pre-disturbance conditions. | |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | | |
|----------------------------------|---|------------------------------|-------|---------|---|----------|-------|--------------------------------|------|--------|------------------|------------------|----------|-------------|---------------|
| Number | Measure | Federal | State | Private | Water | | Soils | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | | Wildlife | Fish | Plants | | | | | |
| TR-10 | Landowners in the project area will be notified prior to the start of construction. | | | * | | | | | | | | | | * | * |
| | | | | | Ensures landowners will be notified | | | | | | | | | | |
| TR-11 | Emergency vehicle access to private property will be maintained. | | | * | | | | | | | | | | | * |
| | | | | | Provide for public safety by ensuring that emergency vehicle access will be maintained. | | | | | | | | | | |
| TR-12 | Roads in residential areas will be restored as soon as possible, and hazardous construction areas near residences will be fenced off at the end of the construction day. | | | * | | | | | | | | | | | * |
| | | | | | Provides for public safety through restoring roads and fencing construction areas in residential areas. | | | | | | | | | | |
| TR-13 | Roads negatively affected by construction and as identified by the agencies will be returned to preconstruction condition. | * | * | * | | | | | | | | | * | | * |
| | | | | | Provides for road restoration to preconstruction conditions | | | | | | | | | | |
| TR-13 | Roads developed specifically for this project that are identified by the Proponents as no longer necessary will be reclaimed as specified in the Reclamation, Revegetation, and Weed Management Plan. | * | * | * | | | | | | | | | | | * |
| | | | | | Developed roads not needed after construction will be reclaimed | | | | | | | | | | |
| Cultural | | | | | | | | | | | | | | | |
| CUL-1 | All cultural resources work conducted for the Project will be performed by qualified archeologists with trained assistants. | * | * | * | | | | | | | * | | | | |
| | | | | | Qualified archeologists will conduct cultural resources work | | | | | | | | | | |

| Environmental Protection Measure | | Resource Impacts Targeted by Measure | | | | | | | | | | | | |
|----------------------------------|--|--------------------------------------|-------|---------|---------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---------------|
| Number | Measure | Applicable to Land Ownership | | | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | Federal | State | Private | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| CUL-2 | Class I, Class II, and Class III surveys will be completed for cultural resources. Class I surveys will be conducted on public and private lands and will cover a study area of two miles on either side of the proposed and alternate transmission line alignments as well as areas identified for use as staging areas and access roads. For the Class II survey, a 15% sample inventory will be made on all the proposed alternatives in order to collect comparative data for NEPA analyses. A Class III surveys will be conducted on 100 percent of the final approved route. | * | * | * | | | | | | | * | | | |
| CUL-3 | If construction will adversely affect any properties listed on, or eligible for listing on, the NRHP, mitigation will be required. Mitigation of sites will addressed through the development of a Historic Properties Treatment Plan (HPTP). Mitigation may include, but not be limited to, one or more of the following measures: a) avoidance through the use of relocation of structures through the design process, realignment of the route, relocation of temporary workspace, or changes in the construction and/or operational design; b) data recovery, which may include the systematic professional excavation of an archaeological site or the preparation of photographic and/or measured drawings documenting standing structures; and c) the use of landscaping or other techniques that will minimize or eliminate effects on the historic setting or ambience if that aspect is important to a site's eligibility. | * | * | * | | | | | | * | | | | |
| CUL-4 | An Unanticipated Discovery Plan will be included as part of the HPTP. This plan will specify what steps will be taken if a subsurface cultural resource is discovered during construction, including stopping construction in the vicinity of the find, notification of the appropriate land management agency, identification of a qualified archaeologist to conduct an evaluation of the find, and the development of an approved data recovery program or other mitigation measures. | * | * | * | | | | | | * | | | | |
| CUL-5 | Avoidance areas will be flagged prior to construction activities. Flagging will be removed once construction is completed in an area. | * | * | * | | | | | | * | | | | |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | |
|----------------------------------|--|------------------------------|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|--|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| CUL-6 | To minimize unauthorized collecting of archaeological material or vandalism to known archaeological sites, all workers will attend mandatory training on the significance of cultural resources and the relevant federal regulations intended to protect them. | * | * | * | | | | | | | * | | | |
| | | | | | | | | | | | | | | Education of construction work force on importance of cultural resource protection. |
| CUL-7 | If human remains are discovered, construction will be halted and the coroner will be notified. If human remains of Native American origin are discovered, or if associated grave goods, or objects of cultural patrimony are discovered on lands managed by a federal agency, the provisions of the Native American Graves Protection and Repatriation Act will be followed. | * | * | * | | | | | | | * | | | |
| | | | | | | | | | | | | | | Provides a process for notification in the event that human remains, are discovered during construction. |
| Paleontology | | | | | | | | | | | | | | |
| PALEO-1 | All paleontological resources work conducted for the Project will be performed by qualified paleontologists with trained assistants. | * | | | | | | | | | * | | | |
| | | | | | | | | | | | | | | Qualified paleontologists will perform all paleontological work |
| PALEO-2 | Geologic maps and other lines of evidence will be examined for the preferred route. Any areas with a high potential for paleontological resources will be inventoried. | * | | | | | | | | | * | | | |
| | | | | | | | | | | | | | | Provides process for determining areas to be inventoried for paleontological resources. |
| PALEO-3 | A Paleontological Monitoring and Mitigation Plan will be developed for areas with identified significant paleontological resources. The plan will include appropriate measures to mitigate adverse effects to significant paleontological resources, the preparation and curation of any fossil collected from federal lands, and for the preparation of a final report based on the data recovered for activities on federal lands. | * | | | | | | | | | * | | | |
| | | | | | | | | | | | | | | Provides for mitigation for adverse effects to significant paleontological resources. |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | | |
|----------------------------------|---|------------------------------|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---------------|--------|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety | |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | | Plants |
| PALEO-4 | An Unanticipated Discovery Plan will be included as part of the Paleontological Monitoring and Mitigation Plan. This plan will specify what steps will be taken if a subsurface cultural resource or fossil is discovered during construction, including stopping construction in the vicinity of the find, notification of the appropriate land management agency, identification of a qualified paleontologist to conduct an evaluation of the find, and the development of an approved data recovery program or other mitigation measures. | * | | | | | | | | | * | | | | |
| | | | | | | | | | | | | | | | |
| PALEO-5 | To minimize unauthorized collecting of significant paleontological resources , all workers will attend mandatory training on the significance of paleontological resources and the relevant federal regulations intended to protect them. | * | | | | | | | | | * | | | | |
| | | | | | | | | | | | | | | | |
| PALEO-6 | Avoidance areas will be flagged prior to construction activities. Flagging will be removed once construction is completed in an area. | * | | | | | | | | | * | | | | |
| | | | | | | | | | | | | | | | |
| PALEO-7 | If fossil materials are discovered during Project construction, all surface-disturbing activities in the vicinity of the find will cease until notification to proceed is given by the authorized officer. The site will be protected to reduce the risk of damage to fossils and context. | * | | | | | | | | | * | | | | |
| | | | | | | | | | | | | | | | |
| Blasting | | | | | | | | | | | | | | | |
| BLA-1 | A project specific Blasting Plan that meets all State, and Federal requirements shall be approved by the appropriate agency prior to the start of field activities and executed appropriately for the project. | * | * | * | | | | | | | | | | | * |
| | | | | | | | | | | | | | | | |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | |
|----------------------------------|---|------------------------------|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---------------|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| BLA-2 | If blasting occurs within 200 feet of any aboveground structure, the Contractor and IPC representative will inspect such structures before and after blasting. Contractor shall provide seismograph equipment to determine the peak particle velocity (PPV) at the aboveground facility. If the measured PPV at an existing pipeline or other structure exceeds the approved limits, the Contractor shall stop blasting activities immediately and notify IPC and in this event the Contractor's Blasting Plan must be modified to reduce the PPV prior to any further blasting. If damage occurs to an aboveground structure, the owner will be compensated. | | | | | | | | | | | | | * |
| | | | | | | | | | | | | | | * |
| BLA-3 | If a water well is damaged, the well owner will be compensated for damages or a new well of comparable yield will be provided. An alternative potable water supply will be provided to the landowner until repairs to the well occur or a new well is drilled. | | | | | | | | | | | | | * |
| | | | | | | | | | | | | | | * |
| BLA-4 | Prior to any detonation of explosives in the vicinity of existing facilities such as pipelines, dwellings, structures, overhead or underground utilities, farm operations, or public crossings, a minimum of 48 hours notice shall be given to IPC, the appropriate authorities, and the owners or operators of any facilities that may be affected by the blasting. | * | * | * | | | | | | | | | | * |
| | | | | | | | | | | | | | | * |
| BLA-5 | In the vicinity of other electrical lines, the Contractor shall use approved blasting procedures to minimize the potential hazard of a premature detonation due to induced currents. | * | * | * | | | | | | | | | | * |
| | | | | | | | | | | | | | | * |
| BLA-6 | All blasting shall include measures for prevention and suppression of wildfires in accordance with IPC's Fire Prevention and Suppression Plan. | * | * | * | | | | | | | | | | * |
| | | | | | | | | | | | | | | * |
| BLA-7 | The Contractor shall have on-site approved lightning detectors (?) capable of measuring the degree of electrical activity as a storm approaches, and the distance to the storm front from the instrument on the ROW. All loading and blasting activity shall cease and personnel in and around the blast area will retreat to secure positions away from the loaded holes when an approaching storm front is within 5 miles. Furthermore, workers shall not return to the work site until the storm has passed and the closest point of lightning activity has moved at least 5 miles beyond the drilling area. | * | * | * | | | | * | * | * | | | | * |
| | | | | | | | | | | | | | | * |

| Environmental Protection Measure | | Applicable to Land Ownership | | | Resource Impacts Targeted by Measure | | | | | | | | | |
|----------------------------------|--|------------------------------|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---------------|
| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| BLA-8 | The Contractor shall define procedures to prevent any unstable condition that may result from blasting operations. Blasting operations will be designed to mitigate unstable soil or geological conditions, which could result in hazards to people or property such as landslides, mudslides, and ground failure. | * | * | * | | | * | | | | | | | * |
| Agriculture | | | | | | | | | | | | | | |
| AGRI-1 | Maintain an active program of liaison with landowners and tenants, including specific points of contact whose responsibilities shall include preconstruction inventory, notices, complaint resolution, damage assessment, and negotiation and compensation. | | | | | | | | | | | | * | |
| AGRI-2 | Prior to any construction, IPC or their agent together with the landowner, the landowner's designate, and/or the tenant will examine each affected property to inventory crops, livestock, fences, irrigation systems, drain systems, etc. The landowner and/or tenant will be compensated for 100 percent of the damages caused to crops as a result of the construction and damaged improvements will be replaced or compensated. | | | | | | | | | | | * | | |
| AGRI-3 | IPC and the landowner will seek a mutual agreement concerning post-construction claims for damages or crop deficiencies. In the event IPC and the landowner are unable to reach a mutually satisfactory agreement, such claims will be assessed on an individual basis by a qualified agricultural specialist. The qualified agricultural specialist will be selected on a claim-by-claim basis by agreement of a representative designated by IPC and a representative designated by the party Farm Bureaus (or the landowner, at the election of the landowner). IPC shall pay the cost of retaining the qualified agricultural specialist. The agricultural specialist will review and evaluate claims of damages. If the agricultural specialist approves the claim, IPC will pay compensation for the claim in the amount determined by the agricultural specialist. Claims will be evaluated in a timely manner following notification of such damages or deficiencies from the landowner and/or tenant. | | | | | | | | | | | * | | |

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|----------------------------------|---|------------------------------|-------|---------|--------------------------------------|----------|--------------------------------|----------|------|------------------|------------------|----------|-------------|---|
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| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| AGRI-4 | Establish procedures for determining ingress and egress routes with landowners and tenants, protection methods for off-ROW roads over agricultural lands and on ROW pads. | | | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Provides procedures for access routes and other use of agricultural lands. |
| AGRI-5 | Establish the location of temporary roads to be used for construction purposes through negotiation with the landowner, with existing farm lanes or two tracks as preferred temporary access roads. | | | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Provides for landowner involvement in the siting of temporary access roads for construction |
| AGRI-6 | Contacting landowners and tenants to identify the location of irrigation systems and wells, underground irrigation water pipes, well systems, and drainage system that intersect the construction area. | | | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Provides a process for protection of agricultural related water systems. |
| AGRI-7 | Restore affected agricultural land to the pre-construction condition or provide compensation. | | | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Restoration or compensation for damage to agricultural lands. |
| Fire | | | | | | | | | | | | | | |
| FIRE-1 | A Fire Prevention and Suppression Plan that meets all required State, and Federal requirements shall be approved by the appropriate agency prior to the start of field activities and executed appropriately for the project. | * | * | * | | | | * | * | * | | | | * |
| | | | | | | | | | | | | | | Fire Prevention and Suppression Plan shall be prepared. |
| Air Quality | | | | | | | | | | | | | | |
| AIR-1 | Minimize idling time for diesel equipment whenever possible. | * | * | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Reduces emissions from construction equipment |
| AIR-2 | Ensure that diesel-powered construction equipment is properly tuned and maintained and shut off when not in direct use. | * | * | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Reduces emissions from construction equipment |
| AIR-3 | Prohibit engine tampering to increase horsepower. | * | * | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Reduces emissions from construction equipment |
| AIR-4 | Reduce construction-related trips as feasible for workers and equipment, including trucks. | * | * | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Reduces emissions from construction equipment |
| AIR-5 | Project-related vehicles and construction equipment will be required to use low-sulfur diesel fuel as soon as it is commercially available. | * | * | * | | | | | | | | | * | |
| | | | | | | | | | | | | | | Reduces emissions from construction equipment |

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| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| Noise | | | | | | | | | | | | | | |
| NOISE-1 | Identify and provide a public liaison before and during construction to respond to concerns of neighboring receptors, including residents, about noise construction disturbance. | | | * | | | | | | | | | | |
| | | | | | | | | | | | | | | Provides for public liaison for Project noise issues |
| NOISE-2 | Establish a toll-free telephone number for receiving questions or complaints during construction and develop procedures for responding to callers. | | | * | | | | | | | | | | Provides process and procedures for questions or complaints related to Project construction |
| Operation and Maintenance | | | | | | | | | | | | | | |
| OM-1 | IPC will comply with the road maintenance standards of the federal or state agency controlling the land. | * | * | | | | | | | | | | * | Provides for compliance with federal and state road maintenance standards. |
| OM-2 | Roads that are the responsibility of IPC to maintain will be maintained to have crossroad drainage to minimize the amount of channeling or ditches needed. Water bars will be installed at all alignment changes (curves), significant grade changes, and as requested by the federal or state agency. | * | * | * | | | | | | | | | * | IPC maintained roads will have crossroad drainage. |
| OM-3 | If during the course of O&M activities or emergency response activities the existing service road drainage structures are damaged, they shall be repaired/restored as soon as possible. | * | * | * | | | | | | | | | | Damage to existing service roads will quickly repaired/restored. |
| OM-4 | As agreed to by the parties involved, IPC will repair or replace existing improvements (fences, gates, etc.) if they are damaged by O&M activities. | * | * | * | | | | | | | | | | Provides for repair of existing improvements. |
| OM-5 | The Agencies may restrict general public access to closed federal or state roads and service roads that IPC maintains. In cases of restricted access, IPC will physically close the road with a gate. Gates will be locked with an IPC lock and a federal-agency lock. This Plan will be updated to reflect current road closures and gate locations as necessary. | * | * | | | | | * | | | | | | Provides a process for gating Project related roads on federal and state lands. |
| OM-6 | Before beginning an O&M project on federal or state land, IPC or its contractors shall comply with all appropriate Reclamation EPMs as appropriate to prevent the spread of noxious weeds. | * | * | | | | * | * | | | | | | EMPs established to prevent the spread of noxious weeds will be complied with. |

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| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| OM-7 | To help limit the spread and establishment of noxious-weed species in disturbed areas, desired vegetation needs to be established promptly after disturbance. IPC will rehabilitate significantly disturbed areas as soon as possible after ground-disturbing activities and during the optimal period. IPC will not reseed areas within a 20-foot radius around structures to minimize potential damage from wildland fires. IPC will not reseed disturbed areas that occur within large patches of non-native vegetation (e.g., cheat-grass dominated) where it is unlikely the reseeded species would out-compete the surrounding non-native vegetation. | * | * | * | | | | * | | * | | | | |
| | | | | | | | | | | | | | | Provides process for reestablishment of vegetation in disturbed areas to prevent the spread of noxious weeds. |
| OM-8 | If noxious-weed species occur within IPC's ROW as a result of IPC activities, IPC will coordinate treatment with the BLM, USFS, or other land owner as applicable. When determining whether treatment is necessary and whether it will produce the desired results, IPC will consider surrounding site conditions and whether weed-control activities will be conducted by other parties. IPC is only responsible for controlling noxious weeds to pre-disturbance levels. | * | | * | | | | * | | * | | | | |
| | | | | | | | | | | | | | | Provides process for coordination with agencies and land owners in treatment of noxious weeds, if treatment would be successful and responsible party for conducting the treatment. |
| OM-9 | Routine and corrective O&M activities in streams with sensitive fish species shall be conducted when possible, within the designated in-water work periods for each particular stream. | * | * | * | * | * | | | * | | | | | |
| | | | | | | | | | | | | | | Designated in-water work periods will be followed when possible. |
| OM-10 | Woody vegetation management within 100 feet of streams will be completed by hand crews. | * | * | * | * | * | | | * | | | | | |
| | | | | | | | | | | | | | | Provides for protection of streams during vegetation management activities. |
| OM-11 | Herbaceous plants and low-growing shrubs will be left in place if they do not interfere with the safe O&M of Project lines and equipment. | * | * | * | | | | | | | | | | |
| | | | | | | | | | | | | | | Low growing vegetation will be left in place when possible. |
| OM-12 | IPC will use existing stream crossings or new, permanent crossings that were approved as part of the Project, and IPC will not create additional crossings without prior agency permitting and approval. | * | * | * | * | * | | | * | | | | | |
| | | | | | | | | | | | | | | Additional stream crossings will not be created without agency permit and approval. |

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| Number | Measure | Federal | State | Private | Water | | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| OM-13 | Only herbicides approved by the land-managing agency as safe to use in aquatic environments and reviewed by IPC for effectiveness will be used within 100 feet of aquatic resources. | * | * | * | * | * | | | * | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | * | | * | | | |
| OM-14 | Sensitive plant or wildlife populations that occur within or adjacent to the ROW and work areas will be marked on the ground, where practical, to ensure they are avoided. If species are discovered during work, IPC will establish a spatial buffer zone and immediately contact the appropriate land-managing agency. Unless IPC is informed otherwise, work outside the buffer area will continue. If IPC needs to work within the buffer area, it will work with the appropriate land-managing agency to develop a mutually acceptable solution that allows the work to be completed within the scheduled outage window and/or in a timely manner. After the project is complete or no longer poses a threat to the plant populations, any marking will be promptly removed to protect the site's significance and location from unwanted attention. | * | * | | | | | | * | | * | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| OM-15 | If any sensitive plants or wildlife species require relocation, permission will be obtained from the appropriate land management agency and others as required. | * | * | | | | | | * | | * | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| OM-16 | If sensitive wildlife species are killed or injured due to construction or O&M activities, the appropriate land management agency and the Oregon Department of Fish and Wildlife (ODFW) will be notified. | * | * | * | | | | | * | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| OM-17 | Nesting, roosting, and perching birds—especially osprey—can cause power outages if their feces or nesting materials interfere with conductors, insulators, or air gaps. IPC, in consultation with the U.S Fish and Wildlife Service (FWS), manages nesting on distribution line structures to reduce conflicts. Such management may include relocating nests, modifying structures, and providing nesting platforms. IPC will continue to consult with the FWS and the appropriate land management agency when a problem nest is located on federal lands. | * | | | | | | | * | | | | | |
| | | | | | | | | | | | | | | |
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| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| OM-18 | For purposes of compliance with the Migratory Bird Treaty Act of 1918 and the Bald and Golden Eagle Protection Act of 1940, IPC will adhere to its Avian Protection Plan (March 2011) that provides protocols for minimizing electrocution and collision events and managing nests, including the protection of nests during vegetation management activities | * | | | | | | * | | | | | | |
| | | | | | | | | | | | | | | Provides for compliance with the Migratory Bird Treaty Act of 1918 and the Bald and Golden Eagle Protection Act of 1940 |
| OM-19 | Reseed significantly disturbed areas with a non-invasive seed mix approved by the land-managing agency or property owner. | * | * | * | * | * | * | * | * | | | | | |
| | | | | | | | | | | | | | | Non-invasive seed mixtures will be used |
| OM-20 | Employ appropriate interim erosion and/or sediment control measures if seeding cannot immediately take place. | * | * | * | * | * | * | * | * | | | | | |
| | | | | | | | | | | | | | | Where necessary, interim erosion and/or sediment control measures will be used. |
| OM-21 | Restore temporarily disturbed areas as closely as practical to original contours. | * | * | * | | | * | | | | | | | |
| | | | | | | | | | | | | | | Areas temporarily disturbed will be returned to original contours. |
| OM-22 | Use certified weed-free seed mixes and cover materials. | * | * | * | | | * | | * | | | | | |
| | | | | | | | | | | | | | | Certified weed-free seed mixes will be used |
| OM-23 | IPC or its designated contractor will generically mark the known cultural or paleontological site as an avoidance area prior to ground disturbance. After the project is complete or no longer poses a threat to cultural resources, marking will promptly be removed to protect the site's significance and location from unwanted attention. | * | * | * | | | | | | * | | | | |
| | | | | | | | | | | | | | | Provides for protection of cultural and historical resources |
| OM-24 | Upon discovery of any potential cultural or historical artifacts, work shall be stopped and IPC's archaeologist or designated archaeologist will make a preliminary assessment of the newly discovered resource. | * | * | * | | | | | | * | | | | |
| | | | | | | | | | | | | | | Provides for protection of undiscovered cultural and historical resources |
| OM-25 | If the archaeologist determines the discovery represents a potential new cultural or historical site or an undocumented feature of a documented site, the appropriate federal or state agency will be notified. | * | * | * | | | | | | * | | | | |
| | | | | | | | | | | | | | | Provides for protection of undiscovered cultural and historical resources |
| OM-26 | O&M activities will not resume in the area of the new cultural or historical resource site until cleared by the appropriate agency. | * | * | * | | | | | | * | | | | |
| | | | | | | | | | | | | | | Provides for protection of undiscovered cultural and historical resources |

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| | | | | | Streams | Wetlands | Soils | Wildlife | Fish | | | | | |
| OM-27 | Travel will be restricted to designated routes for crews and vehicles. Where a road intersects a known cultural or historical resource site, personnel shall be made aware that no off-road activity may occur. | * | * | * | | | | | | | * | | | |
| OM-28 | All human remains will be treated with the respect accorded them by state and federal laws applying to human remains. If human remains are discovered during O&M activities, IPC or their designated contractor will stop all work in the immediate area to protect the integrity of the find and notify the appropriate law-enforcement agency and landowner or land- management agency as soon as possible. In addition, the location of the find will be flagged or fenced off to protect it from further impacts. The law enforcement agency or coroner will determine the age of the human remains. If the remains are not modern, IPC will work with the appropriate federal or state agency to determine what mitigation is necessary and once the mitigation is complete, resume work in the area. | * | * | * | | | | | | | * | | | |
| OM-29 | O&M activities shall comply with all requirements of the approved Fire Protection and Suppression Plan. | * | * | * | | | | * | | | | | | * |
| Wildlife | | | | | | | | | | | | | | |
| PRC-1 | Seasonally, crucial winter range (if mapped) and critical bighorn sheep lambing areas will be avoided during construction | * | * | * | | | | * | | | | | | |
| PRC-2 | No construction activities will take place in crucial elk winter range between November 15 and March 15 | * | * | * | | | | * | | | | | | |
| PRC-3 | No construction activities will take place in crucial mule deer winter range between November 15 and March 15 | * | * | * | | | | * | | | | | | |

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| Number | Measure | Federal | State | Private | Water | | Soils | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | | Wildlife | Fish | Plants | | | | | |
| PRC-4 | Identified bald eagle nest sites within 0.5 mile of transmission line construction (access roads, tower platforms, and lay-down yards) will be surveyed for occupancy in mid February. If a site is occupied, a seasonal restriction will be enacted through August 1. Two additional surveys of occupied sites will be conducted by May 1 and July 1 to determine success of nest site. If a nest site is not active (failed) by May 1, the seasonal restriction will be removed and construction can commence | * | * | * | | | | * | | | | | | | |
| | | | | | | | | | | | | | | | Provides setback and timing restrictions for bald eagle nests |
| PRC-5 | Suitable burrowing owl (nesting) habitat, or identified nesting areas will be surveyed for active burrowing owl nest sites between March 1 and April 1 within 0.25 miles from construction sites. If an active nest site is located, a seasonal closure will be enacted, starting March 15 and ending August 1. Two additional surveys of occupied sites will be conducted by May 1 and July 1 to determine success of nest site. If a nest site is not active (failed) by May 1, the seasonal restriction will be removed and construction can commence. | * | * | * | | | | * | | | | | | | |
| | | | | | | | | | | | | | | | Provides setback and timing restrictions for burrowing owl nests. |
| PRC-6 | Suitable ferruginous nesting habitat, or identified nesting areas will be surveyed for active ferruginous hawk nest sites between March 1 and April 1 within 0.25 miles from construction sites. If an active nest site is located, a seasonal closure will be enacted, starting March 15 and ending August 1. Two additional surveys of occupied sites will be conducted by May 1 and July 1 to determine success of nest site. If a nest site is not active (failed) by May 1, the seasonal restriction will be removed and construction can commence. | * | * | * | | | | * | | | | | | | |
| | | | | | | | | | | | | | | | Provides setback and timing restrictions for ferruginous hawk nests. |
| PRC-7 | Suitable golden eagle nesting habitat, or identified nesting areas will be surveyed for active golden eagle nest sites between February 15 and March 15 within 0.50 miles from construction sites. If an active nest site is located, a seasonal closure will be enacted, starting March 15 and ending August 1. Two additional surveys of occupied sites will be conducted by May 1 and July 1 to determine success of nest site. If a nest site is not active (failed) by May 1, the seasonal restriction will be removed and construction can commence. | * | * | * | | | | * | | | | | | | |
| | | | | | | | | | | | | | | | Provides setback and timing restrictions for golden eagle nests. |

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| Number | Measure | Federal | State | Private | Water | | Soils | Sensitive Biological Resources | | | Cultural & Paleo | Visual Resources | Land Use | Air Quality | Public Safety |
| | | | | | Streams | Wetlands | | Wildlife | Fish | Plants | | | | | |
| Migratory Birds | | | | | | | | | | | | | | | |
| PAC-1 | Upland habitat suitable to nesting migratory birds will be surveyed prior to ground clearing between April 1 and June 15 for active nests. No seasonal restrictions will be imposed on clearing upland habitat between June 16 and March 31. Ground clearance in riparian habitats will be allowed between August 1 and March 30, with the exception of a seasonal constraint for impacts to fisheries resources. | * | * | * | | | | * | | | | | | | |
| | | | | | | | | | | | | | | | Provides timing restrictions for clearing of vegetation to protect nesting birds |
| PAC-2 | Any modifications to the preferred route or changes to the location of any Project features that result in construction being located outside the surveyed area will be assessed and documented according to the protocols and methods defined in the construction POD. | * | * | * | | | | * | | | | | | | |
| | | | | | | | | | | | | | | | Provides process for assessing and documenting changes to the route or other project features where located outside of surveyed areas |
| Special Status Plants | | | | | | | | | | | | | | | |
| PPC-1 | Surface disturbance will be allowed in potential slickspot peppergrass habitat, but where ground surveys 1 year prior to construction have determined no populations or habitats are present. | * | | | | | | | * | | | | | | |
| | | | | | | | | | | | | | | | Provides guidelines for disturbance in slickspot peppergrass habitat. |
| PPC-2 | Surface disturbance will be allowed in potential Howell's Spectacular Thelypody habitat, but where ground surveys 1-year prior to construction have determined no populations or habitats are present. | * | | | | | | | * | | | | | | |
| | | | | | | | | | | | | | | | Provides guidelines for disturbance in Howell's Spectacular Thelypody habitat. |