

USDA Forest Service  
Draft Preliminary Federal Power Act Section 4(e) Terms and Conditions  
Boundary Hydroelectric Project, No. 2144

**General**

License articles contained in the Federal Energy Regulatory Commission's (Commission) Standard Form L-5 issued by Order No. 540, dated October 31, 1975, cover those general requirements that the Secretary of Agriculture, acting by and through the USDA Forest Service, considers necessary for adequate protection and utilization of the land and related resources of the Colville National Forest. Under authority of section 4(e) of the Federal Power Act (16 U.S.C. § 797(e)), the following terms and conditions are deemed necessary for adequate protection and utilization of National Forest System lands and resources. These terms and conditions are based on those resources enumerated in the Organic Administration Act of 1897 (30 Stat. 11), the Multiple-Use Sustained Yield Act of 1960 (74 Stat. 215), the National Forest Management Act of 1976 (90 Stat. 2949), and any other law specifically establishing a unit of the National Forest System or prescribing the management thereof (such as the Wilderness Act or Wild and Scenic Rivers Act), as such laws may be amended from time to time, and as implemented by regulations and approved Land and Resources Management Plans prepared in accordance with the National Forest Management Act. Therefore, pursuant to section 4(e) of the Federal Power Act, the following conditions covering specific requirements for protection and utilization of the National Forest System lands shall also be included in any license issued for the Boundary Hydroelectric Project (Project) and any license amendment issued.

**USDA Forest Service Terms and Conditions**

- Condition No. 1 – Compliance with the Settlement Agreement**
- Condition No. 2 – Reservation of Authority in the Event the Settlement Agreement is Materially Modified or Not Accepted by the Commission**
- Condition No. 3 – Implementation of Settlement Agreement License Articles**
- Condition No. 4 - Implementation of the License on National Forest System Lands**
- Condition No. 5 - Surrender of License or Transfer of Ownership**
- Condition No. 6 - Self Insurance**
- Condition No. 7 - Reservation of Authority**
- Condition No. 8 – National Forest System Roads**
- Condition No. 9 – National Forest System Land Boundary Survey**

**Condition No. 1 – Compliance with the Settlement Agreement<sup>1</sup>**

The Licensee shall completely and fully comply with all provisions of the Boundary Hydroelectric Project Relicensing Settlement Agreement (Settlement Agreement) relating to:

1. All protection, mitigation and enhancement measures and other obligations identified in the Settlement Agreement and Exhibits which are on or affect National Forest System (NFS) lands and resources; and
2. All commitments in each and every plan referenced in the Settlement Agreement, and Exhibits which implement activities which are on or affect NFS lands and resources; provided, however,

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<sup>1</sup> Note for Conditions 1 and 2. Implementation requirements do not extend to off license agreements or other information provided to FERC along with the Settlement Agreement for information purposes only.

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that this Condition No. 1 excludes those measures and other obligations, and those provisions of the Settlement Agreement and Exhibits, relating to decommissioning of the Mill Pond Dam and implementation of the cold water release from Sullivan Lake (including, the Settlement Agreement §§ 7.14 and 7.15, and Settlement Agreement Exhibit 9 (Temperature Attainment Plan) §§ 4.1.2.1.1 and 4.1.2.2). In addition, this Condition No. 1 also excludes Appendices 1-3 and Attachments 1 and 2 of the Settlement Agreement.

**Condition No. 2 – Reservation of Authority in the Event the Settlement Agreement is Materially Modified or Not Accepted by the Commission**

USDA Forest Service preliminary terms and conditions are premised on two considerations:

1. The Commission’s acceptance and incorporation of the Settlement Agreement, Appendices, and Exhibits as they relate to activities that are on or affect National Forest System lands, without material modification into the new Project License; provided, however, that such acceptance and incorporation shall not extend to those provisions of the Settlement Agreement, Appendices and Exhibits relating to decommissioning of the Mill Pond Dam and implementation of the cold water release from Sullivan Lake as defined in Condition No. 1.
2. The Licensee’s immediate and complete implementation of its obligations in accordance with the Settlement Agreement as it may be modified or conformed by the Parties following issuance of the License by the Commission.

In the event either of these requirements are not met, the USDA Forest Service reserves its authority to supplement or modify its terms and conditions at a later time.

**Condition No. 3 – Implementation of Settlement Agreement License Articles**

The Licensee shall implement Settlement Agreement License Articles 1-10 as they relate to activities that are on or affect National Forest System lands.

1. Operations
2. Boundary Resource Coordinating Committee and Work Groups
3. Terrestrial Resources
4. Land Acquisition
5. Recreation Resources
6. Well Decommissioning
7. Programmatic Agreement
8. Water Quality Plans
9. Fish and Aquatic Resources
  - 9 (A) Mainstem Fish Community and Aquatic Habitat Measures
  - 9 (B) Upstream Fish Passage
  - 9 (C) Reduction of Project Related Entrainment Mortality
  - 9 (D) Tributary Non-native Trout Suppression and Eradication
  - 9 (E) Tributary Fish Community and Aquatic Habitat Measures
  - 9 (F) Mill Pond Dam Site Monitoring and Maintenance
  - 9 (G) Native Salmonid Conservation Program

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- 9 (H) Recreational Fish Stocking Program
- 9 (I) Fund for Habitat Improvements in Tributaries to Sullivan Lake
- 10. Escalation

**Condition No. 4 - Implementation of the License on National Forest System Lands**

The Licensee shall not commence implementation of habitat or ground-disturbing activities on National Forest System (NFS) lands until the USDA Forest Service has approved site-specific project designs and issued a notice to proceed.

Additional NFS Lands. If long term occupancy of NFS lands is required for Project related purposes and such occupancy is not authorized by including such lands within the FERC Project boundary, the Licensee shall obtain a special-use authorization for occupancy and use of such NFS lands from the USDA Forest Service. Within three months of License issuance and before conducting any habitat or ground-disturbing activities on such NFS lands, the Licensee shall apply to the USDA Forest Service for a special-use authorization for occupancy and use of NFS lands, and shall file the special-use authorization with the Commission once obtained.

Additional lands authorized for use by the Licensee in a new special-use authorization shall be subject to laws, rules, and regulations applicable to the NFS. The terms and conditions of the USDA Forest Service special-use authorization are enforceable by the USDA Forest Service under the laws, rules, and regulations applicable to the NFS. Should additional NFS lands be needed for this Project over the License term and such lands are not included within the FERC Project boundary, the special-use authorization shall be amended to include any additional NFS lands.

Approval of Changes on NFS Lands after License Issuance. Notwithstanding any License authorization to make changes to the Project, the Licensee shall receive written approval from the USDA Forest Service prior to making changes in the location of any constructed Project features or facilities on NFS lands, or in Project uses of NFS lands, or any departure from the requirements of any approved exhibits for Project facilities located on NFS lands filed by the Licensee with the Commission. Following receipt of such approval from the USDA Forest Service, and at least 60 days prior to initiating any such changes or departure, the Licensee shall file a report with the Commission describing the changes, the reasons for the changes, and showing the approval of the USDA Forest Service for such changes. The Licensee shall file an exact copy of the report with the USDA Forest Service at the time it is filed with the Commission.

Coordination with Other Authorized Uses on NFS Lands. In the event that portions of the Project area are under federal authorization for other activities and permitted uses, the Licensee shall consult with the USDA Forest Service to coordinate such activity with authorized uses before starting any activity on NFS land that the USDA Forest Service determines may affect another authorized activity.

Site-Specific Plans. The Licensee shall prepare site-specific plans subject to review and approval by the USDA Forest Service for habitat and ground-disturbing activities on NFS lands affected by the Project required by the License, including such activities contained within resource management plans required by the License to be prepared subsequent to License issuance. The Licensee shall prepare site-specific plans for planned activities one year in advance of implementation dates required by the License, or as otherwise agreed to by the USDA Forest Service. For activities planned in the first year after License issuance, the Licensee shall provide the site-specific plans to the USDA Forest Service sufficiently in

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advance of implementation to allow USDA Forest Service review and approval of the site-specific plans prior to implementation. For emergency situations, where corrective or mitigation actions must be implemented immediately, the Licensee will coordinate with the USDA Forest Service to expedite approvals and/or permits.

Site-specific plans shall include:

1. A map depicting the location of the proposed activity and GPS coordinates.
2. A description of the USDA Forest Service land management area designation for the location of the proposed activity and applicable standards and guidelines.
3. Where required by regulatory procedures, a description of alternative locations, designs and mitigation measures considered including erosion control and implementation and effectiveness monitoring designed to meet applicable standards and guidelines.
4. Draft biological evaluations or assessments including survey data as required by regulations applicable to habitat or ground-disturbing activities on NFS lands in existence at the time the plan is prepared.
5. An environmental analysis of the proposed action consistent with the USDA Forest Service policy and regulations for implementation of the National Environmental Policy Act (NEPA) in existence at the time the plan is prepared for Commission Licensed projects on NFS lands. Environmental Analysis completed by the Commission or others may be relied upon as appropriate on a project specific basis as agreed to by USDA Forest Service.
6. A Spill Prevention and Control, and Hazardous Materials Plan for hazardous materials storage, spill prevention and cleanup on NFS lands, as needed, will be provided to USDA Forest Service for review and approval before work commences.

Surveys and Land Corners. The Licensee shall avoid disturbance to all public land survey monuments, private property corners, and forest boundary markers. In the event that any such land markers or monuments are destroyed by an act or omission of the Licensee, in connection with the use and/or occupancy authorized by the License, depending on the type of monument destroyed, the Licensee shall reestablish or reference same in accordance with (1) the procedures outlined in the "Manual of Instructions for the Survey of the Public Land of the United States," (2) the specifications of the County Surveyor, or (3) the specifications of the USDA Forest Service. Further, the Licensee shall ensure that any such official survey records affected are amended as provided for by law.

Cost Reimbursement. The Licensee shall provide funding to the USDA Forest Service for costs incurred for the purposes of analysis and review of site specific plans, and inspection and monitoring required for implementing habitat-disturbing and ground-disturbing activities on NFS lands required by the License. All such funding for USDA Forest Service activities and employees shall be through the use of a collection agreement consistent with USDA Forest Service regulations in effect at the time the collection agreement is executed requiring the Licensee to make annual payments to the USDA Forest Service according to the Schedule of Payments attached hereto as Exhibit 1 to Condition No. 4. The collection agreement shall be executed by the Licensee and the Colville National Forest. Payments shall be made to coincide with the beginning of the federal fiscal year (October 1<sup>st</sup>). In the event that the Licensee requests USDA Forest Service to undertake any of the site-specific planning or surveying activities described in paragraphs 1-6 above, Licensee shall reimburse USDA Forest Service for its expenses under the terms of a reimbursement agreement to be entered into at such time as USDA Forest Service agrees to undertake the work.

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**Condition No. 5 - Surrender of License or Transfer of Ownership**

At least 1 year in advance of filing an application for License surrender, the Licensee shall prepare a restoration plan for NFS lands approved by the USDA Forest Service. The restoration plan shall identify improvements to be removed, restoration measures, and time frames for implementation and shall be filed with the Commission as part of the surrender application.

**Condition No. 6 - Indemnification**

The Licensee shall indemnify, defend, and hold the United States harmless for any costs, damages, claims, liabilities, and judgments arising from past, present, and future acts or omissions of the Licensee in connection with the Licensee's use and/or occupancy of National Forest System lands authorized by this License. This indemnification and hold harmless provision applies to any acts and omissions of the Licensee or the Licensee's assigns, agents, employees, affiliates, subsidiaries, fiduciaries, contractors, or lessees in connection with the Licensee's use and/or occupancy of National Forest System lands authorized by this License which result in: (1) violations of any laws and regulations which are now or which may in the future become applicable, and including but not limited to environmental laws such as the Comprehensive Environmental Response Compensation and Liability Act, Resource Conservation and Recovery Act, Oil Pollution Act, Clean Water Act, Clean Air Act; (2) judgments, claims, demands, penalties, or fees assessed against the United States; (3) costs, expenses, and damages incurred by the United States (other than as contemplated by the License); or (4) the release or threatened release of any solid waste, hazardous substances, pollutant, contaminant, or oil in any form in the environment.

**Condition No. 7 - Reservation of Authority**

The Licensee shall implement, upon order of the Commission, such additional conditions as may be identified by the Secretary of Agriculture, pursuant to the authority provided in Section 4(e) of the Federal Power Act, as necessary for the adequate protection and utilization of the public land reservations under the authority of the USDA Forest Service, provided that such additional conditions are necessary, based on compelling evidence, to address changed circumstances.

**Condition No. 8 – National Forest System Roads**

The Licensee shall be authorized to construct, reconstruct, use and maintain those roads across National Forest System lands that are necessary for the operation, maintenance, and recreational use of the Project as identified and described in Table 1. The Licensee shall have authorization to use the roads described in Table 1 if the roads are included in the Project boundary, or by a special use authorization (SUA) issued by the USDA Forest Service for those roads not included within the Project boundary, or as is otherwise provided in Table 1. The Licensee shall apply for an SUA within three months of License issuance for those roads not included within the Project boundary. Construction and reconstruction of roads listed in Table 1 shall conform to plans, specifications and written stipulations approved by the USDA Forest Service prior to beginning construction and reconstruction work. Roads listed in Table 1 shall be maintained to the level and standards listed in Table 1 and described in Appendix A, as may be amended during the License term.

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**Table 1: Authorization and Responsibility for Roads needed for Boundary Project operation and maintenance**

<b>Road Name/Number</b>	<b>Access Points</b>	<b>Authorization Across FS Land</b>	<b>SCL Maintenance/Reconstruction Responsibility</b>
West Side Access Road	Main access road from Pend Oreille Co. Rd. 2975 to Boundary Dam.	Use of this road segment shall be authorized by including the segment within the Project boundary or by issuance of an SUA by USDA Forest Service for segments not included within the Project boundary.	SCL to maintain for Project and public access. To be maintained to Maintenance Level 5.
FS 6200348	Access to main transmission line towers between Boundary Dam and BPA yard.	Use of this road segment shall be authorized by including the segment within the Project boundary or by issuance of an SUA by USDA Forest Service for segments not included within the Project boundary.	Share by first use. <sup>1</sup> To be maintained to Maintenance Level 2.
FS 3165000/ Pend Oreille Co. Rd. 3990	Main access route between State Route 31 and the east side of Boundary Dam and the Vista House	SCL shall be authorized to use, maintain and reconstruct this road across National Forest System lands by issuance of an SUA by USDA Forest Service or through a grant of a Public Road Easement to Pend Oreille County.	To be maintained to Maintenance Level 5.
FS 3165350	Road across dam, connecting Pend Oreille Co. Rd. 3990 with the West Side Access Road	Use of this road segment shall be authorized by including the segment within the Project boundary or by issuance of an SUA by USDA Forest Service for segments not included within the Project boundary.	SCL to maintain for project operation and maintenance use. To be maintained to Maintenance Level 2.
FS 3100172	Access to Riverside Mine reservoir overlook from SR 31 to junction with FS 3100178 and trailhead	Use of this road segment shall be authorized by including the segment within the Project boundary or by issuance of an SUA by USDA Forest Service for segments not included within the Project boundary.	SCL to reconstruct and maintain for public access. To be maintained to Maintenance Level 3.
FS 3165325	Access to Pee Wee Falls overlook from POC 3990/FS 3165000 to junction with FS 3165315	Use of this road segment shall be authorized by including the segment within the Project boundary or by issuance of an SUA by USDA Forest Service for segments not included within the Project boundary.	SCL to reconstruct and maintain for public access. To be maintained to Maintenance Level 3.
FS 3165315	Access to Pee Wee	Use of this road segment shall	SCL to reconstruct the existing

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Road Name/Number	Access Points	Authorization Across FS Land	SCL Maintenance/Reconstruction Responsibility
	Falls overlook from FS 3165325 to trailhead	be authorized by including the segment within the Project boundary or by issuance of an SUA by USDA Forest Service for segments not included within the Project boundary.	segment of road and construct an extension of this road (if needed) to a proposed trailhead and maintain for public access. To be maintained to Maintenance Level 3.
FS 3165340	Road accessing up stream dam deflection monitoring point off of Pend Oreille Co. Rd. 3990/FS 3165000	Access shall be approved by USDA Forest as described in USDA Forest Service Condition 4 (Implementation of the License on National Forest System Lands).	SCL to close with an earthen-berm after the unauthorized road segment is decommissioned.
Unauthorized Road off FS 3165340	Road accessing up stream dam deflection monitoring point off of the 3165340 Road	Access shall be approved by USDA Forest as described in USDA Forest Service Condition 4 (Implementation of the License on National Forest System Lands).	SCL to decommission road and stabilize the 2 mass wasting sites.

<sup>1</sup>Share the road maintenance and reconstruction based on who needs the road first. When the road is needed, the organization that needs the road first will perform the maintenance and reconstruction needed to accommodate their use. If the road is currently closed, once the road is no longer needed, it will be reclosed and maintained to a USDA Forest Service maintenance level 1 configuration.

**Condition No. 9 – National Forest System Land Boundary Survey**

Within three years of License issuance, the Licensee shall re-establish the Public Land Survey System Corners, or establish witness corners governing National Forest System property boundaries within and adjacent to the Project area. The corners, which need to be re-established, are identified in Table 1. The Licensee shall also survey, mark and post to USDA Forest Service standards and specifications those National Forest System lands adjacent to the Project, as identified in Table 1. The Licensee shall be responsible for all USDA Forest Service administrative costs associated with surveying, marking and posting of National Forest System lands identified in Table 1.

In addition, the Licensee shall post Project Boundary signs at all public access points at the Project boundary, informing the public of the location of the boundary. These locations include, but are not limited to, Metaline Waterfront Park, Boundary Forebay Recreation Area, BLM recreation site across from Everett Island, and at any new overlooks and trail access points. The Licensee and USDA Forest Service shall discuss additional locations where there may be public access that requires posting of signs. The Licensee shall post signs at such additional locations as agreed to with the USDA Forest Service.

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Table 1 – Boundary Survey

<b>Legal Description Willamette Meridian</b>	<b>Corners</b>	<b>Survey and Post</b>
T39N, R43E Section 10	Witness corner to Corner 3 of Cromwell Lode	1. North line of the Cromwell Lode 2. West line of the Shale No. 11 Lode North of Corner 4 of the Cromwell Lode
T39N, R43E Section 28	1. Witness corner to Corner 1 MS 984 2. West Meander Corner on the North Section line (Section 28)	Government Lots 5 and 11

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**Exhibit 1**  
**USDA Forest Service Condition No. 4**

Schedule of Payments

<u>Year No</u>	<u>Payment</u>
1	\$90,000
2	\$90,000
3	\$90,000
4	\$90,000
5	\$90,000
6	\$90,000
7	\$50,000
8	\$50,000
9	\$50,000
10	\$50,000
11	\$29,000
12	\$29,000
13	\$29,000
14	\$29,000
15	\$29,000
16	\$19,000
17	\$19,000
18	\$19,000
19	\$19,000
20	\$19,000
21	\$19,000
22	\$19,000
23	\$19,000
24	\$19,000
25	\$19,000

<u>Year No.</u>	<u>Payment</u>
26	\$19,000
27	\$19,000
28	\$19,000
29	\$19,000
30*	\$19,000
31	\$19,000
32	\$19,000
33	\$19,000
34	\$19,000
35	\$19,000
36	\$19,000
37	\$19,000
38	\$19,000
39	\$19,000
40	\$19,000
41	\$19,000
42	\$19,000
43	\$19,000
44	\$19,000
45	\$19,000
46	\$9,000
47	\$9,000
48	\$9,000
49	\$9,000
50	\$9,000

All payment amounts specified in dollars in this Exhibit 1 shall be deemed to be stated as of the year 2009, and SCL shall escalate such sums as of January 1 of each following year (starting in January 2012, or in the year preceding License issuance, whichever is later) according to the following formula:

$$AD = D \times (NGDP)/(IGDP)$$

Where:

AD = Adjusted dollar amount as of January 1 of the year in which the adjustment is made.

D = Dollar amount prior to adjustment.

IGDP = "GDP-IPD" for the third quarter of the year before the previous adjustment date

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NGDP = (or, in the case of the first adjustment, the third quarter of the year 2009).  
“GDP-IPD” for the third quarter of the year before the current adjustment date.

(b) “GDP-IPD” is the value published for the Gross Domestic Product Implicit Price Deflator by the U.S. Department of Commerce, Bureau of Economic Analysis in the publication Survey of Current Business, in the third month following the end of the applicable quarter. If that index ceases to be published, any reasonably equivalent index published by the Bureau of Economic Analysis may be substituted upon approval by the Commission. If the base year for “GDP-IPD” is changed or if publication of the index is discontinued, the Licensee shall notify the Commission as soon as possible and recommend, after consultation with the Settlement Agreement Parties, adjustments or an alternative index that achieves the same economic effect.

\* Schedule past 30 years established to accommodate the License term ordered by the Commission.

**Appendix A**  
**USDA Forest Service Condition No. 8**

803 - SNOW REMOVAL

803.01

Service Required

Remove snow as needed for project and/or public use on roads authorized for maintenance in the Project License.

803.02

Performance Standard

Snow removal is complete when the surface is available and useable for all intended use, safe for the intended users, and will efficiently drain.

803.03

Location of Work

As needed on roads authorized for maintenance.

803.04

Measurement

Measurement under this Section will be made by the total number of units treated.

A. Single Lane Roads: Snow removal will be measured along the centerline of the roadway. Turnouts are considered incidental. Measurement will be to the nearest one-tenth (0.1) mile.

B. Double Lane Roads: Snow removal will be measured along the centerline of the roadway. Measurement will be to the nearest one-tenth (0.1) mile.

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Surface Damage	A loss of more than 10 CY/mile on agg surface roads or any damage on paved surfaces.	A loss of less than 10 CY/mile on agg surface roads or any damage on paved surfaces.	0	2 locations, not more than 20' long per mile	Replace or recover lost material or repair damaged surface	Accept the loss of material or repair damaged surface
Drainage: Impeded flow for ditches, inlet/outlet channels, and catch basins	Water will be diverted out of the drainage structure or system	< 20% impeded, but water will stay in the channel.	0	1 location per mile	Rework	Rework if greater than 1 locations per mile
Remaining Snow depth	Exceed maximum depth by 3 inches for 20 feet of road and not to exceed 1 location per mile	Exceed maximum depth by 2 inch for 20 feet of road and not to exceed 2 locations per mile	0	4 locations per mile	Rework	Rework if greater than 4 locations per mile
Backslopes	Undercut backslope will result in destabilization of slope	Undercut backslope will not result in destabilization of slope	0	0	Repair and Stabilize	Revegetate
Overwidth Plowing	Undefined edge of traveled way	N/A	0	N/A	Reshape as necessary	N/A
Underwidth Plowing	Too narrow for intended use	N/A	0	N/A	Widen as necessary	N/A
Damage to Structures and Appurtenances	Any Damage	Any Damage	0	0	Repair or Replace	Repair or Replace
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary	Not following approved safety plan which may include signs, flaggers, and other temporary	0	0	Suspend work until in compliance	Suspend work until in compliance

Description	Major	Minor	Allowable Defects		Required Action	
	traffic control measures	traffic control measures				

811 SURFACE MAINTENANCE

811.01

Service Required

Smooth and shape native or aggregate surfaced roads including traveled way, shoulders, turnouts, and intersections. Reshape or recondition ditches, water bars, and drain dips, as needed for project and/or public use on roads authorized for maintenance in the Project License.

811.02

Performance Standards

**A. Maintenance Level 4 and 5 Roads**

A road surface is maintained to standard when the travel way is free of washboards, potholes, or other irregularities. The surface is smooth, compact, crowned or sloped to drain, without segregation of the surfacing materials. Suitable materials have been recovered and incorporated. Unsuitable materials have been removed. Ditches and road surface drainage structures function efficiently. Unpaved shoulders are shaped to provide a smooth transition from the paved surface and drain efficiently.

**B. Maintenance Level 3 Roads**

A road surface is maintained to standard when the surface is compact, crowned, or sloped to drain, without segregation of the surfacing materials. The road surface has no ruts or rills, suitable materials have been recovered and incorporated. Unsuitable materials have been removed. Ditches and road surface drainage structures function efficiently.

**C. Maintenance Level 2 Roads**

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A road surface is maintained to standard when the surface is shaped to drain, and where ditches and road surface drainage structures function efficiently. The road surface has no continuous ruts or rills, and no large concentrations of unsuitable materials remain.

811.03

Location of Work

As needed on roads authorized for maintenance.

811.04

Measurement

Measurement under this Section will be made by the total number of units treated.

Road Mile: Work activity will be measured along the centerline of the road regardless of the number of lanes or turnouts. Measurement will be to the nearest one-tenth (0.1) mile.

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Surface Irregularities (Level 4&5 paved roads)	Potholes greater than 2" deep and wider than 1 foot	Potholes 2" or less deep and 1 foot or less wide	0 location per mile	2 locations per mile	Rework if any defects	Rework if greater than 2 locations per mile
Surface Irregularities (Level 3)	Potholes greater than 2" deep and wider than 1 foot	Potholes 2" or less deep and 1 foot or less wide	1 location per mile	4 locations per mile	Rework if greater than 1 major defects	Rework if greater than 4 locations per mile
	Washboards greater than 1" deep and exceeding 50' in length	Washboards less than 1" deep and not exceeding 20 feet long	1 location per mile	3 locations per mile	Rework if greater than 1 major defects	Rework if greater than 3 locations per mile
Road Cross Section (Level 3)	Crown or Cross Slope is not uniform and does not drain as specified on more than 250' of surface per mile	Crown or Cross Slope is not uniform and does not drain as specified on less than 250' of surface per mile	0	0	Rework	Rework
Road Cross Section (Level 2)	Road surface does not drain properly and causes erosion, or obstructs high clearance vehicles	Road surface does not drain properly, but does not cause erosion	0	0	Rework	Rework
Oversized Material (Level 3 aggregate surfaced roads)	Material greater than 3" diameter remaining on the road surface	Material less than 3" diameter remaining on the road surface and traffic safety is not compromised	0	0	Rework	Rework
Oversized Material (Level 2)	Objects in traveled way that obstruct high clearance vehicles	Debris in traveled way that may impede high clearance vehicles	0	0	Rework	Rework
Aggregate Surface Quality	Gradation of surface aggregate is degraded by more than 10 %	Gradation of surface aggregate is degraded by less than 10 %	0	0	Rework	Rework

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
	A loss of more than 10 CY/mile	A loss of less than 10 CY/mile	0	1 location per mile	Replace or recover lost material	Accept the loss of material
	surfacing is segregated over more than a 100 square yard area per 1000 linear feet of road and traffic safety is compromised	surfacing is segregated over less than a 100 square yard area per 1000 linear feet of road and traffic safety is not compromised	0	N/A	Rework	Accept the loss of surface quality
<b>Backslopes</b>	Undercut backslope will result in destabilization of slope	Undercut backslope will not result in destabilization of slope	0	0	Repair and Stabilize	Revegetate
<b>Ditches and Road Drainage Structures</b>	Impeded flow or water diverted out of drainage structures	< 20% impeded, but water will stay in the channel	0	1 location per unit	Rework	Rework if greater than 1 location per mile
<b>Unpaved Shoulders (Level 3, 4, &amp; 5)</b>	Elevation difference between pavement and shoulder is greater than 1"	Elevation difference between pavement and shoulder is less than 1"	0	4 locations per mile	Rework	Rework if greater than 4 locations per mile
	Material greater than 1/4" diameter remaining on the paved road surface	Material 1/4" diameter or less remaining on the paved road surface and traffic safety is not compromised	0	2 locations per mile	Rework if greater than 1 major defects	Rework if greater than 2 locations per mile
	Does not drain away from pavement	Does not drain away from pavement	0	0	Rework	Rework
<b>Working outside of project limits</b>	Area contains invasive weeds	N/A	0	N/A	Repair and treat affected areas as directed by the FS	N/A

812 SURFACE STABILIZATION

812.01

Service Required

Stabilize surfaces and control dust as needed for project and/or public use on roads authorized for maintenance in the Project License.

812.02

Performance Standard

Surface Stabilization is complete when the surface remains stable and dust does not become air borne for greater than a 3 minute time period.

812.03

Location of Work

As needed on roads authorized for maintenance

812.04

Measurement

Measurement under this Section will be made by the total number of units treated.

Road Mile: Work activity will be measured along the centerline of the road regardless of the number of lanes or turnouts. Measurement will be to the nearest one-tenth (0.1) mile.

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Application	Failure to stabilize material for designated time period over continuous sections of road	Failure to stabilize material over 100' length of road.	0	1 location per mile	Rework	Accept if 1 per mile. Rework if more than 2 per mile
Loss of product off treatment surface	product runs off surface and has potential to enter stream	product runs off surface but no potential to enter stream	0	0	Contain and remove	Contain and stabilize
Compliance with laws/regulations	Any non-compliance	Any non-compliance	0	0	Suspend work until in compliance	Suspend work until in compliance
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	0	0	Suspend work until in compliance	Suspend work until in compliance

813 SPOT SURFACING

813.01

Service Required

Load, haul, and place surfacing material to repair or stabilize road surfaces as needed for project and/or public use on roads authorized for maintenance in the Project License.

813.02

Performance Standard

- A. Spot surfacing is complete when sufficient surfacing is placed to stabilize the road surface.
- B. All materials transported onto National Forest System land will be weed-free. Weed free surfacing sources are those which have been inspected by the Pend Oreille weed board rep and certified that at the time of inspection that there were no noxious weeds listed in the State of Washington present on the aggregate stockpile or pit face where material is to be excavated from.

813.03

Location of Work

As needed on roads authorized for maintenance

813.04

Measurement

Measurement under this Section will be made by the total number of units treated.

Road Mile: Work activity will be measured along the centerline of the road regardless of the number of lanes or turnouts. Measurement will be to the nearest one-tenth (0.1) mile.

813.04  
 Acceptable Quality Levels

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Depth of Aggregate	Depth of spot surfacing is less than that needed to stabilize the road surface..		0	N/A	If depth is low, correct placement of aggregate to depth needed to stabilize road surface.	Accept aggregate as placed
Width of Aggregate	Width of spot surfacing is less than that needed to stabilize the road surface.		0	N/A	If width is narrow, correct placement of aggregate to width needed to stabilize road surface.	Accept aggregate as placed
Length	Dimension of spot surfacing is shorter than needed to stabilize the road surface.		0	N/A	If length is shorter than needed, correct placement of surfacing to length needed to stabilize road surface.	Accept aggregate as placed
Compaction	Visible displacement occurs under heavy spreading equipment	N/A	0	N/A	Rework	N/A
Aggregate Quality	Does not meet specified gradation or durability requirements and is not suitable for intended use	Does not meet specified gradation or durability requirements and is suitable for intended use	0	N/A	Reject and replace	Accept
	Material source does not meet weed free requirement	N/A	0	N/A	Reject source	N/A
Finish Quality	Spot surfacing doesn't conform to the adjacent road segments and traffic is impeded.	Spot surfacing generally conforms to the adjacent road segments, but traffic may be slowed.	0	1 location per mile	Reshape or recompact surfacing as needed.	Accept

814 ASPHALT SURFACE MAINTENANCE

814.01

Service Required

Repair and cleaning of pavement surfaces as needed for project and/or public use on roads authorized for maintenance in the Project License.

814.02

Performance Standard

This work is complete when the pavement is clean and free of cracks, potholes, and surface irregularities.

*Follow industry standards as outlined in the Asphalt Institute Manual Series Number 16.*

814.03

Location of Work

As needed on roads authorized for maintenance

814.04

Measurement

Measurement under this Section will be made by the total number of units treated.

Road Mile: Work activity will be measured along the centerline of the road regardless of the number of lanes or turnouts. Measurement will be to the nearest one-tenth (0.1) mile.

814.05

Acceptable Quality Levels

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Pothole Patching	Finished elevation does not match adjoining segments by more than 1/4 inch	N/A	0	N/A	Rework	N/A
	Patched material does not properly adhere to adjacent surfaces	N/A	0	N/A	Rework	N/A
	Area to be patched is not properly prepared	N/A	0	N/A	Rework	N/A
Skin Patching	Finished skin patch does not make smooth transition with adjoining pavement.	N/A	0	N/A	Rework	N/A
	Patched material does not properly adhere to adjacent surfaces	N/A	0	N/A	Rework	N/A
	Area to be patched is not properly prepared	N/A	0	N/A	Rework	N/A
Crack Sealing	Crack Sealant does not completely fill the cracks greater than 1/4 inch	Crack Sealant does not completely fill the cracks 1/4 inch or less	0	20' length per mile	Rework	Rework if greater than 20' per mile
	Crack sealant does not properly adhere to adjacent surfaces	N/A	0	N/A	Rework	N/A
	Area to be sealed is not properly prepared	N/A	0	N/A	Rework	N/A
Surface Cleaning	More than 5% of surface is not cleaned as specified	Less than 5% of surface is not cleaned as specified	0	2 – 10 square foot locations per mile	Rework	Rework if greater than 2 locations per mile
Asphalt Quality	Product and gradation does not meet Specifications and is not suitable for job.	Product and gradation does not meet Specifications but is otherwise suitable for job.	0	N/A	Reject and replace	Accept

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	0	0	Suspend work until in compliance	Suspend work until in compliance

832 LOAD, HAUL, AND PLACE MATERIALS

832.01

Service Required

Load slide and other obstruction material, haul, and place material at designated sites as needed for project and/or public use on roads authorized for maintenance in the Project License.

832.02

Performance Standard

Loading, hauling, and placing is complete when no obstruction remains in or adjacent to the roadway or in ditches which would have the potential to interfere with traffic use, block or divert water from structures or channels. This includes relocation, repositioning, stabilization, and revegetation.

832.03

Location of Work

As needed on roads authorized for maintenance

832.04

Measurement

Measurement under this Section will be made by the total number of units treated.

Road Mile: Work activity will be measured along the centerline of the road regardless of the number of lanes or turnouts. Measurement will be to the nearest one-tenth (0.1) mile.

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Slopes	Unstable material left on slopes	Material left on slopes that can be stabilized and won't block drainages	0	4 locations per mile	Remove	Remove or revegetate in place
Backslopes	Undercut backslope will result in destabilization of slope	Undercut backslope will not result in destabilization of slope	0	4 locations per mile	Repair and Stabilize	Revegetate if greater than 4 locations per mile
Ditches, inlet/outlet channels, streams and catch basins	water will be diverted out of the drainage structure or soil enters system	< 20% impeded, but water will stay in the channel.	0	2 locations per mile	Rework	Rework if greater than 2 locations per mile
Debris on Road (ML 4-5)	Any debris in traveled way	Debris in traveled way that may slow or impede traffic.	0	0	Rework	Rework
Debris on Road (ML 3)	Debris in traveled way that may impede traffic.	Debris in traveled way that may slow traffic.	0	0	Rework	Rework
Debris on Road (ML 2)	Objects in traveled way that obstruct high clearance vehicles	Debris in traveled way that may impede high clearance vehicles	0	2 locations per mile	Rework	Rework if greater than 2 locations per mile
Placed Material (Disposal Sites)	Unstable material on designated sites.	N/A	0	N/A	Stabilize	N/A
Revegetation	No revegetation work done	Revegetation work incomplete	0	1 location per mile	Rework	Rework if greater than 1 location per mile

Description	Major	Minor	Allowable Defects		Required Action	
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	0	0	Suspend work until in compliance	Suspend work until in compliance

834 ROADWAY DRAINAGE SYSTEM MAINTENANCE

834.01

Service Required

Clean and recondition roadway drainage systems including culverts, ditches, inlet and outlet channels, catch basins, and appurtenances as needed for project and/or public use on roads authorized for maintenance in the Project License.

834.02

Performance Standard

Drainage system maintenance is complete when no obstruction remains in the defined area adjacent to the structure or in ditches which would have the potential to block water from entering the structure, back water into the structure (except for structures designed to function in a back-flooded manner), or divert water outside the defined channel. Equipment operation in live streams or hydraulic flushing of drainage structures is not permitted.

834.03

Location of Work

As needed on roads authorized for maintenance, and;

1. Drainage structures including inlet structures, culverts, catch basins, inlet/outlet channels, and ditches on the road and at road intersections.
2. Culverts - a minimum external horizontal distance of 10 feet in any direction from the inlet and outlet end and a minimum internal distance of 3 feet from the inlet and outlet ends.
3. Ditches adjacent to the roadbed.

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4. This work does not include bridges, cattleguards, drain dips, or water bars.

834.04

Measurement

Measurement under this Section will be made by the total number of units treated.

Road Mile: Work activity will be measured along the centerline of the road regardless of the number of lanes or turnouts. Measurement will be to the nearest one-tenth (0.1) mile.

834.06

Acceptable Quality Levels

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Blocked Culverts	Greater than 20 % of end area blocked	20% or less of end area blocked	0	2 per mile	Rework	Rework if greater than 2 per mile
Damaged Culvert Inlet/outlets	Greater than 20 % of end area blocked	20% or less of end area blocked	0	2 per mile	Rework	Rework if greater than 2 per mile
Impeded flow for ditches, inlet/outlet channels, and catch basins	water will be diverted out of the drainage structure or system	< 20% impeded, but water will stay in the channel.	0	2 locations per mile	Rework	Rework if greater than 2 locations per mile
Debris on Road (ML 4-5) produced by Service Provider operations.	Any debris in traveled way	N/A	0	0	Rework	Rework
Debris on Road (ML 3) produced by Service Provider operations.	Debris in traveled way that may impede traffic.	Debris in traveled way that may slow traffic.	0	0	Rework	Rework
Debris on Road (ML 2) produced by Service Provider operations.	Objects in traveled way that obstruct high clearance vehicles	Debris in traveled way that may impede high clearance vehicles	0	2 locations per mile	Rework	Rework if greater than 2 locations per mile

Description	Major	Minor	Allowable Defects		Required Action	
Aggregate Surface Quality	Gradation of surface aggregate is degraded by more than 10 %	Gradation of surface aggregate is degraded by 10 % or less for less than 100' of road length	0	2 locations per mile	Rework	Rework if greater than 2 locations with minor defects
Bankslopes	Undercut backslope will result in destabilization of slope	Undercut backslope will not result in destabilization of slope	0	4 locations per mile	Repair and Stabilize	Revegetate if greater than 4 locations per mile
Vegetation	woody vegetation within 5 feet of the inlet end of drainage structures or in ditches that interferes with flow	low growing vegetation within 5 feet or more of inlet end of drainage structures or in ditches that does not interfere with flow	0	N/A	Remove	Leave in place
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	0	0	Suspend work until in compliance	Suspend work until in compliance
Working outside project limits	Area contains invasive weeds	N/A	0	N/A	Repair and treat affected areas as directed by the Contracting Officer	N/A

841 VEGETATION TREATMENT

841.01

Service Required

Apply seed as needed to revegetate areas disturbed through road maintenance and operations actions on roads authorized for maintenance in the Project License. The seed mixture shall be composed of the following species:

Sheep Fescue @ 6 pounds per acre

Streambank Wheatgrass @ 6 pounds per acre

Pubescent Wheatgrass @ 8 pounds per acre

841.02

Performance Standard

Treatment is complete when ordered quantities of vegetative treatment products have been applied to designated or Service Provider disturbed soil areas.

836.03

Location of Work

As needed on roads authorized for maintenance

836.04

Measurement

Measurement under this Section will be made by the total number of units treated.

Road Mile: Work activity will be measured along the centerline of the road regardless of the number of lanes or turnouts. Measurement will be to the nearest one-tenth (0.1) mile.

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Seed Mix	Seed mix is not as specified	N/A	0	N/A	Reject and replace	N/A
Mulch	Mulch is not as specified	N/A	0	N/A	Reject and replace	N/A
Fertilizer	Fertilizer is not as specified	N/A	0	N/A	Reject and replace	N/A
Weeds	Does not conform to Federal, State, and Local seed and noxious weed acts and laws.	N/A	0	N/A	Reject and replace	N/A
Application	Less than 80% of the designated area is treated	Between 80% and 100% of the designated area is treated	0	at each site	Rework	Rework if greater than 1 minor defects
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	N/A	0	N/A	Suspend work until in compliance	N/A

USDA Forest Service  
FPA Section 4(e) Terms and Conditions  
Boundary Hydroelectric Project, No. 2144

842 ROADWAY VEGETATION MAINTENANCE

842.01

Service Required

Remove vegetation, including trees, on roadway surfaces and roadsides as needed for project and/or public use on roads authorized for maintenance in the Project License.

842.02

Performance Standard

Roadway vegetation maintenance is complete when the vegetation has been removed from the designated treatment area which interferes with traffic, obscures signs, impedes the flow of water or diverts water from drainage structures.

842.03

Location of Work

A. As needed on roads authorized for maintenance, and

***Maintenance Level 4 and 5 Roads***

The treated area includes the roadbed measured from centerline to bottom of ditch / or defined road edge, plus an additional 4 feet on each side. If there is no defined road edge, or a ditch does not exist, the treated area is 8 feet from both sides of centerline of the road. Provide a vertical clearance of 13 feet measured from the road surface elevation. Vegetation shall be removed to a maximum height of 6 inches above ground surfaces.

***Maintenance Level 3 Roads***

The treated area includes the roadbed measured from centerline to bottom of ditch, or defined road edge, plus an additional 4 feet on each side. If there is no defined road edge, or a ditch does not exist, the treated area is 8 feet from both sides of centerline of the road. Provide a vertical clearance of 13 feet measured from the road surface elevation. Vegetation shall be removed to a maximum height of 6 inches above ground surfaces.

***Maintenance Level 2 Roads***

The treated area includes the roadbed measured from centerline to bottom of ditch, or defined road edge, plus an additional 4 feet on each side. If there is no defined road edge, or a ditch does not exist, the treated area is 8 feet from both sides of centerline of the road. Provide a vertical clearance of 13 feet measured from the road surface elevation. Vegetation shall be removed to a maximum height of 6 inches above ground surfaces.

842.04

Measurement

Measurement under this Section will be made by the total number of units treated.

Road Mile: Work activity will be measured along the centerline of the road regardless of the number of lanes or turnouts. Measurement will be to the nearest one-tenth (0.1) mile.

842.06

Acceptable Quality Levels

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Tree damage	Damage to more than 30% of the tree bole	Damage to 30% or less of the tree bole	2 per unit	5 per Mile	Remove or Treat	Treat
Horizontal Clearance	More than 20% not cleared to limits	20% or less not cleared to limits	0	1 per Mile	Rework	Rework if greater than 1 minor defects
Vertical Clearance	More than 20% not cleared to limits	20% or less not cleared to limits	0	1 per Mile	Rework	Rework if greater than 1 minor defects
Height above ground surface	More than 20% not cleared to limits	20% or less not cleared to limits	0	1 per Mile	Rework	Rework if greater than 1 minor defects
Drainage	Impeded flow or water diverted out of drainage structures.	20% or less impeded, but water will stay in the channel.	0	0	Rework	Rework

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Oversized Material (Level 4&5)	Material greater than 3" diameter remaining on the road surface	Material 1" – 3" in diameter remaining on the road surface	0	0	Rework	Rework
	Material greater than 3" diameter and 36" in length remaining on the roadway drainages or has the potential to move into drainages.	Material 1" - 3" in diameter and greater 36" in length remaining on the roadway slopes and drainages or has the potential to move into drainages.	0	0	Rework	Rework
Oversized Material (Level 3)	Material greater than 3" diameter and 12" in length remaining on the road surface	Material 1" - 3" in diameter and 36" in length remaining on the road surface	0	0	Rework	Rework
	Material greater than 3" diameter and 36" in length remaining on the roadway drainages or has the potential to move into drainages.	Material 1" - 3" in diameter and greater 36" in length remaining on the roadway slopes and drainages or has the potential to move into drainages.	0	0	Rework	Rework
Oversized Material (Level 2)	Concentrations of material greater than 6" diameter and 3 feet in length remaining on the road surface	Material less than 6" diameter and 3 feet in length remaining on the road surface	0	1 per Mile	Rework	Rework if greater than 1 minor defects
	Unstable concentrations of material less than 6" diameter and 3 feet in length remaining on	N/A	0	N/A	Rework	N/A

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
	the roadway slopes.					
	Material greater than 3" diameter and 36" in length remaining on the roadway drainages or has the potential to move into drainages.	Material 1" - 3" in diameter and greater 36" in length remaining on the roadway slopes and drainages or has the potential to move into drainages.	0	1 per Mile	Rework	Rework if greater than 1 minor defects
Concentrations (Level 3-5)	Any concentrations that affect sight distance	N/A	0	0	Rework	N/A
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	0	0	Suspend work until in compliance	Suspend work until in compliance

861 MAINTENANCE of TRAFFIC GATES and BARRIERS (8/07)

861.01

Service Required

Maintain cattleguards, traffic gates and barriers, as needed for project and/or public use on roads authorized for maintenance in the Project License.

861.02

Performance Standard

- A. Cattleguard maintenance is complete when: it is free of structural defects, the deck provides a smooth, stable, compact transition to the adjacent road surface, and presents no traffic or livestock hazards; the wings are functional and secured to the deck and post; debris and other materials have been removed from the vault area to the full depth of the foundation over the entire width; and designated signs are in compliance with MUTCD and *EM 7100-15 Standards for Forest Service Signs and Posters*.
  
- B. Traffic gate maintenance is complete when it is free of structural defects, the gate and all associated posts are stable and the locking mechanism is in working order, the surfaces are free of oxidation and painted, and all designated signs are in compliance with MUTCD and *EM 7100-15 Standards for Forest Service Signs and Posters*.

861.03

Location of Work

As needed on roads authorized for maintenance

861.04

Measurement

Measurement under this Section will be made by the total number of units treated

861.06

Acceptable Quality Levels

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Metal Surfaces	Exposed metal, rust , or oxidation, greater than 25% of surface	Exposed metal, rust, or oxidation, 25% or less of surface	0	25% per each gate	Paint or Coat	Repair if greater than 1 minor defects *
	Penetrated rust or oxidation that compromises structural integrity	Penetrated rust or oxidation that does not compromise structural integrity	0	0	Replace component	Paint or Coat and notify

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Structural Integrity	Major cracks, broken, decomposed, or missing components and fasteners.	Minor cracks, loose components and fasteners.	0	0	Replace component and/or fasteners	Repair component and/or fasteners
Alignment	Greater than 10% deviation from original lines and grades, or non-functional.	10% or less deviation from original lines and grades.	0	1 per each gate	Repair or replace	Repair if greater than 1 minor defects
Signs/Markers	Missing, non-functional or non-readable	Bent or damaged, but still functional and readable	0	2 per each gate	Repair or replace	Repair or replace if greater than 2 signs are bent or damaged
Debris produced by Service Provider operations.	Debris left on road or placed in drainage structures.	N/A	0	N/A	Remove from road or drainage	N/A
Removed materials or pieces left on National Forest	Unserviceable posts, rails, or other materials left on National Forest	N/A	0	N/A	Remove from National Forest	N/A
Materials and Methods	Does not conform to AASHTO, ASTM, AWPA, and MUTCD standards and does not meet or exceed the original materials used	N/A	0	N/A	Reject and replace	N/A
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	N/A	0	0	Suspend work until in compliance	N/A

## 872 SIGN MAINTENANCE

### 872.01

#### Service Required

Furnish, install, and maintain forest destination, route markers, traffic signs, etc. as needed for project and/or public use on roads authorized for maintenance in the Project License.

### 872.02

#### Performance Standard

Sign Maintenance is complete when designated signs meet the quality standards of *EM 7100-15 Standards for Forest Service Signs and Posters*, and *Forest Service Sign Installation Guide 6E62H99 – Sign Installation Field Guide*. Both *EM 7100-15* and *6E62H99* are available at <http://www.fs.fed.us/database/acad/om/>.

### 872.03

#### Location of Work

As needed on roads authorized for maintenance

### 872.04

#### Measurement

Measurement under this Section will be made by the total number of units treated.

### 872.06

#### Acceptable Quality Levels

Description	Major Defect	Minor Defect	Allowable Defects		Required Action	
			Major	Minor	Major	Minor
Materials	Signs, posts and other materials do not meet applicable standards	N/A	0	N/A	Reject and replace	N/A
Installation	Not installed according to applicable standards	N/A	0	N/A	Reject and replace	N/A
Maintenance	Not maintained according to applicable standards	N/A	0	N/A	Reject and replace	N/A
Work Area Management	Not following approved safety plan which may include signs, flaggers, and other temporary traffic control measures	N/A	0	0	N/A	Suspend work until in compliance