United States Government

memorandum

REPLY TO ATTN OF: KEP-4

- SUBJECT: Supplement Analysis for the Transmission System Vegetation Management Program FEIS (DOE/EIS-0285/SA-180- Hills Creek-Lookout Point #1)
 - то: Ben Tilley TFE/Alvey

<u>Proposed Action</u>: Vegetation Management for the Hills Creek-Lookout Point #1 115 kV transmission line.

Location: The project is located in the BPA Eugene Region, Lane County, Oregon.

Proposed by: Bonneville Power Administration (BPA).

Description of the Proposal: BPA proposes to remove unwanted vegetation along the right-ofway, access roads, switch platforms, danger trees, and around tower structures of the subject transmission line corridor that may impede the operation and maintenance of the identified transmission lines. BPA plans to conduct vegetation control with the goal of removing tall growing vegetation that is currently or will soon be a hazard to the transmission line. BPA's overall goal is to have low-growing plant communities along the rights-of-way to control the development of potentially threatening vegetation.

<u>Analysis</u>: Please see the attached checklist for the resources present. Applicable findings and mitigation measures are discussed below.

Planning Steps:

1. Identify facility and the vegetation management need.

Work will take place along the Hills Creek Lookout Point 115 kV transmission line rights-ofway for "on" right-of-way control and access road clearing of noxious weeds and tall growing species. The proposed treatment will be performed in designated areas along the ROW's with an easement width of 100 feet. See attached checklist and documents for exact locations of treatment within the corridor.

2. Identify surrounding land use and landowners/managers and any mitigation.

The project corridor passes through a variety of land ownerships and land uses including; rural, unban/residential, agricultural, industrial forestlands, US Forest Service, (Willamette NF – Middle Fork District). Landowners requiring notification or under tree and brush agreements are shown in Section 2.4 of the attached checklist. Any remaining landowners will be contacted (letters, personal contact, door hangers, etc.) by BPA before and during the project. Any input received will be incorporated into the prescription/cut sheets.

No herbicide treatment will be made on US Forest Service Lands.

3. Identify natural resources and any mitigation.

Section 3 of the attached checklist identifies the natural resources present in the area of the proposed work. The following resources found along with applicable mitigation measures:

Riparian Habitat:

Riparian habitat includes rivers, wetlands, streams, and creeks meeting the definition of riparian habitat. Many areas were identified for this project. Site-specific requirements for work around these resources, including buffers are contained in Section 3.1 of the attached checklist.

Irrigation sources, Wells, and Springs:

Several locations were identified in the project area. Site-specific requirements for working around these resources, including no herbicide applications, are contained in Section 3.2 of the attached checklist.

Threatened and Endangered Species/Essential Fish Habitat (EFH):

Anadromous fish and Northern Spotted Owls were identified in the project area. A variety of conservation or avoidance measures were implemented to maintain a "no effect" determination on listed species and EFH. Measures include buffers from water resources, vegetation management techniques, timing of entry to critical areas, etc. For a complete listing see Section 3.3 in the attached checklist.

Cultural Resources:

No known cultural resources are present through out the project area. The project does not include any ground disturbance areas. In the event that project activities unearth or discover any cultural/historic or prehistoric materials, work will cease immediately; and will not resume until a professional archaeologist has evaluated the site.

4. Determine vegetation control and debris disposal methods.

Herbicide application will be for spot/stump treatment of re-sprouting species and conducted using backpack sprayers containing 25% Garlon 4 and 75% web oil mix. These applications will occur in late summer to early fall. Appropriate buffers will be used in high urban populations and close proximity to farmland. Mechanical removal of vegetation will be accomplished using various methods with debris being scattered to prevent increased fire hazards. Chipping, lop and scatter, and mulching are the three methods that will be used for debris disposal (see Section 4 and 5).

Subsequent entry will occur in 6 to 12 months (following summer) to control resprouting species. The area should return to full ROW Control in 5-6 years. At that time it will be necessary to repeat initial management practice. NO Herbicide treatment will be made on the US Forest Service Lands.

5. Determine revegetation methods, if necessary.

Re-vegetation is not necessary for this project. Reseeding will occur naturally in any areas that are lightly disturbed. In mowing areas, the mowers will cut slightly above grade. This prevents erosion and stimulates native grass.

6. Determine monitoring needs.

Monitoring will occur in the form of inspection while work is being done in the area. When convenient, subsequent monitoring will occur by the Natural Resource Specialist and TLM crew. Helicopter patrols (3 times/year) and working patrols (yearly) will also keep the NRS updated on problem areas.

Erosion potential will be monitored during each inspection. Growth rate and return of species along tower sites and access roads will be monitored to predict accessibility in the foreseeable future.

7. Prepare appropriate environmental documentation.

Findings: This Supplement Analysis finds that 1) the proposed actions are substantially consistent with the Transmission System Vegetation Management Program FEIS (DOE/EIS-0285) and ROD, and; 2) there are no new circumstances or information relevant to environmental concerns and bearing on the proposed actions or their impacts. Therefore, no further NEPA documentation is required.

<u>/s/ Brett M. Sherer</u> Brett M. Sherer – KEP/4 Environmental Engineer

CONCUR: <u>Thomas C. McKinney</u> Thomas C. McKinney NEPA Compliance Officer DATE:09/23/2003

Attachment

cc: L. Croff – KEC-4 T. McKinney – KEC-4 J. Meyer – KEP-4 S. Barndt – KEPR-4 J. Sharpe – KEPR-4 P. Key – LC-7 J. Hilliard Creecy – T-DITT2 D. Hollen– TF/DOB-1 A. Sundberg – TFE/Alvey B. Tilley – TFE/Alvey G. Burbach – TFEF/Alvey Environmental File – KEC Official File – KEP-4 (EQ-14)

Vegetation Management Checklist

Prepared by: Benjamin Tilley Natural Resource Specialist TFE/Alvey

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe Right-of-way.

See Handbook — <u>List of Right-of-way Components</u> for checkboxes and the requirements for the components <u>Rights-of-way</u>, <u>Access Roads</u>, <u>Switch Platforms</u>, <u>Danger Trees</u>, and <u>Microwave Beam paths</u>.

| Corridor Name | Corridor Length & kV | Easement width | Miles of Treatment |
|---------------------|----------------------|----------------|------------------------|
| Hills Creek-Lookout | 27 miles 115 kV | Pole line | 27 miles (entire line) |
| Point #1 | | easement (PLE) | |
| | | to 100' | |

Right Of Way:

Right-of-Way - clearing in right-of-way

Transmission Structures - clearing around

Access Road clearing - approximate miles – 9 miles (27 acres)

Switch Platforms

Danger Tree Clearing

1.2 Describe the vegetation needing management.

See handbook — List of Vegetation Types, Density, Noxious Weeds for checkboxes and requirements.

Vegetation Types:

Douglas Fir True Fir Hemlock Alder Maple Willows Wild Cherry Madrone Pine (various spp.) Western red cedar Noxious Weeds - Scotchbroom, tansy ragwort, thistle (several species) **Blackberries Density:** Medium - High (150 -250 + stems/per acre) **Counties:** Lane County, Oregon

1.3 List measures you will take to help promote low-growing plant communities. If promoting low-growing plants is not appropriate for this project, explain why. See Handbook — for requirements and checkboxes.

Tall-growing vegetation that is currently or will soon be a hazard to the line will be removed. (In places where tall growing vegetation must be left in place, it may not be possible to promote low-growing plants.)

Cut-stump or follow-up herbicide treatments on resprouting-type species will be carried out to ensure that the roots are killed.

Vegetation that will grow tall will be selectively eliminated *before* it reaches a height or density to begin competing with low-growing species.

Desirable low-growing plants will not be disturbed. Only selective vegetation control methods that have little potential to harm non-target vegetation will be used.

1.4 Describe overall management scheme/schedule.

See Handbook - Overall Management Scheme/Schedule.

Initial entry – Full ROW control of tall-growing species and noxious weeds. Stump herbicide treatment on species with the potential to resprout. Access roads (on & off ROW) and tower sites will be cleared and sprayed for noxious weeds for improved access.

Subsequent entries – Subsequent entry possible within 2 to 4 years to maintain accessibility to access roads and tower sites until next full ROW control cycle. A follow-up herbicide application will occur 6 - 12 months after the initial entry to control resprouting species.

Future cycles – Return for full ROW control in 5 - 6 years. Repeat initial entry behavior at that time.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses along your corridor.

See Handbook — <u>Landowners/Managers/Uses</u> for requirements, and <u>List of Landowners/Managers/Uses</u> for a checkbox list.

Rural, urban/residential, agricultural, industrial forestlands, US Forest Service (Willamette NF--Middle Fork District)

2.2 Describe method for notifying right-of-way landowners and requesting information (i.e., doorhanger, letter, phone call, e-mail, and/or meeting). Develop landowner mail list, if appropriate.

See Handbook — <u>Methods for Notification and Requesting Information</u> for requirements.

Form letters are sent out to all landowners on BPA's most current landowner list of the lines detailing our intended actions and a method for landowners to respond and comment on the proposed actions.

2.3 List the specific land owner/land use measures — determined from the handbook or through your consultations with the entities — that will be applied.

See handbook — <u>Requirements and Guidance for Various Landowners/Uses</u> for requirements and guidance, also <u>Residential/Commercial</u>, <u>Agricultural</u>, <u>Tribal Reservations</u>, <u>FS-managed lands</u>, <u>BLM –managed lands</u>, <u>Other federal lands</u>, <u>State/ Local Lands</u>.

| S | pan | Landowner/use | Specific measures to be applied | | |
|------|-------|------------------|--|--|--|
| From | То | Lunuo when use | specific measures to be upplied | | |
| HC | 1\6 + | USFS—Middle Fork | No herbicides will be applied on USFS lands. | | |
| Sub | 115' | Ranger District | | | |

| 2\5 | 4\9 + | USFS—Middle Fork | No herbicides will be applied on USFS lands. |
|--------|--------|------------------------|---|
| | 308' | Ranger District | |
| 5\1 | 5\16 | City of Oakridge | Private residences—consult landowners |
| | | | individually with tree issues. 50' ROW |
| 8\5 | 15\1 + | USFS—Middle Fork | No herbicides will be applied on USFS lands. |
| | 100' | Ranger District | |
| 9\3 | 9\7 | USFS Nursery | No work to be done in this area. |
| | | | |
| 9\7 | 11\5 + | Buckhead Wildlife Area | No work to be done in this area at this time. |
| | 300' | | |
| 15\4 - | 19\4 + | USFS—Middle Fork | No herbicides will be applied on USFS lands. |
| 300' | 132' | Ranger District | |
| 19\7 - | 20\4 | USFS—Middle Fork | No herbicides will be applied on USFS lands. |
| 305' | | Ranger District | |

2.4 Review any existing landowner agreements (e.g. tree/brush Permits or Agreements). List in table above any provisions that need to be followed and where they are located. See handbook — Landowner Agreements for requirements.

Refer to table above.

2.5 List any known casual informal use of the right-of-way by non-owner publics. List any constraints or measure's to take due to the informal use.

See handbook — <u>Casual Informal Use of Right-of-way</u> for requirements.

Refer to table above

2.6 List other potentially affected people, agencies, or tribes (that are not landowners/managers) that need to be notified or coordinated with. Describe method of notification and coordination.

See handbook — Other Potentially Affected Publics for requirements and suggestions.

Refer to table above

3. IDENTIFY NATURAL RESOURCES

See Handbook — <u>Natural Resources</u>

3.1 List any water resources (streams, rivers, lakes, wetlands) that may be impacted by vegetation control activities. For each water body describe the control methods and requirements or mitigation measures that will be used.

See Handbook — <u>Water Resources</u> for requirements for working near water resources including buffer zones.

| Spa | an | Waterbody T&E? Method Herbicide Applicat | | Application | Buffor | Othor | | |
|---------------|---------------|--|-----|--|-------------|-----------|--------|-------|
| From | То | | | Methou | 11el Diciue | Technique | Duilei | Other |
| 1\1 + 360' | 1\1 + 565' | Middle Fork Willamette River | Yes | No work in this area | N/A | N/A | N/A | |
| 1\3 + 150' | | Unnamed creek | No | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |

| 1\7 + 115' | | Unnamed creek | No | Cut, lop & scatter, remove noxious weeds | Garlon 4 | Spot stump treatment & low volume foliar | 50' | |
|---------------|---------------|------------------------------------|-----|--|----------|---|-----|--|
| 2\6 + 380' | 2\6 + 654' | Middle Fork Willamette River | Yes | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 3\5 + 102' | | Unnamed creek | No | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 3\6 + 733' | | Unnamed creek | No | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 4\4 + 90' | 4\4 + 400' | Unnamed creek | No | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 4\9 + 308' | 4\9 + 450' | Middle Fork Willamette River | Yes | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 7\1 + 438' | | Unnamed creek | No | Cut, lop & scatter, remove noxious weeds | Garlon 4 | Spot stump treatment & low volume foliar | 50' | |
| 7\7 + 235' | 7\7 + 302' | Unnamed draw | No | Cut, lop & scatter, remove noxious weeds | Garlon 4 | Spot stump treatment & low volume foliar | 50' | |
| 8\3 + 50' | 8\3 + 450' | Middle Fork Willamette River | Yes | Cut, lop & scatter, remove noxious weeds | Garlon 4 | Spot stump treatment & low volume foliar | 50' | |

| 10\1 | 11\6 | Burnt Bridge Ck. & Buckhead Creek | Yes | No work to be done in this area. | N/A | N/A | N/A | Buckhead Creek crosses 4 times in this area |
|-------------------|-------------------|--|-----|--|----------|---|-----|---|
| 12\3 + 600' | | Tire Creek | No | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 14\6 + 670' | | Hospital Creek | Yes | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 15\2 + 315' | | Carpet Hill Creek | No | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 16\4 + 800' | | Armet Creek | No | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 17\5 + 500' | 17\5 + 1150 | School Creek | No | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 18\5 + 400' | 18\5 + 600' | LOP Lake/MF Willamette River | Yes | Cut, lop & scatter, remove noxious weeds | N/A | N/A | N/A | |
| 20\8 + 400' | 20\8 + 750' | Bannister Creek | No | Cut, lop & scatter, remove noxious weeds | Garlon 4 | Spot stump treatment & low volume foliar | 50' | |
| 22\3 + 575' | 22\4 - 75' | LOP Lake/MF Willamette River | Yes | Cut, lop & scatter, remove noxious weeds | Garlon 4 | Spot stump treatment & low volume foliar | 50' | |

| 23\1 | 23\2 | LOP | Yes | Cut, lop & | Garlon 4 | Spot stump | 50' | |
|------|------|------------|-----|------------|----------|-------------|-----|--|
| + | - | Lake/MF | | scatter, | | treatment & | | |
| 550' | 100' | Willamette | | remove | | low volume | | |
| | | River | | noxious | | foliar | | |
| | | | | weeds | | | | |
| 26\6 | | Unnamed | No | Cut, lop & | Garlon 4 | Spot stump | 50' | |
| + | | creek | | scatter, | | treatment & | | |
| 175' | | | | remove | | low volume | | |
| | | | | noxious | | foliar | | |
| | | | | weeds | | | | |

3.2 If planning to use herbicides, list locations of any known irrigation source, wells, or springs (landowners maybe able to provide this info if requested).

See Handbook — Herbicide Use Near Irrigation, Wells or Springs for buffers and herbicide restrictions.

| Span | Well/irrigation/or | Herbicide | Buffer | Other notes/measures | |
|------------|--------------------|-----------|--------|---|--|
| То | spring | | Dunter | | |
| 1\7 + 577' | Spring | Garlon 4 | 50' | | |
| 2\1 + 120' | Spring | Garlon 4 | 50' | | |
| 2\1 + 582' | Spring and pipe | Garlon 4 | 50' | No herbicides will be applied on or adjacent to residential infrastructure | |
| 3\4 + 478' | Spring | N/A | N/A | | |

3.3 List below the areas that have Threatened or Endangered Plant or Animal Species and the name of the species, and any special measures that need to be taken due to their presence. Attach any BAs, T&E maps, or letters from US Fish and Wildlife.

See Handbook — <u>T&E Plant or Animal Species</u> for requirements and determining presence.

| Span | | T & F Species | Mathad/mitigation or avaidance massures | | |
|---------------|------|---------------------------------|--|--|--|
| То | From | I &L Species | Method/mitigation of avoidance measures | | |
| | | Anadromous fish runs | Refer to 3.1 –Water Resources | | |
| 3\4 + 478' | 4\2 | Northern Spotted Owl CHU #75 | No identified nests within .25 miles of ROW. Will perform vegetation management activities in this area and adjacent land (.25 mile border) after breeding season | | |
| 14\6 | 14\7 | Oregon Chub & Chinook Salmon | No in-stream work to be done in this area. No herbicides to be applied in this area. | | |

3.4 List any other measures to be taken for enhancing wildlife habitat or protecting species. See Handbook — <u>Protecting Other Species</u> for requirements.

None at this time.

3.5 List any visually sensitive areas and the measures to be taken at these areas.

See Handbook — <u>Visual Sensitive Areas</u> for requirements.

None at this time.

3.6 List areas with cultural resources and the measures to be taken in those areas. See Handbook – <u>Cultural Resources</u> for requirements.

No known cultural resources present. No ground-disturbing activity will occur. If evidence is found of cultural resources (artifacts, features, burial sites), work will cease immediately and the appropriate authorities will be contacted.

3.7 List areas with steep slopes or potential erosion areas and the measure and methods to be applied in those areas.

See Handbook – <u>Steep/Unstable Slopes</u> for requirements.

Slopes greater than 20%: Removal of vegetation on steep slopes restricted to tall-growing species that are a hazard to the transmission line.

3.8 List areas of spanned canyons and the type of cutting needed.

See Handbook – <u>Spanned Canyons</u> for requirements.

Removal of vegetation in spanned canyons restricted to tall-growing species that are a hazard to the transmission line.

4. DETERMINE VEGETATION CONTROL METHODS

See Handbook — <u>Methods</u>

4.1 List Methods that will be used in areas not previously addressed in steps above. See Handbook — Manual, Mechanical, Biological, Herbicides for requirements for each of the methods.

Select Cut= cut, lop and scatter to extent necessary to prevent fire hazard. Low Cut= Remove all vegetation at ground level, CLS to prevent fire. Chip Acres= select cut and chip all debris generated Access Road Acres= select/low cut method on access roads Side-limb=remove limbs/tops of large trees Tower Sites=low cut method 30-50' radius around tower site Herbicide application—spot/stump treatment of resprouting species. Backpacks will be used with a 25% Garlon 4 / 75% crop oil mix. Follow-up LVF will use an Intellispray system with a 1.5% Garlon 4 mix in water with 5% crop oil to create an emulsion.

----Refer to attached detail sheet for span-by-span analysis

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

5.1 Describe the debris disposal methods to be used and any special considerations. See Handbook — <u>Debris disposal</u> for a checkbox list and requirements.

Cut, lop and scatter to the extent to prevent increased fire hazard. Chipping will be done where visually sensitive areas exist as well as per landowner request. 5.2 List areas of reseeding or replanting (those areas not already described in steps 1, 2, or 3). See Handbook — <u>Reseeding/replanting</u> for requirements.

Native, naturalized, and non-native grasses are present on the entire ROW that will naturally reseed into the areas that have been lightly disturbed by vegetation management activities.

5.3 If not using native seed/plants, describe why.

N/A

5.4 Describe timing and any follow-up that will need to take place to ensure germination/success of seeding/planting.

N/A

6. DETERMINE MONITORING NEEDS

See handbook — <u>Monitoring</u> for requirements.

6.1 Describe the follow-up/monitoring cycle that will be used to evaluate the effectiveness of the vegetation control methods used.

Monitor brush control as it is happening on a daily basis. Monitoring will also occur every few months as the situation lends itself. Working patrol will determine when subsequent entry for access road and tower site clearing will be needed (performed in the winter). Helicopter patrol will help determine when tall-growing species need attention. Ground patrols by the NRS will occur every few months.

6.2 Describe any follow-up or monitoring needed to determine if mitigation measures were effective.

Survey vegetation growth of native and weed species in sensitive areas. Monitor for erosion potential during every inspection. Monitor growth rate and return of species along tower sites and access roads to predict accessibility in the foreseeable future.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

See handbook — <u>Prepare Appropriate Environmental Documentation</u> for requirements. . Also prepare Supplement Analysis — <u>Supplement Analysis</u> — for signature.

7.1 Describe any potential project impacts or project work that are different than those disclosed in the Transmission System Vegetation Management Program EIS. Describe how those differences impact natural resources and if the differences are "substantial".

None, project is consistent with EIS.

7.2 Is there a need for additional NEPA documentation (i.e. Forest Service requirement, Record of Decision, supplemental EIS)? If so, attach.

No additional documentation required.