

memorandum

DATE: August 13,2002

REPLY TO
ATTN OF: KEPR-4

SUBJECT: Supplement Analysis for the Transmission System Vegetation Management Program FEIS
(DOE/EIS-0285/SA-82)

TO: Jeffrey Hathhorn
Redmond Deputy Regional Manager – TFI/IDAHO FALLS

Proposed Action: Vegetation Management for twenty-four Substations in the Burley District.
See list of facilities under planning step 1).

Location: See list of facilities under Planning Step 1.

Proposed by: Bonneville Power Administration (BPA).

Description of the Proposal: BPA proposes total vegetation management (bare ground) in the electrical substations, and, noxious weed management and maintenance of landscaping within the property boundaries of the listed facilities. These facilities are all located within the Burley District of the Idaho Falls Region.

Analysis: The attached checklist shows the resources that were found during this analysis and what mitigation measures are required to protect those resources. In addition, each facility is supported by a file containing drawings, aerial photographs, topographic maps, and the mitigation measures to be applied (copies will be maintained at the district office, with the regional environmental contact and at the Pollution Prevention and Abatement office, Portland, OR). Applicable findings are discussed below.

Planning Steps:

1. Identify facility and the vegetation management need.

BPA proposes to manage vegetation inside and around electrical substations and associated facilities. Vegetation management within the substations will include bare ground management by herbicides of all areas within the fenced perimeter of the facility including a bare ground zone of up to 3 meters (10 feet) outside of the fenced area. The management of vegetation outside the substation and associated facilities will include: 1) bare ground management of perimeter roads and parking areas; 2) control of noxious weeds throughout property boundaries; 3) mowing, fertilizing, and weed control of landscaped lawn and mulched areas; 4) weed control in ornamental shrub areas; and 5) areas requiring only mechanical control to manage unwanted/danger trees, grasses, and shrubs.

Facilities, County, State			
Albion Cassia County, ID	Bridge Cassia County, ID	Canal Cassia County, ID	Curlew Box Elder, UT
Drummond Fremont County, ID	East Hills Cassia County, ID	Heyburn Minidoka county, ID	Idahome Cassia County, ID
Lost River Butte County, ID	Mack's Inn Fremont County, ID	Madison Gallatin County, ID	Minidoka Minidoka County, ID
Mountain Home Elmore County, ID	Newcomb Cassia County, ID	Raft Cassia County, ID	Roes Corner Minidoka County, ID
Round Valley Custer County, ID	Spar Canyon Custer County, ID	Swan Valley Bonneville County, ID	Targhee Teton County, ID
Tincup Caribou County, ID	Unity Cassia County, ID	West Burley Cassia County, ID	Westside Bonneville County, ID

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

Land use surrounding the facilities includes but is not limited to pasture/grazing, and agriculture/farming activities (see The Natural Resource Assessment for a more detailed description). Surrounding Landowners include private farmers/ranchers and local utilities, (see checklists for a more detailed description). No mitigation necessary.

3. Identify natural resources and any mitigation.

Wetland areas, drinking water resources and water resources have been identified near some of the facilities as shown in the attached checklist or for a more detailed description the Natural Resource Assessment. No T&E species were identified. Mitigation measures are consistent with the FEIS, and are listed in Section 3 of the attached checklist or for a more detailed description see the Natural Resource Assessment.

4. Determine vegetation control and debris disposal methods.

There will be no debris disposal and re-vegetation associated with the bare ground management. For other areas debris disposal will take place on site. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as native, low-growing, types, mulches, rock covers, etc. All of the vegetation management techniques are designed to be permanent.

5. Determine re-vegetation methods, if necessary.

Renegotiation will be consistent with the permanent nature of the facilities but will incorporate native species where practical.

6. Determine monitoring needs.

Monitoring is two-fold. Monitoring for evaluation of BPA/contractor treatment practices to ensure vegetation management practices will be handled through contract specifications. Environmental monitoring to ensure environmentally sound application practices will be determined in the future as outlined in the BPA/NMFS/USFWS Biological Assessment.

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.

/s/ John Howington
 John Howington
 Physical Scientist (Environment) KEPR-4

CONCUR: /s/ Thomas C. McKinney
 Thomas C. McKinney
 NEPA Compliance Officer

DATE: 08/19/2002

cc:

L. Croff – KEC-4
 T. McKinney – KEC-4
 M. Hermeston – KEP-4
 J. Meyer – KEP-4
 F. Walasavage – KEP/Celilo
 J. Sharpe – KEPR-4
 M. Johnson – TF/DOB-1
 P. Key – LC-7
 J. Hathhorn – TFI/IDAHO FALLS
 L. Kerzman – TFI/IDAHO FALLS
 V. Braegger – TFIJ/BURLEY
 J. Collins – TFIG/IDAHO FALLS
 J. Johnson – TFS/KALISPELL
 D Glans – TOC/IDAHO FALLS
 Environment File – KEC-4
 Official File – KEP (EQ-14)

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ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
ALBION (RETIRED)	Bareground Acres: 0.05 Fenced Acreage: Site Acreage: 0.1	S6, T12S, R25E BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on BPA fee-owned land. Active farms are located to the south and west, private unused land is located to the North and east of the substation.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
LIVESTOCK, IRRIGATION	SNOMELT	2,318'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **ALBION (RETIRED)**

Facility ID: ALBI

Region: IDAHO FALLS

Address: 2700 OVERLAND

Latitude: 42 24 19.2865 N

Longitude: 113 34 55.1188 W

City, State, Zip BURLEY, ID, 83318

Description of the Facility:

Topographic Description of the area:

Physical Site Information.

Surface Soil:	Neighboring wells?	YES	Annual Precip:	11
Sub-Surface Soil:	Sole Source Aquifer?	N	Public Property:	
Soil Permeability:	Crops:		Leases:	
Depth to GW:	Floodplain:	N		

Surface Water Evaluation:

This facility has been retired.

Description of Drainages:

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
BRIDGE	Bareground Acres: 1.34 Fenced Acreage: Site Acreage: 1.34	S12, T15S, R26E, BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

Surrounding land use is Range Land (Sage Brush) .

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
RAFT RIVER	RIVER	E - 3,375'
COTTONWOOD CREEK	CREEK	S - 1,250'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **BRIDGE**

Facility ID: BRIG

Region: IDAHO FALLS

Address: 2700 OVERLAND

Latitude: 42 7 46.0876 N

Longitude: 113 21 13.5378 W

City, State, Zip BURLEY, ID, 83318

Description of the Facility:

Topographic Description of the area:

Physical Site Information.

Surface Soil:	Neighboring wells?	NO	Annual Precip:	8
Sub-Surface Soil:	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	Crops:		Leases:	
Depth to GW: 20-40 FT	Floodplain:	N		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Substation yard is sloped -0.5% to the north. Perimeter ditches flow to the east into pooling areas.

Description of Drainages:

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
Notes on the Facility's Containment System(s):			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
CANAL	Bareground Acres: 0.58 Fenced Acreage: 0.35 Site Acreage: 5.61	S19, T10S, R25E BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on fee-owned land. Surrounding land use is private rangeland used for winter cattle pasture.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
CANAL	CANAL	S - 1,375'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **CANAL** Facility ID: CANL Region: IDAHO FALLS

Address: COUNTY ROAD 1050 EAST

Latitude: 42 32 27N

Longitude: 113 35 8W

City, State, Zip DECLO, ID,

Description of the Facility:

Oil-filled equipment at Canal Substation includes one Power Transformer with 8,800 gallons of oil and two Station Service Transformer with 183 total gallons of oil. There are two Power Circuit Breaker with 29 gallons of oil each.

Topographic Description of the area:

Canal Substation is bordered to the south by the Parking Area and Entrance Road. The substation is situated on an elevated plateau surrounded by open fields to the east, north, and west. Perimeter ditches along the west and east drain to the south to pooling areas.

Physical Site Information.

Surface Soil: SILTY SAND	Neighboring wells?	Annual Precip: 7
Sub-Surface Soil: SILTY SAND	Sole Source Aquifer? Y	Public Property:
Soil Permeability: MODERATELY RAPID	Crops:	Leases:
Depth to GW: UNKNOWN	Floodplain: N	

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Description of Drainages:

Canal Substation has no subsurface drainage piping system. The yard is graded -0.5% to drain to the northwest.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THERE ARE NO OIL CONTAINMENT SYSTEMS AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
CURLEW	Bareground Acres: 0.55 Fenced Acreage: Site Acreage: 0.05	S2, T14N, R10W SLM	BOX ELDER	UT

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on fee-owned land. Surround land use: Farm land on east, south and west of the substation. County or State highway to the north.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
NONE		

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **CURLEW**

Facility ID: CURL

Region: IDAHO FALLS

Address: STATE HIGHWAY 30

Latitude: 41 57 57.9780 N

Longitude: 112 56 36.5851 W

City, State, Zip SNOWVILLE, UT,

Description of the Facility:

Topographic Description of the area:

Physical Site Information.

Surface Soil:	Neighboring wells?	Annual Precip:	13
Sub-Surface Soil:	Sole Source Aquifer? N	Public Property:	
Soil Permeability:	Crops:	Leases:	
Depth to GW:	Floodplain:		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Description of Drainages:

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
Notes on the Facility's Containment System(s):			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
DRUMMOND	Bareground Acres: 2.12 Fenced Acreage: 1.98 Site Acreage: 3.78	S26, T8N, R43E, BM	FREMONT	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is owned by the Fall River Rual Co-Op. Surrounding land use is agricultural.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
INTERMITTENT STREAM	STREAM	NE-1200'
INTERMITTENT STREAM	STREAM	SW-1500'
TETON RIVER	RIVER	S-9.5 MILES
CONANT CREEK	CREEK	NE- 3,000'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals. Do not apply any chemical to adjacent agricultural areas.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility DRUMMOND

Facility ID: DRUM

Region: IDAHO FALLS

Address: HWY 32

Latitude: 43 59 25.4881 N

Longitude: 111 20 16.4302 W

City, State, Zip DRUMMOND, ID,

Description of the Facility:

Equipment at Drummond Substation that is operated & maintained by BPA includes two 115 kV Power Transformers one contains 6,649 gallons of oil, the other 4,060 gallons of oil. There are two 46 kV Power Transformers, one contains 1,170 gallons of oil, and the system spare contains 7,450 gallons of oil. Station Service is provided by three transformers containing a total volume of 261 gallons of oil. Also at this facility are three oil filled Circuit Breakers ranging in volume from 265 to 1,680 gallons for a total oil volume of 2,345 gallons of oil. Other miscellaneous equipment includes Current and Potential Transformers containing a total of 90 gallons of oil.

Topographic Description of the area:

This facility is situated on a northwesterly facing slope. To the east is a drainage ditch and an upgradient slope leading to a gravel road. South of the facility is a drainage ditch bordered by a steep upgradient slope leading to a hay field. West of the facility is a deep drainage ditch with a hay field beyond, this field slopes downgradient. North of the facility is the graveled parking area bordered by a steep downgradient slope with a pooling area at its base. Beyond the pooling area is a hay field.

Physical Site Information.

Surface Soil:	MEDIUM DENSE, BROWN SILT	Neighboring wells?	NO	Annual Precip:	16
Sub-Surface Soil:	SANDY, COARSE GRAVELLY SIL	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	SLOW/MODERATELY RAPID	Crops:		Leases:	
Depth to GW:	UNKNOWN	Floodplain:	N		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Perimeter drainage ditches flow to pooling area north of facility along highway. Highway and railroad lie between substation and creek.

This station is owned by Fall River Rural Electric COOP. All 15 kV & 46 kV equipment installed prior to 01Oct85 leased by BPA. Equipment installed after 01OCT85 is BPA owned.

Description of Drainages:

A system of 4" perforated PVC piping collects water accumulating in the cable trenches and directs drainage to the west through a single run of solid 4" PVC piping to Outfall #1. This yard has a -1.0% slope from the north to the south and is level from east to west.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

This facility is bordered on the east and west by drainage ditches that direct runoff to a depression/pooling area north of the facility parking area.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THIS FACILITY HAS NO OIL CONTAINMENT SYSTEMS.			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
EAST HILLS	Bareground Acres: 0.33 Fenced Acreage: 0.2 Site Acreage: 0.88	S11, T11S, R24E BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on fee-owned land. Surrounding land use is farmland to the north, south and east. County road borders the substation to the west.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
"J" IRRIGATION CANAL	CANAL	N - 2,000'
IRRIGATION DITCH	DITCH	NORTH - 20'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals. Irrigation ditch located 20 feet north. Ditch appears to be intermittently used. Do not apply any chemical to adjacent agricultural areas.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **EAST HILLS**

Facility ID: EHIL

Region: IDAHO FALLS

Address: STATE HWY 77

Latitude: 42 28 52.7673 N

Longitude: 113 37 36.5791 W

City, State, Zip DECLO, ID,

Description of the Facility:

East Hills Substation has one 138 kV Power Transformer with 6,759 gallons of oil and one 34.5 kV Power Transformer with 1,783 gallons of oil. Station service is provided by a 19.9 kV Station Service Transformer with a volume of 11 gallons of oil. There are two oil filled Power Circuit Breakers; one with 46 gallons and one with 150 gallons of oil.

Topographic Description of the area:

East Hills Substation is bordered on the south by the Entrance Road and parking area with an west flowing irrigation ditch south of the road. To the west is a ditch flowing north and Idaho State Highway #77. The switchyard is bordered on the east and north by an irrigation ditch which flows to the west, tying into the ditch flowing north along the highway to a pooling area.

Physical Site Information.

Surface Soil:	SANDY SILT	Neighboring wells?		Annual Precip:	9
Sub-Surface Soil:	UNKNOWN	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	MODERATELY RAPID	Crops:		Leases:	
Depth to GW:	UNKNOWN	Floodplain:	N		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Description of Drainages:

East Hills Substation has no drainage pipe system, but the yard is graded to drain to the west.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THERE ARE NO SECONDARY CONTAINMENT SYSTEMS AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
HEYBURN	Bareground Acres: 2.32 Fenced Acreage: 1.83 Site Acreage: 2.69	S15, T10S, R23E, BM	MINIDOKA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on fee-owned land. Land use surrounding the substation consists of a pasture to the south and west, agricultural fields to the North and residential to the east.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
SNAKE RIVER	RIVER	SW-1.2 MILES
IRRIGATION CANAL	CANAL	S-15'
IRRIGATION CANAL	CANAL	W-120'
IRRIGATION CANAL	CANAL	E-20'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

A irrigation canal 20 feet south and a drainage ditch 20 exists feet east of the substation. A non-potable well is located 8 feet from the southwest corner of the control house building. The well is cased and grouted in accordance with state regulations. Geological well logs indicate the well is located within the Burley Lake Beds aquifer to a depth of 20 feet. Do not apply any chemical having a groundwater or surfacewater label advisory. Do not apply granular formulated chemicals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
#1	20	0	Located at SW corner of Control House. No access to measure static water level.

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **HEYBURN** Facility ID: HEBN Region: IDAHO FALLS

Address: 21ST STREET

Latitude: 42 33 41.0940 N

Longitude: 113 44 53.9301 W

City, State, Zip HEYBURN, ID,

Description of the Facility:

Heyburn Substation has two 138 kV Power Circuit Breakers, each containing 2,799 gallons of oil, for a total of 5,598 gallons of oil. Other miscellaneous equipment includes three 115 kV Current Transformers and five 138 kV Potential Transformers with a total of 227 gallons of oil.

Topographic Description of the area:

The topography adjacent to the substation is fairly level consisting of irrigated farmland and pastureland.

Physical Site Information.

Surface Soil:	SILTY SAND	Neighboring wells?	YES	Annual Precip:	7
Sub-Surface Soil:	SAND	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	MODERATELY RAPID	Crops:		Leases:	
Depth to GW:	210-240 FT	Floodplain:	N		

Surface Water Evaluation:

This facility requires a SPCC plan due to oil volumes and pathway to adjacent water bodies.

Heyburn Substation has a 1 1/2" PVC pipe connected by Handholes #5, #4, #3, and #2 which drains to Manhole #1 within the energized yard. Outside the energized yard to the northwest, there is an 18" concrete pipe which drains from a irrigation ditch and runs west into an irrigation canal that runs in a southeasterly direction around the yard to pastureland. HEYBURN SUBSTATION IS LEVEL FROM NORTH TO SOUTH AND HAS A -0.75 % SLOPE TO THE EAST. Heyburn Substation is located approximately 20 feet west of an irrigation canal and 120 feet east and 15 feet north of an irrigation canal. The facility is also located approximately 1.2 miles northeast of the Snake River.

Description of Drainages:

Heyburn Substation has a 1 1/2 " PVC pipe connected by Handholes #5, #4, #3 and #2 which drains to Manhole #1 within the energized yard. Outside the energized yard to the northwest, there is an 18" concrete pipe which drains from a irrigation ditch and runs west into an irrigation canal that runs in a southeasterly direction around the yard to pastureland.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
IDAHOME	Bareground Acres: 0.66 Fenced Acreage: Site Acreage: 0.66	S35, T11S, R26E, BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on fee-owned land. Range land and Farms surround the substation

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
NONE		

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals. Do not apply any chemical to adjacent agricultural areas.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **IDAHOME**

Facility ID: IDAH

Region: IDAHO FALLS

Address: 2700 OVERLAND

Latitude: 42 25 10.0000 N

Longitude: 113 23 20.0000 W

City, State, Zip BURLEY, ID, 83318

Description of the Facility:

Topographic Description of the area:

Physical Site Information.

Surface Soil:	Neighboring wells?	NO	Annual Precip:	11
Sub-Surface Soil:	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	Crops:		Leases:	
Depth to GW: 35-85 FT	Floodplain:	N		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Substation yard is sloped -0.5% to the east. Drainage pools near customer yard or along road.

Description of Drainages:

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
Notes on the Facility's Containment System(s):			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
LOST RIVER	Bareground Acres: 0.70 Fenced Acreage: 1.3 Site Acreage: 10.87	S3, T5N, R26E, BM	BUTTE	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on fee-owned land. Range land (Sage brush) surrounds the Substation

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
SEASONAL STREAM	STREAM	S-1000'
BIG LOST RIVER	RIVER	W-3000'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **LOST RIVER** Facility ID: LRIV Region: IDAHO FALLS

Address: KING MTN ROAD Latitude: 43 47 37.0000 N
 Longitude: 113 20 9.0000 W

City, State, Zip MOORE, ID,

Description of the Facility:

Lost River Substation contains one 230 kV Power Transformer containing 4,250 gallons of oil. Station service is provided by one Station Service Transformer containing 190 gallons of oil. Additionally there is one 230 kV Power Circuit Breaker containing 3,750 gallons of oil. Other oil filled equipment includes three Potential Transformers each containing 4 gallons of oil.

Topographic Description of the area:

Lost River Substation is sits on a westerly facing slope. The soil in this area is extremely permeable and covered with arid grasses and sage. The terrain north of the facility is characterized by the substation yard embankment meeting a drainage ditch. Beyond the ditch the terrain is slopes downgradient to the west. East of the facility is a drainage ditch which carries drainage to the north or the south. Beyond the ditch is a gravel embankment and an upgradient slope beyond. South of the facility is the substation drainage ditch and downgradient westerly facing slope. East of the facility is the substation entrance road. The terrain in this area has a negative slope running to King Mountain Road approx. 2,500' from the substation.

Physical Site Information.

Surface Soil: GRAVELLY SILTY SAND	Neighboring wells? NO	Annual Precip: 6
Sub-Surface Soil: SILTY SANDY GRAVEL	Sole Source Aquifer? Y	Public Property:
Soil Permeability: MODERATELY RAPID/RAPID	Crops:	Leases:
Depth to GW: 15-50FT	Floodplain: N	

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Description of Drainages:

The energized yard at this facility is level in all directions and has no subsurface drainage pipe system. A cable trench runs south from the control house approx. 160'. Drainage leaving this facility must flow overland to reach surrounding drainage ditches.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Lost River Substation is located on a westerly facing slope surrounded by two main drainage ditches along the northern and southern borders. Both ditches direct drainage west downhill to pooling areas along King Mountain Road. No culverts or pathways across King Mountain Road were identified which would direct drainage into the seasonal stream approx. 1,000' south of the facility or Big Lost River approx. 3,000' west of the facility.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
Notes on the Facility's Containment System(s):			
THERE IS NO SECONDARY CONTAINMENT AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
MADISON	Bareground Acres: 0.90 Fenced Acreage: 0.94 Site Acreage: 5.74	S29, T13S, R5E PM	GALLATIN	MT

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

BPA portion of the substation yard is located on an easment from the Fall River Co-Op. The Fall River Co-Op Maintenance Facility is located adjacent on the north side of the substation. USFS forest surrounds the substation.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
MADISON RIVER	RIVER	SW - 1.5 MILES
SEWAGE PONDS	PONDS	SE - 2,200'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. A containment pit in the substation yard connects to an oil-water separator before draining into a dry well. Do not apply any chemical within the containment area having a groundwater label advisory. Do not apply granular formulated chemicals. There are no drainage pipes, outfalls, or water supply wells present at this site. There is no direct pathway to any streams, water supply wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **MADISON** Facility ID: MADI Region: IDAHO FALLS

Address: WEST FLAT ROAD

Latitude: 44 40 19.8301 N

Longitude: 111 8 18.1667 W

City, State, Zip W. YELLOWSTONE, MT,

Description of the Facility:

Madison Substation has one 115 kV Power Transformer containing 3,160 gallons of oil. Station service is provided by one Station Service Transformer containing 100 gallons of oil. Miscellaneous equipment includes Current and Potential Transformers with a total oil volume of 82 gallons. Also at this facility is one 115 kV Capacitor Group containing 78 - 1.6 gallon non-PCB capacitors.

Fall River Co-Op has one oil Power Circuit Breaker containing 340 gallons of oil.

Topographic Description of the area:

Along the northern border of this facility, the substation yard shoulder slopes down to meet the Fall River Co-Op Maintenance Facility. West of the facility is a fairly level dense duff covered meadow and right-of-way. South of the facility is the substation parking area, oil/water separator and drywell, all of which are bordered by West Flat Road which is dirt. East of the facility the ground cover is a dense duff sloping down to meet the North Flat Road, also of dirt. Across North Flat Road is a drainage ditch which surface runoff primarily collects in pooling areas and does not continue north or south along the road.

Physical Site Information.

Surface Soil: CLAY LOAM/SILTY SAND	Neighboring wells? NO	Annual Precip: 21
Sub-Surface Soil: CLAY LOAM/SILTY SAND	Sole Source Aquifer? N	Public Property:
Soil Permeability: MODERATE - RAPID	Crops:	Leases:
Depth to GW: 30 FT	Floodplain: N	

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

BMP plan to update existing contractor SPCC plan.

Description of Drainages:

The 115 kV Power Transformer at Madison Substation is surrounded by a containment pit system with a geomembrane liner. This containment pit system connects to an oil/water separator before draining to a drywell. Containment piping consists of 6" B&S concrete and an in-line catch basin. The substation yard is level from northeast to southwest with a -0.5% slope from southeast to northwest.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Drainage from this facility flows onto soils which are highly permeable or covered by a dense duff layer, making access to any drainage ditches leading to surface water unlikely.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
1) BANK #1 POWER TRANSFORMER	GEOMEMBRANE LINER	6" B&S	LINER TO OWS TO DRYWELL
2) SOUTH OF FACILITY	STEEL OIL/WATER SEPARATOR	6" B&S	HOLDING CAPACITY: 3,110 GALLON DRAINS TO DRYWELL

Notes on the Facility's Containment System(s):

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
MINIDOKA	Bareground Acres: 0.04 Fenced Acreage: 0.033 Site Acreage: 0.8	S2, T8S, R25E, BM	MINIDOKA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on BPA fee-owned land. The substations is surrounded by private residential land.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
NONE		

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **MINIDOKA**

Facility ID: MINI

Region: IDAHO FALLS

Address: MAIN STREET

Latitude: 42 45 9.4674 N

Longitude: 113 29 27.8510 W

City, State, Zip MINIDOKA, ID,

Description of the Facility:

Oil-filled equipment at Minidoka Substation consists of three Power Transformers, one with 200 gallons and two with 118 gallons of oil and one Station Service Transformer with 20 gallons of oil. There is one Power Circuit Breaker with 34 gallons of oil.

Topographic Description of the area:

Minidoka Substation is bordered to the west by the Entrance Road and Main Street. Bordering to the east and south is a private residence yard and to the north by an open field.

Physical Site Information.

Surface Soil:	CLAYEY SILT	Neighboring wells?	YES	Annual Precip:	7
Sub-Surface Soil:	UNKNOWN	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	MODERATE	Crops:		Leases:	
Depth to GW:	UNKNOWN	Floodplain:	N		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Description of Drainages:

There is no subsurface drainage piping system at this facility and the yard is graded level in all directions.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THERE ARE NO OIL CONTAINMENT SYSTEMS AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
MACKS INN	Bareground Acres: 1.00 Fenced Acreage: 0.83 Site Acreage: 1.84	S31, T14N, R44E BM	FREMONT	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is owned by Fall River Electric Coop and is adjacent to a gravel pit, surrounded by the Targhee USFS.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
MARSH	MARSH	E-900'
HENRY'S FORK, SNAKE RIVER	RIVER	N-1500'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **MACKS INN**

Facility ID: MKIN

Region: IDAHO FALLS

Address: S. BIG SPRING AVE.

Latitude: 44 29 32.3652 N

Longitude: 111 18 43.3005 W

City, State, Zip MACKS INN, ID,

Description of the Facility:

Equipment at this facility includes two 115 kV Power Transformers each containing 7,450 gallons of oil. Station Service is provided by two Station Service Transformers each containing 130 gallons of oil. Also on site are three oil filled Power Circuit Breakers ranging in volume from 183 to 1,950 gallons of oil. Other equipment includes Potential and Current Transformers containing a total of 60 gallons of oil.

Topographic Description of the area:

The terrain were this facility is situated is relatively flat with a downgradient slope to the southeast. North of this facility there is a gravel pit.

Physical Site Information.

Surface Soil:	TARGHEE LOAM	Neighboring wells?	YES	Annual Precip:	25
Sub-Surface Soil:	GRAVELLY SANDY LOAM & TUF	Sole Source Aquifer?	N	Public Property:	
Soil Permeability:		Crops:		Leases:	
Depth to GW:		Floodplain:	Y		

Surface Water Evaluation:

This facility requires a SPCC plan due to oil volumes and pathway to adjacent water bodies.

Macks Inn has no subsurface drainage pipe system. THIS FACILITY IS LEVEL IN ALL DIRECTIONS. Drainage leaving this facility must flow overland. General drainage surrounding this facility converges near the eastern border of the substation yard and flows through a draw northeast approx. 800' to a pooling area in a meadow. Beyond the meadow approx. 200' is a marsh.

Description of Drainages:

The energized yard at this facility is level in all directions and has no subsurface drainage pipe system. Drainage leaving this facility must flow overland to reach surrounding drainage ditches.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Drainage leaving this facility must flow overland. General drainage surrounding this facility converges near the eastern border of the substation yard and flows through a draw northeast approx. 800' to a pooling area in a meadow. Beyond the meadow approx. 200' is a marsh.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
Notes on the Facility's Containment System(s):			
THERE IS NO SECONDARY CONTAINMENT AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
MOUNTAIN HOME	Bareground Acres: 0.46 Fenced Acreage: 0.25 Site Acreage:	S9, T3S, R7E BM	ELMORE	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

Substation is surrounded by range land

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
RATTLESNAKE CREEK	CREEK	S - 2,000'
MOUNTAIN HOME RESERVOIR	RESERVOIR	SW - 4,400'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **MOUNTAIN HOME**

Facility ID: MTHO

Region: IDAHO FALLS

Address: HIGHWAY #20

Latitude: 43 9 6.8529 N

Longitude: 115 39 12.6166 W

City, State, Zip MOUNTAIN HOME, ID,

Description of the Facility:

Oil-filled equipment at Mountain Home Substation includes three Power Transformers, each containing 4,640 gallons of oil.

Topographic Description of the area:

Mountain Home Substation is bordered to the north and west by the Idaho Power Company substation and to the east and south by open fields.

Physical Site Information.

Surface Soil: SANDY SILT	Neighboring wells? NO	Annual Precip: 7
Sub-Surface Soil: UNKNOWN	Sole Source Aquifer? Y	Public Property:
Soil Permeability: MODERATELY RAPID	Crops:	Leases:
Depth to GW: 40 FT	Floodplain: N	

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

All off-site drainage flows to pooling areas in permeable soil.

Description of Drainages:

Mountain Home Substation has no subsurface drainage pipe system. The yard is graded level in all directions.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THERE IS NO OIL CONTAINMENT SYSTEM AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
NEWCOMB	Bareground Acres: 0.34 Fenced Acreage: 0.28 Site Acreage: 0.69	S5, T10S, R25E, BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on BPA fee-owned land. Surrounding land use is farm land to the west and north. County road to the south and east.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
NONE		

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **NEWCOMB** Facility ID: NEWC Region: IDAHO FALLS

Address: COUNTY ROAD #300

Latitude: 42 34 35.8860 N

Longitude: 113 33 28.8082 W

City, State, Zip DECLO, ID,

Description of the Facility:

Oil-filled equipment at Newcomb Substation includes two Power Transformers, one with 1,093 gallons of oil and one with 1,910 gallons and one Station Service Transformer with 11 gallons of oil.

Topographic Description of the area:

Newcomb Substation is bordered on the south by the Entrance Road and County Road 300 and on the east, north and west by open fields.

Physical Site Information.

Surface Soil:	SILTY SAND	Neighboring wells?	NO	Annual Precip:	7
Sub-Surface Soil:	SILTY SAND	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	MODERATELY RAPID	Crops:		Leases:	
Depth to GW:	UNKNOWN	Floodplain:	N		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Description of Drainages:

There is no subsurface drainage piping system at this facility. The yard is graded -2.0% to drain to the west.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THERE ARE NO OIL CONTAINMENT SYSTEMS AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
RAFT	Bareground Acres: 0.55 Fenced Acreage: 0.57 Site Acreage: 1.05	S31, T9S, R28E, BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on BPA fee-owned land and is shared with Raft River Co-Op. Substation is surrounded by farm land and pasture land.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
CALDER CREEK	CREEK	S - 5,500'
RAFT RIVER	RIVER	W - 3,750'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **RAFT** Facility ID: RAFT Region: IDAHO FALLS

Address: YALE ROAD

Latitude: 42 35 24.6475 N

Longitude: 113 13 1.8963 W

City, State, Zip RAFT, ID,

Description of the Facility:

Topographic Description of the area:

Physical Site Information.

Surface Soil:	UNKNOWN	Neighboring wells?	NO	Annual Precip:	7
Sub-Surface Soil:	UNKNOWN	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	UNKNOWN	Crops:		Leases:	
Depth to GW:	UNKNOWN	Floodplain:	N		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Yard drainage flows into ditch along roadway, flowing north to pooling area.

Description of Drainages:

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
Notes on the Facility's Containment System(s):			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
ROE'S CORNER	Bareground Acres: 0.39 Fenced Acreage: 0.28 Site Acreage: 5	S14, T9S, R24E BM	MINIDOKA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on BPA fee-owned land. Substation is surrounded by farm land to the east and south and a small tree farm to the north

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
B CANAL	CANAL	N - 500'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **ROE'S CORNER** Facility ID: ROES Region: IDAHO FALLS

Address: STATE HWY #24

Latitude: 42 38 55.1045 N

Longitude: 113 37 41.2157 W

City, State, Zip RUPERT, ID,

Description of the Facility:

Oil-filled equipment at Roe's Corner Substation consists of one Power Transformer with 5,681 gallons of oil and one Station Service Transformer with 19 gallons. Customer-owned equipment include nine Voltage Transformers with a total of 955 gallons of oil.

Topographic Description of the area:

Roe's Corner Substation is bordered to the west by County Road 200 East and parking area. The substation is bordered to the east, north, and south by level open fields.

Physical Site Information.

Surface Soil: SILTY SAND	Neighboring wells? NO	Annual Precip: 7
Sub-Surface Soil: GRAVELLY SAND	Sole Source Aquifer? Y	Public Property:
Soil Permeability: MODERATELY RAPID	Crops:	Leases:
Depth to GW: UNKNOWN	Floodplain: N	

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

County road and railroad bed lie between substation and irrigation canal. Substation is sloped -0.5% to the east and west from the middle of the yard.

Description of Drainages:

Roe's Corner Substation has no subsurface drainage piping system. The yard is graded with a diverging slope of -0.5% to the west and east from the middle of the yard.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

B Canal is located 500 feet to the north of the substation across County Road 200 East and the RR tracks with no potential pathway.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THERE ARE NO OIL CONTAINMENT SYSTEMS AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
ROUND VALLEY	Bareground Acres: 0.39 Fenced Acreage: 0.95 Site Acreage: 3.9	S 19, T 13 N, R 20 E, BM	CUSTER	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on an easment owned by the Salmon River Co-Op. The substation is surrounded by range land (sage brush).

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
INTERMITTENT STREAM	STREAM	S-100'
WARM SPRING CREEK	CREEK	N-2,550'
INTERMITTENT STREAM	STREAM	N-300'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **ROUND VALLEY**

Facility ID: RVLV

Region: IDAHO FALLS

Address: HIGHWAY 93

Latitude: 44 26 42.7283 N

Longitude: 114 7 51.9068 W

City, State, Zip CHALLIS, ID,

Description of the Facility:

Round Valley Substation has one 230 kV oil-filled Power Transformers, T-1651 (Bank #1) that contains 6,770 gallons of oil. Station service is provided by one transformer containing 180 gallons of oil. Salmon River Electric Co-Op owns one oil Power Circuit Breaker which BPA operates and maintains that contains 340 gallons of oil. Other equipment includes three Potential Transformers each containing 40 gallons of oil.

Topographic Description of the area:

This facility is situated on a northwesterly facing downgradient slope. The terrain to the east is characterized by a drainage ditch that collects runoff from the adjacent upgradient slope. South of the facility is a drainage ditch with an adjacent downgradient slope leading to an intermittent stream bed. West of the facility is the graveled substation parking area bordered by a steep downgradient slope. North of the facility is a steep downgradient slope which meets an intermittent stream bed.

Physical Site Information.

Surface Soil:	GRAVELLY SILTY SAND	Neighboring wells?	NO	Annual Precip:	6
Sub-Surface Soil:	SILTY SANDY GRAVEL	Sole Source Aquifer?	N	Public Property:	
Soil Permeability:	RAPID	Crops:		Leases:	
Depth to GW:	BEDRK 1-2	Floodplain:	N		

Surface Water Evaluation:

This facility requires a SPCC plan due to oil volumes and pathway to adjacent water bodies.

Description of Drainages:

There is no subsurface drainage piping at this facility. The energized yard has two tiers both sloped -2.0% from south to north, and are level from east to west.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Drainage surrounding this facility drains to the north or the south to intermittent streams. These streams converge approx. 825 feet to the northeast. The combined flows continue to the northeast approx. 1/2 mile where drainage from several sources combine and continue to the north and fan out west of Hwy 93.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THIS FACILITY HAS NO OIL CONTAINMENT SYSTEMS.			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
SPAR CANYON	Bareground Acres: 5.20 Fenced Acreage: 4.65 Site Acreage: 10.4	S12, T11N, R20E BM	CUSTER	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is owned by the Salmon River Co-Op. The substation is surrounded by range land.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
MARSH	MARSH	NW-4000 FEET
INTERMITTENT STREAM	STREAM	S-100 FEET
GOOSEBERRY CREEK (INTERMITTENT)	CREEK	N-1.1 MILES

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **SPAR CANYON** Facility ID: SPCN Region: IDAHO FALLS

Address: HIGHWAY 93

Latitude: 44 17 44.0000 N

Longitude: 114 1 36.0000 W

City, State, Zip CUSTER COUNTY, ID,

Description of the Facility:

BPA owned and operated equipment at Spar Canyon Substation includes one 230 kV Reactor containing 3,425 gallons of oil.

Oil filled equipment owned by Salmon River Co-Op that is operated and maintained by BPA includes Current and Potential Transformers containing a total of 585 gallons of oil.

Topographic Description of the area:

This facility is situated on a northwesterly facing downgradient slope. The terrain to the east is characterized by a drainage ditch that collects runoff from the adjacent upgradient slope. South of the facility is a drainage ditch with an adjacent downgradient slope leading to an intermittent stream bed. West of the facility is a deep drainage ditch with a berm beyond that slopes down to a steep downgradient slope. North of the facility is the graveled substation parking area bordered by a downgradient slope to a pooling area. Beyond the pooling area the terrain slopes down to meet an intermittent stream bed.

Physical Site Information.

Surface Soil: GRAVELLY SILTY SAND	Neighboring wells? NO	Annual Precip: 6
Sub-Surface Soil: SILTY SANDY GRAVEL	Sole Source Aquifer? N	Public Property:
Soil Permeability: RAPID	Crops:	Leases:
Depth to GW: UNKNOWN	Floodplain: N	

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Description of Drainages:

There is no subsurface drainage piping at this facility, however the yard is graded to drain having diverging -0.3% slopes to the north and south and is level from east to west.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Intermittent streams parallel the northern and southern boundaries of this facility and converge approx. 1000 feet to the west. The combined flows continue west approx. 3/4 mile to culverts passing under Hwy 93. Drainage continues approx. 1/2 mile and fans out on Antelope Flat.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
THIS FACILITY HAS NO OIL CONTAINMENT SYSTEMS.			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
SWAN VALLEY	Bareground Acres: 2.00 Fenced Acreage: 1 Site Acreage: 4.46	S35, T2N, R43E, BM	BONNEVILLE	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on an easement and is a shared Yard with Lower Valley Power and Light. Surrounding land use is range land.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
INTERMITTENT STREAM	STREAM	N-300'
SNAKE RIVER	RIVER	SE-3,286.626
RAINEY CREEK	CREEK	S-1500'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is a direct pathway to a seasonal stream that connects to Rainey Creek. Do not apply any chemical having a surfacewater label advisory.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **SWAN VALLEY**

Facility ID: SWVY

Region: IDAHO FALLS

Address: HWY # 26

Latitude: 43 27 20.6510 N

Longitude: 111 22 3.8286 W

City, State, Zip SWAN VALLEY, ID,

Description of the Facility:

Swan Valley Substation has two Power Transformers with volumes ranging from 4,950 gallons to 8,700 gallons of oil. Also at this site are two oil Power Circuit Breakers with oil volumes ranging from 1,740 to 1,800 gallons. Miscellaneous equipment includes Current and Potential Transformers with a total volume of 45 gallons.

Topographic Description of the area:

The portion of the yard, south of the Control House, is sloped -3.0% to the north and is level from east to west. North of the Control House, the substation yard has a -1.0% slope to the north and is also level from east to west. Terrain to the west is characterized by the substation yard shoulder which meets a northerly flowing drainage ditch. Beyond the ditch is a steep upgradient slope (exposed soil and brush covered). North of the facility, the substation yard shoulder drops off sharply to a grass field which is relatively level for approximately 280 feet, then drops sharply to an intermittent stream. This intermittent stream flows east, then south approx. 3,500' to Rainey Creek. Terrain east of the facility is characterized by the gravel substation parking area with a northerly draining ditch along the eastern border, and an upgradient grass slope. South of the site, the terrain is characterized by the substation shoulder which meets a westerly flowing ditch with a steep upgradient slope beyond.

Physical Site Information.

Surface Soil:	SANDY SILT	Neighboring wells?	YES	Annual Precip:	12
Sub-Surface Soil:	UNKNOWN	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	MODERATE	Crops:		Leases:	
Depth to GW:	UNKNOWN	Floodplain:	Y		

Surface Water Evaluation:

This facility requires a SPCC plan due to oil volumes and pathway to adjacent water bodies.

The Swan Valley Substation subsurface drainage system consists of a singular run of 6" perforated concrete pipe with a catch basin at the east end and which drains west to Outfall #1. This pipe run is located in the section of the yard, south of the Control House. THE AREA SOUTH OF THE CONTROL HOUSE IS SLOPED -3.0% TO THE NORTH AND THE AREA NORTH OF THE CONTROL HOUSE IS SLOPED -1.0% TO THE NORTH. THE SUBSTATION IS LEVEL FROM EAST TO WEST.

Swan Valley Substation has one outfall which drains into a ditch flowing north on the west perimeter of the substation. This ditch flows approximately 350' into a gully which drains into Rainey Creek, approximately 1,500 feet to the south.

Description of Drainages:

Drainage piping on this yard consists of a singular east to west run of 6" perforated concrete piping with a catch basin at the eastern end and draining to the west at Outfall #1. Outfall #1 drains into a drainage ditch flowing north along the western border of the yard. There are also drainage ditches south and east of the facility. The ditch to the south collects drainage from the hill southwest of the facility and directs it to the east and into a 12" CMP running under the entrance road to a ditch. The outlet of this pipe is buried at this time. The ditch to the east flows to the north along the parking area, into another 12" CMP. Drainage is directed to the northwest around the substation turning to the west, and into a level area and gully, prior to draining north to an intermittent stream which flows to Rainey Creek.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Drainage from this site is carried by ditches around the substation to the north into an intermittent stream. This stream carries surface runoff to the south, under Hwy #26 to Rainey Creek.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
There are no Oil Containment Systems at this facility.			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
TARGHEE	Bareground Acres: 1.29 Fenced Acreage: 1.11 Site Acreage: 2.09	S35, T5N, R45E	TETON	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on BPA fee-owned land. And is shared with Fall River Co-Op. Wetlands surround the substation to the west and south. To the east and north pasture and residential homes are adjacent to the substation.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
SEASONAL STREAM	STREAM	S-10'
WETLAND	WETLAND	W&S-10'
SPRING, TETON RIVER		

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any wells, or canals. There is a direct path from the substation to the seasonal stream and wetlands to the south and west. Do not use any chemical with a surface water advisory. Do not apply any chemical to adjacent agricultural areas.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **TARGHEE** Facility ID: TARG Region: IDAHO FALLS

Address: BUXTON ROAD

Latitude: 43 43 21.3057 N

Longitude: 111 6 55.9177 W

City, State, Zip DRIGGS, ID,

Description of the Facility:

Bonneville Power Administration equipment at Targhee Substation includes one 115 kV Power Transformer containing 3,064 gallons of oil, and two oil Power Circuit Breakers ranging in volume from 220 to 1,680 gallons of insulating oil. Other miscellaneous equipment consists of Current and Potential Transformers containing a total of 241 gallons of oil, and one capacitor group containing 165-1.6 gallon, non-PCB capacitors.

Fall River Electric Co-Op operates one 115-12.5 kV Power Transformer containing 3,185 gallons of oil and one 46-12.5 kV Power Transformer containing 1,290 gallons of oil. Additional equipment includes three Voltage Regulators each containing 174 gallons of oil.

Topographic Description of the area:

Targhee Substation is sloped -0.5% to the south and is level from east to west. Terrain to the north is characterized by the substation yard shoulder and parking areas which meet a westerly flowing drainage ditch. From Outfall #1, drainage is carried under the entrance road through an 18" CMP to the west along Buxton Road where drainage empties into a seasonal marsh. Terrain to the east is characterized by a substation yard shoulder bordered by a well defined drainage ditch, which drains to the south and meets a seasonal stream. This stream flows to the west along the southern border of the substation yard into the wetland southwest and adjacent of the facility. West of the facility is a drainage ditch which flows to the south into the wetlands.

Physical Site Information.

Surface Soil:	GRAVELLY SILTY SAND	Neighboring wells?	YES	Annual Precip:	13
Sub-Surface Soil:	SAND & GRAVEL	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	RAPID	Crops:		Leases:	
Depth to GW:	125-205 FT	Floodplain:	Y		

Surface Water Evaluation:

This facility requires a SPCC plan due to oil volumes and pathway to adjacent water bodies.

Targhee Substation has a containment system which utilizes geomembrane liners connected together and tied to an oil/water separator, which drains into a ditch north of the substation through Outfall #1. Containment piping consists of a 6" solid concrete pipe. TARGHEE SUBSTATION IS LEVEL FROM EAST TO WEST AND IS SLOPED -0.5% TO THE SOUTH.

Drainage ditches on the east and west perimeters flow south into a seasonal stream which flows into wetlands located to the east.

Description of Drainages:

The BPA Power Transformer T-1652 and the Fall River Electric Co-Op Power Transformer T#7815, share geomembrane liners. These liner systems are connected together and drain to a single oil water separator, prior to be discharged off-site at Outfall #1. Containment piping consists of 6" B & S concrete piping. Drainage from the outfall flows into a ditch flowing west between the substation and Buxton Road. Surface runoff flows into drainage ditches that surround the facility.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

This facility is located in an area where the water table is at the surface most of the year. Wetland surrounds the facility to the west, east, and south. The drainage ditches which surround this facility either are filled with standing or flowing water most of the year, when not frozen.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
1) BANK #1 & BANK #2	GEOMEMBRANE LINER	6" SOLID CONCRETE	TIED TO OIL/WATER SEPARATOR
2) NE OF CONTROL HOUSE	STEEL OIL/WATER SEPARATOR	6" SOLID CONCRETE	HOLDING CAPACITY: 3,000 GALLONS

Notes on the Facility's Containment System(s):

Fall River Electric Co-Op (FREC) and BPA share use of the oil containment system at this facility. FREC owns and maintains the oil/water separator Power Transformer T#7815 (Bank #1), and BPA owns and maintains the liner under their 115 kV Power Transformer T-1625 (Bank #2).

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
TETON	Bareground Acres: 1.69 Fenced Acreage: 1.42 Site Acreage: 4.01	S12, T41N, R17W, BM	TETON	WY

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation Parcel 3 - is BPA fee-ownership. Parcel 2 & Parcel 4 - are easement. Private forest, pastures and rural residential homes surround the substation.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
SEASONAL STREAM	STREAK	SE-20'
FISH CREEK	CREEK	E - 3,500'
SEASONAL STREAM	STREAM	N - 30'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is a direct path from the substation to the seasonal streams to the north and southeast. Do not use any chemical with a surface water advisory.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **TETON**

Facility ID: TETN

Region: IDAHO FALLS

Address: WILSON RD.

Latitude: 43 32 15.8994 N

Longitude: 110 50 8.2947 W

City, State, Zip MOOSE, WY,

Description of the Facility:

Oil filled equipment at this facility includes one 230 gallon Station Service Transformer, two oil filled Power Circuit Breakers each containing 1,800 gallons of oil, and several Potential and Current Transformers containing approximately 228 gallons of oil. Also at this facility are two capacitor groups containing a total of 252 - .85 gallon non-PCB capacitors.

Topographic Description of the area:

Terrain north of this facility is characterized by the substation yard shoulder meeting a seasonal stream which borders the facility to the northwest. Brush and trees characterize the terrain north of the capacitors and beyond the stream. East of the facility the terrain is characterized by brush and trees and a seasonal steam which flows from the northeast to the southwest. South of the yard the terrain is characterized by trees and brush with a branch from the southern stream passing the facility from east to west. West of the facility is the substation parking and entrance road with brush and trees beyond. The northern of the two streams flows southwest through this area.

Physical Site Information.

Surface Soil:	FINE SANDY LOAM	Neighboring wells?	YES	Annual Precip:	13
Sub-Surface Soil:	GRAVELLY LOAM SAND	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	MODERATELY RAPID/RAPID	Crops:		Leases:	
Depth to GW:		Floodplain:	N		

Surface Water Evaluation:

This facility requires a SPCC plan due to oil volumes and pathway to adjacent water bodies.

Teton Substation contains no subsurface drainage pipe system. THIS FACILITY IS LEVEL IN ALL DIRECTIONS. Teton Substation has seasonal streams located adjacent to the northwestern and southeastern corners of the facility. The southern stream branches into two channels near the southeastern corner of the facility. The main channel flows to Fish Creek, and the other channel flows past the border of the yard to the west through two culverts into a small pooling area. This pooling area drains to the west through a culvert under a gravel road. The stream continues approx. 500' and flows into the stream which passes the facility from the north. Both seasonal streams flow through a series of ditches and culverts approx. two miles to the southwest and flow into Fish Creek.

Description of Drainages:

The energized yard at this facility is level in all directions and has no subsurface drainage pipe system. A cable trench bisects the yard from east to west, south of the Power Circuit Breakers. Drainage leaving this facility must flow overland to reach surrounding drainage ditches.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Teton Substation has seasonal streams located adjacent to the northwestern and southeastern corners of the facility. The southern stream branches into two channels near the southeastern corner of the facility. The main channel flows to Fish Creek, and the other channel flows past the border of the yard to the west through two culverts into a small pooling area. This pooling area drains to the west through a culvert under a gravel road. The stream continues approx. 500' and flows into the stream which passes the facility from the north. Both seasonal streams flow through a series of ditches and culverts approx. two miles to the southwest and flow into Fish Creek.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
Notes on the Facility's Containment System(s):			
THERE IS NO SECONDARY CONTAINMENT AT THIS FACILITY			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
TINCUP	Bareground Acres: 0.11 Fenced Acreage: Site Acreage:	S3, T5S, R46E BM	CARIBOU	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

Substation is owned by Lower valley Power and light, BPA operates a capacitor group with in the yard. Surrounding land is primarily farm lands.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals. BPA's Herbicide application within this substation is limited to the Capacitor group.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **TINCUP**

Facility ID: TNCP

Region: IDAHO FALLS

Address:

Latitude: 43 0 50.5 N

Longitude: 111 2 53.5 W

City, State, Zip FREEDOM, ID,

Description of the Facility:

Topographic Description of the area:

Physical Site Information.

Surface Soil:

Neighboring wells? ?

Annual Precip:

Sub-Surface Soil:

Sole Source Aquifer? Y

Public Property:

Soil Permeability:

Crops:

Leases:

Depth to GW:

Floodplain:

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

This facility has a -0.5% slope from northwest to southeast. Drainage from this facility drains to the southeast toward Lincoln County Road.

Description of Drainages:

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			THIS FACILITY HAS NO CONTAINMENT SYSTEMS
Notes on the Facility's Containment System(s):			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
UNITY	Bareground Acres: 0.62 Fenced Acreage: 1.01 Site Acreage: 2.1	S11, T11S, R23E, BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

The substation is located on BPA fee-owned land. Farm land to the north, south and east. County road to the west.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
HIGH LINE CANAL (UPGRADIENT)	CANAL	E - 40'
SNIPE GULCH DRAIN	CANAL	S - 45'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

40 feet east of the substation there is a direct path to High Line Irrigation canal and 45 feet to the south Snipe irrigation canal. Do not use any chemical with a surface water advisory. Do not apply any chemical to adjacent agricultural areas.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **UNITY**

Facility ID: UNTY

Region: IDAHO FALLS

Address: 250 EAST ROAD

Latitude: 42 28 55.5254 N

Longitude: 113 44 34.8382 W

City, State, Zip BURLEY, ID,

Description of the Facility:

Unity Substation has one 138 kV Power Transformer containing 3,745 gallons of oil. Station Service is provided by two Station Service Transformers containing a total of 229 gallons of oil. Other miscellaneous oil filled equipment includes three Potential Transformers each containing 59 gallons of oil. United Electric Co-Op Inc. has two oil filled Power Circuit Breakers each containing 41 gallons of oil.

Topographic Description of the area:

The terrain west of this facility is characterized by two pooling areas on either side of the gravel substation parking area which are bordered by the substation yard and 250 East Road. North of the facility the terrain has a slight upgradient slope to field. East of the facility the terrain slopes up to meet the dikes for a small irrigation ditch and Highline Canal. South of the facility the terrain is level and meets a gravel access road. Beyond this road is Snipe Gulch Drain.

Physical Site Information.

Surface Soil:	SANDY SILT, SILTY SAND	Neighboring wells?	YES	Annual Precip:	7
Sub-Surface Soil:	SANDY GRAVEL	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	MED SLOW-MED/RAPID-VERY R	Crops:		Leases:	
Depth to GW:	UNKNOWN	Floodplain:	N		

Surface Water Evaluation:

This facility requires a SPCC plan due to oil volumes and pathway to adjacent water bodies.

Description of Drainages:

Unity Substation has no subsurface drainage system for the energized yard. The Handholds (HH) have interconnecting 2" PVC drainage piping which drains to a sump pump located in (HH#1), and discharges to the surface north of the control house. This facility is level from northwest to southeast and has a -0.5% slope from the northeast to the southwest.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Drainage from this facility enters one of two pooling areas on either side of the substation parking area and are bordered by the substation yard and 250 East Road. During the site inspection the inlet and outlet to the culvert under the parking area could not be located and may be buried. Should the southwestern pooling area along the road overflow, drainage may flow south across the gravel access road and enter several deep pooling areas in Snipe Gulch Drain. The 36" CMP running under 250 East Road is approx. 80% buried, further limiting drainage from escaping this pooling area. Highline Canal is located east of the facility and is upgradient.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			
This facility has no oil containment systems.			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
WEST BURLEY (SOLD)	Bareground Acres: 0.64 Fenced Acreage: 0.5 Site Acreage: 0.64	S19, T10S, R23E, BM	CASSIA	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

City of Burley & Unity L&L owns property and BPA owns the substation which is shared with Unity light and power company. Farm land and residential homes surround the substation.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
SNAKE RIVER	RIVER	NW-2,500'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There are no drainage pipes, outfalls, or wells present at this site. There is no direct pathway to any streams, wells, or canals. Do not apply any chemical to adjacent agricultural areas.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
NONE			NO WELLS HAVE BEEN IDENTIFIED AT THIS FACILITY

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **WEST BURLEY (SOLD)** Facility ID: WBRL Region: IDAHO FALLS

Address: 100 WEST ROAD & 16TH STREET

Latitude: 42 32 16.5979 N

Longitude: 113 48 16.7277 W

City, State, Zip BURLEY, ID, 83318

Description of the Facility:

The West Burley Substation has one 138 kV Power Transformer with a total of 5,110 gallons of oil. The remainder of the oil-filled electrical equipment is owned and operated by Unity Light & Power Company.

Topographic Description of the area:

Physical Site Information.

Surface Soil:	SILTY SAND	Neighboring wells?	YES	Annual Precip:	7
Sub-Surface Soil:	GRAVEL	Sole Source Aquifer?	Y	Public Property:	
Soil Permeability:	MOD/RAPID	Crops:		Leases:	
Depth to GW:	4.5-6FT	Floodplain:	N		

Surface Water Evaluation:

This facility does not require an SPCC plan. There is no pathway to adjacent water.

Substation lies in a depression, with no pathway to surface water.

Description of Drainages:

West Burley Substation is level from east to west and has a -0.5% slope to the north. There is no stormwater drainage pipe system within the energized yard, but the yard is graded to drain to the local open surface drainage system.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
NONE			
Notes on the Facility's Containment System(s):			

ELECTRIC YARD AND NON-ELECTRIC FACILITY CHECKLIST

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe facility: (More than one facility may be listed and analyzed.)

Substation/Facility Name	Size of Area to be Treated (Acres or Square Feet)	Nearest 1/4 Section Township/Range or GPS Coordinates	County	State
WESTSIDE	Bareground Acres: 2.00 Fenced Acreage: 2.8 Site Acreage: 26.4	S27, T2N, R37E BM	BONNEVILLE	ID

1.2 Describe vegetation needing management:

- Non-Electrical Facility (Describe all landscaping vegetation management.)
- Substation (Total vegetation management.)
 - Ornamental/Landscaped areas requiring fertilizer, mowing, broadleaf control and weed control.
 - Field grass or other low growing cover crop, mostly mechanical control, spot herbicide treatment for some broad leaf and noxious weed control.
 - Restricted Vegetation Management: See attached drawings and section 3.1 of the checklist for restrictions.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses around your facility.

Rural residential and farm land surround the substation.

2.2 Determine if there is a need to notify surrounding landowners of vegetation management activities. If so, why and how?

If notification is required it will be listed next to each landowner up above in section 2.1.

2.3 List any specific measures to be taken based on surrounding landowners/use.

None required.

3. IDENTIFY NATURAL RESOURCES

3.1 Water Resources

List or describe any water resources (streams, rivers, lakes, wetlands, undeveloped springs, etc.) near the facility.

Name	Type	Distance
SIDEHILL CANAL	CANAL	S - 1,300'
PORTER CANAL	CANAL	NW - 315'

Does the substation/facility drainage have a direct pathway to the water body?

What measures will you take to limit potential impacts to water resources? As appropriate, list any buffers that will be applied.

After reviewing the GIS maps & facility plot plans, there are no streams, irrigation canals, and/or T & E species immediately adjacent to the substation facility. There is no direct pathway to any streams or canals. A dry well located 15 feet east of the substation yard is connected to an oil/water separator. A grounding well located outside of the yard is used for electrical purposes only and are tightly grouted outside and inside the casing. An irrigation well located 70 feet south of the substation yard is 260 feet deep. Well is cased and grouted in accordance with state regulations to a depth 20 feet. Well logs indicate several layers of clay, gravel and lava, indicating favorable geology. The well is pumping water from the Snake River Sole Source Aquifer: Do not apply any chemical having a groundwater or surface water label advisory. Do not apply granular formulated chemicals. Do not apply any chemical to adjacent agricultural areas.

3.2 Herbicide Use Near Irrigation Sources and Domestic and Public Drinking Water Supplies

List or describe any irrigation or domestic/public water source.

Well Number	Depth of Well (ft)	Static Water Depth	Remarks
#1	260	128	IRRIGATION WATER WELL. DRILLED 06/24/83. BPA DWG#236844
#2	440		GROUNDING WELL 1984 BACKFILL CEMENT + BENTONITE

What measures will you take to limit potential impacts to irrigation and drinking water supplies? As appropriate, list any buffers that will be applied.

If any, they will be listed in section 3.1.

3.3 Threatened and Endangered Plant or Animal Species

Are there any T&E species in the area that could be affected? List if necessary.

If any, they will be listed in section 3.1.

What measures will you take to limit potential impacts to each T&E species? As appropriate, list any buffers that will be applied

Limit use of chemicals with groundwater/surface water label advisories and implementation of limitations to application methodology.

3.4 Steep Slopes/ Unstable Slopes (Soils)

Will herbicide treatment be occurring on any steep slopes?

As appropriate, list any buffers, reseeding and/or ground disturbing restrictions that will be applied

Possibly, during spot spraying. If so applicator will observe all BMPs identified in the VEG EIS and buffers on attached drawing.

3.5 Attach drawing showing location of all required buffers.

4. DETERMINE VEGETATION CONTROL METHODS

Describe overall vegetation management scheme and schedule:

Bareground managed areas will primarily use herbicides with supplemental usage of mechanical methods. Other areas will be managed as described in section 1.2. Only herbicides from BPA's approved herbicide list will be used. All areas will be managed consistently with the Vegetation EIS.

Initial:

For electrical substations the goal is Total Vegetation Management. A licensed contractor sprays the substations annually. BPA's substation herbicide application contracts contain specific language to ensure herbicides are applied consistent with the VEG EIS. Facilities requiring landscaping are designed to be low maintenance and are consistent with Integrated Pest Management procedures, such as using native, low growing plant types and mulches etc...

Subsequent:

Herbicides will be applied on an annual or as needed. Active ingredients shall be rotated to ensure plants do not build a tolerance. Mechanical methods shall be performed on an as needed basis. Landscaping (ornamental plants/lawns) may be maintained via contractor or performed by BPA employees.

Future:

Future control will be consistent with the methods described above.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. For other areas green debris will be recycled on-site to the extent practical.

6. DETERMINE MONITORING NEEDS

6.1 Describe evaluation of BPA/contractor treatment practices to ensure vegetation management measures are working.

Monitoring will occur through herbicide contract management and the observations of BPA Personnel during on site visits.

6.2 Is there a need to monitor adjacent areas for potential herbicide movement/contamination? If so, describe monitoring plan. (Unless monitoring for other reasons, this section should be consistent with BPA-systemwide herbicide monitoring plan not yet finalized.)

Describe debris disposal and revegetation , if any.

There will be no debris disposal and revegetation with bareground management. Debris disposal will take place on-site and will be recycled to the extent practical. Revegetation will be consistent with the existing vegetation of the facility and will incorporate native species where practical.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

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

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

None

Attachment B - Supplemental Resource Information

Facility **WESTSIDE** Facility ID: WESD Region: IDAHO FALLS

Address: PIONEER ROAD

Latitude: 43 28 5.2077 N

Longitude: 112 5 49.5315 W

City, State, Zip IDAHO FALLS, ID,

Description of the Facility:

Westside Substation has one 161 kV Power Transformer containing 6,620 gallons of oil. Also at this is one oil Power Circuit Breaker containing 220 gallons of oil. Station service is provided by three Station Service Transformers each containing 126 gallons of oil. Miscellaneous equipment includes Current and Potential Transformers with a total oil volume of 880 gallons.

Topographic Description of the area:

The substation is surrounded by level terrain with the major portion being irrigated farmland.

Physical Site Information.

Surface Soil: SANDY SILT	Neighboring wells?	Annual Precip: 7
Sub-Surface Soil: GRAVELLY SAND	Sole Source Aquifer? Y	Public Property:
Soil Permeability: MODERATE TO VERY RAPID	Crops:	Leases:
Depth to GW: 128 (STATIC)	Floodplain: N	

Surface Water Evaluation:

This facility requires a SPCC plan due to oil volumes and pathway to adjacent water bodies.

Yard sloped -0.5% to the west.

Description of Drainages:

The 161 kV Power Transformer at Westside Substation is surrounded by a containment pit system with a geomembrane liner. This containment pit system connects to an oil/water separator before draining to a drywell. Containment piping consists of 6" B&S concrete and several catch basins in-line. The substation yard is level from north to south with a -0.5% slope from east to west.

Geological information on ground water confining layers:

Identification of Water Resources.

Description of surface water resources:

Porter Canal (irrigation) passes this facility from east to west and comes within 375 feet of the substation. The canal has been built up above the surrounding level terrain by 3 foot dikes.

List of zones that may provide a means for vegetation control activities to threaten ground or surface water resources (secondary containment systems).

Containment Location	Containment Type	Drainage Pipe	Type of Liner / Remarks
1) BANK #1 POWER TRANSFORMER	GEOMEMBRANE LINER	6" B&S	LINER TO OWS
2) EAST OF FACILITY	STEEL OIL/WATER SEPARATOR	6" B&S	HOLDING CAPACITY: 6,630 GALLON DRAINS TO DRYWELL

Notes on the Facility's Containment System(s):