

**APPENDIX A**  
**Constraints and Opportunities**

**Table A-1. Constraints and Opportunities**

	<b>Resource Type</b>	<b>Constraint/Opportunity</b>	<b>Source</b>
1	Cultural Resources	Burns District Archaeological Site	BLM Field Offices
2	Cultural Resources	Vale District Cultural Site	BLM Field Offices
3	Cultural Resources	Cemetery	USGS
4	Cultural Resources	Historic Trail/Oregon Trail	BLM
5	Cultural Resources	National Register Historic Place	NRHP
6	Cultural Resources	Intact Oregon National Historic Trail Segment (OR BLM)	BLM
7	Cultural Resources	Oregon National Historic Trail Brochure - Trailrut	NPS/BLM/USFS National Parks and Monuments brochure
8	Cultural Resources	Oregon National Historic Trail Visitor's Center	USGS/Aerial Image
9	Cultural Resources	Native American Traditional Use Areas	BLM Field Office
10	Visual Resources	Viewshed Area (Baker County)	Baker County, OR Planning Department
11	Visual Resources	Devine Scenic Corridor (Burns District)	BLM Field Office
12	Visual Resources	Nationally Designated Scenic Byway	NSBP
13	Visual Resources	National Forest Visual Quality Objective: Maximum Modification	USFS
14	Visual Resources	National Forest Visual Quality Objective: Modification	USFS
15	Visual Resources	National Forest Visual Quality Objective: Partial Retention	USFS
16	Visual Resources	National Forest Visual Quality Objective: Retention	USFS
17	Visual Resources	National Forest Visual Quality Objective: Preservation	USFS
18	Visual Resources	BLM Visual Resource Management Class 1	BLM Field Offices
19	Visual Resources	BLM Visual Resource Management Class 2	BLM Field Offices
20	Visual Resources	BLM Visual Resource Management Class 3	BLM Field Offices
21	Visual Resources	BLM Visual Resource Management Class 4	BLM Field Offices

**Table A-1.** Constraints and Opportunities (continued)

	<b>Resource Type</b>	<b>Constraint/Opportunity</b>	<b>Source</b>
22	Fish and Wildlife	ODFW Conservation Opportunity Area	ODFW
23	Fish and Wildlife	IDFG Focal Area	IDFG
24	Fish and Wildlife	ODFW Big Game Deer Winter Range	ODFW
25	Fish and Wildlife	ODFW Big Game Elk Winter Range	ODFW
26	Fish and Wildlife	IDFG Big Game Crucial Winter Range	IDFG
27	Fish and Wildlife	Pronghorn Antelope Habitat (Boise District, ID)	BLM Field Office
28	Fish and Wildlife	Prineville District Fish Restoration Area	BLM Field Office
29	Fish and Wildlife	Prineville District Wildlife Habitat Seasonal Closure Area	BLM Field Office
30	Fish and Wildlife	Washington Ground Squirrel 785ft Habitat Buffer	TNC
31	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	ODFW
32	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	ODFW
33	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	ODFW
34	Fish and Wildlife	Sage-grouse Key Habitat Area (Idaho)	BLM
35	Fish and Wildlife	Sage-grouse Restoration Habitat Type 1: Perennial Grasslands (Idaho)	BLM
36	Fish and Wildlife	Sage-grouse Restoration Habitat Type 2: Annual Grass Understories (Idaho)	BLM
37	Fish and Wildlife	Within 2-mile Idaho Sage-grouse Lek Buffer (Unknown)	BLM
38	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Occupied)	ODFW
39	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Occupied but able to Permit)	ODFW
40	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Unoccupied)	ODFW
41	Fish and Wildlife	Special Status Stream: Bull Trout	USFWS
42	Fish and Wildlife	Special Status Stream: Chinook Salmon	StreamNet
43	Fish and Wildlife	Special Status Stream: Coho Salmon	StreamNet
44	Fish and Wildlife	Special Status Stream: Cutthroat Trout	StreamNet

**Table A-1.** Constraints and Opportunities (continued)

	<b>Resource Type</b>	<b>Constraint/Opportunity</b>	<b>Source</b>
45	Fish and Wildlife	Special Status Stream: Red Band Trout	StreamNet
46	Fish and Wildlife	Special Status Stream: Steelhead	StreamNet
47	Fish and Wildlife	Wild Horse and Burro Area (OR BLM)	BLM
48	Land Use	Area of Critical Environmental Concern	BLM
49	Land Use	Airport/Airstrips	USGS
50	Land Use	Community Parks	IDPR
51	Land Use	Fish Hatcheries	ODFW
52	Land Use	Hospitals	OR Geospatial Enterprise Office
53	Land Use	Dairy Farms	ID Dept. of Agriculture, ID Dept. of Environmental Quality
54	Land Use	Recreation Sites	USGS, BLM, IDPR
55	Land Use	Wind Turbines	Morrow County, OR Planning Department; Aerial Image
56	Land Use	BLM Wild and Scenic River: Recreation	BLM
57	Land Use	BLM Wild and Scenic River: Suitable Lands (Prineville District, OR)	BLM
58	Land Use	Burns District Off-Highway Vehicle: Seasonal Closure	BLM Field Office
59	Land Use	Burns District ROW Avoidance Corridor	BLM Field Office
60	Land Use	City Impact Area - Idaho	ID County Comprehensive Plans
61	Land Use	Confederated Tribes of the Umatilla Indian Reservation	Umatilla County, OR Department of Land Use Planning
62	Land Use	Cropland/Irrigated Agriculture	USDA/NRCS
63	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	DLCD
64	Land Use	Forested Land: Private	NLCD
65	Land Use	Forested Land: Public	NLCD
66	Land Use	Grazing Allotment - ID	BLM
67	Land Use	Grazing/Pasture - OR	BLM
68	Land Use	Lands with Wilderness Characteristics (OR BLM)	BLM
69	Land Use	Morrow County Park	Morrow County, OR Planning Department
70	Land Use	National Forest Old Growth Forest Stand	USFS
71	Land Use	National Forest: Special Interest Area	USFS
72	Land Use	Naval Weapons System Training Facility	DoD

**Table A-1.** Constraints and Opportunities (continued)

	<b>Resource Type</b>	<b>Constraint/Opportunity</b>	<b>Source</b>
73	Land Use	North Powder Valley	USGS
74	Land Use	Noxious Weeds (OR BLM)	BLM
75	Land Use	ODFW Wildlife Management Area	ODFW
76	Land Use	Oregon State Park	ORPD
77	Land Use	Prineville District Lands Proposed for Acquisition by the BLM	BLM Field Office
78	Land Use	Prineville District Noxious Weeds	BLM Field Office
79	Land Use	Prineville District Off-Highway Vehicle: Limited Use	BLM Field Office
80	Land Use	Prineville District Proposed Area of Critical Environmental Concern	BLM Field Office
81	Land Use	Prineville District Special Recreation Management Area	BLM Field Office
82	Land Use	Proposed Wilderness Study Area (ONDA)	ONDA
83	Land Use	Proposed Wind Farm Boundary (Burns District, OR)	BLM Field Office
84	Land Use	Recreation Area (OR BLM)	BLM
85	Land Use	Restricted Airspace - Airport	URS Corporation
86	Land Use	Special Recreation Management Area (Malheur RA, Vale District, OR)	BLM Field Offices
87	Land Use	The Nature Conservancy: Portfolio	TNC
88	Land Use	The Nature Conservancy: Preserve	TNC
89	Land Use	Urban Area	ESRI Streetmap
90	Land Use	Urban Growth Boundary - Oregon	ODOT, OR Employment Dept., DLCD, OR Geospatial Enterprise Office
91	Land Use	Vale District Off-Highway Vehicle: Limited to Designated Routes	BLM Field Office
92	Land Use	Vale District Off-Highway Vehicle: Limited to Existing Routes	BLM Field Office
93	Land Use	Virtue Flat OHV	BLM Field Office
94	Land Use	Wind Farm Boundary	Morrow County, OR Planning Department
95	Ownership	Bureau of Land Management	BLM
96	Ownership	Bureau of Reclamation	BLM
97	Ownership	Military Land	BLM
98	Ownership	Other Federal Land	BLM
99	Ownership	Private	BLM
100	Ownership	State Land	BLM
101	Ownership	U.S. Forest Service	BLM
102	Ownership	Water	BLM
103	Geological Resources	Erosion Hazard: High (Prineville District, OR)	BLM Field Office
104	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co., OR data n/a)	NRCS
105	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co., OR data n/a)	NRCS

**Table A-1.** Constraints and Opportunities (continued)

	<b>Resource Type</b>	<b>Constraint/Opportunity</b>	<b>Source</b>
106	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co., OR data n/a)	NRCS
107	Geological Resources	Idaho Landslide Susceptibility: Moderate	USGS
108	Geological Resources	Idaho Landslide Susceptibility: Low	USGS
109	Geological Resources	Fault Lines	USGS
110	Geological Resources	U.S. Geological Survey Active Mining Area	USGS
111	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	NRCS, SSURGO
112	Geological Resources	Oregon Landslide Feature: Fan	SLIDO v1
113	Geological Resources	Oregon Landslide Feature: Landslide	SLIDO v1
114	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	SLIDO v1
115	Slope	Slope 0-15	USGS
116	Slope	Slope 15-25	USGS
117	Slope	Slope 25-35	USGS
118	Slope	Slope >35	USGS
119	Water and Wetlands	Floodplain: 500-yr Flood Zone	FEMA
120	Water and Wetlands	Floodplain: Area Not Mapped	FEMA
121	Water and Wetlands	Floodplain: Not in Flood Zone	FEMA
122	Water and Wetlands	Floodplain: Zone A	FEMA
123	Water and Wetlands	Floodplain: Zone ANI	FEMA
124	Water and Wetlands	National Wetland Inventory	NWI
125	Water and Wetlands	Oregon Watershed Restoration Inventory Project Areas	OWRI
126	Water and Wetlands	Snake River	ESRI Streetmap
127	Water and Wetlands	Oregon State Scenic Waterway	ORPD
128	Other Features	Existing Pipeline	Penwell
129	Other Features	Vale District Utility Corridor	BLM Field Office
130	Other Features	West-wide Energy Corridor	Argonne National Laboratory – DOE

**Table A-1.** Constraints and Opportunities (continued)

	<b>Resource Type</b>	<b>Constraint/Opportunity</b>	<b>Source</b>
131	Other Features	National Forest Utility Corridor	USFS
132	Oregon Statewide Zoning	Oregon Statewide Zoning: Agriculture	DLCD
133	Oregon Statewide Zoning	Oregon Statewide Zoning: Forest	DLCD
134	Oregon Statewide Zoning	Oregon Statewide Zoning: Rural Commercial	DLCD
135	Oregon Statewide Zoning	Oregon Statewide Zoning: Rural Industrial	DLCD
136	Oregon Statewide Zoning	Oregon Statewide Zoning: Rural Residential	DLCD
137	Oregon Statewide Zoning	Oregon Statewide Zoning: Agriculture (Range)	DLCD
138	Oregon Statewide Zoning	Oregon Statewide Zoning: Urban	DLCD
139	Morrow County, OR Zoning	Morrow County: Exclusive Farm Use	Morrow County, OR Planning Department
140	Morrow County, OR Zoning	Morrow County: Forest Use	Morrow County, OR Planning Department
141	Morrow County, OR Zoning	Morrow County: General Industrial	Morrow County, OR Planning Department
142	Morrow County, OR Zoning	Morrow County: Public Use	Morrow County, OR Planning Department
143	Morrow County, OR Zoning	Morrow County: Space Age Industrial	Morrow County, OR Planning Department
144	Morrow County, OR Zoning	Morrow County: STR	Morrow County, OR Planning Department
145	Union County, OR Zoning	Union County: Agriculture Grazing A-2	Union County, OR Planning Department
146	Union County, OR Zoning	Union County: Exclusive Farm Use A-1	Union County, OR Planning Department

**Table A-1.** Constraints and Opportunities (continued)

	<b>Resource Type</b>	<b>Constraint/Opportunity</b>	<b>Source</b>
147	Union County, OR Zoning	Union County: Timber Grazing A-4	Union County, OR Planning Department
148	Baker County, OR Zoning	Baker County: Airport Overlay	Baker County, OR Planning Department
149	Baker County, OR Zoning	Baker County: Exclusive Farm Use	Baker County, OR Planning Department
150	Baker County, OR Zoning	Baker County: Industrial	Baker County, OR Planning Department
151	Baker County, OR Zoning	Baker County: Mining Extraction	Baker County, OR Planning Department
152	Baker County, OR Zoning	Baker County: Primary Forest	Baker County, OR Planning Department
153	Baker County, OR Zoning	Baker County: Recreation/Residential RR1	Baker County, OR Planning Department
154	Baker County, OR Zoning	Baker County: Recreation/Residential RR5	Baker County, OR Planning Department
155	Baker County, OR Zoning	Baker County: Timber Grazing	Baker County, OR Planning Department
156	Baker County, OR Zoning	Baker County: Watershed Overlay	Baker County, OR Planning Department
157	Harney County, OR Zoning	Harney County: Farm & Ranch Use - 160 AC	Harney County, OR GIS Department
158	Harney County, OR Zoning	Harney County: Farm & Ranch Use - 80 AC	Harney County, OR GIS Department
159	Harney County, OR Zoning	Harney County: Forest Use	Harney County, OR GIS Department
160	Washington County, ID Zoning	Washington County: Agricultural Area	Washington County, ID Comprehensive Plan
161	Washington County, ID Zoning	Washington County: Residential Area	Washington County, ID Comprehensive Plan



**Table A-1. Constraints and Opportunities (continued)**

	<b>Resource Type</b>	<b>Constraint/Opportunity</b>	<b>Source</b>
162	Payette County, ID Zoning	Payette County: Agriculture 1	Payette County, ID Comprehensive Plan
163	Payette County, ID Zoning	Payette County: Agriculture 2	Payette County, ID Comprehensive Plan
164	Payette County, ID Zoning	Payette County: Commercial	Payette County, ID Comprehensive Plan
165	Payette County, ID Zoning	Payette County: Government	Payette County, ID Comprehensive Plan
166	Payette County, ID Zoning	Payette County: Greenway	Payette County, ID Comprehensive Plan
167	Payette County, ID Zoning	Payette County: Industrial	Payette County, ID Comprehensive Plan
168	Payette County, ID Zoning	Payette County: Mixed Agriculture	Payette County, ID Comprehensive Plan
169	Payette County, ID Zoning	Payette County: Rural Residential	Payette County, ID Comprehensive Plan

## Notes:

BLM – Bureau of Land Management

DoD – Department of Defense

DOE – Department of Energy

DLCD – Department of Land Conservation and Development

FEMA – Federal Emergency Management Agency

IDFG – Idaho Department of Fish and Game

IDPR – Idaho Department of Parks and Recreation

NLCD – National Land Cover Database

NPS – National Park Service

NRCS – Natural Resources Conservation Service

NRHP – National Register of Historic Places

NSBP – National Scenic Byway Program

NWI – National Wetlands Inventory

ODOT – Oregon Department of Transportation

ONDA – Oregon Natural Desert Association

ORPD – Oregon Parks and Recreation Department

OWRI – Oregon Watershed Restoration Inventory

SLIDO – Statewide Landslide Information Database of Oregon

SSURGO – Soil Survey Geographic Database

USDA – U.S. Department of Agriculture

USFWS – U.S. Fish and Wildlife Service

USGS – U.S. Geological Survey

This page intentionally left blank.

## **APPENDIX B**

### **Community Criteria**

### Definitions

**Placement Opportunities** – Project Advisory Teams identified areas for the transmission line that would be preferred by the communities.

**Avoidance Areas** – Project Advisory Teams identified areas that are important to the communities. The communities recommend avoiding these areas when siting the transmission line.

#### North Project Advisory Area

Placement Opportunities	Avoidance Areas
Existing energy corridors	Irrigated farmland
West-wide energy corridor	Bisecting fields
Public land (federal and state)	Aerial spraying activity areas
Transportation & rail corridors	Scenic viewsheds
Across the bombing range	Areas that have potential for residential and/or business development
Co-locate with wind farms	Urban growth boundaries
Private property (owned by people who want the line on their land)	Areas of tourism
	Historic landmarks
	Narrow valleys with agricultural operations
	Private resource land (i.e., timber)
	Sensitive wildlife areas (i.e., sage-grouse leks)
	Water resources and wetlands
	Schools
	City impact areas
	Private residences
	Confined animal feeding operations

#### Central Project Advisory Area

Placement Opportunities	Avoidance Areas
Existing energy corridors	Exclusive Farm Use (EFU) land
West-wide energy corridor	Irrigated farmland
Public land (federal and state)	Bisecting fields
Transportation & rail corridors	Aerial spraying activity areas
	Rangeland
	Scenic viewsheds
	Areas that have potential for residential and/or business development
	Areas of tourism (specifically the Oregon Trail Interpretive Center)
	Historic landmarks (specifically the Oregon Trail)
	Narrow valleys with agricultural operations
	Private resource land (i.e., timber)
	Sensitive wildlife areas (i.e., sage-grouse leks)
	Water resources and wetlands

**Central Project Advisory Area**

Placement Opportunities	Avoidance Areas
	Schools Private residences Medical facilities Airports Developed areas for recreation (Wolf Creek, parks) South La Grande Powder River Valley Designated scenic highway routes High priority noxious weed sites Below Thief Valley Howard Meadows area

**South Project Advisory Area**

Placement Opportunities	Avoidance Areas
Existing energy corridors West-wide energy corridor Public land (federal and state) Transportation & rail corridors	EFU land in Oregon Prime farmland in Idaho Irrigated farmland Bisecting fields Aerial spraying activity areas Private rangeland Scenic viewsheds Areas that have potential for residential and/or business development Urban growth boundaries Areas of tourism Historic landmarks Narrow valleys with agricultural operations Private resource land (i.e., timber) Sensitive wildlife areas (i.e., sage-grouse leks) Water resources and wetlands Schools City impact areas Private residences Confined animal feeding operations

**Grant County Project Advisory Area**

Placement Opportunities	Avoidance Areas
Existing energy corridors I-84 corridor Direct route between Boardman and Hemingway	Undeveloped areas Wilderness areas Rural areas Roadless areas Designated wild and scenic rivers - Riparian areas (strips of land that border creeks, rivers or other bodies of water.) Critical watershed enhancement and restoration areas Scenic areas - The cedar grove - The fossil beds - Viewsheds Recreation areas Wildlife habitats - Big game winter range - Sage-grouse leks - Threatened and endangered species Forest land and old growth Private property EFU land

**Harney County Project Advisory Area**

Placement Opportunities	Avoidance Areas
Existing energy corridors I-84 corridor Areas with potential for wind power Direct route between Boardman and Hemingway	Wildlife habitats - Sage-grouse leks Undeveloped areas Wilderness areas Riparian areas (strips of land that border creeks, rivers or other bodies of water.) EFU land Private land Forests and timberland Roadless areas

## **APPENDIX C**

### **Constraints Crossed – Permitting Difficulty Overview**

**Table C-1. Constraints Crossed – Permitting Difficulty Overview**

	<b>Resource Group</b>	<b>Regulatory Criteria Description</b>	<b>Permitting Difficulty<sup>17</sup></b>	<b>Community Criteria<sup>27</sup></b>
1	Cultural Resources	Burns District Archaeological Site	Avoidance High	
2	Cultural Resources	Vale District Cultural Site	Avoidance High	
3	Cultural Resources	Within 500ft of Cemetery	Avoidance Mod	
4	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod	
5	Cultural Resources	Within .5mi National Register Historic Place Buffer	Avoidance High	
6	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High	
7	Cultural Resources	Oregon Trail Brochure - Trailrut	Avoidance High	
8	Visual Resources	Viewshed Area (Baker County)	Avoidance High	CC
9	Visual Resources	Devine Scenic Corridor (Burns District)	Avoidance Mod	
10	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC
11	Visual Resources	National Forest Visual Quality Objective: Maximum Modification	Opportunity	
12	Visual Resources	National Forest Visual Quality Objective: Modification	Avoidance Mod	
13	Visual Resources	National Forest Visual Quality Objective: Partial Retention	Avoidance High	
14	Visual Resources	National Forest Visual Quality Objective: Retention	Exclusion	CC
15	Visual Resources	National Forest Visual Quality Objective: Preservation	Exclusion	CC
16	Visual Resources	BLM Visual Resource Management Class 2	Avoidance High	CC
17	Visual Resources	BLM Visual Resource Management Class 3	Avoidance Mod	
18	Visual Resources	BLM Visual Resource Management Class 4	Avoidance Low	
19	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low	
20	Fish and Wildlife	IDFG Focal Area	Avoidance Low	
21	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC
22	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC
23	Fish and Wildlife	IDFG Big Game Crucial Winter Range	Avoidance Mod	CC
24	Fish and Wildlife	Pronghorn Antelope Habitat (Boise District, ID)	Avoidance Mod	CC
25	Fish and Wildlife	Prineville District Fish Restoration Area	Avoidance Mod	
26	Fish and Wildlife	Prineville District Wildlife Habitat Seasonal Closure Area	Avoidance Mod	
27	Fish and Wildlife	Washington Ground Squirrel 785ft Buffer	Exclusion	
28	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod	
29	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low	
30	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Low	
31	Fish and Wildlife	Sage-grouse Key Habitat Area (ID BLM)	Avoidance Mod	CC
32	Fish and Wildlife	Sage-grouse Restoration Habitat Type 1: Perennial Grasslands (ID BLM)	Avoidance Low	CC
33	Fish and Wildlife	Sage-grouse Restoration Habitat Type 2: Annual Grass Understories (ID BLM)	Avoidance Low	
34	Fish and Wildlife	Within 2-mile Idaho Sage-grouse Lek Buffer (Unknown)	Exclusion	
35	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Occupied)	Exclusion	CC
36	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Occupied but Permittable)	Avoidance Mod	CC
37	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Unoccupied)	Avoidance Low	
38	Fish and Wildlife	Within 300ft Special Status Stream: Bull Trout	Avoidance Mod	CC
39	Fish and Wildlife	Within 300-ft Special Status Stream: Chinook Salmon	Avoidance Mod	CC
40	Fish and Wildlife	Within 300-ft Special Status Stream: Coho Salmon	Avoidance Mod	CC
41	Fish and Wildlife	Within 300-ft Special Status Stream: Cutthroat Trout	Avoidance Mod	CC



**Table C-1. Constraints Crossed - Permitting Difficulty Overview (continued)**

	<b>Resource Group</b>	<b>Regulatory Criteria Description</b>	<b>Permitting Difficulty<sup>17</sup></b>	<b>Community Criteria<sup>27</sup></b>
42	Fish and Wildlife	Within 300-ft Special Status Stream: Red Band Trout	Avoidance Mod	CC
43	Fish and Wildlife	Within 300-ft Special Status Stream: Steelhead	Avoidance Mod	CC
44	Fish and Wildlife	Wild Horse and Burro Area (OR BLM)	Avoidance Low	
45	Land Use	Burns District ROW Avoidance Corridor	Avoidance High	
46	Land Use	North Powder Valley	Avoidance Low	CC
47	Land Use	Cropland/Irrigated Agriculture	Avoidance High	
48	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High	
49	Land Use	Grazing Allotment - ID	Avoidance Low	
50	Land Use	Grazing/Pasture - OR	Avoidance Low	
51	Land Use	City Impact Area - Idaho	Avoidance High	
52	Land Use	Urban Growth Boundary - Oregon	Avoidance High	CC
53	Land Use	Urban Area	Avoidance High	CC
54	Land Use	Naval Weapons System Training Facility	Avoidance Mod	CC
55	Land Use	Restricted Airspace - Airport	Exclusion	
56	Land Use	Forested Land: Private	Avoidance Mod	
57	Land Use	Forested Land: Public	Avoidance Mod	
58	Land Use	National Forest Old Growth Forest Stand	Exclusion	CC
59	Land Use	National Forest: Special Interest Area	Avoidance Mod	
60	Land Use	Area of Critical Environmental Concern	Avoidance High	
61	Land Use	Prineville District Proposed Area of Critical Environmental Concern	Avoidance High	
62	Land Use	Prineville District Lands Proposed for Acquisition by the BLM	Avoidance Low	
63	Land Use	Prineville District Noxious Weeds	Avoidance Low	
64	Land Use	Noxious Weeds (OR BLM)	Avoidance Low	
65	Land Use	Prineville District Off-Highway Vehicle: Limited Use	Avoidance Low	
66	Land Use	Burns District Off-Highway Vehicle: Seasonal Closure	Avoidance Low	
67	Land Use	Vale District Off-Highway Vehicle: Limited to Designated Routes	Avoidance Low	
68	Land Use	Vale District Off-Highway Vehicle: Limited to Existing Routes	Avoidance Low	
69	Land Use	Oregon State Park	Exclusion	
70	Land Use	Morrow County Park	Exclusion	
71	Land Use	Virtue Flat OHV Park	Avoidance Mod	
72	Land Use	Recreation Area (OR BLM)	Avoidance High	
73	Land Use	Special Recreation Management Area (Malheur RA, Vale District, OR)	Avoidance Mod	CC
74	Land Use	Prineville District Special Recreation Management Area	Avoidance Mod	
75	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod	
76	Land Use	The Nature Conservancy: Preserve	Exclusion	
77	Land Use	Proposed Wind Farm Boundary (Burns District, OR)	Avoidance High	
78	Land Use	Wind Farm Boundary	Avoidance High	
79	Land Use	Wind Turbine 1,200-ft Buffer Zone	Avoidance High	
80	Land Use	ODFW Wildlife Management Area	Exclusion	
81	Land Use	BLM Wild and Scenic River: Recreation	Avoidance High	
82	Land Use	BLM Wild and Scenic River: Suitable Lands (Prineville District, OR)	Avoidance Mod	
83	Land Use	Proposed Wilderness Study Area (ONDA)	Avoidance Low	
84	Land Use	Lands with Wilderness Characteristics (OR BLM)	Avoidance Mod	

**Table C-1. Constraints Crossed - Permitting Difficulty Overview (continued)**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>
85	Land Use	Confederated Tribes of the Umatilla Indian Reservation	Exclusion	
86	Ownership	Bureau of Land Management	Avoidance Low	CC
87	Ownership	Bureau of Reclamation	Avoidance Low	CC
88	Ownership	Military Land	Avoidance Low	CC
89	Ownership	Other Federal Land	Avoidance Low	CC
90	Ownership	Private	Avoidance Low	CC
91	Ownership	State Land	Avoidance Low	CC
92	Ownership	U.S. Forest Service	Avoidance Low	CC
93	Ownership	Water	Avoidance High	
94	Geological Resources	Erosion Hazard: High (Prineville District, OR)	Avoidance Mod	
95	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co., OR data n/a)	Avoidance Mod	
96	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co., OR data n/a)	Avoidance Mod	
97	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co., OR data n/a)	Avoidance Low	
98	Geological Resources	Idaho Landslide Susceptibility: Moderate	Avoidance Mod	
99	Geological Resources	Idaho Landslide Susceptibility: Low	Avoidance Low	
100	Geological Resources	Within 500ft of Fault Line	Avoidance Low	
101	Geological Resources	U.S. Geological Survey Active Mining Area	Avoidance High	
102	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC
103	Geological Resources	Oregon Landslide Feature: Fan	Avoidance Mod	
104	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod	
105	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod	
106	Slope	Slope 0-15	Opportunity	
107	Slope	Slope 15-25	Avoidance Low	
108	Slope	Slope 25-35	Avoidance Mod	
109	Slope	Slope >35	Avoidance High	
110	Water and Wetlands	Floodplain: 500-yr Flood Zone	Avoidance Low	
111	Water and Wetlands	Floodplain: Area Not Mapped	Avoidance Low	
112	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low	
113	Water and Wetlands	Floodplain: Zone A	Avoidance Mod	
114	Water and Wetlands	Floodplain: Zone ANI	Avoidance Mod	
115	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC
116	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft Buffer of linear feature)	Avoidance Mod	
117	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft of site location)	Avoidance High	
118	Water and Wetlands	Oregon Watershed Restoration Inventory Project Area	Avoidance Low	
119	Water and Wetlands	Snake River	Avoidance High	
120	Water and Wetlands	Oregon State Scenic Waterway	Exclusion	
121	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC
122	Other Features	Vale District Utility Corridor	Opportunity	
123	Other Features	West-wide Energy Corridor	Opportunity	CC
124	Other Features	National Forest Utility Corridor	Opportunity	CC

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**APPENDIX D**  
**Constraints Crossed – Data Tables**

**Table D-1. Boardman Data Table**

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	NORTH ROUTE (MO1-MO2-MO4-MO5-MO7-UM1)	CENTRAL ROUTE (MO1-MO10-MO9-MO8-MO11-MO12-MO13-MO14-MO15-MO16-MO17-MO18-MO21-MO23-UM1)	SOUTH ROUTE (MO1-MO10-MO9-MO8-MO11-MO12-MO13-MO14-MO15-MO16-MO26-MO22-MO23-UM1)
					LENGTH IN MILES	
<b>TOTAL LENGTH</b>				<b>57.3</b>	<b>52.7</b>	<b>54.6</b>
1	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod		0.5	0.7
2	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High		-	0.3
3	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	-	1.0
4	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		13.1	20.7
5	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod		0.5	0.2
6	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		31.8	18.6
7	Land Use	Cropland/Irrigated Agriculture	Avoidance High		14.6	8.3
8	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		57.3	52.7
9	Land Use	Naval Weapons System Training Facility	Avoidance Mod	CC	9.1	-
10	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		37.6	34.6
11	Land Use	Wind Farm Boundary	Avoidance High		-	1.3
12	Land Use	Wind Turbine 1200ft Buffer Zone	Avoidance High		-	0.3
13	Ownership	Military Land	Avoidance Low	CC	8.1	-
14	Ownership	Private	Avoidance Low	CC	49.2	52.7
15	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		18.3	38.2
16	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		16.9	11.1
17	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		22.1	3.2
18	Geological Resources	Within 500ft of Fault Line	Avoidance Low		0.2	-

**Table D-1. Boardman Data Table (continued)**

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	NORTH ROUTE (MO1-MO2-MO4-MO5-MO7-UM1)	CENTRAL ROUTE (MO1-MO10-MO9-MO8-MO11-MO12-MO13-MO14-MO15-MO16-MO17-MO18-MO21-MO23-UM1)	SOUTH ROUTE (MO1-MO10-MO9-MO8-MO11-MO12-MO13-MO14-MO15-MO16-MO26-MO22-MO23-UM1)	
				LENGTH IN MILES			
<b>TOTAL LENGTH</b>				<b>57.3</b>	<b>52.7</b>	<b>54.6</b>	
19	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	53.9	49.4	51.3
20	Geological Resources	Oregon Landslide Feature: Fan	Avoidance Mod		-	4.6	2.8
21	Slope	Slope 0-15%	Opportunity		55.1	47.6	49.5
22	Slope	Slope 15-25%	Avoidance Low		2.0	4.4	4.4
23	Slope	Slope 25-35%	Avoidance Mod		0.2	0.6	0.6
24	Slope	Slope >35%	Avoidance High		0.1	0.1	0.1
25	Water and Wetlands	Floodplain: Area Not Mapped	Avoidance Low		21.1	8.6	5.5
26	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low		28.1	43.1	48.1
27	Water and Wetlands	Floodplain: Zone A	Avoidance Mod		0.1	1.1	1.0
28	Water and Wetlands	Floodplain: Zone ANI	Avoidance Mod		8.1	-	-
29	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	-	0.2	0.2
30	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	0.1	0.1	0.1
31	Other Features	Parallel to Existing Transmission Line	Opportunity		6.3	-	2.9

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-2. Morgan-lone Data Table**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (MO14-MO25)	EAST ROUTE (MO14-MO15-MO25)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>21.9</b>	<b>25.2</b>
1	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod		0.5	0.7
2	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High		0.5	0.3
3	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	0.5	0.5
4	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		2.2	6.2
5	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	5.8	8.2
6	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		5.5	5.2
7	Land Use	Cropland/Irrigated Agriculture	Avoidance High		0.2	0.2
8	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		21.9	25.2
9	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		9.2	13.9
10	Ownership	Private	Avoidance Low	CC	21.9	25.2
11	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		19.2	22.7
12	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		0.5	0.3
13	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		2.3	2.2
14	Geological Resources	Within 500ft of Fault Line	Avoidance Low		0.2	0.2
15	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	19.5	23.0
16	Slope	Slope 0-15%	Opportunity		17.3	21.1
17	Slope	Slope 15-25%	Avoidance Low		3.1	2.5
18	Slope	Slope 25-35%	Avoidance Mod		1.2	1.3
19	Slope	Slope >35%	Avoidance High		0.3	0.3
20	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low		21.6	25.0
21	Water and Wetlands	Floodplain: Zone A	Avoidance Mod		0.3	0.2
22	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.1	-
23	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft of site location)	Avoidance High		-	0.2
24	Water and Wetlands	Oregon Watershed Restoration Inventory Project Area	Avoidance Low		0.1	1.6
25	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	0.1	0.1

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1 Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-3. Umatilla National Forest Data Table**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>27</sup>	WEST ROUTE (MO24-UM6)	EAST ROUTE (MO24-UM5-UM7-UM6)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>41.3</b>	<b>50.7</b>
1	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	0.5	0.5
2	Visual Resources	National Forest Visual Quality Objective: Maximum Modification	Opportunity		10.5	0.3
3	Visual Resources	National Forest Visual Quality Objective: Modification	Avoidance Mod		1.1	-
4	Visual Resources	National Forest Visual Quality Objective: Partial Retention	Avoidance High		0.2	0.3
5	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		-	26.7
6	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	28.6	42.9
7	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	13.6	15.4
8	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		24.2	42.2
9	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Low		16.2	5.0
10	Fish and Wildlife	Within 300ft Special Status Stream: Red Band Trout	Avoidance Mod	CC	0.7	0.2
11	Fish and Wildlife	Within 300ft Special Status Stream: Steelhead	Avoidance Mod	CC	0.2	0.5
12	Land Use	Cropland/Irrigated Agriculture	Avoidance High		1.0	0.3
13	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		20.9	35.1
14	Land Use	Grazing/Pasture - OR	Avoidance Low		2.7	8.7
15	Land Use	Forested Land: Private	Avoidance Mod		5.0	4.9
16	Land Use	Forested Land: Public	Avoidance Mod		9.9	0.2
17	Land Use	National Forest Old Growth Forest Stand <sup>37</sup>	Exclusion	CC	0.6	-
18	Land Use	Prineville District Lands Proposed for Acquisition by the BLM	Avoidance Low		1.2	-
19	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		0.6	0.8
20	Ownership	Private	Avoidance Low	CC	29.8	50.1
21	Ownership	U.S. Forest Service	Avoidance Low	CC	11.5	0.6
22	Geological Resources	Erosion Hazard: High (Prineville District, OR)	Avoidance Mod		-	1.0
23	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		2.1	14.2
24	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		12.4	13.8

**Table D-3.** Umatilla National Forest Data Table (continued)

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (MO24-UM6)	EAST ROUTE (MO24-UM5-UM7-UM6)	
				Length in Miles		
<b>TOTAL LENGTH</b>				<b>41.3</b>	<b>50.7</b>	
25	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low	10.6	13.1	
26	Geological Resources	Within 500ft of Fault Line	Avoidance Low	0.1	0.6	
27	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	24.3	31.0
28	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod	0.3	-	
29	Slope	Slope 0-15%	Opportunity	26.7	29.7	
30	Slope	Slope 15-25%	Avoidance Low	9.4	11.2	
31	Slope	Slope 25-35%	Avoidance Mod	4.1	7.1	
32	Slope	Slope >35%	Avoidance High	1.1	2.8	
33	Water and Wetlands	Floodplain: Area Not Mapped	Avoidance Low	16.9	32.6	
34	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low	24.1	17.9	
35	Water and Wetlands	Floodplain: Zone A	Avoidance Mod	0.3	0.3	
36	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.4	0.1
37	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft Buffer of linear feature)	Avoidance Mod	1.3	0.6	
38	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft of site location)	Avoidance High	0.1	-	

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1 Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

3/ Old-growth Forest Areas will be avoided during micro-siting.



**Table D-4. Pilot Rock Data Table**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	SOUTH ROUTE (UM1-UM2-UM3)	NORTH ROUTE (UM1-UM3)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>29.3</b>	<b>25.6</b>
1	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		10.3	11.1
2	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	12.9	5.5
3	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	6.4	5.5
4	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		25.2	17.5
5	Fish and Wildlife	Within 300ft Special Status Stream: Coho Salmon	Avoidance Mod	CC	-	0.1 (1 crossing)
6	Fish and Wildlife	Within 300ft Special Status Stream: Steelhead	Avoidance Mod	CC	0.3 (2 crossings)	0.1 (1 crossing)
7	Land Use	Cropland/Irrigated Agriculture	Avoidance High		0.1	-
8	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		29.3	25.8
9	Land Use	Forested Land: Private	Avoidance Mod		0.1	-
10	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		10.1	7.5
11	Ownership	Private	Avoidance Low	CC	29.3	25.8
12	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		9.3	13.7
13	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		15.9	10.5
14	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		4.1	1.5
15	Geological Resources	Within 500ft of Fault Line	Avoidance Low		0.6	0.2
16	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	23.8	22.5
17	Slope	Slope 0-15%	Opportunity		19.2	18.5
18	Slope	Slope 15-25%	Avoidance Low		4.4	3.2
19	Slope	Slope 25-35%	Avoidance Mod		3.7	1.9
20	Slope	Slope >35%	Avoidance High		2.1	2.1
21	Water and Wetlands	Floodplain: Area Not Mapped	Avoidance Low		29.3	20.1
22	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low		-	5.6
23	Water and Wetlands	Floodplain: Zone A	Avoidance Mod		-	0.1
24	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	-	-

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-5. West of National Forest Utility Corridor Data Table**

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	NORTH ROUTE (MO16-MO17- MO18-MO21- MO23-UM1-UM3- UM4)	SOUTH ROUTE (MO16-MO26-MO24- UM5-UM9-UM4)
				Length in Miles	
<b>TOTAL LENGTH</b>				<b>74.3</b>	<b>81.0</b>
1	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low	20.7	21.3
2	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	48.7
3	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	13.5
4	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low	33.4	51.2
5	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Low	4.5	4.3
6	Fish and Wildlife	Within 300ft Special Status Stream: Coho Salmon	Avoidance Mod	CC	-
7	Fish and Wildlife	Within 300ft Special Status Stream: Steelhead	Avoidance Mod	CC	0.3
8	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High	66.8	67.2
9	Land Use	Forested Land: Private	Avoidance Mod	6.3	6.0
10	Land Use	Forested Land: Public	Avoidance Mod	-	0.1
11	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod	30.1	17.2
12	Ownership	Bureau of Land Management	Avoidance Low	CC	0.1
13	Ownership	Private	Avoidance Low	CC	80.8
14	Ownership	U.S. Forest Service	Avoidance Low	CC	0.1
15	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	42.8	32.2
16	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	16.3	14.8
17	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low	7.6	22.0
18	Geological Resources	Within 500ft of Fault Line	Avoidance Low	1.0	1.1
19	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	56.1
20	Geological Resources	Oregon Landslide Feature: Fan	Avoidance Mod	4.6	-
21	Slope	Slope 0-15%	Opportunity	57.4	48.0
22	Slope	Slope 15-25%	Avoidance Low	8.6	15.2
23	Slope	Slope 25-35%	Avoidance Mod	4.0	11.5

**Table D-5. West of National Forest Utility Corridor (continued)**

Resource Group	Regulatory Criteria Description		Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	NORTH ROUTE (MO16-MO17- MO18-MO21- MO23-UM1-UM3- UM4)	SOUTH ROUTE (MO16-MO26-MO24- UM5-UM9-UM4)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>74.3</b>	<b>81.0</b>
24	Slope	Slope >35%	Avoidance High		4.4	6.2
25	Water and Wetlands	Floodplain: Area Not Mapped	Avoidance Low		41.5	38.8
26	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low		32.2	41.5
27	Water and Wetlands	Floodplain: Zone A	Avoidance Mod		0.7	0.6
28	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.1	-
29	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft Buffer of linear feature)	Avoidance Mod		-	0.3
30	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	0.1	0.1
31	Other Features	Parallel to Existing Transmission Line	Opportunity		-	4.2

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-6. Blue Mountain Data Table**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	NORTH ROUTE (GR1-GR2-BA1)	SOUTH ROUTE (GR1-BA1)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>30.2</b>	<b>30.1</b>
1	Visual Resources	National Forest Visual Quality Objective: Maximum Modification	Opportunity		10.3	6.2
2	Visual Resources	National Forest Visual Quality Objective: Modification	Avoidance Mod		17.3	2.1
3	Visual Resources	National Forest Visual Quality Objective: Partial Retention	Avoidance High		3.5	-
4	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		12.9	14.0
5	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	-	4.5
6	Fish and Wildlife	Prineville District Fish Restoration Area	Avoidance Mod		4.3	4.7
7	Fish and Wildlife	Prineville District Wildlife Habitat Seasonal Closure Area	Avoidance Mod		-	2.7
8	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Low		29.9	30.1
9	Fish and Wildlife	Within 300ft Special Status Stream: Bull Trout	Avoidance Mod	CC	0.3 (2 crossings)	0.5 (3 crossings)
10	Fish and Wildlife	Within 300ft Special Status Stream: Chinook Salmon	Avoidance Mod	CC	0.2 (1 crossing)	0.4 (3 crossings)
11	Fish and Wildlife	Within 300ft Special Status Stream: Cutthroat Trout	Avoidance Mod	CC	0.5 (3 crossings)	-
12	Fish and Wildlife	Within 300ft Special Status Stream: Red Band Trout	Avoidance Mod	CC	1.4 (11 crossings)	2.1 (15 crossings)
13	Fish and Wildlife	Within 300ft Special Status Stream: Steelhead	Avoidance Mod	CC	1.5 (11 crossings)	2.0 (15 crossings)
14	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		0.4	5.7
15	Land Use	Forested Land: Private	Avoidance Mod		0.6	-
16	Land Use	Forested Land: Public	Avoidance Mod		26.7	21.1
17	Land Use	National Forest Old Growth Forest Stand <sup>3/</sup>	Exclusion	CC	2.0	0.7
18	Land Use	National Forest: Special Interest Area	Avoidance Mod		17.0	-
19	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		5.8	15.2
20	Ownership	Private	Avoidance Low	CC	0.6	-
21	Ownership	U.S. Forest Service	Avoidance Low	CC	29.6	30.1
22	Geological Resources	Erosion Hazard: High (Prineville District, OR)	Avoidance Mod		8.6	6.4

**Table D-6.** Blue Mountain Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	NORTH ROUTE (GR1-GR2-BA1)	SOUTH ROUTE (GR1-BA1)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>30.2</b>	<b>30.1</b>
23	Geological Resources	Within 500ft of Fault Line	Avoidance Low		0.5	-
24	Geological Resources	U.S. Geological Survey Active Mining Area	Avoidance High		0.1	-
25	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod		4.9	5.9
26	Slope	Slope 0-15%	Opportunity		9.8	12.5
27	Slope	Slope 15-25%	Avoidance Low		11.7	9.7
28	Slope	Slope 25-35%	Avoidance Mod		6.4	4.8
29	Slope	Slope >35%	Avoidance High		2.3	3.1
30	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	-	-
31	Water and Wetlands	Oregon Watershed Restoration Inventory Project Area	Avoidance Low		-	13.3

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

3/ Old-growth Forest Areas will be avoided during micro-siting.

**Table D-7. Onion Creek Data Table**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	EAST ROUTE (UM8-BA21-BA19)	WEST ROUTE (UM8-GR6-BA19)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>66.6</b>	<b>66.6</b>
1	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	1.2	6.0
2	Visual Resources	National Forest Visual Quality Objective: Maximum Modification	Opportunity		2.4	1.7
3	Visual Resources	National Forest Visual Quality Objective: Modification	Avoidance Mod		18.5	43.5
4	Visual Resources	National Forest Visual Quality Objective: Partial Retention	Avoidance High		12.7	11.2
5	Visual Resources	National Forest Visual Quality Objective: Retention	Exclusion	CC	-	2.5
6	Visual Resources	National Forest Visual Quality Objective: Preservation	Exclusion	CC	-	0.1
7	Visual Resources	BLM Visual Resource Management Class 2 (Baker RMP)	Avoidance High		1.0	-
8	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		17.1	8.7
9	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	36.2	8.5
10	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	42.1	12.7
11	Fish and Wildlife	Prineville District Fish Restoration Area	Avoidance Mod		-	3.3
12	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod		1.6	-
13	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		9.5	3.6
14	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Low		53.7	56.3
15	Fish and Wildlife	Within 300ft Special Status Stream: Bull Trout	Avoidance Mod	CC	1.2 (4 crossings)	2.4 (5 crossings)
16	Fish and Wildlife	Within 300ft Special Status Stream: Chinook Salmon	Avoidance Mod	CC	0.3 (2 crossings)	0.2 (2 crossings)
17	Fish and Wildlife	Within 300ft Special Status Stream: Red Band Trout	Avoidance Mod	CC	-	1.1 (8 crossings)
18	Fish and Wildlife	Within 300ft Special Status Stream: Steelhead	Avoidance Mod	CC	0.7 (5 crossings)	2.6 (15 crossings)
19	Land Use	Cropland/Irrigated Agriculture	Avoidance High		0.5	1.1
20	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		8.3	-
21	Land Use	Grazing/Pasture - OR	Avoidance Low		11.6	2.6
22	Land Use	Forested Land: Private	Avoidance Mod		17.6	4.9

**Table D-7.** Onion Creek Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	EAST ROUTE (UM8-BA21-BA19)	WEST ROUTE (UM8-GR6-BA19)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>66.6</b>	<b>66.6</b>
23	Land Use	Forested Land: Public	Avoidance Mod		33.5	49.1
24	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		27.1	19.2
25	Land Use	BLM Wild and Scenic River: Recreation	Avoidance High		0.7	1.2
26	Ownership	Bureau of Land Management	Avoidance Low	CC	3.3	0.4
27	Ownership	Private	Avoidance Low	CC	27.8	7.0
28	Ownership	U.S. Forest Service	Avoidance Low	CC	35.5	59.1
29	Geological Resources	Erosion Hazard: High (Prineville District, OR)	Avoidance Mod		-	6.5
30	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		3.3	0.2
31	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		6.8	1.6
32	Geological Resources	Within 500ft of Fault Line	Avoidance Low		0.9	2.4
33	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	23.5	10.6
34	Geological Resources	Oregon Landslide Feature: Fan	Avoidance Mod		0.5	0.7
35	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod		4.4	4.0
36	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod		5.3	6.1
37	Slope	Slope 0-15%	Opportunity		19.9	23.2
38	Slope	Slope 15-25%	Avoidance Low		16.5	16.5
39	Slope	Slope 25-35%	Avoidance Mod		12.9	12.0
40	Slope	Slope >35%	Avoidance High		17.4	14.8
41	Water and Wetlands	Floodplain: Area Not Mapped	Avoidance Low		1.8	2.4
42	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low		21.8	11.8
43	Water and Wetlands	Floodplain: Zone A	Avoidance Mod		0.2	-
44	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.5	0.3

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-8.** Interpretive Center Data Table

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>27</sup>	WEST ROUTE (BA4-BA8-BA9-BA10 + 230-kV ReRoute)	CENTRAL ROUTE (BA4-BA18-BA9-BA10)	EAST ROUTE (BA4-BA18-BA10)
				Length in Miles		
<b>TOTAL LENGTH</b>				<b>500kV - 20.6 230kV - 10.2</b>	<b>19.8</b>	<b>17.9</b>
1	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod	1.6	1.1	-
2	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High	1.1	0.5	-
3	Cultural Resources	Oregon Trail Brochure - Trailrut	Avoidance High	0.5	0.5	-
4	Visual Resources	Viewshed Area (Baker County)	Avoidance High	CC	8.2	4.9
5	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	2.0	1.0
6	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low	5.1	0.5	0.5
7	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	10.5	7.0
8	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod	15.3	9.4	5.9
9	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low	15.6	10.4	12.1
10	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Occupied)	Exclusion	CC	-	-
11	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Occupied but Permittable)	Avoidance Mod	CC	3.5	3.5
12	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Unoccupied)	Avoidance Low	1.4	1.4	-
13	Land Use	Cropland/Irrigated Agriculture	Avoidance High	1.8	0.1	0.1
14	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High	30.8	19.8	17.9
15	Land Use	Grazing/Pasture - OR	Avoidance Low	21.1	14.8	16.3
16	Land Use	Virtue Flat OHV Park	Avoidance Mod	0.1	0.1	2.7
17	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod	1.9	1.9	3.6
18	Ownership	Bureau of Land Management	Avoidance Low	CC	3.8	4.2
19	Ownership	Private	Avoidance Low	CC	27.0	15.6
20	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	0.5	0.5	0.5
21	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	24.2	15.9	15.7



**Table D-8.** Interpretive Center Data Table (continued)

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (BA4-BA8-BA9-BA10 + 230kV ReRoute)	CENTRAL ROUTE (BA4-BA18-BA9-BA10)	EAST ROUTE (BA4-BA18-BA10)
				Length in Miles		
<b>TOTAL LENGTH</b>				<b>500kV - 20.6 230kV - 10.2</b>	<b>19.8</b>	<b>17.9</b>
22	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low	6.0	3.4	1.7
23	Geological Resources	Within 500ft of Fault Line	Avoidance Low	1.9	1.7	0.9
24	Geological Resources	U.S. Geological Survey Active Mining Area	Avoidance High	0.2	0.1	-
25	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	23.3	15.8	16.2
26	Slope	Slope 0-15%	Opportunity	21.4	14.2	13.7
27	Slope	Slope 15-25%	Avoidance Low	7.0	3.8	3.1
28	Slope	Slope 25-35%	Avoidance Mod	1.9	1.5	0.9
28	Slope	Slope >35%	Avoidance High	0.6	0.3	0.2
30	Water and Wetlands	National Wetland Inventory	Avoidance Mod	0.2	0.1	-
31	Other Features	Parallel to Existing Transmission Line	Opportunity	17.5	9.2	2.9

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-9. Southwest Region Data Table**

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	A (GR3-GR4- HA1-HA2- MA6)	B (GR3-GR4- GR5-HA1-HA2- MA6)	C (GR3-GR4- GR5-HA2- MA6)	D (GR3-MA4- MA5-MA6)
				Length in Miles			
<b>TOTAL LENGTH</b>				<b>186.6</b>	<b>174.6</b>	<b>156.2</b>	<b>132.9</b>
1	Cultural Resources	Burns District Archaeological Site	Avoidance High	-	0.1	-	0.1
2	Cultural Resources	Vale District Cultural Site	Exclusion	0.4	0.4	0.4	-
3	Visual Resources	Devine Scenic Corridor (Burns District)	Avoidance Mod	-	-	0.4	-
4	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	1.5	0.5	0.5
5	Visual Resources	National Forest Visual Quality Objective: Partial Retention	Avoidance High	0.5	0.1	7.1	5.3
6	Visual Resources	National Forest Visual Quality Objective: Retention	Exclusion	CC	-	-	0.2
7	Visual Resources	BLM Visual Resource Management Class 3 - John Day Basin	Avoidance Mod	-	-	-	0.5
8	Visual Resources	BLM Visual Resource Management Class 4 - John Day Basin	Avoidance Low	0.5	0.6	0.6	-
9	Visual Resources	BLM Visual Resource Management Class 2 - OR	Avoidance High	CC	0.4	0.4	-
10	Visual Resources	BLM Visual Resource Management Class 3 - OR	Avoidance Mod	3.3	3.3	3.3	4.9
11	Visual Resources	BLM Visual Resource Management Class 4 - OR	Avoidance Low	34.4	34.4	34.4	40.0
12	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low	31.8	6.7	6.4	7.3
13	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	65.7	52.2	38.8
14	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	78.5	59.1	73.2
15	Fish and Wildlife	Prineville District Fish Restoration Area	Avoidance Mod	1.8	3.7	4.2	1.3

**Table D-9.** Southwest Region Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	A (GR3-GR4- HA1-HA2- MA6)	B (GR3-GR4- GR5-HA1-HA2- MA6)	C (GR3-GR4- GR5-HA2- MA6)	D (GR3-MA4- MA5-MA6)
					Length in Miles			
<b>TOTAL LENGTH</b>					<b>186.6</b>	<b>174.6</b>	<b>156.2</b>	<b>132.9</b>
16	Fish and Wildlife	Prineville District Wildlife Habitat Seasonal Closure Area	Avoidance Mod		36.4	16.9	13.6	27.9
17	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod		59.9	59.4	45.4	25.0
18	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		59.9	54.2	43.8	55.5
19	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Mod		51.5	49.4	60.9	46.3
20	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Occupied but Permittable)	Avoidance Mod	CC	7.3	7.3	3.6	-
21	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Unoccupied)	Avoidance Low		6.1	6.1	6.1	-
22	Fish and Wildlife	Within 300ft Special Status Stream: Bull Trout	Avoidance Mod	CC	0.1 (1 crossing)	0.1 (1 crossing)	0.1 (1 crossing)	0.3 (2 crossings)
23	Fish and Wildlife	Within 300ft Special Status Stream: Chinook Salmon	Avoidance Mod	CC	0.1 (1 crossing)	0.1 (1 crossing)	0.1 (1 crossing)	0.1 (1 crossing)
24	Fish and Wildlife	Within 300ft Special Status Stream: Cutthroat Trout	Avoidance Mod	CC	-	0.3 (2 crossings)	0.3 (2 crossings)	0.5 (4 crossings)
25	Fish and Wildlife	Within 300ft Special Status Stream: Red Band Trout	Avoidance Mod	CC	3.8 (19 crossings)	3.2 (22 crossings)	3.4 (23 crossings)	1.0 (8 crossings)
26	Fish and Wildlife	Within 300ft Special Status Stream: Steelhead	Avoidance Mod	CC	1.0 (7 crossings)	1.1 (7 crossings)	1.1 (7 crossings)	1.1 (9 crossings)
27	Fish and Wildlife	Wild Horse and Burro Area (OR BLM)	Avoidance Low		34.6	16.7	16.7	5.3
28	Land Use	Burns District ROW Avoidance Corridor	Avoidance High		1.7	1.7	1.7	-
29	Land Use	Cropland/Irrigated Agriculture	Avoidance High		2.2	1.6	1.1	1.1

**Table D-9.** Southwest Region Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	A (GR3-GR4- HA1-HA2- MA6)	B (GR3-GR4- GR5-HA1-HA2- MA6)	C (GR3-GR4- GR5-HA2- MA6)	D (GR3-MA4- MA5-MA6)
					Length in Miles			
<b>TOTAL LENGTH</b>					<b>186.6</b>	<b>174.6</b>	<b>156.2</b>	<b>132.9</b>
30	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		26.3	10.4	10.8	22.3
31	Land Use	Grazing/Pasture - OR	Avoidance Low		122.5	123.5	90.3	63.9
32	Land Use	Forested Land: Private	Avoidance Mod		5.4	4.5	6.1	7.4
33	Land Use	Forested Land: Public	Avoidance Mod		38.1	37.1	48.3	33.4
34	Land Use	National Forest Old Growth Forest Stand***	Exclusion	CC	0.8	3.5	3.2	2.7
35	Land Use	Area of Critical Environmental Concern	Avoidance High		0.4	0.4	0.4	-
36	Land Use	Prineville District Lands Proposed for Acquisition by the BLM	Avoidance Low		4.5	-	-	-
37	Land Use	Prineville District Noxious Weeds	Avoidance Low		1.4	0.9	0.9	1.4
38	Land Use	Noxious Weeds (OR BLM)	Avoidance Low		1.3	1.3	0.7	-
39	Land Use	Burns District Off-Highway Vehicle: Seasonal Closure	Avoidance Low		7.8	11.4	-	-
40	Land Use	Vale District Off-Highway Vehicle: Limited to Designated Routes	Avoidance Low		0.4	0.4	0.4	-
41	Land Use	Vale District Off-Highway Vehicle: Limited to Existing Routes	Avoidance Low		-	-	-	3.0
42	Land Use	Recreation Area (OR BLM)	Avoidance High		2.9	3.1	-	-
43	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		25.5	24.9	31.7	21.5
44	Land Use	Proposed Wind Farm Boundary (Burns District, OR)	Avoidance High		2.6	2.6	2.6	-
45	Land Use	BLM Wild and Scenic River: Recreation	Avoidance High		0.4	-	-	-

**Table D-9.** Southwest Region Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	A (GR3-GR4- HA1-HA2- MA6)	B (GR3-GR4- GR5-HA1-HA2- MA6)	C (GR3-GR4- GR5-HA2- MA6)	D (GR3-MA4- MA5-MA6)
					Length in Miles			
<b>TOTAL LENGTH</b>					<b>186.6</b>	<b>174.6</b>	<b>156.2</b>	<b>132.9</b>
46	Land Use	Proposed Wilderness Study Area (ONDA)	Avoidance Mod		33.2	29.0	28.6	40.0
47	Land Use	Lands with Wilderness Characteristics (OR BLM)	Avoidance Mod		-	-	-	1.3
48	Ownership	Bureau of Land Management	Avoidance Low	CC	82.9	88.3	62.0	50.8
49	Ownership	Bureau of Reclamation	Avoidance Low	CC	-	-	-	0.3
50	Ownership	Private	Avoidance Low	CC	56.6	41.5	38.2	41.4
51	Ownership	State Land	Avoidance Low	CC	3.7	4.1	4.2	2.0
52	Ownership	U.S. Forest Service	Avoidance Low	CC	43.5	40.7	52.0	38.4
53	Geological Resources	Erosion Hazard: High (Prineville District, OR)	Avoidance Mod		16.2	18.7	17.2	15.6
54	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		3.0	3.0	3.0	-
55	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		11.8	12.1	10.3	0.1
56	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		48.5	52.0	22.2	11.3
57	Geological Resources	Within 500ft of Fault Line	Avoidance Low		12.3	9.9	8.6	10.2
58	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	57.1	59.7	33.6	5.9
59	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod		12.3	11.7	10.3	6.2
60	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod		5.6	2.2	4.9	4.5
61	Slope	Slope 0-15%	Opportunity		115.7	105.0	92.5	62.2
62	Slope	Slope 15-25%	Avoidance Low		36.7	34.0	32.7	35.6
63	Slope	Slope 25-35%	Avoidance Mod		18.8	20.2	17.7	21.5
64	Slope	Slope >35%	Avoidance High		15.3	15.4	13.4	13.6

**Table D-9.** Southwest Region Data Table (continued)

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	A (GR3-GR4- HA1-HA2- MA6)	B (GR3-GR4- GR5-HA1-HA2- MA6)	C (GR3-GR4- GR5-HA2- MA6)	D (GR3-MA4- MA5-MA6)	
				Length in Miles				
<b>TOTAL LENGTH</b>				<b>186.6</b>	<b>174.6</b>	<b>156.2</b>	<b>132.9</b>	
65	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.4	0.4	-	-
66	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft Buffer of linear feature)	Avoidance Mod		0.2	-	-	-
67	Water and Wetlands	Oregon Watershed Restoration Inventory Project Area	Avoidance Low		0.5	0.5	0.7	0.2
68	Other Features	Vale District Utility Corridor	Opportunity		14.8	14.8	14.8	1.3
69	Other Features	West-wide Energy Corridor	Opportunity	CC	22.1	22.1	11.8	0.8
70	Other Features	Parallel to Existing Transmission Line	Opportunity		35.7	35.7	19.2	6.3

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

3/ Old-growth Forest Areas will be avoided during micro-siting.

**Table D-10. Burnt River Data Table**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>27</sup>	WEST ROUTE (BA10-BA20-MA1-MA2)	EAST ROUTE (BA10-BA11-BA13-MA2)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>36.1</b>	<b>41.9</b>
1	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod		1.0	2.6
2	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High		1.0	-
3	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	0.5	0.6
4	Visual Resources	BLM Visual Resource Management Class 4	Avoidance Low		1.1	1.7
5	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		0.7	1.3
6	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	15.3	33.4
7	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	31.0	19.4
8	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod		10.5	11.8
9	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		18.0	23.4
10	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Low		2.3	-
11	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Unoccupied)	Avoidance Low		-	4.0
12	Land Use	Cropland/Irrigated Agriculture	Avoidance High		0.4	0.3
13	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		16.4	35.7
14	Land Use	Grazing/Pasture - OR	Avoidance Low		31.4	35.3
15	Land Use	Forested Land: Private	Avoidance Mod		2.1	-
16	Land Use	Forested Land: Public	Avoidance Mod		1.4	-
17	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		0.6	-
18	Ownership	Bureau of Land Management	Avoidance Low	CC	10.2	13.5
19	Ownership	Private	Avoidance Low	CC	25.9	28.4
20	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		-	5.1
21	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		1.2	17.3
22	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		14.8	13.3
23	Geological Resources	Within 500ft of Fault Line	Avoidance Low		2.3	0.4
24	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	13.0	23.3

**Table D-10. Burnt River Data Table (continued)**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (BA10-BA20-MA1-MA2)	EAST ROUTE (BA10-BA11-BA13-MA2)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>36.1</b>	<b>41.9</b>
25	Geological Resources	Oregon Landslide Feature: Fan	Avoidance Mod		0.2	-
26	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod		-	1.2
27	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod		2.0	1.4
28	Slope	Slope 0-15%	Opportunity		15.9	20.4
29	Slope	Slope 15-25%	Avoidance Low		7.7	11.0
30	Slope	Slope 25-35%	Avoidance Mod		6.3	5.3
31	Slope	Slope >35%	Avoidance High		6.3	5.3
32	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.3	0.3
33	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft Buffer of linear feature)	Avoidance Mod		0.2	-
34	Water and Wetlands	Oregon Watershed Restoration Inventory Project Area	Avoidance Low		-	0.1
35	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	0.1	0.1
36	Other Features	Vale District Utility Corridor	Opportunity		3.0	0.4
37	Other Features	West-wide Energy Corridor	Opportunity	CC	0.4	0.0
38	Other Features	Parallel to Existing Transmission Line	Opportunity		7.2	3.2

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.



**Table D-11. West of Vale Data Table**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (BA2-MA4-MA5)	EAST ROUTE (BA2-MA1-MA2-MA5)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>67.8</b>	<b>73.4</b>
1	Visual Resources	National Forest Visual Quality Objective: Modification	Avoidance Mod		3.2	1.1
2	Visual Resources	National Forest Visual Quality Objective: Partial Retention	Avoidance High		2.9	-
3	Visual Resources	BLM Visual Resource Management Class 3 - OR	Avoidance Mod		1.2	3.4
4	Visual Resources	BLM Visual Resource Management Class 4 - OR	Avoidance Low		35.2	21.4
5	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		14.6	-
6	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	9.0	26.8
7	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	36.3	34.2
8	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod		23.3	35.7
9	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		37.5	34.3
10	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Low		3.0	-
11	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Unoccupied)	Avoidance Low		14.2	-
12	Fish and Wildlife	Wild Horse and Burro Area (OR BLM)	Avoidance Low		4.4	-
13	Land Use	Cropland/Irrigated Agriculture	Avoidance High		0.5	0.3
14	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		0.7	6.3
15	Land Use	Grazing/Pasture - OR	Avoidance Low		61.1	48.9
16	Land Use	Forested Land: Private	Avoidance Mod		2.1	0.3
17	Land Use	Forested Land: Public	Avoidance Mod		1.6	-
18	Land Use	Vale District Off-Highway Vehicle: Limited to Existing Routes	Avoidance Low		3.0	-

**Table D-11.** West of Vale Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (BA2-MA4-MA5)	EAST ROUTE (BA2-MA1-MA2-MA5)
					Length in Miles	
<b>TOTAL LENGTH</b>					<b>67.8</b>	<b>73.4</b>
19	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		22.2	0.9
20	Land Use	Proposed Wilderness Study Area (ONDA)	Avoidance Mod		22.2	9.4
21	Ownership	Bureau of Land Management	Avoidance Low	CC	36.4	24.8
22	Ownership	Bureau of Reclamation	Avoidance Low	CC	0.3	0.3
23	Ownership	Private	Avoidance Low	CC	25.6	47.6
24	Ownership	State Land	Avoidance Low	CC	1.7	-
25	Ownership	U.S. Forest Service	Avoidance Low	CC	4.0	0.8
26	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		0.1	2.6
27	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		0.3	3.0
28	Geological Resources	Within 500ft of Fault Line	Avoidance Low		1.1	4.5
29	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	0.3	3.7
30	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod		-	0.6
31	Slope	Slope 0-15%	Opportunity		39.1	54.1
32	Slope	Slope 15-25%	Avoidance Low		16.7	12.7
33	Slope	Slope 25-35%	Avoidance Mod		8.0	4.7
34	Slope	Slope >35%	Avoidance High		4.1	1.9
35	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.1	0.5
36	Other Features	Vale District Utility Corridor	Opportunity		0.6	5.3
37	Other Features	Parallel to Existing Transmission Line	Opportunity		-	16.4

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-12. Weatherby Data Table**

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (BA11-BA12-BA13)	EAST ROUTE (BA11-BA13)
				Length in Miles	
<b>TOTAL LENGTH</b>				<b>9.1</b>	<b>7.7</b>
1	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod	2.3	1.5
2	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High	0.6	-
3	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low	2.2	-
4	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	5.6
5	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	-
6	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod	0.1	0.4
7	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low	6.5	4.9
8	Land Use	Cropland/Irrigated Agriculture	Avoidance High	0.3	-
9	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High	8.0	7.7
10	Land Use	Grazing/Pasture - OR	Avoidance Low	7.7	6.1
11	Land Use	Forested Land: Private	Avoidance Mod	-	-
12	Land Use	Forested Land: Public	Avoidance Mod	-	-
13	Ownership	Bureau of Land Management	Avoidance Low	CC	2.7
14	Ownership	Private	Avoidance Low	CC	5.0
15	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	-	1.9
16	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	2.9	2.9
17	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low	6.2	2.9
18	Geological Resources	Within 500ft of Fault Line	Avoidance Low	0.2	0.4
19	Geological Resources	U.S. Geological Survey Active Mining Area	Avoidance High	0.2	-
20	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	5.4
21	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod	0.9	0.2
22	Slope	Slope 0-15%	Opportunity	2.8	2.2
23	Slope	Slope 15-25%	Avoidance Low	2.8	2.3
24	Slope	Slope 25-35%	Avoidance Mod	1.3	1.5
25	Slope	Slope >35%	Avoidance High	2.2	1.7

**Table D-12. Weatherby Data Table (continued)**

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (BA11-BA12-BA13)	EAST ROUTE (BA11-BA13)	
				Length in Miles		
<b>TOTAL LENGTH</b>				<b>9.1</b>	<b>7.7</b>	
26	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.2	-
27	Water and Wetlands	Oregon Watershed Restoration Inventory Project Area	Avoidance Low		0.4	0.1
28	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	0.3	-
29	Other Features	West-wide Energy Corridor	Opportunity	CC	0.4	-
30	Other Features	Parallel to Existing Transmission Line	Opportunity		6.0	-

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1 Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-13. Lime Data Table**

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	WEST ROUTE (BA14-BA16)	EAST ROUTE (BA14-BA15- BA16)
				Length in Miles	
<b>TOTAL LENGTH</b>				<b>6.0</b>	<b>5.9</b>
1	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod	-	1.6
2	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High	-	0.4
3	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	3.1
4	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low	-	4.9
5	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	4.9
6	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	5.5
7	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low	5.3	3.2
8	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High	6.0	5.1
9	Land Use	Grazing/Pasture - OR	Avoidance Low	5.3	4.1
10	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod	5.7	5.8
11	Ownership	Bureau of Land Management	Avoidance Low	CC	1.2
12	Ownership	Private	Avoidance Low	CC	4.7
13	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	0.5	0.3
14	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod	1.8	2.2
15	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low	3.6	3.4
16	Geological Resources	Within 500ft of Fault Line	Avoidance Low	0.5	0.2
17	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	4.1
18	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod	0.7	0.6
19	Slope	Slope 0-15%	Opportunity	1.3	0.7
20	Slope	Slope 15-25%	Avoidance Low	2.7	1.3
21	Slope	Slope 25-35%	Avoidance Mod	1.3	1.4
22	Slope	Slope >35%	Avoidance High	0.7	2.5
23	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	-
24	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	0.1
25	Other Features	Vale District Utility Corridor	Opportunity	1.6	1.7
26	Other Features	West-wide Energy Corridor	Opportunity	CC	1.2
27	Other Features	Parallel to Existing Transmission Line	Opportunity	6.0	1.8

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1, Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-14. Snake River Valley Data Table**

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>21</sup>	A	B	C	D	E	F
					(BA13-BA14-BA16-BA17-MA3-MA7-OW1-OW2)	(BA13-BA14-BA16-BA17-MA3-PA2-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-OW1-OW2)	(BA13-WA1-PA1-OW1-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-PA2-OW2)	(BA13-WA1-PA1-PA2-OW2)
					Length in Miles					
TOTAL LENGTH					99.6	96.3	104.3	100.8	109.5	106
1	Cultural Resources	Within 500ft of Cemetery	Avoidance Mod		0.2	-	-	-	-	-
2	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod		4.5	5.9	2.1	1.0	3.1	1.9
3	Cultural Resources	Within .5mi National Register Historic Place Buffer	Avoidance High		0.8	-	-	-	-	-
4	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High		2.3	2.3	-	-	-	-
5	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	0.5	3.0	1.2	1.2	3.0	3.0
6	Visual Resources	BLM Visual Resource Management Class 2	Avoidance High		-	-	7.2	8.0	13.3	14.1
7	Visual Resources	BLM Visual Resource Management Class 3	Avoidance Mod		3.3	29.0	15.3	25.9	24.9	35.5
8	Visual Resources	BLM Visual Resource Management Class 4	Avoidance Low		31.0	27.4	64.9	62.9	54.4	52.4
9	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		3.0	1.5	1.5	-	1.5	-
10	Fish and Wildlife	IDFG Focal Area	Avoidance Low		11.0	2.6	42.8	51.4	40.5	49.1
11	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	58.3	32.3	16.5	4.0	16.5	4.0
12	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	25.7	25.6	11.3	4.2	11.3	4.2
13	Fish and Wildlife	IDFG Big Game Crucial Winter Range	Avoidance Mod	CC	-	-	19.9	18.9	19.9	18.9
14	Fish and Wildlife	Pronghorn Antelope Habitat (Boise District, ID)	Avoidance Mod	CC	23.8	3.1	22.7	22.7	3.1	3.1

**Table D-14.** Snake River Valley Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>21</sup>	A	B	C	D	E	F
					(BA13-BA14-BA16-BA17-MA3-MA7-OW1-OW2)	(BA13-BA14-BA16-BA17-MA3-PA2-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-OW1-OW2)	(BA13-WA1-PA1-OW1-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-PA2-OW2)	(BA13-WA1-PA1-PA2-OW2)
					Length in Miles					
TOTAL LENGTH					99.6	96.3	104.3	100.8	109.5	106
15	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod		9.8	6.5	3.1	-	3.1	-
16	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		36.9	19.8	9.9	5.1	9.9	5.1
17	Fish and Wildlife	Sage-grouse Key Habitat Area (ID BLM)	Avoidance Mod	CC	-	-	4.4	10.9	4.4	10.9
18	Fish and Wildlife	Sage-grouse Restoration Habitat Type 1: Perennial Grasslands (ID BLM)	Avoidance Low	CC	-	-	1.5	2.5	1.5	2.5
19	Fish and Wildlife	Sage-grouse Restoration Habitat Type 2: Annual Grass Understories (ID BLM)	Avoidance Low		-	-	12.0	12.8	12.0	12.8
20	Fish and Wildlife	Within 2-mile Idaho Sage-grouse Lek Buffer (Unknown)	Exclusion		-	2.2	-	-	-	-
21	Fish and Wildlife	Within 300ft Special Status Stream: Bull Trout	Avoidance Mod	CC	-	-	0.1	0.1	0.1	0.1
22	Land Use	Cropland/Irrigated Agriculture	Avoidance High		23.6	36.8	29.5	28.4	33.8	32.7
23	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		37.4	21.2	16.9	6.6	16.9	6.6
24	Land Use	Grazing Allotment - ID	Avoidance Low		20.1	10.5	41.8	49.2	28.2	35.6
25	Land Use	Grazing/Pasture - OR	Avoidance Low		29.5	22.2	11.7	6.4	11.7	6.4

**Table D-14.** Snake River Valley Data Table (continued)

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>21</sup>	A	B	C	D	E	F
				(BA13-BA14-BA16-BA17-MA3-MA7-OW1-OW2)	(BA13-BA14-BA16-BA17-MA3-PA2-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-OW1-OW2)	(BA13-WA1-PA1-OW1-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-PA2-OW2)	(BA13-WA1-PA1-PA2-OW2)
<b>TOTAL LENGTH</b>				<b>99.6</b>	<b>96.3</b>	<b>104.3</b>	<b>100.8</b>	<b>109.5</b>	<b>106</b>
26	Land Use	City Impact Area - Idaho	Avoidance High	-	3.9	9.7	9.7	2.6	2.6
27	Land Use	Urban Growth Boundary - Oregon	Avoidance High	CC	-	2.3	-	-	-
28	Land Use	Urban Area	Avoidance High	CC	-	1.7	-	-	-
29	Land Use	Forested Land: Private	Avoidance Mod	-	-	-	0.1	-	0.1
30	Land Use	Forested Land: Public	Avoidance Mod	-	-	-	-	-	-
31	Land Use	Area of Critical Environmental Concern	Avoidance High	-	3.4	7.3	7.3	4.4	4.4
32	Land Use	Vale District Off-Highway Vehicle: Limited to Existing Routes	Avoidance Low	-	15.8	4.2	-	-	-
33	Land Use	Oregon State Park	Exclusion	-	0.3	-	-	-	-
34	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod	-	38.8	21.0	34.8	30.0	28.5
35	Ownership	Bureau of Land Management - OR	Avoidance Low	CC	15.2	7.5	4.0	4.8	4.0
36	Ownership	Bureau of Land Management - ID	Avoidance Low	CC	16.9	8.8	27.0	28.4	14.0
37	Ownership	<b>Bureau of Land Management Total</b>			<b>32.1</b>	<b>16.3</b>	<b>31.0</b>	<b>33.2</b>	<b>18.1</b>
38	Ownership	Bureau of Reclamation - OR	Avoidance Low	CC	-	0.3	-	-	-
39	Ownership	Bureau of Reclamation - ID	Avoidance Low	CC	0.1	0.1	0.2	0.2	0.1
40	Ownership	<b>Bureau of Reclamation Total</b>			<b>0.1</b>	<b>0.5</b>	<b>0.2</b>	<b>0.2</b>	<b>0.1</b>
41	Ownership	Private - OR	Avoidance Low	CC	60.5	34.7	12.8	1.7	12.8



**Table D-14.** Snake River Valley Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>21</sup>	A	B	C	D	E	F
					(BA13-BA14-BA16-BA17-MA3-MA7-OW1-OW2)	(BA13-BA14-BA16-BA17-MA3-PA2-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-OW1-OW2)	(BA13-WA1-PA1-OW1-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-PA2-OW2)	(BA13-WA1-PA1-PA2-OW2)
TOTAL LENGTH					99.6	96.3	104.3	100.8	109.5	106
42	Ownership	Private - ID	Avoidance Low	CC	3.8	43.3	59.6	65.0	76.1	81.4
43	Ownership	Private Land Total			64.3	78.0	72.4	66.7	88.9	83.1
44	Ownership	Other Federal Land	Avoidance Low	CC	-	-	-	-	-	-
45	Ownership	State Land - ID	Avoidance Low	CC	3.0	0.6	0.6	0.6	2.0	2.0
46	Ownership	Water	Avoidance High		-	-	-	-	-	-
47	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		12.9	31.7	35.5	30.7	41.1	36.3
48	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		22.8	30.2	33.4	31.4	39.0	37.0
49	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		22.7	13.3	34.2	36.8	28.0	30.5
50	Geological Resources	Idaho Landslide Susceptibility: Moderate	Avoidance Mod		-	8.0	-	-	8.0	8.0
51	Geological Resources	Idaho Landslide Susceptibility: Low	Avoidance Low		23.8	45.1	87.5	94.3	84.7	91.5
52	Geological Resources	Within 500ft of Fault Line	Avoidance Low		2.2	0.5	2.1	1.5	1.4	0.9
53	Geological Resources	U.S. Geological Survey Active Mining Area	Avoidance High		0.2	0.1	0.1	0.1	0.1	0.1
54	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	34.5	55.8	55.5	47.1	62.8	54.5
55	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod		0.7	0.7	0.7	0.7	0.7	0.7

**Table D-14.** Snake River Valley Data Table (continued)

Resource Group	Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	A	B	C	D	E	F	
				(BA13-BA14-BA16-BA17-MA3-MA7-OW1-OW2)	(BA13-BA14-BA16-BA17-MA3-PA2-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-OW1-OW2)	(BA13-WA1-PA1-OW1-OW2)	(BA13-BA14-BA16-BA17-WA1-PA1-PA2-OW2)	(BA13-WA1-PA1-PA2-OW2)	
<b>TOTAL LENGTH</b>				<b>99.6</b>	<b>96.3</b>	<b>104.3</b>	<b>100.8</b>	<b>109.5</b>	<b>106</b>	
56	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod	-	-	-	0.6	-	0.6	
57	Slope	Slope 0-15%	Opportunity	71.7	75.1	72.2	65.3	76.0	69.1	
58	Slope	Slope 15-25%	Avoidance Low	17.0	11.8	17.7	15.1	17.3	14.7	
59	Slope	Slope 25-35%	Avoidance Mod	6.6	5.2	8.0	10.9	8.8	11.7	
60	Slope	Slope >35%	Avoidance High	4.3	4.2	6.5	9.6	7.5	10.6	
61	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low	-	16.1	47.3	54.1	53.8	60.6	
62	Water and Wetlands	Floodplain: Zone A	Avoidance Mod	-	0.4	2.0	2.0	2.3	2.3	
63	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.7	2.9	1.3	1.4	1.4	
64	Water and Wetlands	Snake River	Avoidance High	-	0.9	0.4	0.5	0.3	0.4	
65	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	1.2	2.8	1.2	0.3	1.2	0.3
66	Other Features	Vale District Utility Corridor	Opportunity	-	24.7	35.5	7.5	-	7.5	-
67	Other Features	West-wide Energy Corridor	Opportunity	CC	16.2	6.1	10.5	7.9	2.6	-
68	Other Features	Parallel to Existing Transmission Line	Opportunity	-	50.4	33.3	25.0	14.8	34.0	23.8

Notes:

1 For explanation of Permitting Difficulty categories, see Section 3.1 Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**Table D-15.** Western, Central, and Eastern Route Data Table

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>21</sup>	Western Route	Central Route	Eastern Route
					Length in Miles		
<b>TOTAL LENGTH</b>					<b>275.1</b>	<b>281.9</b>	<b>298.8</b>
1	Cultural Resources	Burns District Archaeological Site	Avoidance High		0.1	-	-
2	Cultural Resources	Within 1200ft Historic Trail Buffer	Avoidance Mod		0.5	0.7	5.1
3	Cultural Resources	Within .5mi National Register Historic Place Buffer	Avoidance High		0.8	0.8	0.8
4	Cultural Resources	Intact Oregon Trail Segment (OR BLM)	Avoidance High		0.5	0.3	0.5
5	Cultural Resources	Oregon Trail Brochure - Trailrut	Avoidance High		-	-	0.5
6	Visual Resources	Viewshed Area (Baker County)	Avoidance High		-	-	4.9
7	Visual Resources	Within 1200ft Nationally Designated Scenic Byway	Avoidance Mod	CC	2.0	2.7	2.0
8	Visual Resources	National Forest Visual Quality Objective: Maximum Modification	Opportunity		5.3	-	-
9	Visual Resources	National Forest Visual Quality Objective: Modification	Avoidance Mod		-	7.7	0.4
10	Visual Resources	National Forest Visual Quality Objective: Partial Retention	Avoidance High		5.3	20.5	3.6
11	Visual Resources	National Forest Visual Quality Objective: Retention	Exclusion	CC	0.2	1.4	1.4
12	Visual Resources	BLM Visual Resource Management Class 2	Avoidance High	CC	3.6	3.6	3.6
13	Visual Resources	BLM Visual Resource Management Class 3	Avoidance Mod		4.9	4.7	4.7
14	Visual Resources	BLM Visual Resource Management Class 4	Avoidance Low		48.4	35.7	36.3
15	Fish and Wildlife	ODFW Conservation Opportunity Area	Avoidance Low		22.4	40.1	36.3
16	Fish and Wildlife	IDFG Focal Area	Avoidance Low		11.0	11.0	11.0
17	Fish and Wildlife	ODFW Big Game Deer Winter Range	Avoidance Mod	CC	104.9	101.9	114.7
18	Fish and Wildlife	ODFW Big Game Elk Winter Range	Avoidance Mod	CC	105.4	92.9	68.6
19	Fish and Wildlife	Pronghorn Antelope Habitat (Boise District, ID)	Avoidance Mod	CC	23.8	23.8	23.8
20	Fish and Wildlife	Prineville District Fish Restoration Area	Avoidance Mod		2.1	-	-

**Table D-15.** Western, Central, and Eastern Route Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>21</sup>	Western Route	Central Route	Eastern Route
					Length in Miles		
<b>TOTAL LENGTH</b>					<b>275.1</b>	<b>281.9</b>	<b>298.8</b>
21	Fish and Wildlife	Prineville District Wildlife Habitat Seasonal Closure Area	Avoidance Mod		49.0	-	-
22	Fish and Wildlife	Sage-grouse Core Area 1: Sagebrush Habitat (Oregon)	Avoidance Mod		28.2	37.1	56.9
23	Fish and Wildlife	Sage-grouse Core Area 2: Potential Habitat (Oregon)	Avoidance Low		117.6	105.6	148.9
24	Fish and Wildlife	Sage-grouse Core Area 3: Non-Sagebrush Shrublands and Grasslands (Oregon)	Avoidance Low		65.6	59.2	17.8
25	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Occupied but Permittable)	Avoidance Mod	CC	-	-	10.0
26	Fish and Wildlife	Within 2-mile Oregon Sage-grouse Lek Buffer (Unoccupied)	Avoidance Low		-	-	5.4
27	Fish and Wildlife	Within 300ft Special Status Stream: Bull Trout	Avoidance Mod	CC	0.4 (3 crossings)	1.0 (8 crossings)	0.1 (1 crossing)
28	Fish and Wildlife	Within 300ft Special Status Stream: Chinook Salmon	Avoidance Mod	CC	0.2 (2 crossings)	0.1 (1 crossing)	0.1 (1 crossing)
29	Fish and Wildlife	Within 300ft Special Status Stream: Coho Salmon	Avoidance Mod	CC	-	0.1 (1 crossing)	0.1 (1 crossing)
30	Fish and Wildlife	Within 300ft Special Status Stream: Cutthroat Trout	Avoidance Mod	CC	0.5 (4 crossings)	-	-
31	Fish and Wildlife	Within 300ft Special Status Stream: Red Band Trout	Avoidance Mod	CC	2.5 (19 crossings)	-	-
32	Fish and Wildlife	Within 300ft Special Status Stream: Steelhead	Avoidance Mod	CC	2.4 (18 crossings)	0.4 (3 crossings)	0.6 (5 crossings)
33	Fish and Wildlife	Wild Horse and Burro Area (OR BLM)	Avoidance Low		5.3	-	-
34	Land Use	Cropland/Irrigated Agriculture	Avoidance High		9.8	9.2	17.8
35	Land Use	Exclusive Farm Use Zone/Multiple Use Range Zone	Avoidance High		105.5	103.3	162.9
36	Land Use	Grazing Allotment - ID	Avoidance Low		20.1	20.1	20.1
37	Land Use	Grazing/Pasture - OR	Avoidance Low		92.5	90.7	114.3
38	Land Use	Naval Weapons System Training Facility	Avoidance Mod	CC	-	-	9.1
39	Land Use	Forested Land: Private	Avoidance Mod		19.5	29.3	17.9
40	Land Use	Forested Land: Public	Avoidance Mod		38.4	28.9	4.3

**Table D-15.** Western, Central, and Eastern Route Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>21</sup>	Western Route	Central Route	Eastern Route
					Length in Miles		
<b>TOTAL LENGTH</b>					<b>275.1</b>	<b>281.9</b>	<b>298.8</b>
41	Land Use	National Forest Old Growth Forest Stand	Exclusion	CC	2.7	-	-
42	Land Use	Area of Critical Environmental Concern	Avoidance High		3.7	3.7	3.7
43	Land Use	Prineville District Lands Proposed for Acquisition by the BLM	Avoidance Low		12.5	-	-
44	Land Use	Prineville District Noxious Weeds	Avoidance Low		2.7	-	-
45	Land Use	Prineville District Off-Highway Vehicle: Limited Use	Avoidance Low		3.2	-	-
46	Land Use	Vale District Off-Highway Vehicle: Limited to Designated Routes	Avoidance Low		5.4	5.4	5.4
47	Land Use	Vale District Off-Highway Vehicle: Limited to Existing Routes	Avoidance Low		11.6	8.6	8.6
48	Land Use	Oregon State Park	Exclusion		-	0.2	0.2
49	Land Use	Morrow County Park	Exclusion		0.5	-	-
50	Land Use	Virtue Flat OHV Park	Avoidance Mod		-	-	0.1
51	Land Use	Special Recreation Management Area (Malheur RA, Vale District, OR)	Avoidance Mod	CC	3.7	3.7	3.7
52	Land Use	Prineville District Special Recreation Management Area	Avoidance Mod		4.9	-	-
53	Land Use	The Nature Conservancy: Portfolio	Avoidance Mod		75.5	83.6	86.1
54	Land Use	Wind Farm Boundary	Avoidance High		1.3	1.3	-
55	Land Use	Wind Turbine 1200ft Buffer Zone			0.3	0.3	-
56	Land Use	Proposed Wilderness Study Area (ONDA)	Avoidance Mod		45.4	15.0	15.0
57	Land Use	Lands with Wilderness Characteristics (OR BLM)	Avoidance Mod		5.0	-	-
58	Ownership	Bureau of Land Management	Avoidance Low	CC	67.6	54.3	63.6
59	Ownership	Bureau of Reclamation	Avoidance Low	CC	0.3	0.3	0.3
60	Ownership	Military Land	Avoidance Low	CC	-	-	8.1
61	Ownership	Private	Avoidance Low	CC	137.6	173.6	197.6
62	Ownership	State Land	Avoidance Low	CC	2.2	-	0.1
63	Ownership	U.S. Forest Service	Avoidance Low	CC	43.5	29.9	5.4
64	Geological Resources	Erosion Hazard: High (Prineville District, OR)	Avoidance Mod		24.4	-	-
65	Geological Resources	Erosion Hazard: High (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		31.9	53.4	39.3

**Table D-15.** Western, Central, and Eastern Route Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>17</sup>	Community Criteria <sup>21</sup>	Western Route	Central Route	Eastern Route
					Length in Miles		
<b>TOTAL LENGTH</b>					<b>275.1</b>	<b>281.9</b>	<b>298.8</b>
66	Geological Resources	Erosion Hazard: Moderate (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Mod		22.9	39.3	88.9
67	Geological Resources	Erosion Hazard: Low (NRCS Soil Data - Grant Co, OR data n/a)	Avoidance Low		37.6	41.7	75.2
68	Geological Resources	Idaho Landslide Susceptibility: Low	Avoidance Low		23.8	23.8	23.8
69	Geological Resources	Within 500ft of Fault Line	Avoidance Low		13.6	11.5	13.6
70	Geological Resources	U.S. Geological Survey Active Mining Area	Avoidance High		0.2	-	0.1
71	Geological Resources	Prime Farmland/Arable Land: Soils Class 1-4	Avoidance Mod	CC	62.7	125.9	155.7
72	Geological Resources	Oregon Landslide Feature: Fan	Avoidance Mod		-	5.3	-
73	Geological Resources	Oregon Landslide Feature: Landslide	Avoidance Mod		11.4	5.7	4.2
74	Geological Resources	Oregon Landslide Feature: Talus-Colluvium	Avoidance Mod		5.5	3.2	1.4
75	Slope	Slope 0-15%	Opportunity		152.3	177.0	215.7
76	Slope	Slope 15-25%	Avoidance Low		63.8	48.8	48.3
77	Slope	Slope 25-35%	Avoidance Mod		35.4	28.1	19.8
78	Slope	Slope >35%	Avoidance High		23.5	28.0	14.9
79	Water and Wetlands	Floodplain: Area Not Mapped	Avoidance Low		3.6	41.5	54.0
80	Water and Wetlands	Floodplain: Not in Flood Zone	Avoidance Low		60.6	82.3	83.2
81	Water and Wetlands	Floodplain: Zone A	Avoidance Mod		0.7	1.2	0.3
82	Water and Wetlands	National Wetland Inventory	Avoidance Mod	CC	0.4	0.7	0.7
83	Water and Wetlands	Oregon Watershed Restoration Inventory Project (within 500ft Buffer of linear feature)	Avoidance Mod		0.5	-	-
84	Water and Wetlands	Oregon Watershed Restoration Inventory Project Area	Avoidance Low		3.0	-	2.2
85	Other Features	Within 200ft of Existing Pipeline	Opportunity	CC	0.1	1.2	1.7

**Table D-15.** Western, Central, and Eastern Route Data Table (continued)

Resource Group		Regulatory Criteria Description	Permitting Difficulty <sup>1/</sup>	Community Criteria <sup>2/</sup>	Western Route	Central Route	Eastern Route
					Length in Miles		
<b>TOTAL LENGTH</b>					<b>275.1</b>	<b>281.9</b>	<b>298.8</b>
86	Other Features	Vale District Utility Corridor	Opportunity		3.1	5.9	3.4
87	Other Features	West-wide Energy Corridor	Opportunity	CC	19.9	19.9	19.9
88	Other Features	National Forest Utility Corridor	Opportunity	CC	-	5.4	5.4
89	Other Features	Parallel to Existing Transmission Line	Opportunity		46.3	58.4	105.0

Notes:

1/ For explanation of Permitting Difficulty categories, see Section 3.1 Table 3.1-1.

2/ Rows designated with "CC" indicate Community Criteria. These are the criteria the PATs wanted to be considered in the analysis.

**APPENDIX E**  
**1:24,000 Topographic Maps**





# Boardman to Hemingway

Transmission Line Project

