

*Table RS-2
Environmental Screening Information for Lines Requiring New Right-of-Way*

New Warrens Substation to Council Creek-Tunnel City 69-kV line

General Description	New line
Length (miles)	approximately 7.3
#1 Screening Area (Sq. mi.- length X width)	approximately 69
#2 Corridor Sharing Opportunities	State and Federal highways, and existing transmission line rights-of-way offer opportunity for corridor sharing.
#3 Public Lands	Buckley, Gillette, and Veterans Park in Tomah, and Mill Creek State Fishery Area are found in the screening area.
#4 Sensitive Resources	Mill Creek State Fishery area and Mud Creek are located in the screening area.
#5 Cultural Resources	The Cultural Map of Wisconsin does lists several markers, the Harris G. Allen Telcommunications Museum, and the Little Red Schoolhouse in Gillette Park within the screening area. Several railroad related sites and local cemeteries are known in the screening area.
Miscellaneous	Mesner landing strip is in the screening area.

Woodmin -Clear Lake 115-kV line

General Description	New line
Length (miles)	approximately 6
#1 Screening Area (Sq. mi.- length X width)	approximately 51
#2 Corridor Sharing Opportunities	State and county highways and local roads offer opportunities for corridor sharing.
#3 Public Lands	Northern Highland - American Legion State Forest, Brandy Lake Park, Bearskin Hiawatha Coop State Trail, local parks and recreational facilities are located in the project area.
#4 Sensitive Resources	Minocqua, Mud, Johnson, Snake, Bullhead, and several other lakes, numerous streams and channels and wetlands are located within the study area.
#5 Cultural Resources	The WHS database has identified architectural and historic sites within the study area. The Lac du Flambeau reservation is located at the west edge of the screening area.
Miscellaneous	There is a moderate probability of encountering endangered resources.

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Rebuild Straits-Pine River 138-kV lines 6904/5

General Description	Rebuild adjacent to existing lines
Length (miles)	25.3
#1 Screening Area (Sq. mi.)	na. - follows existing route
#2 Corridor Sharing Opportunities	Existing transmission line corridor.
#3 Public Lands	Project area lies within the Hiawatha National Forest.
#4 Sensitive Resources	Extensive woodlands, wetlands and several streams are crossed on the line route. The route also crosses remnant dunes and several high quality natural habitats.
#5 Cultural Resources	There is a moderate - high probability of encountering archaeological resources along the near-shore area of Lake Michigan and near waterway crossings.
Miscellaneous	There is a high probability of encountering rare species along this route due to the waterways, wetlands, and other habitats.

Southwest Ripon to the Ripon-Metomen 69-kV line

General Description	New line
Length (miles)	1.5
#1 Screening Area (Sq. mi.)	4
#2 Corridor Sharing Opportunities	County and local roads provide opportunities for corridor sharing.
#3 Public Lands	Barlow Park and Kiwanis Park are within the study area.
#4 Sensitive Resources	Two unnamed streams & associated wetlands are located within the study area.
#5 Cultural Resources	The WHS database identifies numerous architectural and historic sites within the City of Ripon.
Miscellaneous	There is a low probability of encountering endangered resources.

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Gwinn-Forsyth second 69-kV line

General Description	Add second circuit along existing route
Length (miles)	0.84
#1 Screening Area (Sq. mi.)	na. - follows existing route
#2 Corridor Sharing Opportunities	Existing transmission line corridor.
#3 Public Lands	Escanaba River State Forest
#4 Sensitive Resources	The line route crosses a limited amount of wetland
#5 Cultural Resources	Based on the setting of the route, there is a low to moderate probability of encountering endangered resources.
Miscellaneous	There is a low to moderate probability of encountering endangered resources.

North Lake Geneva-South Lake Geneva 138-kV line

General Description	New line
Length (miles)	approximately 3.4
#1 Screening Area (Sq. mi.)	approximately 21
#2 Corridor Sharing Opportunities	US Hwy 12 and State Hwy 120, along with other roads offer opportunities for corridor sharing, along with the existing transmission line Y-152
#3 Public Lands	Big Foot Beach State Park and other WDNR owned lands are located within the study area.
#4 Sensitive Resources	Lake Geneva, Lake Como, White River, and a number of large wetland complexes are located within the study area.
#5 Cultural Resources	The WHS database identifies archaeological and historic resources in the study area, particularly located near Lake Geneva.
Miscellaneous	There is a moderate probability on encountering endangered resources.

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Dunn Road-Egg Harbor 69-kV line

	General Description	Construct a second line
	Length (miles)	12.66
#1	Screening Area (Sq. mi.)	82.7
#2	Corridor Sharing Opportunities	State Hwy 42 and existing transmission line X-24A provide the best opportunities for corridor sharing, along with county and local roads.
#3	Public Lands	None identified
#4	Sensitive Resources	The study area is adjacent to Lake Michigan.
#5	Cultural Resources	The WHS database identifies several architectural and historic sites within the study area, many are located near State Hwy 42.
	Miscellaneous	There is a high probability of encountering endangered resources.

Fairwater-Mackford Prairie 69-kV line

	General Description	New line
	Length (miles)	5
#1	Screening Area (Sq. mi.- length X width)	44.9
#2	Corridor Sharing Opportunities	State and County roads, railroad corridor, and existing electrical distribution lines routes located within the screening corridor offer the potential for corridor sharing.
#3	Public Lands	WDNR owns several parcels of "scattered wildlife" lands along the Grand River corridor.
#4	Sensitive Resources	The Grand river and associated wetlands are located in the project area.
#5	Cultural Resources	The WHS database identifies numerous arcahaeological, architectural and historic sites within the screening area. Cultural Map of Wisconsin does not identify any sites within the screening area.
	Miscellaneous	There is a moderate probability on encountering endangered resources.

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Spring Valley-Twin Lakes-South Lake Geneva 138-kV line

	General Description	New Line
	Length (miles)	approximately 15 miles of new line
#1	Screening Area (Sq. mi.- length X width)	approximately 113
#2	Corridor Sharing Opportunities	Existing transmission lines, state and county roads located within the screening area offer the best possibility of corridor sharing.
#3	Public Lands	Numerous local parks, the New Munster state wildlife area and Camp Lake, Hooker Lake, and Silver Lake state fishery areas are located within the screening area.
#4	Sensitive Resources	Silver Lake, Camp Lake, Center Lake Lake Mary and Powers Lake and the Lower Fox (Illinois) River drainage basin are found within the screening area. The New Munster Bog Island, Silver Lake Bog, and Peat Lake State Natural Areas also are located in the screening area.
#5	Cultural Resources	The WHS database identifies archaeological and historic resources in the study area, particularly associated with lakes and rivers.
	Miscellaneous	

Lake Delton-Birchwood 138-kV line

	General Description	New line
	Length (miles)	approximately 5
#1	Screening Area (Sq. mi.- length X width)	approximately 41
#2	Corridor Sharing Opportunities	Interstate Highway 90/94, US Highway 12, State Highway 23, several county highways and local electrical distribution lines.
#3	Public Lands	Mirror Lake State Park, Dell Creek wildlife area, Hulburt Creek Woods State Natural Area and Hulburt Creek fishery area.
#4	Sensitive Resources	State Natural Areas and State Parks, Dell Creek, Harrison Creek, Lake Delton, Mirror Lake, Lake Blass, International Crane Foundation are located within the screening area.
#5	Cultural Resources	Cultural Map of Wisconsin identifies Dawn Manor, Seth Peterson cottage, International Crane Foundation, and the H.H. Bennett Studio within the screening area.
	Miscellaneous	Ho Chunk tribal lands and the Baraboo Dells Airport are located in the screening area.

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Hubbard - East Beaver Dam 138-Kv line

	General Description	New line
	Length (miles)	10
#1	Screening Area (Sq. mi.)	approximately 65
#2	Corridor Sharing Opportunities	Highway 33, county highways, and a railroad right-of-way offer possible sharing opportunities.
#3	Public Lands	Portions of Horicon Marsh and Shaw Marsh wildlife areas and the Wild Goose Trail are within the screening area.
#4	Sensitive Resources	Horicon and Shaw Marsh, Rock River, Pratt Creek, Schulz Creek, Crystal Creek, Park Creek and Beaver Dam River are located in the screening area.
#5	Cultural Resources Miscellaneous	Cultural Map of Wisconsin does not identify any sites within the screening area.

Shoto-Custer 138-kV line

	General Description	New line
	Length (miles)	6.9
#1	Screening Area (Sq. mi.)	54.3
#2	Corridor Sharing Opportunities	Existing transmission lines, state, county and local roads provide opportunities for corridor sharing.
#3	Public Lands	Several local parks and the Manitowoc County Airport are located in the project area.
#4	Sensitive Resources	The Manitowoc River, Wet Twin River, several unnamed tributaries and associated wetlands are located in the project area.
#5	Cultural Resources	The WHS database identifies numerous archaeological, architectural and historic sites within the project area.
	Miscellaneous	There is a low to moderate probability of encountering endangered resources.

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Environmental Screening Information for Lines Requiring New Right-of-Way

NOTES:

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| #1 | Screening Area Width: | For lines 0-5 miles long, screening area width equals length of segment: for lines 5-15 miles long, screening area width equals 5 miles; for lines > 15 miles long, screening area width equals 30% of line length. |
| #2 | Corridor Sharing Opportunities: | Identify dominant corridor types. |
| #3 | Public Lands: | Identify properties by name. |
| #4 | Sensitive Resources: | List major stream crossings, significant topographic features, designated natural areas, etc. |
| #5 | Cultural Resources: | List resources shown on the statewide cultural resources map. |