

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

Pleasant Prairie - Zion Energy Center 345-kV line		
	General Description	New 345 kV transmission line
	Length (miles)	Approximately 6
#1	Screening Area (Sq. mi.- length X width)	Approximately 11.3
#2	Corridor Sharing Opportunities	Existing 345 kV and 138 kV corridors, a railroad corridor, a state highway corridor, and a county highway corridor provide sharing opportunities. There are no state owned lands over which any of the proposed routes cross. There is a former landfill site owned by the City of Kenosha that may require special consideration. Otherwise, the corridor sharing opportunities described above fall within State Highway and RR rights-of-way.
#3	Public Lands	Smaller, isolated wetland areas as well as small tributaries to the Des Plaines River are found within the study area.
#4	Sensitive Resources	There are several cultural resources within the study corridors. The potential for encountering these cultural and historic resources is low to medium.
#5	Cultural Resources	The possible routes identified traverse mainly industrial and agricultural land that include isolated pockets of wetland, including farmed wetlands.
	Miscellaneous	
Old Mead Road to Chandler Double Circuit 138/69 kV Line		
	General Description	New line
	Length (miles)	approximately 4
#1	Screening Area (Sq. mi.- length X width)	approximately 15.8
#2	Corridor Sharing Opportunities	Federal, state, & County highways, railroads, and existing transmission line rights-of-way offer opportunity for corridor sharing.
#3	Public Lands	A State of Michigan owned boat landing and park is located in the project area.
#4	Sensitive Resources	The Escanaba River, Reno Creek and associated tributaries and wetlands are located in the screening area.
#5	Cultural Resources	No known cultural resources have been identified in the project area however the potential exists for sites to exist along the Escanaba River corridor.
	Miscellaneous	West Gladstone airport is in the screening area.

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Western Milwaukee County Electric Reliability Project		
	General Description	New 138 kV transmission line
	Length (miles)	Approximately 3
#1	Screening Area (Sq. mi. - length X width)	Approximately 2.6
#2	Corridor Sharing Opportunities	Existing transmission lines, city streets, and state highway offer possible corridor sharing opportunities.
#3	Public Lands	DNR Forestry Education Center, Milwaukee County Grounds, and several county parks: Wisconsin Avenue, Cannon, and Gravel Sholes, Hansen Golf course are located in the screening area.
#4	Sensitive Resources	Rare Species Conservation Habitat, Underwood Creek/Parkway, Monarch Butterfly Habitat (nesting and foraging areas), and the Menomonee River are located in the screening area.
#5	Cultural Resources	There are several known burial areas and numerous historic areas and buildings located in the screening area.
	Miscellaneous	Milwaukee Regional Medical Center (MRMC) and MRMC Heliport are located in the screening area. Heavy residential development exists throughout study area. The proposed UWM research park; existing MMSD flood control facilities, Wauwatosa city Landfill, and Wisconsin Lutheran College also are located in the screening area.
Bay Lake: Holmes - Escanaba 138-kV two circuit project		
	General Description	2 New 138 kV transmission line
	Length (miles)	Approximately 55
#1	Screening Area (Sq. mi. - length X width)	Approximately 1,302
#2	Corridor Sharing Opportunities	Existing transmission lines, city streets, state highways, county roads, and railroads offer possible corridor sharing opportunities.
#3	Public Lands	Extensive scattered parcels of land in the Escanaba River and Copper Country State Forests (Michigan) and the Menominee River Natural Resource Area (Wisconsin) are located in the project area.
#4	Sensitive Resources	The Menominee River, Cedar River, Ford River, Escanaba River, numerous smaller streams, extensive wetland areas, and scattered smaller lakes are located in the project area. Hannahville Indian Reservation lands are located in the project area. Much of the project area is comprised of sparsely populated lands, undeveloped woodlands and wetlands. The likelihood of encountering rare species is moderate to high.
#5	Cultural Resources	Locations near the major rivers or the shore of Lake Michigan have a higher potential for discovery of cultural resources.
	Miscellaneous	

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Bay Lake: Green Bay - Morgan - Plains - National 345 kV line	
General Description	New 345 kV transmission line
Length (miles)	Approximately 155
#1 Screening Area (Sq. mi.- length X width)	Approximately 3648
#2 Corridor Sharing Opportunities	Various existing transmission lines, federal, state, and county highways, and railroad rights-of-way offer possible sharing opportunities.
#3 Public Lands	State managed lands located in the project area include Governor Tommy G. Thompson Centennial State Park, Peshtigo River State Forest, Green Bay West Shores Wildlife area, Mountain Bay State Trail, Wiouwash State Trail, Nicolet State Trail, Newton Blackmour State Trails, numerous Wisconsin State Natural Areas, and scattered statewide habitat areas. In Michigan the project area includes lands that are part of the Copper Country State Forest and the Escanaba River State Forest and other scattered state owned parcels.
#4 Sensitive Resources	The Menominee, Oconto, Pensaukee, Pike, Peshtigo, Michigamme, and Suamico Rivers and numerous smaller streams and tributaries are located in the project area. Numerous wetlands and scattered lakes are present across the project area. With extensive areas of undeveloped lands, woodlands, wetlands, etc., the likelihood of encountering rare species is high. Records of rare species are known across the project
#5 Cultural Resources	WHS records identify numerous historic properties and archaeological sites within the project area and the Oneida, Potawatomi, and Hannahville Indian Reservation lands are also in the project area.
Miscellaneous	
Bay Lake: Green Bay - Morgan 138-kV line	
General Description	New 138 kV transmission line
Length (miles)	Approximately 23
#1 Screening Area (Sq. mi.- length X width)	Approximately 682
#2 Corridor Sharing Opportunities	Various federal, state, and county highways, existing transmission line, and railroad rights-of-way offer possible sharing opportunities.
#3 Public Lands	State managed lands located in the project area include Green bay West Shores Wildlife area, Mountain Bay State Trail, Wiouwash State Trail, Nicolet State Trail, Newton Blackmour State Trails, and scattered statewide habitat areas.
#4 Sensitive Resources	The Oconto, Pensaukee, and Suamico Rivers and numerous smaller streams and tributaries are located in the project area. Numerous wetlands and a few scattered lakes are present across the project area.
#5 Cultural Resources	WHS records identify numerous historic properties and archaeological sites within the project area and the Oneida Indian Reservation lands are also in the project area.
Miscellaneous	

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Badger Coulee: La Crosse area - North Madison - Cardinal 345-kV line		
	General Description	New 345 kV transmission line
#1	Length (miles)	Approximately 118
	Screening Area (Sq. mi.- length X width)	Approximately 4,234
#2	Corridor Sharing Opportunities	Various federal, state, and county highways, existing transmission line, railroad, and pipeline rights-of-way offer possible sharing opportunities.
		Richard J Dorer SP (MN), O L Kipp SP (MN), Perrot SP (WI), Wildcat Mountain SP (WI), Rocky Arbor SP (WI), Mirror Lake SP (WI), Natural Bridge SP (WI), Devils Lake SP (WI), Bluemounds SP (WI), Lake Kegonsa SP (WI), Governor Nelson SP (WI), numerous county parks, state natural areas, wildlife areas, trails, and recreational areas are located throughout the screening area. The Upper Mississippi River National Wildlife and Fish Refuge, The Leopold Wetland Management District, and Ft Mc Coy Military Reservation are among the federal lands located in the screening area.
#3	Public Lands	Large, contiguous wetland areas are concentrated near the Mississippi and Wisconsin Rivers and their tributaries. Numerous Wisconsin State Natural Areas exist in the route screening area. The probability of encountering threatened, endangered, and rare species is high.
#4	Sensitive Resources	The Cultural Map of Wisconsin identifies numerous cultural resources within the screening area. The potential for encountering cultural and historic resources is high within the screening area.
#5	Cultural Resources	Principal ecological landscapes include the southwest savanna, western coulee and ridges, central sand plains, and central sand hills in Wisconsin. The western portions of the screening area are located in Wisconsin's driftless area and the Mississippi River valley.
	Miscellaneous	
Erdman-Howards Grove-Plymouth #4-Barnhart 138-kV line		
	General Description	New Line
#1	Length (miles)	approximately 16.7
	Screening Area (Sq. mi.)	approximately 105
#2	Corridor Sharing Opportunities	Various federal, state, and county highways, existing transmission line, and railroad rights-of-way offer possible sharing opportunities.
#3	Public Lands	The Schuett Creek Fishery area and various county, city, town, and village parks are located in the project area.
#4	Sensitive Resources	The Sheboygan, Mullet, & Pigeon rivers and Otter, Fisher, and Seven Mile creeks along with associated tributaries and wetlands are located in the project area.
#5	Cultural Resources	The WHS database identifies a number of known archaeological and historic resources in the study area, particularly located near the Sheboygan River corridor.
	Miscellaneous	Sheboygan County memorial airport and Feldmann Field are located in the project area.

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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 archaeological, 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.
Cardinal Bluffs: Dubuque County area - Cardinal 345-kV line		
	General Description	New 345 kV transmission line between Madison , Wisconsin area and Dubuque, Iowa area.
	Length (miles)	Approximately 86
#1	Screening Area (Sq. mi.- length X width)	Approximately 2,756
#2	Corridor Sharing Opportunities	Various federal, state, and county highways, existing transmission line, railroad, and pipeline rights-of-way offer possible sharing opportunities. White Pine Hollow State Forest Preserve (IA), Mines of Spain SP (IA), Governor Dodge SP (WI), Tower Hill SP (WI), (WI), Natural Bridge SP (WI), , Bluemounds SP (WI), Nelson Dewey SP, Governor Nelson SP (WI), Belmont Mound SP (WI), numerous county parks, state natural areas, wildlife areas, trails, and recreational areas are located throughout the screening area. The Upper Mississippi River National Wildlife and Fish Refuge is also located in the screening area.
#3	Public Lands	Large, contiguous wetland areas are concentrated near the Mississippi and Wisconsin Rivers and their tributaries. Numerous Wisconsin State Natural Areas exist in the route screening area. The probability of encountering threatened, endangered, and rare species is high.
#4	Sensitive Resources	The WHS database identifies archaeological and historic resources in the study area, particularly associated the Wisconsin and Mississippi River corridors.
#5	Cultural Resources	Principal ecological landscapes include the southwest savanna, western coulee and ridges, and central sand hills in Wisconsin. The western portions of the screening area are located in Wisconsin's driftless area and the Mississippi and Wisconsin River valleys.
	Miscellaneous	

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North Lake Geneva - Spring Valley 138-kV Line																	
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Twin Lakes - New substation 69-kV line (part of NLG-Spring Valley project)																	
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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.
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	Cultural Map of Wisconsin does not identify any sites within the screening area.
Miscellaneous	

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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.
NOTES:		
#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.