

Table RS-4  
Environmental Screening Information for Projects on Existing Right-of-Way

<b>Nine Mile-Roberts 69-kV line partial rebuild</b>	
General Description	Asset renewal of 69-kV line
Length (miles)	54.6
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	There are numerous significant wetlands and waterways along the project route.
#5 Cultural Resources	Due to the undeveloped nature of much of the lands and the number of waterways along this line route, there is a moderate probability of identifying archaeological and historic sites in the vicinity of the corridor.
Miscellaneous	Several rare species are known to exist along the project route.
<b>M38-Atlantic 69-kV line rebuild</b>	
General Description	Rebuild
Length (miles)	22
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	Copper Country State Forest
#4 Sensitive Resources	The existing line crosses the Pike, Otter, and Sturgeon Rivers along with associated wetlands and tributaries.
#5 Cultural Resources	Cultural resources may be found in the area in the proximity of the rivers located in the screening area.
Miscellaneous	
<b>Doylestown-Rio Pumping Station 69-kV rebuild</b>	
General Description	asset renewal of 69-kV line
Length (miles)	11.5
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	
#4 Sensitive Resources	Grassy Lake Wildlife area, Grassy Lake state natural area, and U.S. Fish & Wildlife Service owned Manthey, Doylestown, Ludwig Waterfowl production areas are located along the project route. The route passes near Grassy Lake Wildlife area, Grassy Lake state natural area, Manthey, Doylestown, and Ludwig Waterfowl production areas and associated wetlands.
#5 Cultural Resources	There are no known archaeological sites listed by WHS as occurring along this route.
Miscellaneous	There is a moderate probability of encountering rare species along this route. Gilbert Field and Higgins airports are located near the route.

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<u>Russell-McCue 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	2.8
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state-owned lands are crossed along the route. Lands owned by Rock County and currently in agricultural use are crossed where the line is adjacent to State Highway 14.
#4 Sensitive Resources	The majority of the line route follows state and county highways and the balance is located along agricultural field edges. No waterways or wetlands are identified along the route.
#5 Cultural Resources	The line passes a few historic properties identified in WHS records.
Miscellaneous	
<u>Monroe County-Council Creek 161-kV line</u>	
General Description	Construct line
Length (miles)	20
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	
#4 Sensitive Resources	Elroy-Sparta State Trail, Fort McCoy Barrens State Natural Area The existing line crosses a number of waterways and associated wetland areas, including: Farmers Valley Creek, Silver Creek, Chub Creek, Council Creek, South Fork Lemon weir River, and some unnamed streams.
#5 Cultural Resources	The Cultural Map of Wisconsin identifies historic sites within the cities of Tomah and Sparta, along with the Elroy-Sparta state trail.
Miscellaneous	There is a moderate probability of encountering endangered resources.
<u>Uprate Council Creek-Petenwell 138-kV line</u>	
General Description	Rebuild 138-kV line
Length (miles)	32
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state-owned lands are crossed along the route.
#4 Sensitive Resources	The line crosses Kreyer Creek, Lemonweir River, Beaver Creek, S. Branch Yellow River, Yellow River, the West Petenwell Ditch (trout stream) and numerous unnamed tributaries along with associated wetlands. Much of the route passes through currently undeveloped woodlands and wetlands.
#5 Cultural Resources	Wisconsin Historical Society information identifies several known archaeological sites in the area with one near Necedah crossed by the line route.
Miscellaneous	Due to the proximity of this route to Necedah National Wildlife Refuge, Meadow Valley State Wildlife Area, Mill Bluff State Park, and the numerous streams, wetlands, and undeveloped lands located along this route, there is a moderate to high likelihood of encountering rare species on this route.

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Paddock-Town Line Road 138-kV line rebuild	
General Description	rebuild of 138-kV line
Length (miles)	7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state-owned lands are crossed along the route.
#4 Sensitive Resources	The line crosses un-named tributaries to the Rock River and Racoon Creek and a few associated wetlands but much of the line is located in agricultural lands or along roads.
#5 Cultural Resources	The line passes the Baldwin Cemetery in the Town of Beloit and there are a few historic properties located near the line that are identified in the WHS records.
Miscellaneous	

Paddock-Shaw 69-kV line re-conductor	
General Description	re-conductor of 69-kV line
Length (miles)	7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state-owned lands are crossed along the route.
#4 Sensitive Resources	The Rock River, Racoon Creek, and a few associated wetlands are crossed by the line route. Much of the route is located across agricultural fields and other indeveloped lands. Approximately 1 1/2 miles of the route passes through urban residential areas in the City of Beloit.
#5 Cultural Resources	Cultural resources may be found in the area in the proximity of the rivers located in the screening area.
Miscellaneous	

Omro-Berlin 138-kV line rebuild	
General Description	rebuild of 138-kV line
Length (miles)	14.2
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The line crosses State of Wisconsin owned glacial habitat restoration area parcels along Highway 91 and also passes along the edge of the Berlin Fen State natural area. No other state owned lands are known.
#4 Sensitive Resources	The line passes near the Rush Lake Important Bird Area and passes adjacent to the Berlin Fen State Natural Area. The route crosses 8 unnamed tributaries to the Fox River and wetlands associated with the streams.
#5 Cultural Resources	The line passes several archaeological sites and historic properties identified in the WHS records.
Miscellaneous	

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Environmental Screening Information for Projects on Existing Right-of-Way

<b>Nicholson-Barland 138-kV line rebuild</b>	
General Description	rebuild of 138-kV line
Length (miles)	1.5
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The line does not cross public lands but does run near General Mitchell International Airport lands owned by Milwaukee County.
#4 Sensitive Resources	The line crosses a few isolated wetlands where it runs adjacent to a railroad corridor.
#5 Cultural Resources	No cultural resources are known along the line route.
Miscellaneous	
<b>Kenosha-Lakeview 138-kV line rebuild</b>	
General Description	rebuild of 138-kV line
Length (miles)	4.6
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state-owned lands are crossed along the route.
#4 Sensitive Resources	The line crosses Jerome Creek and a few isolated wetlands.
#5 Cultural Resources	No cultural resources are known along the line route.
Miscellaneous	
<b>Albers-Kenosha 138-kV line re-conductor</b>	
General Description	re-conductor of 138-kV line
Length (miles)	4.0
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands are identified along the project route.
#4 Sensitive Resources	The route passes through urban residential, commercial , and industrial settings. It does not cross any streams, wetlands, wooded areas, or other sensitive resource areas.
#5 Cultural Resources	One known archaeological site is located along the line route.
Miscellaneous	

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Environmental Screening Information for Projects on Existing Right-of-Way

<u>Straits-Pine River 69-kV rebuild</u>	
General Description	asset renewal of 69-kV line to 138-kV standards
Length (miles)	25.3
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	
#4 Sensitive Resources	The majority of the line is located in the Hiawatha National Forest. The route passes through extensive wetlands and wooded lands, runs adjacent to Chain and Platz lakes, and crosses numerous streams including the Pine River and its tributaries.
#5 Cultural Resources	
Miscellaneous	Based on the location of the line near the lake Michigan shoreline and tributary waterways there is a moderate to high probability of encountering archaeological sites along this route. There is a high probability of encountering rare species along this route.
<u>St. Lawrence-Hartford 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	5.2
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	
#5 Cultural Resources	The route crosses the West Branch Rubicon River and an unnamed Rubicon River tributary as well as associated wetlands. One archaeological site and one historical site is listed by WHS as occurring along this route.
Miscellaneous	There is a low probability of encountering rare species along this route.
<u>Redwood-First Avenue 69-kV underwater cable replacement</u>	
General Description	asset renewal of 69-kV line
Length (miles)	0.8
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The submarine portion of the line crosses Sturgeon Bay.
#5 Cultural Resources	Several historic sites are listed by WHS as occurring along this route.
Miscellaneous	There is a moderate probability of encountering rare species along this route due to the project crossing Sturgeon Bay.

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Environmental Screening Information for Projects on Existing Right-of-Way

Concord-Cooney 138-kV line rebuild	
General Description	asset renewal of 138-kV line
Length (miles)	10.9
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	Two major rivers - the Rock and Oconomowoc, are crossed by this project route, along with several tributaries and numerous significant wetlands.
#5 Cultural Resources	Several historic and archaeological sites are listed by WHS as occurring along this route.
Miscellaneous	There is a moderate to high probability of encountering rare species along this route due to the numerous waterways, wetlands, and other habitats.
Merrill Hills-Waukesha 138-kV line partial rebuild	
General Description	asset renewal of 138-kV line
Length (miles)	12.3
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses Brandy Brook (a trout stream) and runs adjacent to Pewaukee lakes, and also crosses several significant wetlands.
#5 Cultural Resources	Several historic and archaeological sites are listed by WHS as occurring along this route.
Miscellaneous	There is a moderate probability of encountering rare species along this route due to the waterways, wetlands, and other habitats. Waukesha airport and Waukesha Memorial Hospital heliport are located in the general project area.
North Point-Rocky Run 115-kV line rebuild	
General Description	asset renewal of 115-kV line
Length (miles)	3.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The route crosses an impoundment of the Wisconsin River.
#4 Sensitive Resources	The route crosses extensive wetlands and also crosses an impoundment of the Wisconsin River. Habitat for several rare animal and plant species has been identified along the route.
#5 Cultural Resources	WHS records identify several archaeological and historic resources located near the line route.
Miscellaneous	

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Environmental Screening Information for Projects on Existing Right-of-Way

<u>Concord-Rubicon 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	13
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	
	The route crosses numerous waterways including two crossings of the Rock River, Mud Run Creek, and numerous wetlands.
#5 Cultural Resources	Several historic sites are listed by WHS as occurring along this route.
Miscellaneous	There is a moderate probability of encountering rare species along this route due to the numerous waterways, wetlands, and other habitats.

  

<u>Rubicon-Butler Ridge 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	3.2
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses the Rubicon River near the upstream end of the Neosho Millpond. The majority of the route crosses through active agricultural lands.
#5 Cultural Resources	No cultural resources are known along the line route.
Miscellaneous	

  

<u>Butler Ridge-Hartford 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	2.5
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses Butler Creek and unnamed tributaries to Butler Creek and the Rubicon River and wetlands associated with the waterways.
#5 Cultural Resources	WHS records identify a few known archaeological sites in the vicinity of the project.
Miscellaneous	

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Environmental Screening Information for Projects on Existing Right-of-Way

<u>Dam Heights-Portage 69-kV line rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	23.5
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The route crosses portions of the State owned Pine Island Wildlife area and the Federally owned Leopold Wetland Management District.
#4 Sensitive Resources	Numerous wetlands and waterways exist along this route. One of these waterways is a trout stream.
#5 Cultural Resources	Several archaeological sites are crossed by this line.
Miscellaneous	Numerous rare plant and animal species are known to occur along this route.
<u>Darlington-Hillman 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	18.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands were identified along the line route.
#4 Sensitive Resources	The route crosses the Galena River, Blockhouse Creek, Wood Branch, Vinegar Branch, and 24 unnamed waterways with limited wetlands. The majority of the route is located across active agricultural fields and the likelihood of encountering rare species is low.
#5 Cultural Resources	WHS records do not identify any known archaeological sites along the line route.
Miscellaneous	
<u>Dyckesville-Sawyer 69-kV line rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	24.8
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The line route crosses numerous significant waterways including Sugar Creek, Olson Creek, the Red River, and the Ahnapee River. The route also crosses numerous wetlands of both large and small scale.
#5 Cultural Resources	
Miscellaneous	The route crosses several archeological sites according to WHS. Several rare species are known to exist along the project route.



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<u>Paris-Albers 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	12.4
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses several waterways including the Kilbourn Road Ditch, Pike Creek, and several relatively small wetlands.
#5 Cultural Resources	Several archaeological sites are listed by WHS as occurring along this route.
Miscellaneous	There is a low to moderate probability of encountering rare species along this route.
<u>Royster to Sycamore 69-kV line uprate</u>	
General Description	Uprate existing line
Length (miles)	3.4
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state-owned lands were identified along the route.
#4 Sensitive Resources	Starkweather Creek and associated wetlands are located along the line route.
#5 Cultural Resources	There is one known archaeological sites located along the line route.
Miscellaneous	A portion of the route is located along a bike trail.
<u>Sun Valley Tap-Oregon 69-kV line rebuild</u>	
General Description	Rebuild
Length (miles)	11
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A-Existing transmission line corridor.
#3 Public Lands	Hook Lake and Grass Lake Wildlife Area and Natural Area, USFWS land
#4 Sensitive Resources	Potential crossing of a few unnamed streams, limited wetlands, low potential to encounter threatened and endangered species.
#5 Cultural Resources	The Cultural Map of Wisconsin identifies no historic resources in the vicinity of the existing line
Miscellaneous	Storytown airport, Spiegel, Peterson, and Mc Manus Hoonch-na-shee-kaw fields are all located in the general project area.

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<u>Montello-Wautoma 69-kV line partial rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	20
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The route crosses State owned lands in the White River Fishery area, the French Creek Wildlife Area, and lands along the shore of the Fox River.
#4 Sensitive Resources	
#5 Cultural Resources	The route crosses numerous waterways and associated wetlands. No archeological sites are listed by WHS as occurring along this route.
Miscellaneous	There is a low probability of encountering rare species along this route.
<u>Danz-University 69-kV underground cable replacement</u>	
General Description	asset renewal of 69-kV line
Length (miles)	2.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	One large wetland complex is crossed by the existing line route.
#5 Cultural Resources	One archeological site is crossed by the route according to WHS.
Miscellaneous	Rare plants are known to occur along this route.
<u>Edgewood-St. Martins 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	7.2
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	Muskego Park Hardwoods is adjacent to the route
#4 Sensitive Resources	Several wetlands are crossed by the existing route.
#5 Cultural Resources	The route crosses several archaeological sites.
Miscellaneous	One historic occurrence of a rare plant occurs, as well as an existing rare plant community, along this route.

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<u>Edgewood-Mukwonago 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses the Mukwonago and Fox Rivers and significant wetlands.
#5 Cultural Resources	The route crosses several archaeological sites.
Miscellaneous	There is a high probability of encountering rare species along this route with the extensive wetlands and rare plant communities occurring along the route.
<u>Summit-Merrill Hills 138-kV line partial rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	14.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses several unnamed waterways and associated wetlands and runs adjacent to three lakes.
#5 Cultural Resources	Several archaeological sites are listed by WHS as occurring along this route.
Miscellaneous	There is a high probability of encountering rare species along this route due to the numerous waterways, wetlands, and other habitats.
<u>Hillman-Eden 69-kV line rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	28
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The line crosses the State owned Pecatonica State Trail near Belmont.
#4 Sensitive Resources	The route crosses numerous waterways including the Galena River, associated wetlands, and several unnamed trout streams.
#5 Cultural Resources	Several historic sites are listed by WHS as occurring along this route.
Miscellaneous	There is a high probability of encountering rare species along this route due to the numerous waterways, wetlands, and other habitats.

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<b>Colley Road-Brick Church 69-kV line rebuild</b>	
General Description	Rebuild 69-kV line
Length (miles)	20
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state-owned lands are crossed along the route.
#4 Sensitive Resources	The line route crosses Spring Brook, Little Turtle Creek (Outstanding/Exceptional Water Resource), a few unnamed streams and wetlands associated with the waterways. Most of the line route is located along public roads or in agricultural lands.
#5 Cultural Resources	The Cultural Map of Wisconsin identifies the Clinton Village Hall and the Jefferson Prairie Norwegian Settlement near the existing corridor.
Miscellaneous	Due to the primarily agricultural setting of this line, there is a moderate likelihood of encountering rare species on this route.
<b>Pioneer-Sobieski 69-kV line rebuild</b>	
General Description	asset renewal of 69-kV line
Length (miles)	10.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	Existing transmission line corridor adjacent to railroad corridor for the majority of its length.
#3 Public Lands	No State owned lands are known along the route but the line route does cross several parcels owned by Oconto County including Pioneer Memorial County park.
#4 Sensitive Resources	The route crosses The Oconto and Pensaukee Rivers, Tibbet, Kirchner, Brookside, and Spring Creeks and ten unnamed tributaries. Wetlands along the route are primarily associated waterways. The route crosses through extensive wooded areas. There is a moderate likelihood of encountering rare species along this line.
#5 Cultural Resources	WHS records identify several known archaeological sites near the line route.
Miscellaneous	
<b>Sobieski-Bayport 69-kV line rebuild</b>	
General Description	asset renewal of 69-kV line
Length (miles)	10.2
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	Existing transmission line corridor adjacent to railroad corridor.
#3 Public Lands	The Mountain Bay State Trail is crossed near the southern terminus of the line. No other state owned lands are known along the line route.
#4 Sensitive Resources	The route crosses the Suamico River, Little Suamico River, Haller Creek, and 12 unnamed tributaries along with wetlands primarily associated with the waterways. The route follows a railroad corridor for its entire length and passes through a variety of land uses including urban, agricultural, woodland and other undeveloped lands. Based on the variety of habitats present there is a moderate likelihood of encountering rare plant or animal species along the route.
#5 Cultural Resources	WHS records identify a few known archaeological sites near the line route.
Miscellaneous	

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<u>Oak Street-Highway V 69-kV line rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	6
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses several significant waterways including the Fox River and the East River, and associated wetlands.
#5 Cultural Resources	Several archaeological sites are crossed by this line.
Miscellaneous	Several rare plant species are known to have historically occurred on or near this route.
<u>Finger Road-Danz 69-kV line rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	3.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses Baird creek and a small wetland.
#5 Cultural Resources	Several historic sites are listed by WHS as occurring along this route.
Miscellaneous	There is a low to moderate potential of encountering rare species along this route due to the generally urban setting.
<u>Convert Forest Junction - Howards Grove and part of Howards Grove-Holland 138-kV lines to 345-kV operation</u>	
General Description	Convert 138-kV lines to 345-kV operation
Length (miles)	51
#1 Screening Area (Sq. mi.- length X width)	Existing transmission line corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The line does not cross any large public lands.
#4 Sensitive Resources	The line crosses the Pigeon, Sheboygan, Manitowoc, Mullet, Onion, Meeme, and Branch (OEW) rivers, Mud Creek, and associated wetlands. The Brillion wildlife area is near the line route.
#5 Cultural Resources	There are a few known archaeological sites identified in the WHS records near or along the line route.
Miscellaneous	Sheboygan County Municipal airport is near the line route.

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<u>Plover-Whiting 115-kV line rebuild</u>	
General Description	asset renewal of 115-kV line
Length (miles)	5.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses the Little Plover River, an exceptional resource water and trout stream, the Plover River Flowage, and significant floodplain wetlands.
#5 Cultural Resources	The route crosses several archaeological sites including several burial mounds.
Miscellaneous	There is a high probability of encountering rare species along this route, as many rare species occurrences are documented throughout the route, with significant undisturbed wetland and forest habitats.
<u>West Middleton-Stagecoach 69-kV underground cable replacement</u>	
General Description	Reconductor 69-kV line
Length (miles)	4.28
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses Black Earth Creek, an outstanding resource water, and its associated wetlands, as well as several smaller tributaries.
#5 Cultural Resources	No archeological sites are listed by WHS as occurring along this route.
Miscellaneous	There is a high probability of encountering rare species along this route.
<u>Goodman-Caldron Falls 69-kV line rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	21.3
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The existing route crosses three trout streams, two of which are Outstanding or Exceptional Resource Waters. In addition the Peshtigo River near Caldron Falls and two other streams and associated wetlands are crossed by the route. A number of rare species are identified as occurring along and adjacent to the route.
#5 Cultural Resources	No cultural resources were identified along the route. However, the proximity of the route to a number of waterways raises the possibility of unknown cultural resources occurring.
Miscellaneous	

Table RS-4  
Environmental Screening Information for Projects on Existing Right-of-Way

<u>New Holstein-Custer 69-kV line rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	21.8 miles
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses as many as 15 creeks and associated wetlands.
#5 Cultural Resources	The route crosses several archeological sites according to WHS.
Miscellaneous	There is a moderate likelihood of encountering rare species on this route, based on several known occurrences in and adjacent to the project route.
<u>Lodestar-Erdman 69-kV underground cable replacement</u>	
General Description	asset renewal of 69-kV line
Length (miles)	5.3
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses the Pigeon River, but does not cross any significant wetlands.
#5 Cultural Resources	No archeological sites are listed by WHS as occurring along this route.
Miscellaneous	There are historic occurrences of several rare plant species along this route.
<u>Straits-McGulpin 138-kV underwater cable replacement</u>	
General Description	asset renewal of 138-kV line
Length (miles)	6.2
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The overhead portion of the route crosses wooded areas, while the underground portion crosses under Lake Michigan to McGulpin.
#5 Cultural Resources	There is a moderate - high probability of encountering archaeological resources along the near-shore area of Lake Michigan.
Miscellaneous	There is a high probability of encountering rare species along this route due to the waterways, wetlands, and other habitats.

Table RS-4  
Environmental Screening Information for Projects on Existing Right-of-Way

<u>Cardinal-Blount 138-kV line</u>	
General Description	Construct 138-kV line
Length (miles)	5
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The existing line parallels a recreational trail and golf course.
#4 Sensitive Resources	This line is primarily through a highly urbanized area, much of the existing line is underground. There are a few small wetlands and unnamed streams near the existing overhead portions east of West Middleton.
#5 Cultural Resources	The Cultural Map of Wisconsin identifies a number of historic resources in the vicinity of the existing corridor.
Miscellaneous	
<u>Butte De Morts-Neevin 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	3
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	
#5 Cultural Resources	The route crosses two unnamed creeks and associated wetlands. One archaeological site is listed by WHS as occurring along this route.
Miscellaneous	There is a low probability of encountering rare species along this route due to the numerous waterways, wetlands, and other habitats.
<u>Mears Corners-Sunset Point 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	4.1
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses several unnamed creeks and associated wetlands.
#5 Cultural Resources	No cultural resources are identified along this route, though one archaeological site is in close proximity.
Miscellaneous	There is a moderate probability of encountering rare species along this route due to the waterways and wetlands.



Table RS-4  
Environmental Screening Information for Projects on Existing Right-of-Way

<u>Woodenshoe-Mears Corners 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	2.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses four unnamed waterways.
#5 Cultural Resources	No historic sites are listed by WHS as occurring along this route.
Miscellaneous	There is a low probability of encountering rare species along this route.

<u>Wesmark-Manrap 69-kV line rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	19.7
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The line route crosses a number of significant waterways including the Manitowoc River.
#5 Cultural Resources	The route crosses several archeological sites according to WHS.
Miscellaneous	There is a low to moderate possibility of encountering rare species on this route, based on several known occurrences in and adjacent to the project route.

<u>Neevin-Woodenshoe 138-kV line rebuild</u>	
General Description	asset renewal of 138-kV line
Length (miles)	3.4
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	The route crosses six small, unnamed waterways and one wetland.
#5 Cultural Resources	No archaeological or historic sites are listed by WHS as occurring along this route.
Miscellaneous	There is a low probability of encountering rare species along this route.

Table RS-4  
Environmental Screening Information for Projects on Existing Right-of-Way

North Appleton-Butte de Morts 138-kV line rebuild	
General Description	asset renewal of 138-kV line
Length (miles)	11.9
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	
#5 Cultural Resources	The route crosses numerous waterways and associated wetlands. No archeological sites are listed by WHS as occurring along this route.
Miscellaneous	There is a low probability of encountering rare species along this route.

  

Erdman-Edgewater 69-kV underground cable replacement	
General Description	asset renewal of underground 69-kV line
Length (miles)	0.65 (Underground portion only)
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	No state owned lands identified on the route.
#4 Sensitive Resources	One unnamed creek is crossed (underneath) by this route.
#5 Cultural Resources	No archaeological or historic sites are listed by WHS as occurring along this route.
Miscellaneous	There is a low probability of encountering rare species along this route.

  

McCue-Lamar 69-kV double-circuit line	
General Description	Add second circuit
Length (miles)	3.5
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor along railroad.
#3 Public Lands	No state-owned lands were identified along the route.
#4 Sensitive Resources	There are no significant waterways or wetlands crossed along the route.
#5 Cultural Resources	There are no archaeological sites located along the line route identified in the WHS database.
Miscellaneous	There is a low likelihood of encountering rare species on this route.

Table RS-4  
Environmental Screening Information for Projects on Existing Right-of-Way

West Middleton - Pheasant Branch 69-kV line rebuild	
General Description	asset renewal of 69-kV line
Length (miles)	5
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	Limited publically owned lands are located along the line route.
#4 Sensitive Resources	Black Earth Creek (an outstanding exceptional resource water), Pheasant Branch and scattered wetlands are present along the project route.
#5 Cultural Resources	The WHS records identify a few archaeological sites along the line route.
Miscellaneous	There is a low - moderate probability of encountering rare species. This line passes primarily through urban lands.

**NOTES:**

- |                                    |                                                                                                                            |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| #1 Screening Area Width:           |                                                                                                                            |
| #2 Corridor Sharing Opportunities: | For projects on existing rights-of-way the screening area consists of the current location and lands immediately adjacent. |
| #3 Public Lands:                   | Identify dominant corridor types.                                                                                          |
| #4 Sensitive Resources:            | Identify properties by name.                                                                                               |
|                                    | List major stream crossings, significant topographic features, designated natural areas, etc.                              |
| #5 Cultural Resources:             | List resources shown on the statewide cultural resources map.                                                              |