

*Table RS-4
Environmental Screening Information for New Lines, Rebuilds/Reconductors on Existing Right-of-Way*

<u>Berlin-Wautoma 69-kV line partial rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	22.9
#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	The route crosses several waterways including the Fox River, several unnamed streams, and associated wetlands.
#5 Cultural Resources	One known archaeological site is listed by WHS as occurring along this route.
Miscellaneous	There is a moderate probability of encountering rare species along this route.
<u>Whitcomb-Deer Trail 69-kV line partial rebuild</u>	
General Description	asset renewal of 69-kV line
Length (miles)	25.8
#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 Wauwasha State Trail and the Mountain Bay Recreational Trail.
#4 Sensitive Resources	The route crosses numerous waterways listed as Outstanding or Exceptional (OER) Resource waters as well as numerous trout streams. Sensitive resources are extensive along this route, as OERs are crossed 8 times.
#5 Cultural Resources	One archaeological site is listed by WHS as occurring along this route.
Miscellaneous	Because of the sensitive resource waters there is a high probability of encountering rare species along this route.

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Nine Mile-Roberts 69-kV line partial rebuild		
	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.
Rio-North Randolph 69-kV line partial rebuild		
	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	The route crosses the State owned Peter Helland Wildlife area.
#4	Sensitive Resources	The route crosses numerous waterways including Jennings Creek (a trout stream), the North Branch Duck Creek, and associated wetlands.
#5	Cultural Resources	One archaeological site is listed by WHS as occurring along this route.
	Miscellaneous	There is a high probability of encountering rare species along this route.

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Spring Green-Stagecoach 69-kV line partial rebuild	
General Description	asset renewal of 69-kV line
Length (miles)	24.6
#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	Arena Pines Sand Barrens State Natural Area is identified along the route. The route also crosses State owned lands in the Black Earth Creek Fishery area and the Lower Wisconsin Riverway.
#5 Cultural Resources	The route crosses numerous waterways including several trout streams. Named waterways include The Wisconsin River, Blue Mounds Creek, Black Earth Creek, Halfway Prairie Creek, and Vermont Creek. In addition, Garfoot Creek, an Exceptional Resource Water, is crossed near Stage Coach SW.
Miscellaneous	Several archaeological sites are listed by WHS as occurring along this route. There is a very high probability of encountering rare species along this route due to the numerous waterways, wetlands, and other habitats.
Brodhead-South Monroe 69-kV line rebuild	
General Description	Rebuild
Length (miles)	18
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	None identified
#4 Sensitive Resources	The existing line crosses a number of streams.
#5 Cultural Resources	The Cultural Map of Wisconsin identifies a number of historic sites in and around the City of Monroe.
Miscellaneous	There is a low potential for encountering endangered resources.
Sunset Point-Pearl Avenue 69-kV line rebuild	
General Description	Rebuild a portion of the line
Length (miles)	2.37
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	Riverside Cemetery
#4 Sensitive Resources	The existing line is adjacent to the Fox River, and passes through a few wetland areas.
#5 Cultural Resources	The Cultural Map of Wisconsin identifies several historic sites located in the vicinity of the existing corridor along the Fox River.
Miscellaneous	The existing line passes through primarily urbanized areas.

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Sycamore-East Towne 69-kV underground cable replacement		
	General Description	asset renewal of 69-kV underground line
	Length (miles)	0.45 miles of underground cable
#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 majority of the route crosses a wetland complex along Starkweather creek but the line is located under a city street in this area.
#5	Cultural Resources	No known archaeological sites are listed by WHS as occurring along the underground segment of the route.
	Miscellaneous	There is a low probability of encountering rare species along this route.
Canal-Dunn Road 69-kV line		
	General Description	Construct line
	Length (miles)	7.64
#1	Screening Area (Sq. mi.- length X width)	Existing corridor
#2	Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3	Public Lands	None identified
#4	Sensitive Resources	The existing line crosses Sturgeon Bay and one unnamed stream.
#5	Cultural Resources	There is low probability of encountering endangered resources.
	Miscellaneous	
Dane-Dam Heights 69-kV line partial rebuild		
	General Description	Rebuild 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	Lodi Marsh Wildlife area is located along the route and Lodi Marsh
#4	Sensitive Resources	The Wisconsin River, Spring Creek, and several unnamed
#5	Cultural Resources	There are several known archaeological sites located along the line
	Miscellaneous	There is a moderate to high likelihood of encountering rare species
Monroe County-Council Creek 161-kV line		
	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	Elroy-Sparta State Trail, Fort McCoy Barrens State Natural Area
#4	Sensitive Resources	wetland areas, including: Farmers Valley Creek, Silver Creek, Chub
#5	Cultural Resources	cities of Tomah and Sparta, along with the Elroy-Sparta state trail.
	Miscellaneous	resources.

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Uprate Council Creek-Petenwell 138-kV line

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.
#5 Cultural Resources	Wisconsin Historical Society information identifies several known
Miscellaneous	Due to the proximity of this route to Necedah National Wildlife

Concord-Rubicon 138-kV line rebuild

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 Rock River, Mud Run Creek, and numerous wetlands.
#5 Cultural Resources	route.
Miscellaneous	this route due to the numerous waterways, wetlands, and other

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M38-Atlantic 69-kV line rebuild	
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	with associated wetlands and tributaries.
#5 Cultural Resources	rivers located in the screening area.
Miscellaneous	
Sun Valley Tap-Oregon 69-kV line rebuild	
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	USFWS land
#4 Sensitive Resources	potential to encounter threatened and endangered species.
#5 Cultural Resources	the vicinity of the existing line
Miscellaneous	Storytown airport, Spiegel, Peterson, and Mc Manus Hoonch-na-
Edgewood-St. Martins 138-kV line rebuild	
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	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	wetlands.
#5	Cultural Resources	The route crosses several archaeological sites.
	Miscellaneous	route with the extensive wetlands and rare plant communities
<u>Concord-Cooney 138-kV line rebuild</u>		
	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	project route, along with several tributaries and numerous
#5	Cultural Resources	occurring along this route.
	Miscellaneous	along this route due to the numerous waterways, wetlands, and
<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	unnamed Rubicon River tributary as well as associated wetlands.
#5	Cultural Resources	occurring along this route.
	Miscellaneous	route.

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Redwood-First Avenue 69-kV underwater cable replacement		
	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	route.
	Miscellaneous	this route due to the project crossing Sturgeon Bay.
Butte De Morts-Neevin 138-kV line rebuild		
	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	The route crosses two unnamed creeks and associated wetlands.
#5	Cultural Resources	route.
	Miscellaneous	route due to the numerous waterways, wetlands, and other habitats.
Dyckesville-Sawyer 69-kV line rebuild		
	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	Sugar Creek, Olson Creek, the Red River, and the Ahnapee River.
#5	Cultural Resources	The route crosses several archeological sites according to WHS.
	Miscellaneous	Several rare species are known to exist along the project route.

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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	to Pewaukee lakes, and also crosses several significant wetlands.
#5	Cultural Resources	occurring along this route.
	Miscellaneous	this route due to the waterways, wetlands, and other habitats.
Mears Corners-Sunset Point 138-kV line rebuild		
	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	wetlands.
#5	Cultural Resources	archaeological site is in close proximity.
	Miscellaneous	this route due to the waterways and wetlands.
Woodenshoe-Mears Corners 138-kV line rebuild		
	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	route.

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Wesmark-Manrap 69-kV line rebuild		
	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 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
Oak Street-Highway V 69-kV line rebuild		
	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	River and the East River, and associated wetlands.
#5	Cultural Resources	Several archaeological sites are crossed by this line.
	Miscellaneous	on or near this route.
Finger Road-Danz 69-kV line rebuild		
	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	route.
	Miscellaneous	along this route due to the generally urban setting.

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Neevin-Woodenshoe 138-kV line rebuild		
	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	along this route.
	Miscellaneous	route.
Montello-Wautoma 69-kV line partial rebuild		
	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	area, the French Creek Wildlife Area, and lands along the shore of
#4	Sensitive Resources	The route crosses numerous waterways and associated wetlands.
#5	Cultural Resources	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.
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.

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Danz-University 69-kV underground cable replacement	
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	
#5 Cultural Resources	One large wetland complex is crossed by the existing line route.
Miscellaneous	One archeological site is crossed by the route according to WHS. Rare plants are known to occur along this route.
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.
Waukesha-Summit 138-kV line partial rebuild	
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 archeological 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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Colley Road-Brick Church 69-kV line rebuild		
	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.
Dam Heights-Portage 69-kV line rebuild		
	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.

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Hillman-Eden 69-kV line rebuild		
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.
Paris-Albers 138-kV line rebuild		
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.
Plover-Whiting 115-kV line rebuild		
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.

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Environmental Screening Information for New Lines, Rebuilds/Reconductors on Existing Right-of-Way

Royster to Sycamore 69-kV line uprate	
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.
West Middleton-Stagecoach 69-kV underground cable replacement	
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.
Goodman-Caldron Falls 69-kV line rebuild	
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	
#5 Cultural 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. 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	

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New Holstein-Custer 69-kV line rebuild	
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	
#5 Cultural Resources	The route crosses as many as 15 creeks and associated wetlands.
Miscellaneous	The route crosses several archeological sites according to WHS. There is a moderate likelihood of encountering rare species on this route, based on several known occurrences in and adjacent to the project route.
Lodestar-Erdman 69-kV underground cable replacement	
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.
Straits-McGulpin 138-kV underwater cable replacement	
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	
#5 Cultural Resources	The overhead portion of the route crosses wooded areas, while the underground portion crosses under Lake Michigan to McGulpin. 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.

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Environmental Screening Information for New Lines, Rebuilds/Reconductors on Existing Right-of-Way

Cardinal-Blount 138-kV line	
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	
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.
Doylestown-Rio Pumping Station 69-kV rebuild	
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.

Table RS-4

Environmental Screening Information for New Lines, Rebuilds/Reconductors on Existing Right-of-Way

Kirkwood - Trienda 138-kV partial rebuild	
General Description	asset renewal of 138-kV line (str 796-812)
Length (miles)	1.8
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The majority of the segment is located on Pine Island Wildlife area and Pine Island State Natural Area both owned by the Wisconsin Department of Natural Resources.
#4 Sensitive Resources	The route passes through a designated state natural area, a state wildlife area, and crosses the Wisconsin River and associated wetlands.
#5 Cultural Resources	There are no known archaeological sites listed by WHS as occurring along this route, however, the location along the Wisconsin River may contain previously un-identified sites.
Miscellaneous	There is a very high probability of encountering both terrestrial and aquatic rare species along this route.
Kansas-Harbor 138-kV line reconductor	
General Description	Reconductor underground portion of existing 138-kV line
Length (miles)	5.8
#1 Screening Area (Sq. mi.- length X width)	Existing corridor
#2 Corridor Sharing Opportunities	N/A – existing transmission line corridor.
#3 Public Lands	The majority of the existing line is located below public roads.
#4 Sensitive Resources	The line route crosses under the Kinnikinnic River in the Milwaukee Harbor.
#5 Cultural Resources	Due to the location of the line primarily under public roads, there is a low probability of identifying intact archaeological sites in the vicinity of the corridor.
Miscellaneous	There is a low probability of encountering rare species. This line passes through primarily developed urban areas.

Table RS-4

Environmental Screening Information for New Lines, Rebuilds/Reconductors on Existing Right-of-Way

Straits-Pine River 69-kV rebuild	
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	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.
Miscellaneous	There is a high probability of encountering rare species along this route.
Convert Forest Junction - Howards Grove and part of Howards Grove-Holland 138-kV lines to 345-kV operation	
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	
#5 Cultural Resources	The line crosses the Pigeon, Sheboygan, Manitowoc, Mullet, Onion, Meeme, and Branch (OEWB) rivers, Mud Creek, and associated wetlands. The Brillion wildlife area is near the line route. 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.
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.

Table RS-4

Environmental Screening Information for New Lines, Rebuilds/Reconductors on Existing Right-of-Way

NOTES:

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|----|---------------------------------|--|
| #1 | Screening Area Width: | For projects on existing rights-of-way the screening area consists of the current location and lands immediately adjacent. |
| #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. |