

## **APPENDIX A - DESCRIPTION OF TRANSMISSION LINE STRUCTURE**

For most of the Project, the Utilities propose to utilize single-pole structures that would have a typical height of 150 feet (Figure A-1). The structures would support the new 345 kV high-voltage transmission line with three current-carrying phases made up of aluminum conductors in addition to two overhead shield wires for the purpose of lightning protection and protective relay communications. Typical spans of the transmission line structures would range from 500 to 1,200 feet.

Depending on the final route, the new 345 kV line may be co-located with existing transmission lines. The typical double-circuited structure is shown in Figure A-2.

Additionally, there may be locations along the route that utilize different structure designs and/or ROW for purposes of reducing potential impacts. The 345/345-designed structures for the Mississippi River crossing are proposed as low-profile structures with a design height of approximately 75 feet to reduce the likelihood of avian collisions. This lower, wider profile would require a 260-foot-wide ROW (Figure A-3). The structures would be horizontal-symmetrical H-frame structures on concrete foundations with a typical span length of approximately 500 feet and would consist primarily of tubular steel H-frame structures. To raise the height of the conductor to cross the Mississippi River, one transition structure in the Refuge would be required between the low-profile structures in the Refuge and the crossing structure. This structure would have a proposed height of approximately 90 feet, and the span length would be 500 feet, similar to the remainder of the line in this area. The crossing structures on the banks of the Mississippi River would also consist primarily of tubular steel H-frame structures and would be constructed to an approximate height of 196 feet.

The crossing structure height would account for the required distance above the navigable river channel, as defined by U.S. Coast Guard requirements.

Figure A-1: Typical 345 kV Single-Circuit Monopole Structure

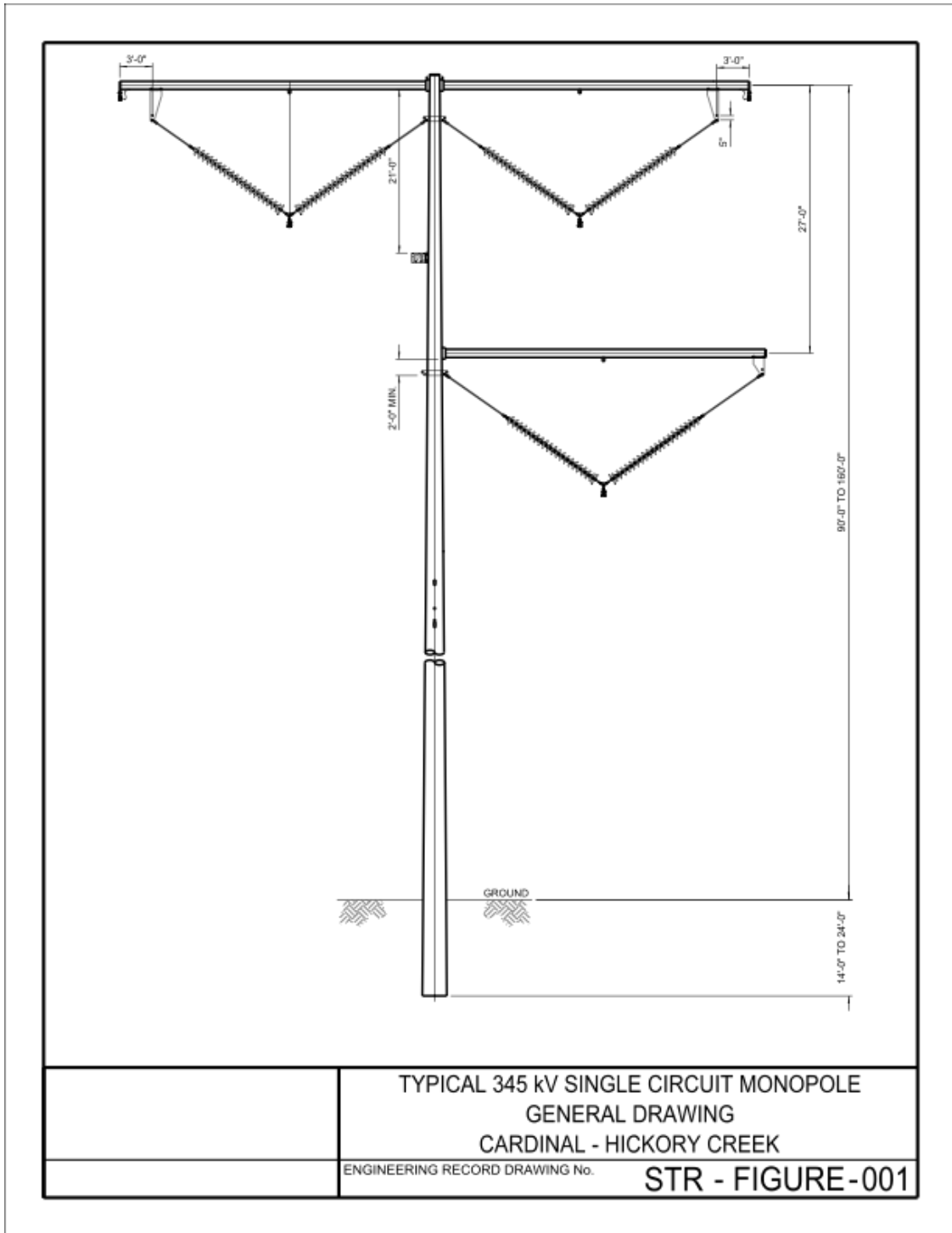


Figure A-2: Typical 345 kV/161 kV or 345/138 kV Double-Circuit Monopole

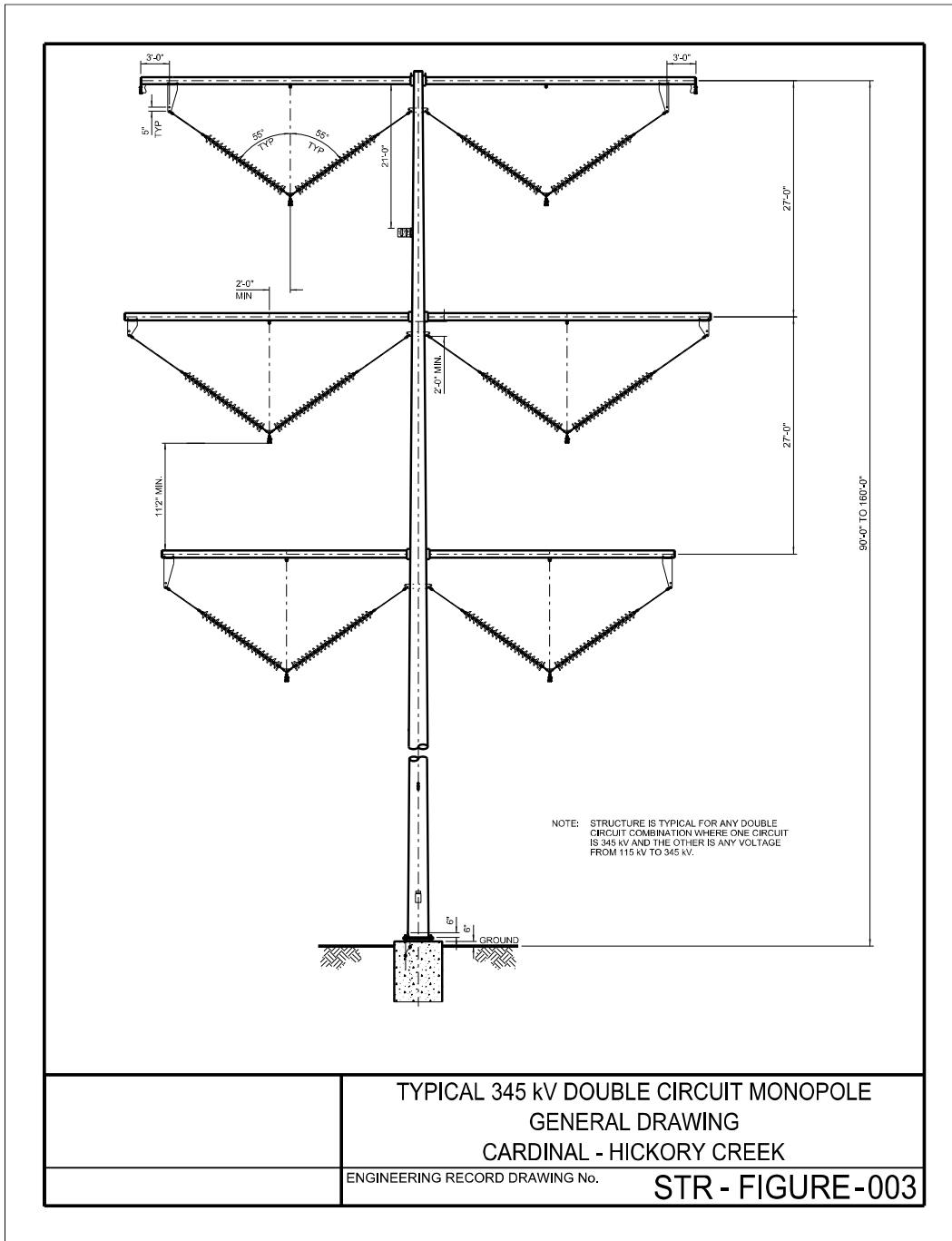
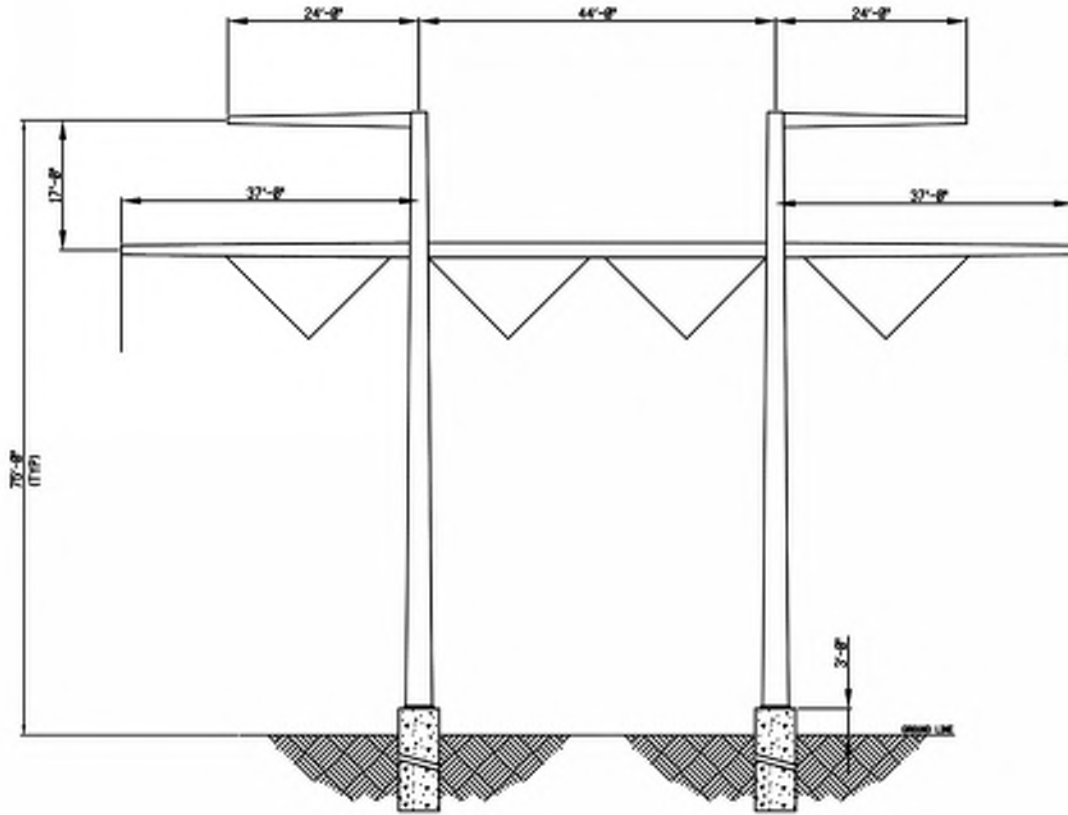


Figure A-3: ITC Low-Profile 345/345 kV Double-Circuit Structure for the River Crossing



## **APPENDIX B - LIST OF DATA SOURCES**

Table B-1: Data Sources

Data Type	Agency	URL Location/Source
<b>PROJECT STUDY AREA CHARACTERISTICS</b>		
<b>Land Characteristics</b>		
Physiography	USGS and NPS	<a href="http://pubs.usgs.gov/imap/i2871/">http://pubs.usgs.gov/imap/i2871/</a> <a href="http://www2.nature.nps.gov/geology/">http://www2.nature.nps.gov/geology/</a>
Geology	USGS	<a href="http://mrddata.usgs.gov/geology/us/">http://mrddata.usgs.gov/geology/us/</a>
Land Cover	USGS NLCD	<a href="http://www.mrlc.gov/nlcd11_data.php">http://www.mrlc.gov/nlcd11_data.php</a>
<b>Environmentally Sensitive Areas</b>		
Sensitive Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
Wetlands	USFWS NWI	<a href="https://www.fws.gov/wetlands/Data/Data-Download.html">https://www.fws.gov/wetlands/Data/Data-Download.html</a>
Commercial/Industrial Areas	WETT	Aerial photograph interpretation and field reconnaissance
<b>Cultural Resources</b>		
Recorded National Register Listed Sites	NRHP (NPS)	<a href="http://npgallery.nps.gov/nrhp/Download?path=/nareg/docs/All_Data.html">http://npgallery.nps.gov/nrhp/Download?path=/nareg/docs/All_Data.html</a>
Recorded Archaeological Sites	ATC	Data supplied by ATC from SHPO
<b>Hydrologic Data</b>		
Rivers and Streams	USGS	<a href="http://nhd.usgs.gov/">http://nhd.usgs.gov/</a>
Open Water (Reservoirs, Lakes, Ponds)	USGS	<a href="http://nhd.usgs.gov/">http://nhd.usgs.gov/</a>
FEMA 100-year Floodplains	FEMA	<a href="http://msc.fema.gov/portal">http://msc.fema.gov/portal</a>
Outstanding and Exceptional Waters	WDNR, IDNR	<a href="http://dnr.wi.gov/topic/SurfaceWater/orwerw.html">http://dnr.wi.gov/topic/SurfaceWater/orwerw.html</a> <a href="http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Water-Quality-Standards/Antidegradation">http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Water-Quality-Standards/Antidegradation</a>

<b>Table B-1: Data Sources</b>		
<b>Data Type</b>	<b>Agency</b>	<b>URL Location/Source</b>
<b>Transportation Corridors and Sites</b>		
Major Highways (Federal, State, Public)	WDOT, IDOT	<a href="http://www.iowadot.gov/gis/downloads/default.aspx">http://www.iowadot.gov/gis/downloads/default.aspx</a> <a href="http://wisconsin.gov/Pages/doing-business/local-government/wislr/default.aspx">http://wisconsin.gov/Pages/doing-business/local-government/wislr/default.aspx</a>
Railroads	WDOT, IDOT	<a href="http://www.iowadot.gov/gis/downloads/default.aspx">http://www.iowadot.gov/gis/downloads/default.aspx</a> <a href="http://wisconsin.gov/Pages/doing-business/local-government/wislr/default.aspx">http://wisconsin.gov/Pages/doing-business/local-government/wislr/default.aspx</a>
<b>Airstrips</b>		
Private Airstrips	FAA, ATC	<a href="http://www.faa.gov/airports/airport_safety/airport_data_5010/">http://www.faa.gov/airports/airport_safety/airport_data_5010/</a> and aerial photograph interpretation, public input
FAA-registered Airports/Heliports	FAA	<a href="http://www.faa.gov/airports/airport_safety/airport_data_5010/">http://www.faa.gov/airports/airport_safety/airport_data_5010/</a> FAA MS Excel database incorporated into GIS Aerial photograph interpretation and field reconnaissance
<b>Socioeconomic Characteristics</b>		
Population Data	US Census Bureau	<a href="http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml">http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml</a>
Unemployment Data	US Census Bureau, BLS	<a href="http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml">http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml</a> <a href="http://data.bls.gov/timeseries/LNS14000000">http://data.bls.gov/timeseries/LNS14000000</a>
Racial/Ethnic Data	US Census Bureau, CEQ	<a href="http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml">http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml</a> <a href="http://energy.gov/nepa/downloads/environmental-justice-guidance-under-nepa-ceq-1997">http://energy.gov/nepa/downloads/environmental-justice-guidance-under-nepa-ceq-1997</a>
<b>Recreational Resources</b>		
Sensitive Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)



<b>Table B-1: Data Sources</b>		
<b>Data Type</b>	<b>Agency</b>	<b>URL Location/Source</b>
<b>Existing Transmission Lines</b>		
Existing Transmission Lines	ATC, ITC, DPC	Existing datasets from utilities and aerial photograph interpretation and field reconnaissance
Existing Pipelines (Oil, Gas, Water, etc.)	ATC	Existing datasets from utilities and aerial photograph interpretation and field reconnaissance
<b>BACKGROUND MAPPING</b>		
<b>Aerial Photography</b>		
2015 National Agriculture Imagery Program, County Mosaics	USDA-NRCS	<a href="http://datagateway.nrcs.usda.gov/GatewayHome.html">http://datagateway.nrcs.usda.gov/GatewayHome.html</a>
<b>Topographic Maps</b>		
1:24,000 Scale 7.5' Quadrangle Topographic Maps	USGS	<a href="http://store.usgs.gov/b2c_usgs/usgs/maplocator/(xcm=r3standardpitrex_prd&amp;layout=6_1_61_48&amp;uiarea=2&amp;ctype=areaDetails&amp;carearea=%24ROOT)/.do">http://store.usgs.gov/b2c_usgs/usgs/maplocator/(xcm=r3standardpitrex_prd&amp;layout=6_1_61_48&amp;uiarea=2&amp;ctype=areaDetails&amp;carearea=%24ROOT)/.do</a>
<b>ROUTING OPPORTUNITIES</b>		
<b>Existing Infrastructure</b>		
Existing Transmission Lines	ATC, ITC, DPC	Existing datasets from utilities and aerial photograph interpretation and field reconnaissance
Existing Highways/Public Roadways (Federal, State, Public)	WDOT, IDOT	<a href="http://www.iowadot.gov/gis/downloads/default.aspx">http://www.iowadot.gov/gis/downloads/default.aspx</a> <a href="http://wisconsin.gov/Pages/doing-bus/local-gov/wislr/default.aspx">http://wisconsin.gov/Pages/doing-bus/local-gov/wislr/default.aspx</a>
Existing Railroads	WDOT, IDOT	<a href="http://www.iowadot.gov/gis/downloads/default.aspx">http://www.iowadot.gov/gis/downloads/default.aspx</a> <a href="http://wisconsin.gov/Pages/doing-bus/local-gov/wislr/default.aspx">http://wisconsin.gov/Pages/doing-bus/local-gov/wislr/default.aspx</a> <a href="http://www.dot.state.mn.us/ofrw/maps/MNRailMap.pdf">http://www.dot.state.mn.us/ofrw/maps/MNRailMap.pdf</a>
Existing Pipelines (Oil, Gas, Water, etc.)	ATC	Existing datasets from utilities and aerial photograph interpretation and field reconnaissance

Table B-1: Data Sources

Data Type	Agency	URL Location/Source
Trails	WDNR	<a href="http://dnr.wi.gov/maps/gis/databureau.html">http://dnr.wi.gov/maps/gis/databureau.html</a>
<b>Land Management</b>		
Property/Tract Lines	ATC, County LIO's	Existing datasets from utilities
<b>ROUTING CONSTRAINTS</b>		
Agricultural Lands of Statewide Importance	USDA NRCS	<a href="https://gdg.sc.egov.usda.gov/">https://gdg.sc.egov.usda.gov/</a>
Airport Obstruction/Free Zones/Airport Approach Flight Paths	FAA, ATC, ENValue	Digitized using FAA runway data and dimensions for OFZ's
Private Airstrips	FAA, ATC	<a href="http://www.faa.gov/airports/airport_safety/airport_data_5010/">http://www.faa.gov/airports/airport_safety/airport_data_5010/</a> and aerial photograph interpretation, public input
FAA-registered Airports/Heliports	FAA	<a href="http://www.faa.gov/airports/airport_safety/airport_data_5010/">http://www.faa.gov/airports/airport_safety/airport_data_5010/</a> FAA MS Excel database incorporated into GIS Aerial photograph interpretation and field reconnaissance
Recorded Archaeological Sites	ATC	Data supplied by ATC from SHPO
Center Pivot Irrigation	ATC, ENValue	Aerial photograph interpretation and field reconnaissance
Confined Animal Feeding Operations (CAFO)	WDNR, IDNR	<a href="https://programs.iowadnr.gov/nrgislibx/">https://programs.iowadnr.gov/nrgislibx/</a> <a href="http://dnr.wi.gov/topic/AgBusiness/data/CAFO/">http://dnr.wi.gov/topic/AgBusiness/data/CAFO/</a>
Conservation Easements	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)

**Table B-1: Data Sources**

<b>Data Type</b>	<b>Agency</b>	<b>URL Location/Source</b>
County Forests and Forest Management Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
County Parks and Recreation Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
Designated or Registered National Historic Districts and Sites	NRHP (NPS)	<a href="http://npgallery.nps.gov/nrhp/Download?path=/nareg/docs/All_Data.html">http://npgallery.nps.gov/nrhp/Download?path=/nareg/docs/All_Data.html</a>
Day Cares	IDHS, WDCF	<a href="http://ccmis.dhs.state.ia.us/ClientPortal/ProviderSearch.aspx">http://ccmis.dhs.state.ia.us/ClientPortal/ProviderSearch.aspx</a> <a href="http://dcf.wisconsin.gov/childcare/">http://dcf.wisconsin.gov/childcare/</a>
Existing Residential Areas	ATC, ENValue, County LIOs	Aerial photograph interpretation and county zoning data
Federal, State, and County Land	ATC, County LIOs	Parcel data maintained by County LIOs and obtained by ATC
Floodways/Floodplains	FEMA	<a href="http://msc.fema.gov/portal">http://msc.fema.gov/portal</a>
Geologically Unstable or Highly Erosive Areas	USGS	<a href="http://mrdata.usgs.gov/geology/us/">http://mrdata.usgs.gov/geology/us/</a>
Hospitals	USGS-GNIS, IDNR, WHA	<a href="https://programs.iowadnr.gov/nrgislibx/">https://programs.iowadnr.gov/nrgislibx/</a> <a href="http://viewer.nationalmap.gov/basic/">http://viewer.nationalmap.gov/basic/</a> <a href="http://www.wha.org/wisconsin-hospitals.aspx">http://www.wha.org/wisconsin-hospitals.aspx</a>
Nursing Homes	USGS-GNIS	<a href="http://viewer.nationalmap.gov/basic/">http://viewer.nationalmap.gov/basic/</a>

**Table B-1: Data Sources**

<b>Data Type</b>	<b>Agency</b>	<b>URL Location/Source</b>
Landfills/Dumps	WDNR, IDNR	<a href="http://www.iowadnr.gov/Environmental-Protection/Land-Quality/Solid-Waste/Solid-Waste-Permitting/Landfills">http://www.iowadnr.gov/Environmental-Protection/Land-Quality/Solid-Waste/Solid-Waste-Permitting/Landfills</a> <a href="http://dnr.wi.gov/topic/Landfills/">http://dnr.wi.gov/topic/Landfills/</a>
Memorial Parks/Cemeteries	USGS-GNIS	<a href="http://seamless.usgs.gov/">http://seamless.usgs.gov/</a>
Mines, Quarries, and Gravel Pits	WDNR	<a href="http://dnr.wi.gov/topic/Mines/">http://dnr.wi.gov/topic/Mines/</a> <a href="https://programs.iowadnr.gov/nrgislibx/">https://programs.iowadnr.gov/nrgislibx/</a>
Municipal Parks	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
National and State Wilderness Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
National Forests	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)

**Table B-1: Data Sources**

<b>Data Type</b>	<b>Agency</b>	<b>URL Location/Source</b>
National Recreation Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
National Landmarks	NPS	<a href="https://www.nps.gov/nhl/find/intro.htm">https://www.nps.gov/nhl/find/intro.htm</a>
National Wild and Scenic Rivers	NPS	<a href="https://rivers.gov/map.php">https://rivers.gov/map.php</a>
National Wildlife Refuges	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
Nature Conservancy Preserves	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
Occupied Buildings/Dwellings	ATC, ENValue	Aerial photograph interpretation
Open Water Expanses greater than 1,000 Feet	USGS	<a href="http://nhd.usgs.gov/">http://nhd.usgs.gov/</a>
Places of Worship	USGS-GNIS	<a href="http://seamless.usgs.gov/">http://seamless.usgs.gov/</a>
Planned Residential Areas	County LIOs	

**Table B-1: Data Sources**

<b>Data Type</b>	<b>Agency</b>	<b>URL Location/Source</b>
Population Centers	IDNR, Wisconsin Cartographer's Office	<a href="https://programs.iowadnr.gov/nrgislibx/">https://programs.iowadnr.gov/nrgislibx/</a> <a href="http://www.sco.wisc.edu/find-data.html">http://www.sco.wisc.edu/find-data.html</a>
Prime Farmland	USDA NRCS	<a href="https://gdg.sc.egov.usda.gov/">https://gdg.sc.egov.usda.gov/</a>
Reserve Program Lands	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
Scenic Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
Scenic Travel Routes	WDOT, IDOT, USDOT	<a href="http://wisconsin.gov/Pages/travel/road/scenic-ways/default.aspx">http://wisconsin.gov/Pages/travel/road/scenic-ways/default.aspx</a> <a href="https://www.iowabyways.org/">https://www.iowabyways.org/</a> <a href="https://www.fhwa.dot.gov/byways">https://www.fhwa.dot.gov/byways</a> <a href="http://wisconsin.gov/Pages/travel/road/rustic-roads/default.aspx">http://wisconsin.gov/Pages/travel/road/rustic-roads/default.aspx</a>
Schools	USGS-GNIS	<a href="http://seamless.usgs.gov/">http://seamless.usgs.gov/</a>
State and National Recreation Trails	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)

**Table B-1: Data Sources**

Data Type	Agency	URL Location/Source
State Forests and Forest Management Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
State Natural Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
State Parks and Recreation Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
State Scientific Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)

**Table B-1: Data Sources**

<b>Data Type</b>	<b>Agency</b>	<b>URL Location/Source</b>
State Wildlife Refuges, Wildlife Areas, Game Management Areas	ATC, Stantec	Environmental Sensitivity GIS Layer compiled by Stantec for ATC (sources include: County LIOs, Municipalities within Study Area, WDNR, IDNR, USFWS, NPS, Driftless Area Land Conservancy, Ice Age Trail Alliance, Mississippi Valley Conservancy, NHLT, NRCS, Prairie Enthusiasts, The Nature Conservancy, USACOE, Google Maps, International Crane Foundation, Iowa Audubon Society, PADUS, and SWWRPC)
State Designated Wild and Scenic Rivers	WDNR, IDNR	<a href="http://dnr.wi.gov/topic/Lands/WildRivers/">http://dnr.wi.gov/topic/Lands/WildRivers/</a> <a href="https://programs.iowadnr.gov/nrgislibx/">https://programs.iowadnr.gov/nrgislibx/</a>
Threatened and Endangered Species Critical Habitats	ATC	USFWS Consultation
Unique Habitats	ATC	USFWS Consultation
VORTAC Tower Sites	FAA	<a href="https://nfdc.faa.gov/nfdcApps/">https://nfdc.faa.gov/nfdcApps/</a>
Wetlands	USFWS NWI	<a href="https://www.fws.gov/wetlands/Data/Data-Download.html">https://www.fws.gov/wetlands/Data/Data-Download.html</a>
Day Cares	Wisconsin Department of Children and Families; Iowa Department of Human Services	<a href="http://dcf.wisconsin.gov/childcare/">http://dcf.wisconsin.gov/childcare/</a> <a href="http://dhs.iowa.gov/childcare">http://dhs.iowa.gov/childcare</a>

**Table B-2: Data Sources Used in Preparation of the ACA**

<b>Data Layer Name/Description</b>	<b>Source</b>	<b>Notes</b>
<b><i>Base Data</i></b>		
AllBywayRoutes	FHWA	Scenic byways in the project area
Alternative Crossing Points	BMcD	2014
Cassville Ferry Route	Digitized from maps	2014
Distribution (desktop)	BMcD	2013/2014
Farmland Classifications	SSURGO	2014
FCC data	FCC	
FloodplainData_IA	FEMA	
FloodplainData_WI	FEMA	



**Table B-2: Data Sources Used in Preparation of the ACA**

<b>Data Layer Name/Description</b>	<b>Source</b>	<b>Notes</b>
FloodplainData_IL	FEMA	
FWSInterest	USFWS	
FWSApproved	USFWS	
HC_TR Notification Area v1	ITC Midwest	Proposed Hickory Creek - Turkey River notification corridor from Henry Wen
IDNR_Roads_Clip	IDNR (2006)	Iowa Roads
ILLDOT_Roads_clip	IL DOT 2013	Illinois Roads
INHF Land	Digitized from Agency correspondence maps and received from INHF	2013
NCED	NC ED	October 2014
NHD layers	NHD	2015
NLCD_TriStateArea_clip	USDA	2011
NRCS Easements	NRCS	2015
NTAD_airports_line	NTAD	2014
NTAD_airports_pt	NTAD	2014
NTAD_Railroads_clip	NTAD	2014
NWI_All_Merge	NWI	
PADUS v 1.3 Combined	USGS	
PADUS_v1_3_Fee	USGS	
PLSS	IDNR, WDNR, IL GIS Data Clearinghouse	
Soils (clayton and dubuque)	SSURGO	
Tiger_Roads_GrantCo_WI	Grant County, WI roads	2013
Political Townships	IDNR, WDNR, USGS	2013/2014
Trails	IDNR	2015
Turkey Creek Sub Prelim	ITC	2013
Upper Mississippi Refuge Pool 11 Features	USFWS, BMcD digitized	2014
Water Tower in Dubuque (Roosevelt)	ITC, City of Dubuque, BMcD digitized	2014
<b>Routing</b>		
All_Routes_Combined_21Sep2015	BMcD	2015
Current_Structures_Marked	BMcD	2013-2015
Current_Study_Area	BMcD, ATC, ITC	2013-2015
RiverCrossingCenterlines_ExistingLines_Refuge_easements	ITC, BMcD digitized	2014

**Table B-2: Data Sources Used in Preparation of the ACA**

<b>Data Layer Name/Description</b>	<b>Source</b>	<b>Notes</b>
RiverCrossingCenterlines_ExistingLines_Refuge_easements	ITC, BMcD digitized	2014
<b>Source Data</b>		
ATC Source Data	ATC	Includes ATC facilities and transmission lines
City of Dubuque	Dubuque, Iowa	Includes the proposed new water tower site, Dubuque city boundary, CityFLU, Corps restricted areas, annexation study areas, and green assets
IL_DOT	Illinois DOT	Line and point data from the Illinois DOT for roads, railroad crossings, and bridges
IOWA_DOT	Iowa DOT	GIS data from Iowa DOT for roads, DOT projects, and trails
ITC Source Data	ITC Midwest	Refuge survey data,
USFWS Data	USFWS	NWRS boundary data, parking lots, roads, and trails; algific slope data
USGS Data	USGS	NED, physiographic regions, wing dam locations
WISCONSIN_DNR	WDNR	Ecological landscapes, geog management units, PLSS sections/townships, WI county boundaries, DNR managed land

**APPENDIX C - LIST OF FIELD RECONNAISSANCE**

**Table C-1: Field Reconnaissance**

<b>Date of Field Reconnaissance</b>	<b>Purpose</b>	<b>Attendees</b>
2012-01-18:	“Recon Trip” - mostly in Iowa; reviewed possible Iowa SS sites, drove Salem-Hazelton 345 kV line route	ATC Project Management, Construction, Engineering staff
2012-02-02:	“Windshield Tour of Project Area” (i.e. bus trip) Phase 1-Study Area field review	ATC Project Team
2012-05-02:	Bus trip, Phase 2-Possible Corridors review	ATC Project Team
2012-06-01:	Field review of possible corridors near Cardinal SS in preparation for the 2012-06-06 Constructability 1 meeting	Small ATC Team
2012-06-12:	Bus trip, Iowa routes only, a continuance of Phase 2-Possible Corridors	ATC Project Team
2012-07-02:	Mississippi River crossing boat trip – Dubuque crossings only	ATC Project Management, Engineering, Environmental, Construction
2012-08-14:	Bus trip with helicopter reps and alternative foundation vendor	Small ATC core Construction team
2013-01-09:	Field review of possible 69kV line routes from Nelson Dewey to Stoneman.	Small ATC Construction & Engineering
2013-8-19, 20, 21	Field reconnaissance and constraint identification (with GPS) of the ACA Study Area in between Hickory Creek Substation and Cassville, WI	Burns & McDonnell staff
2013-10-31	Field review of environmental constraints along existing corridors in Iowa.	Small ITC team
2014-8-13, 14, 15	Additional field reconnaissance and GPS coding of ACA Study Area including Clayton and Dubuque Counties in Iowa and Grant County in Wisconsin. Reconnaissance included the municipalities of Dubuque, Iowa and Cassville, WI	Burns & McDonnell staff
2014-10-21, 23	Continued field reconnaissance and constraint identification (with GPS) in Dubuque, Iowa and new constraint identification in E. Dubuque, IL north to Rutledge, WI	Burns & McDonnell staff
2015-09-14:	Van trip of East-Half MCS development	Small ATC team
2015-09-21	Helicopter tour of West-Half MCS	Small ITC team
2015-10-26:	Van trip of East-Half MCS development	Small ATC team
2015-11-23:	Van trip of Mount Horeb area MCS development	Small ATC team
2016-5-10	Field review of West-Half MCS	Small ITC team

**APPENDIX D - SUMMARY OF PUBLIC OUTREACH**

**2014 – Project introduction, Wisconsin study area outreach and solicitation of public input:**

*A comprehensive public outreach campaign including open houses, media relations, direct mail, stakeholder outreach and web/social media presence was conducted in Wisconsin to introduce the project and gather input from the public. More than 640 people attended this first round of open houses. Key activities are listed below:*

**September:** News release and media visits/interviews supporting introduction of Wisconsin study area and open houses. More than 50 media outlets received information about the project. More than 20 print, web and radio stories were published regarding the project and open houses.

**September:** Open house invitations mailed to potentially affected property owners, public officials and other stakeholders. Project newsletter with information about project need and benefits also mailed to households throughout Wisconsin study area.

**September/October:** Print ads with open house information placed in newspapers throughout Wisconsin study area

**November:** Follow-up mailings sent to those who attended open houses as well as people who were invited, but were not able to attend. The mailing included contact information, a high-level schedule and information about next steps for the project.

**2015 – Ongoing stakeholder communications and project schedule update**

*Continued to respond to inquiries from members of the public and media regarding project status and sent public update to Wisconsin study area. Key activities listed below:*

**December:** Sent direct mail notifying those who were invited to first round of open houses that Dairyland Power Cooperative joined as a participant in the Cardinal-Hickory Creek Project. Also communicated that as a result of continued work with state and federal regulatory agencies, we were continuing to review and adjust our project schedule and that we anticipated sharing preliminary corridors at another round of public open houses in 2016.

**2016 – Wisconsin and Iowa outreach, open houses sharing macro-corridors and solicitation of public input**

*A comprehensive public outreach campaign including open houses, media relations, direct mail, stakeholder outreach and web/social media presence was conducted in Wisconsin to introduce the project and gather input from the public. More than 700 people attended this second round of open houses. Key activities are listed below:*

**April:** News release and media visits/interviews supporting introduction of Wisconsin study area and open houses. More than 40 media outlets received information about the project. More than 20 print, web, radio and TV stories were published regarding the project and open houses.

**April:** Open house invitations mailed to potentially affected property owners, public officials and other stakeholders. Project newsletter with information about project need and benefits also mailed to households throughout Wisconsin study area.

**May:** Print ads with open house information placed in newspapers throughout Wisconsin study area and in Dubuque, Iowa, newspaper.

**July:** Follow-up mailings sent to those who attended open houses as well as people who were invited, but were not able to attend. The mailing included contact information, a high-level schedule and information about next steps for the project.

**September:** Mailings sent to new potentially affected property owners, existing potentially affected property owners and no longer affected property owners after corridors were revised to incorporate public input and further routing analysis. A news release noting alternate corridors also was issued.

**APPENDIX E - TRIBAL OUTREACH LETTER, MAILING LIST, AND  
COMMENTS**





5303 FEN OAK DRIVE ■ MADISON, WI 53718-8810  
TOLL FREE: 866.899.3204 ■ atc@atc.com



123 FIFTH STREET SE ■ CEDAR RAPIDS, IA 52401  
TOLL FREE: 877.482.4829 ■ itc-holdings.com



PO. BOX 817 ■ LA CROSSE, WI 54602  
608.788.4000 ■ DairylandPower.com

May 10, 2016

Addressee Name

Addressee Title

Organization

Address Line 1 (press enter to begin another address line)

City, State Zip Code

Re: Cardinal – Hickory Creek 345-kV Transmission Line Project

Dear \_\_\_\_\_:

ITC Midwest LLC (ITC Midwest), American Transmission Company LLC by its corporate manager, ATC Management Inc., (together, ATC), and Dairyland Power Cooperative (Dairyland) (all collectively, the Utilities), propose to construct and own a high-voltage transmission line connecting northeastern Iowa to southwestern and south central Wisconsin. The transmission line is known as the Cardinal – Hickory Creek 345 kV Transmission Line Project (Project).

This letter is to provide some information about the Project and give you an opportunity to provide input regarding issues that are important to you. This opportunity is not associated with or required by any state or Federal agencies. Rather, it is a result of the Utilities' desire to obtain input from interested tribes in the early stages of the Project. Once a lead federal agency is determined for the federal environmental review process, that federal agency, or its designee, will be in contact with you as part of the Section 106 Tribal Review and Consultation process outlined in the National Historic Preservation Act of 1966.

The Project will be approximately 125 miles long and will connect the Hickory Creek Substation in Dubuque County, Iowa, with the Cardinal Substation in the Town of Middleton, Wisconsin (near Madison, Wisconsin) with a new 345 kV transmission line, and would include the construction of a new intermediate substation near the Village of Montfort in either Grant County or Iowa County, Wisconsin.

In developing this Project, the Utilities first sought to identify a feasible Mississippi River crossing location and designated a study area that included the City of Guttenberg on the north and the City of Dubuque on the south. The Cardinal – Hickory Creek Initial Study Area is shown in **Attachment A**. The counties included in the Initial Study Area are: Clayton and Dubuque Counties in Iowa; Jo Daviess County in Illinois; and Grant, Iowa, Lafayette, and Dane Counties in Wisconsin.

After thoroughly investigating seven potential river crossings, the Utilities determined that the only feasible river crossing locations were located near Cassville, Wisconsin. The Utilities then



5303 FEN OAK DRIVE ■ MADISON, WI 53718-8810  
TOLL FREE: 866.899.3204 ■ [atcllc.com](http://atcllc.com)



123 FIFTH STREET SE ■ CEDAR RAPIDS, IA 52401  
TOLL FREE: 877.482.4829 ■ [itc-holdings.com](http://itc-holdings.com)



P.O. BOX 817 ■ LA CROSSE, WI 54602  
608.788.4000 ■ [DairylandPower.com](http://DairylandPower.com)

narrowed the study area and began working on developing potential routing corridors as shown on Attachment B. The preliminary route corridors are based on the Utilities' routing efforts to date and these corridors will be refined as part of the federal environmental review process under NEPA and the state routing processes in Wisconsin and Iowa.

The Project will require state regulatory approvals from Wisconsin and Iowa agencies as well as federal approvals from the Rural Utilities Service in the U.S. Department of Agriculture, the U.S. Fish and Wildlife Service, and the U.S. Army Corps of Engineers, including federal environmental review under the National Environmental Policy Act (NEPA). The Utilities anticipate filing applications with state regulatory agencies in 2018 and 2019; based on local, state, and federal regulatory processes, the Utilities are anticipating that the Project would be in service in 2023.

At this time, we would welcome your input regarding general locations of traditional cultural properties or other resources and interests important to you relating to the potential corridors and study area shown on **Attachment B** so they may be taken into account during the routing process. If you are interested in learning more about the Project or if you would like to provide your feedback to us in person, we would be happy to meet with you.

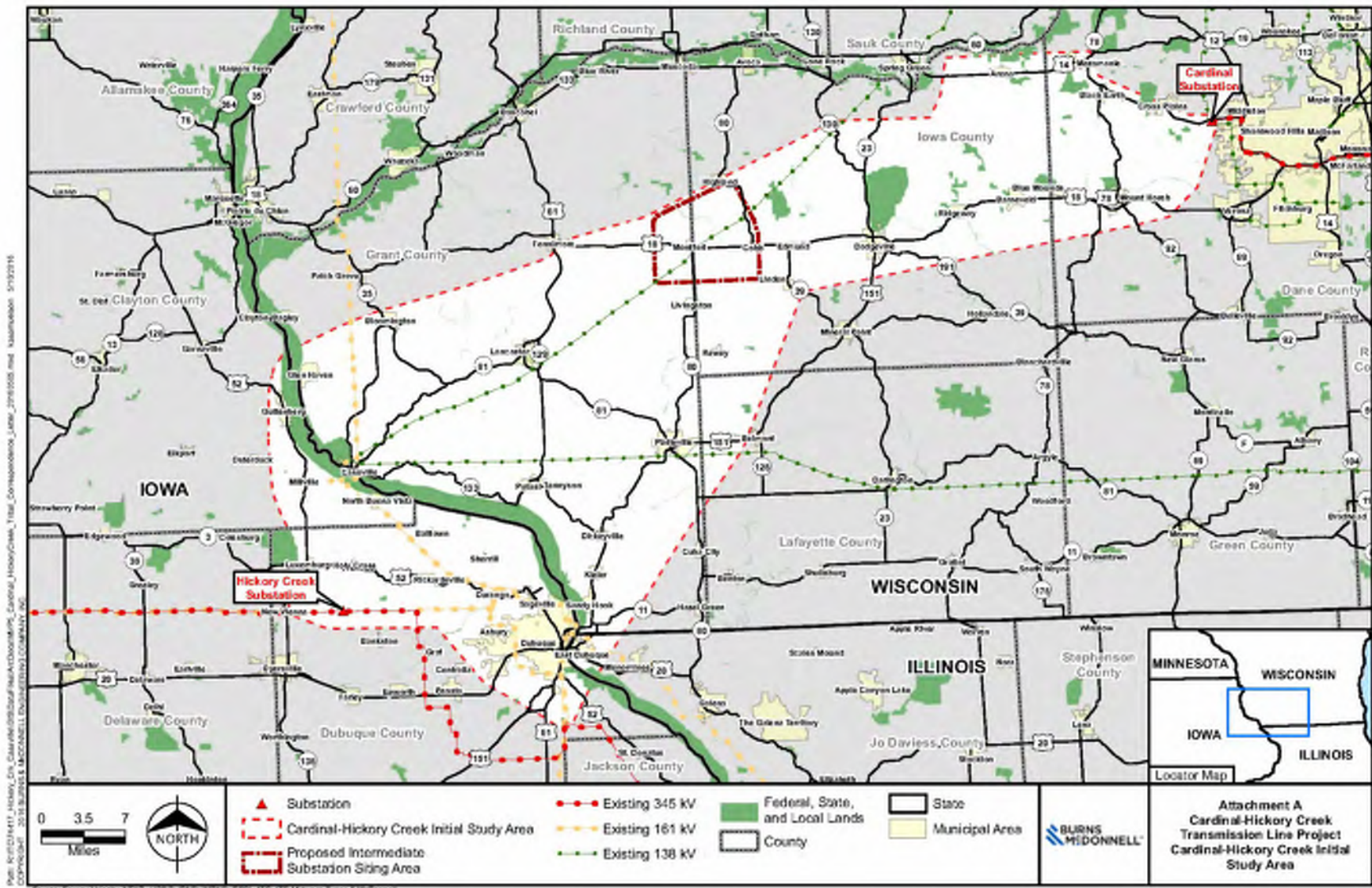
Lastly, the Utilities are hosting four open house for the general public in Iowa and Wisconsin from May 16<sup>th</sup> through May 19<sup>th</sup>. You are of course welcome to attend, the time and location for these open houses is provided on **Attachment B**.

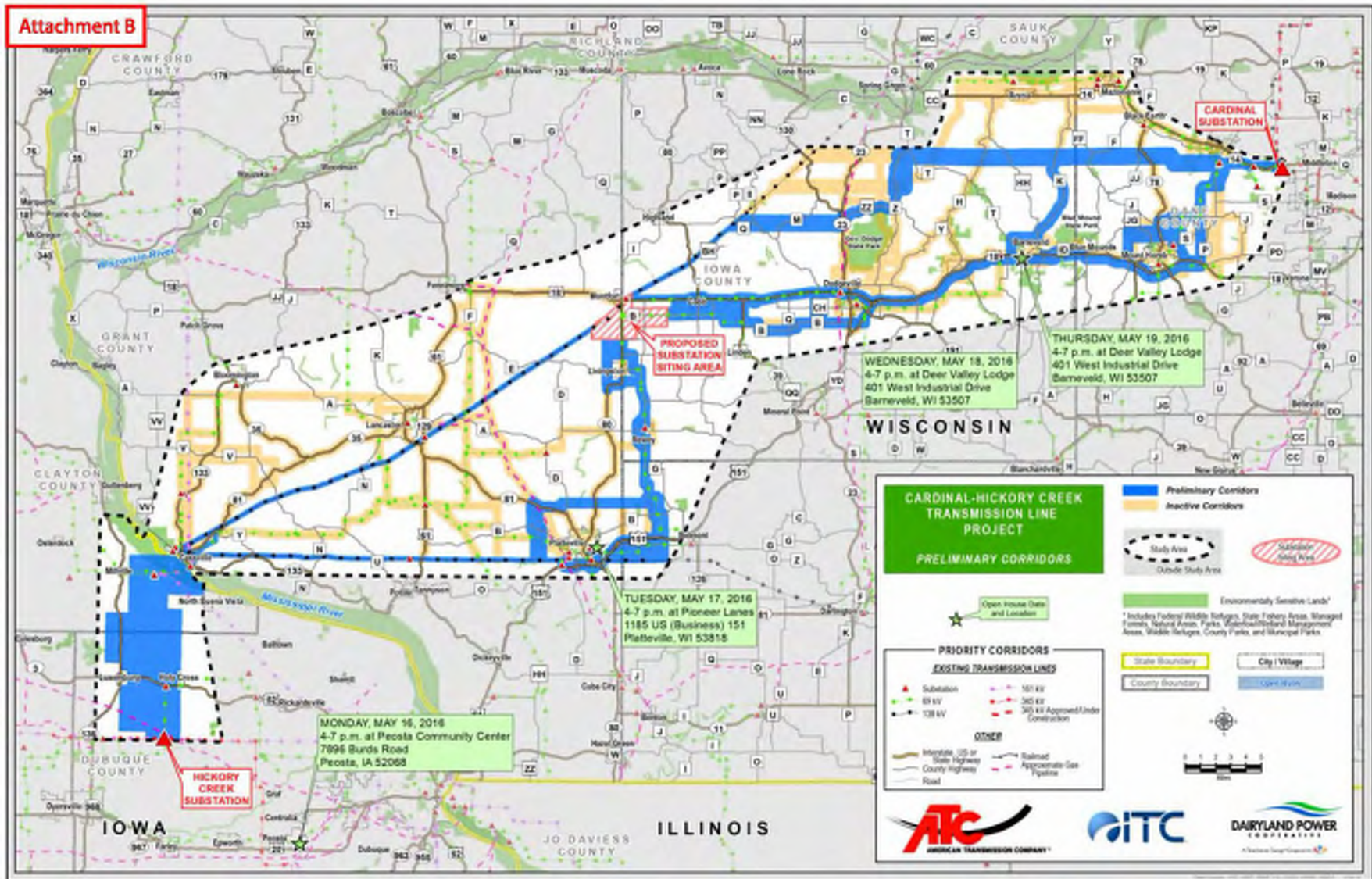
We would appreciate any input that you may wish to provide by June 7, 2016. If you have any questions about the Project, please contact Dan Hagan, Permit Policy Specialist with ITC Midwest, at (515) 282-5300 Ext. 462 or at [dhagan@itctransco.com](mailto:dhagan@itctransco.com).

Sincerely,

Dan Hagan  
Permit Policy Specialist, ITC Midwest

Attachment A – Cardinal – Hickory Creek Initial Study Area  
Attachment B – Cardinal – Hickory Creek Preliminary Corridors





Sent to	Date Sent
Bah Kho-je - Iowas of Oklahoma Iowa Tribe of Oklahoma Tribal Administrator: Stephanie Crowder 335588 E 750 Road Perkins, OK 74059	May 10, 2016
Fond du Lac Band of Lake Superior Chippewa Chairman: Wally Dupuis 1720 Big Lake Road Cloquet, MN 55720	May 10, 2016
Forest County Potawatomi Chairman: Harold "Gus" Frank PO Box 340 Crandon, WI 54520	May 10, 2016 Resent May 27, 2016 <sup>1</sup>
Ho Chunk/ Winnebago President: Jon Greendeer Tribal Office Building (TOB) W9814 Airport Rd P.O. Box 667 Black River Falls WI 54615	May 10, 2016
Lac Courte Oreilles Band of Lake Superior Chippewa Chairman: Michael Isham 13394 N Round Lake School Rd Hayward, WI 54843	May 10, 2016
Lac Vieux Desert Band of Lake Superior Chippewa Chairman: James Williams Jr. N4698 US 45 Watersmeet, MI 49969	May 10, 2016
Menomoninee Indian Tribe of Wisconsin Chairwoman: Joan Delabreau W2908 Tribal Office Loop Road P.O. Box 910 Keshena, WI 54135	May 10, 2016
Meskwakie Nation - Sac and Fox Tribe of the Mississippi in Iowa Chairwoman: Judith Bender 349 Meskwaki Road Tama, IA 52339	May 10, 2016

<sup>1</sup> Resent to a corrected address after initial letter of May 10<sup>th</sup> was returned.

Sent to	Date Sent
Ne ma ha ha ki - Sak and Fox Nation in Missouri Chairperson: Brigitte Robidoux Main Office 305 North Main Street Reserve, KS 66434	May 10, 2016
Oneida Nation of Wisconsin Chairwoman: Cristina Danforth PO Box 365 Oneida, WI 54155	May 10, 2016 Resent May 27, 2016 <sup>1</sup>
Prairie Band Potawatomi Nation Chairperson: Liana Omen 16281 Q Road Mayetta, KS 66509	May 10, 2016
Prairie Island Indian Community Minnesota Mdewakanton Sioux President: Shelley Buck 5636 Sturgeon Lake Road Welch, MN 55089	May 10, 2016
Red Cliff Band of Lake Superior Chippewa Tribal Chair: Bryan Bainbridge 88385 Pike Rd. Bayfield, WI 54814	May 10, 2016
Sa ki wa ki - Sak and Fox Nation of Oklahoma Principal Chief: George Thurman Administration Building 920883 S. Hwy 99 Bldg A Stroud, OK 74079	May 10, 2016
Sokaogon Chippewa Community Mole Lake Board Chairman: Chris McGeshick 3051 Sand Lake Road Crandon, WI 54520	May 10, 2016
St. Croix Band Chippewa Indians of Wisconsin Chairman: Lewis Taylor 24663 Angeline Avenue Webster, WI 54893	May 10, 2016
Stockbridge Munsee Community of Wisconsin President: Shannon Holsey N8476 MoHeConNuck Rd. Bowler, WI 54416	May 10, 2016

<sup>1</sup> Resent to a corrected address after initial letter of May 10<sup>th</sup> was returned.

<b>Sent to</b>	<b>Date Sent</b>
The Bad River Band of Lake Superior Chippewa Tribe Chairman: Robert Blanchard P.O. Box 39 Odanah, WI 54861	May 10, 2016
The Iowa Tribe of Kansas and Nebraska Chairman: Tim Rhodd 3345 B. Thrasher Rd. White Cloud, KS 66094	May 10, 2016
Winnebago Tribe of Nebraska Chairman: John Blackhawk 100 Bluff Street PO Box 687 Winnebago, NE 68071	May 10, 2016

**APPENDIX F - REPORT ON 2016 OPEN HOUSES AND SUMMARY OF  
PUBLIC COMMENTS**





## **Cardinal-Hickory Creek Round 2 (2016) Open House Meeting Report**

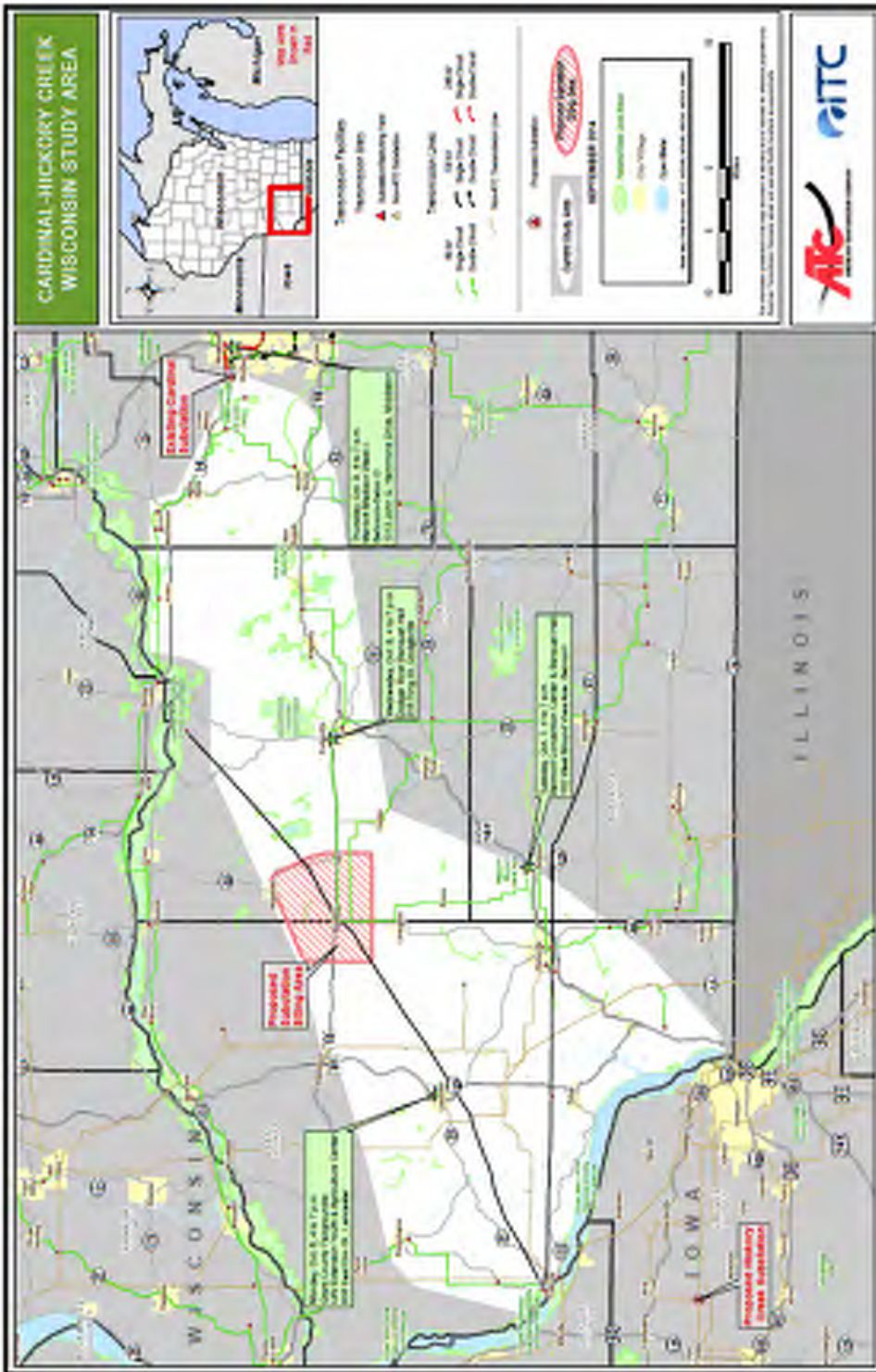
The following report summarizes the results of the second round of open house meetings for the Cardinal-Hickory Creek Project. Four meetings were held during one week: May 16, 17, 18 and 19, 2016. Each open house took place between 4 and 7 p.m.

### **1. Project Summary**

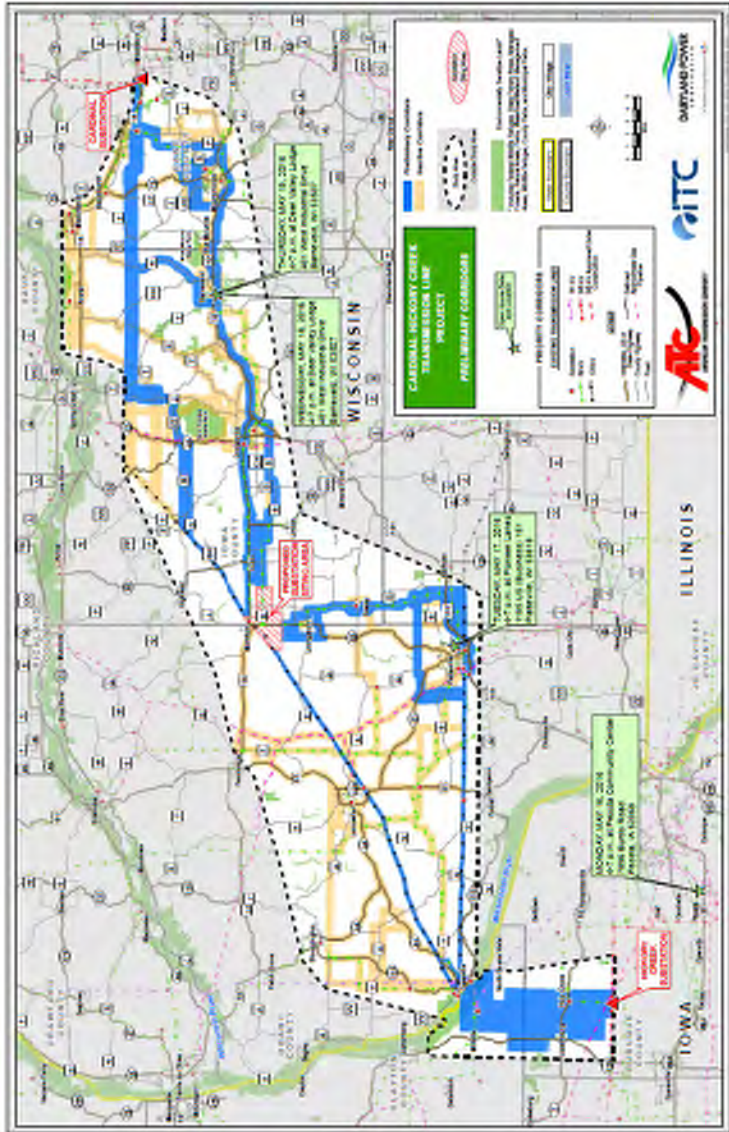
In Round 1 of open houses in 2014, an initial Wisconsin study area was identified by American Transmission Co. (“ATC”) and ITC Midwest LLC (“ITC”) for the approximately 125-mile, 345-kilovolt line. This study area included portions of the following Wisconsin counties: Dane, Iowa, Grant and Lafayette.

Between the first and second rounds of open houses, ATC, ITC and new Project participant Dairyland Power Cooperative (collectively “Utilities”) identified their preferred crossing for the Mississippi River and were then able to narrow the study area. The following two maps show the differences between the study areas presented in Round 1 versus Round 2 of the open houses:

Initial Study Area used in the Round 1 (2014) Open Houses



In preparation for Round 2, the Utilities identified a number of macro-corridors<sup>13</sup> (publicly referred to as “preliminary corridors” in the open house materials) to be considered. Project Study Area and “preliminary corridors” used in the Round 2 (2016) Open Houses is shown below:



<sup>13</sup> The term “macro-corridor” is used by the Rural Utilities Service (RUS”), a branch of the United States Department of Agriculture. The RUS is the lead federal agency for purposes of permitting and the Utilities are complying with the RUS rules, which mandate the development of “macro-corridors.”

## Project Parameters and Universe Selection

In preparation for Round 2 open houses, the Utilities identified landowners with property within 300' of the macro-corridors and the proposed intermediate substation<sup>14</sup> ("Potentially Affected Landowners"). The Utilities also identified the federal, state, county and municipal local officials and staff ("Public Officials") having jurisdiction within 300' of the macro-corridors ("Potentially Affected Public Officials").

The list of Potentially Affected Interest (PAIs) included the same categories as the Round 1 PAIs, which included, but was not limited to, anyone showing an interest in the Project, ATV groups, Audubon societies, civic groups, economic development & regional development authorities, environmental groups in Wisconsin, hunting and fishing organizations, lake associations, land conservation departments, regional planning commission staff, snowmobile groups, trails groups, and chambers of commerce. This PAI list for Round 2 included new parties who had expressed an interest in the Project.

Invitations for the Round 2 open houses were sent to Potentially Affected Landowners, Potentially Affected Public Officials and the PAIs ("Invitees"). The Round 2 universe of Invitees totaled 5,556. Notably, 18,587 Potentially Affected Landowners and 183 Potentially Affected Public Officials invited to the Round 1 open houses were considered no longer affected by the Project and, therefore, did not receive an invitation.<sup>15</sup>

Beginning in mid-March 2016, members of the Utilities' local relations, community outreach, government affairs and customer relations teams began meeting with some of the 335 Potentially Affected Public Officials as well as distribution utilities and electric cooperatives in the area.

In spring 2016, current land record information was acquired from Dane, Grant, Iowa and Lafayette counties to allow a refresh of Potentially Affected Landowner contact information. Spatial parcel data and tax roll information was acquired for the first time for Dubuque and Clayton counties in Iowa.

### Parcel-Patron Newsletter Mailing

As in Round 1, a geographically wide-scale effort was made to reach out to all businesses and residents with a physical mailing address within the Project Study Area. For Round 2, 95 postal carrier routes were selected among the 32 five-digit zip codes that intersect the Round 2 study area. A newsletter was sent to the "Current Resident" of both business and residential

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<sup>14</sup> The Utilities identified a large area for the siting of the intermediate substation. This area includes portions of Wisconsin's Grant and Iowa counties and encompasses parts of the towns of Clifton, Eden, Mifflin and Wingville, as well as a small portion of the Village of Wingville.

<sup>15</sup> For Round 1 open houses (Fall 2014), ATC and ITC invited all landowners and Public Officials within 1 mile of a corridor falling under Wisconsin Siting Priorities law: existing utility corridors, existing highway and railroad corridors and recreational trails.

addresses.<sup>16</sup> In total 31,210 newsletters (2,156 to businesses addresses and 29,054 to residential addresses) were mailed and delivered in late April 2016.

### Open House Invitations

Records were segmented into four different groups based on landowner proximity to an open house location. Mailings were sent approximately two weeks in advance in an attempt to provide stakeholders with a timely invitation based on the meeting they were most likely to attend. Open house invitations began to arrive in mailboxes around May 1, 2016. It should be noted that while a particular meeting was highlighted on the invitation, stakeholders were invited to attend any of the four open houses. An overview map displayed all open house locations and was included in each invitation packet. Those in proximity to the Deer Valley Lodge location (which hosted two open houses on two consecutive days) in Barneveld, Wisconsin, were further split geographically into two subsets; invitations sent to the Invitees of Iowa County, Wisconsin, parcels were specifically encouraged to attend the Wednesday, May 18, open house while Dane County Invitees were encouraged to attend the Thursday, May 19, open house.

Each Invitee received a mail packet that included the following:

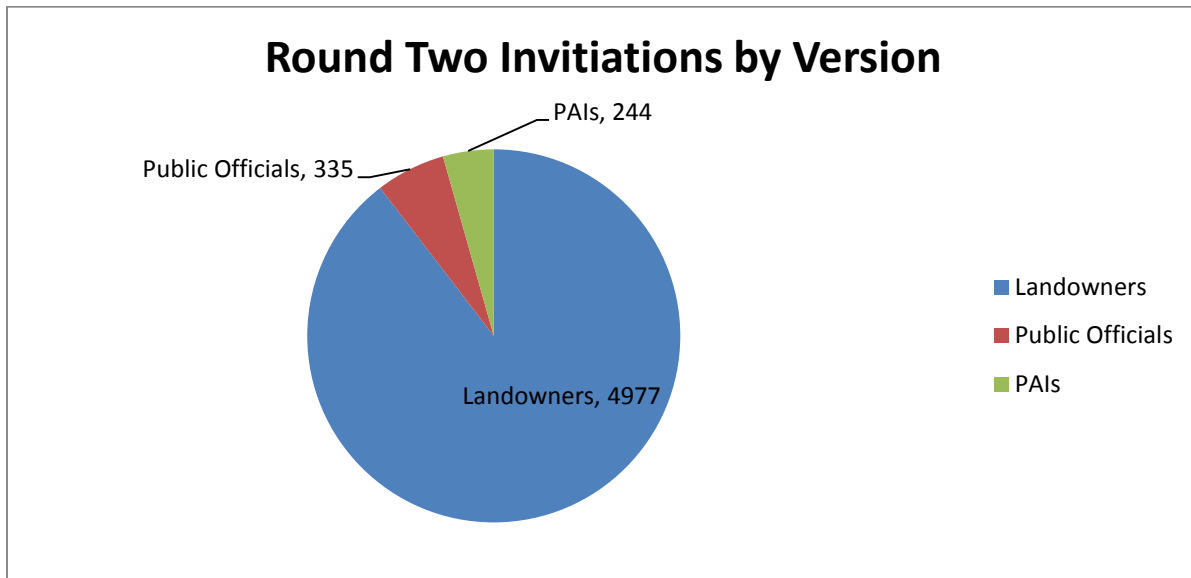
- Invitation with signature of both Jon Callaway (ATC) and Angela Jordan (ITC). The letterhead displayed logos for ATC, ITC and Dairyland. The letter was located on page 1 of a quarter fold 11x17" document.
- 11" x 17" color project overview map with open house locations and times. This map appeared on the inside (pages 2 & 3) of the quarter fold 11x17" document and displayed Round 2 preliminary corridors, inactive corridors, proposed substation siting area and the revised study area (as well as additional geographic reference information).
- 8.5" x 11" color local map displaying detailed view based on either municipality of landowner parcel ownership, municipality of the jurisdiction of representation for municipal officials, county of representation for county-wide local officials and county of relevance for Wisconsin State Representatives and Wisconsin State Senators. This map appeared on page four of the quarter fold 11x17" document. PAIs did not receive a local map—this page was left blank for their invitation version. All State of Iowa invitations included an overview map of the macro-corridor in Iowa.
- Postage-paid self-mailer comment form for written comments.
- Above information inserted into a 6" x 9" window envelope with a 5303 Fen Oak Drive, Madison, Wisconsin return address and logos for ATC, ITC and Dairyland.

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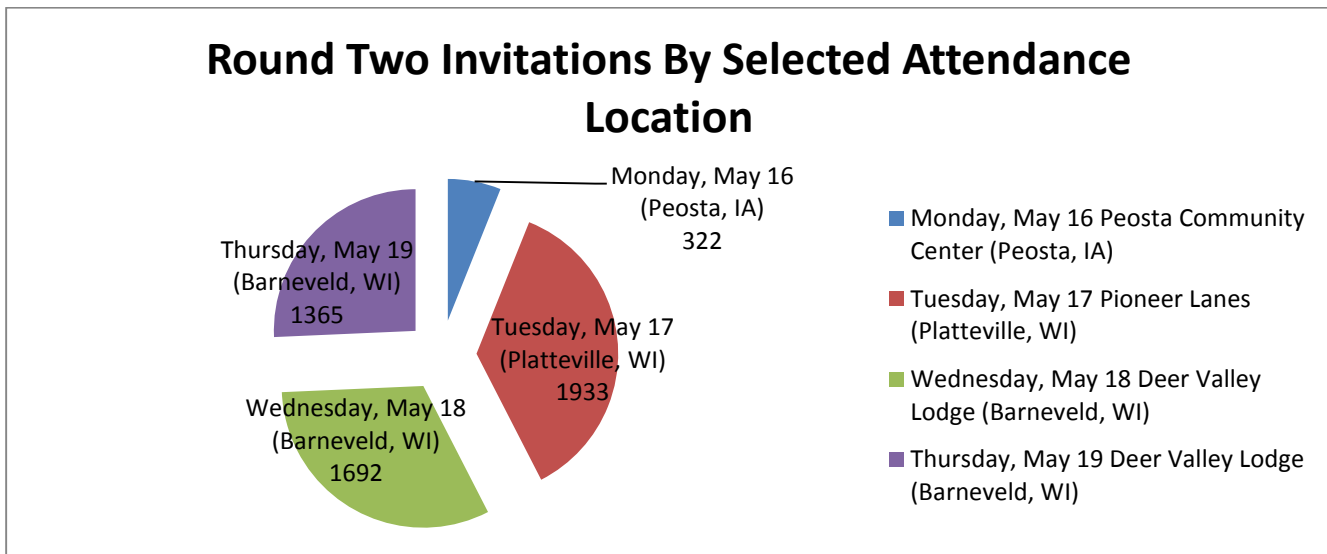
<sup>16</sup> Materials sent to a "current resident" are delivered to whomever is living at the property within the study area. Accordingly, property owners not living at their properties within the study area would not have received these materials.

Each of the 18,770 landowners and Public Officials who were invited to a Round 1 open house but are no longer affected due to a corridor in their area being deactivated, received a postcard informing them they were no longer affected by this Project at this time but they could continue to receive information either: by mailing a return card with name and address information or by signing up for email updates at [www.Cardinal-HickoryCreek.com](http://www.Cardinal-HickoryCreek.com) .

Following is a graph displaying the number of Potentially Affected Landowners, Potentially Affected Public Officials and PAIs invited to Round 2 open houses:



Following is a breakdown of the specific meeting invitation locations that were suggested in the text of the letters:



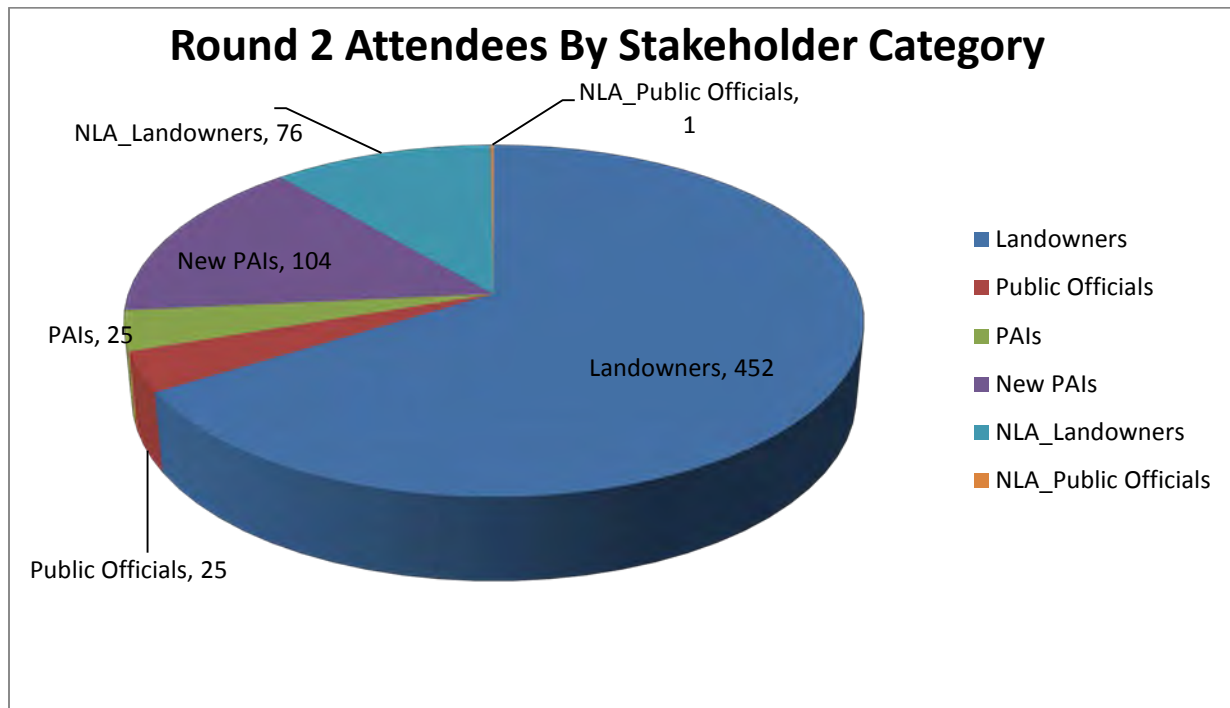
### No Paid Phone Project

Unlike Round 1, an automated phone program to remind Invitees of the upcoming open houses and gauge potential meeting attendance was not fielded for Round 2.

### Meeting Attendance

683 individuals from more than 517 households registered and attended a Round 2 open house. This count includes the numbers itemized later in this report as well as individuals who may have attended multiple meetings over multiple days and those who did not register at an open house. Additionally, a nominal number of individuals attended open houses without registering and are not included in attendance totals.

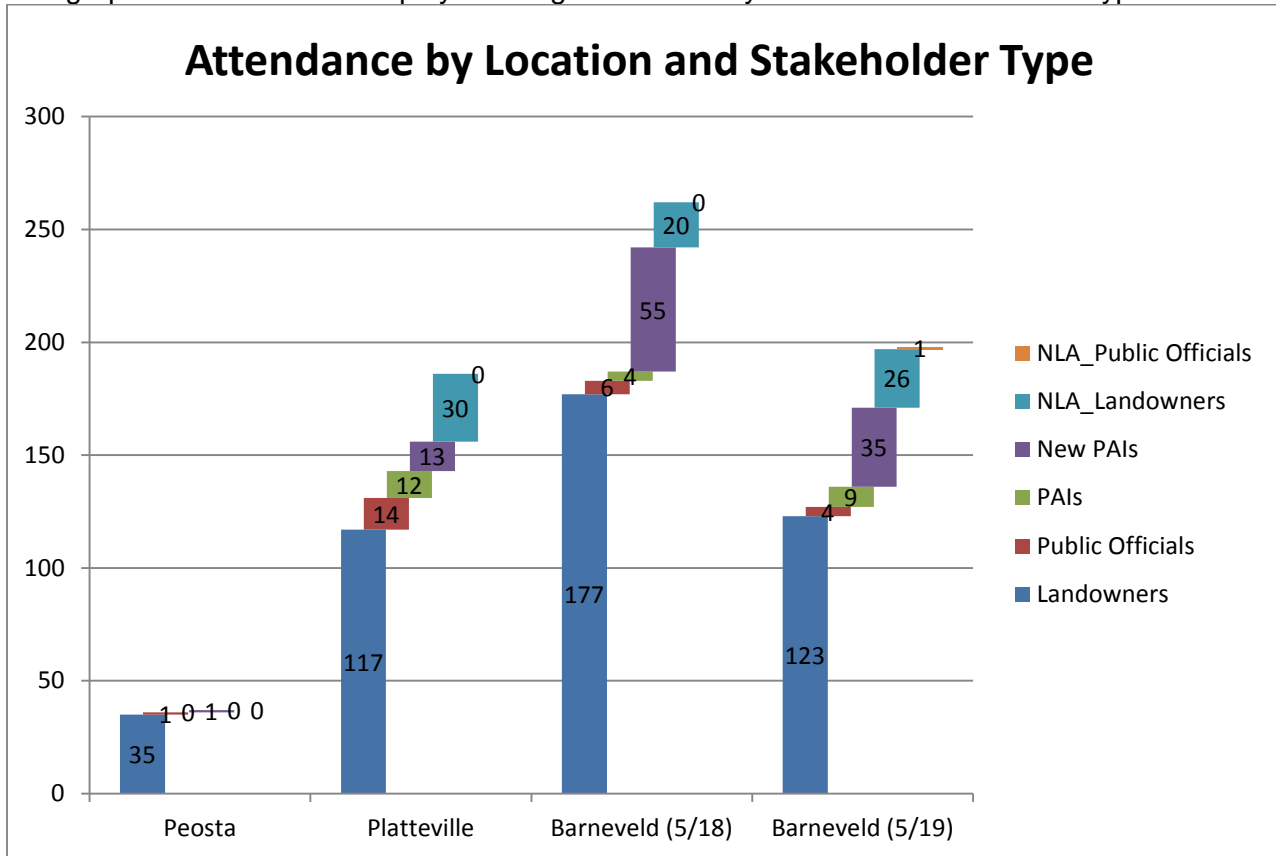
The following chart breaks down meeting attendance by stakeholder category. Seven Public Officials are also “Potentially Affected Landowners” and instead of being counted twice are aggregated under “Landowners” in the chart below. There are therefore 32 total Potentially Affected Public Officials who attended Round 2 open houses (25 Potentially Affected Public Officials + seven Potentially Affected Landowners/Public Officials):



The category for “NEW PAI” refers to those individuals who are not Potentially Affected Landowners, Potentially Affected Public Officials or the initially included PAs.<sup>17</sup> The new categories of “NLA Landowner” and “NLA Officials” refers to the Potentially Affected Landowners and Potentially Affected Public Officials who were no longer in the affected area after the study area was narrowed, the macro-corridors were defined, and other potential corridors eliminated from consideration between Rounds 1 and 2.

<sup>17</sup> These are individuals for whom the Utilities had no previous record, but who attended and registered at one of the open houses.

The graph and table below display meeting attendance by location and stakeholder type:



Location	Date	Individuals	Households	Landowners	Public Officials	PAIs	New PAIs	NLA_Landowners	NLA_Public Officials
Peosta Community Center (Peosta, IA)	Monday, May 16	37	28	35	1	0	1	0	0
Pioneer Lanes (Platteville, WI)	Tuesday, May 17	186	144	117	14	12	13	30	0
Deer Valley Lodge (Barneveld, WI)	Wednesday, May 18	262	192	177	6	4	55		0
Deer Valley Lodge (Barneveld, WI)	Thursday, May 19	198	153	123	4	9	35	26	1
<b>TOTAL</b>		<b>683</b>	<b>517</b>	<b>452</b>	<b>25</b>	<b>25</b>	<b>104</b>	<b>76</b>	<b>1</b>



## Comparison of Round 1 and Round 2

While Round 1 and Round 2 open houses were very different in terms of size and scope of Invitees and Project status, the following chart provides some basic comparisons between invitation size and attendance:

Stakeholder Type	Invited Round 1	Invited Round 2	Attend Round 1	Attend Round 2	Attend Round 1% of invites	Attend Round 2% of invites	R2 % Increase
Landowners	22991	4977	475	452	2.07%	9.08%	7.02%
Local Officials	347	335	27	25	7.78%	7.46%	-0.32%
PAIs	136	244	4	25	2.94%	10.25%	7.30%
TOTAL	23474	5556	506	502	2.16%	9.04%	6.88%

The attendance among invited landowners went from approximately 2% in Round 1 to more than 9% in Round 2; the increase in attendance may in part be due to the Utilities inclusion of macro-corridors in the Round 2 invitation.

Exhibit A at the end of this report itemizes meeting attendance by location and round for the first two rounds of the Cardinal-Hickory Creek open houses

## GIS Stations

For the second round of open houses, the Utilities provided GIS stations at all three Wisconsin open houses to provide attendees with hard-copy maps depicting parcels, about which the attendees were interested, in relationship to macro-corridors. Individualized maps were available to attendees who requested them.

Following is a table that breaks down the maps created during each open house.

Location	Date	Attendees	Attendee Households	Maps Created	Household received map	Household received map %
Peosta Community Center	Monday, May 16	37	29	0	0	0
Pioneer Lanes	Tuesday, May 17	186	147	133	91	61.90%
Deer Valley Lodge	Wednesday, May 18	262	199	175	134	67.34%
Deer Valley Lodge	Thursday, May 19	198	153	154	114	74.51%

## Written Comments

A total of 269 written comments were received between March 31, 2016, and June 15 2016. These 269 comments came from 216 households with 22 individuals submitting multiple comments. 150 comments were submitted by those who attended a Round 2 open house.

508 comments have been submitted for the Cardinal-Hickory Creek Project (Round 1 and Round 2 combined). These comments are from 435 individuals and represent 410 total households. 43 individuals have submitted multiple comments over the course of the project.

### Electronic Comments

Each Round 2 open house in Wisconsin provided stakeholders an opportunity to submit comments electronically via four laptop computers. There were 33 comments entered using laptops over the three Wisconsin open houses (there were no laptop computers set up at the Peosta, IA open house location). Sixteen individuals provided comments across all four Round 2 open houses.

### Email Addresses

The Utilities have made a concerted effort to collect email addresses of landowners, Public Officials and PAIs. Upon initial collection of information, email addresses were included (when available) for Potentially Affected Public Officials and PAIs.

Following are the current number of email addresses present for the Round 2 “potentially affected” outreach universe (as of May 19, 2016):

Stakeholder Type	Individuals	Households	Emails	% of Households w/email
Potentially Affected Landowners	8445	4973	131	2.63%
Potentially Affected Public Officials	419	335	139	41.49%
Added at R2 Open House	101	87	20	22.99%
PAIs	265	242	39	16.12%
TOTAL	9230	5637	329	5.84%

### Potentially Affected Public Official Attendance

The following 32 Potentially Affected Public Officials registered and were in attendance for a Round 2 open house. The seven who are also Potentially Affected Landowners appear **in bold**:

FIRST	LAST	TITLE
<b>Arnold</b>	<b>Becker</b>	<b>Lima Town Supervisor</b>
Sharon	Bontreger	Beetown Town Clerk
Bart	Breuer	Beetown Town Supervisor
Jeff	Christensen	Elk Grove Town Supervisor
Howard	Crofoot	Platteville City Public Works Director
Scott	Godfrey	Iowa County Zoning Administrator/Planning Director
Barbara	Grenlie	Vermont Town Chairperson
<b>Gregory</b>	<b>Haack</b>	<b>Cross Plains Town Supervisor</b>
Craig	Hardy	Iowa County Highway Commissioner
<b>John</b>	<b>Hess</b>	<b>Wyoming Town Chairperson</b>
<b>Lester</b>	<b>Jantzen</b>	<b>Grant County Supervisor</b>
Robert	Keeney	Grant County Chairperson
Kenneth	Kilian	Platteville City Alderperson
Karen	Kurt	Platteville City Manager

FIRST	LAST	TITLE
Gregory	Lee	Dodgeville City Public Works Director
Dean	Liddicoat	Linden Town Chairperson
Randy	Littel	Mount Horeb Village Trustee
Robert	Ludovissy	North Buena Vista Mayor (IA)
Doug	Meier	Vermont Town Supervisor
<b>John</b>	<b>Meyers</b>	<b>Iowa County Chairperson</b>
<b>Scott</b>	<b>Moe</b>	<b>Vermont Town Supervisor</b>
Philip	Mrozinski	Iowa County Supervisor
Dwight	Nelson	Grant County Supervisor
Bruce	Paull	Iowa County Supervisor
Donald	Pluemer Jr	Montfort Village Trustee
Betty	Schambow	Mifflin Town Treasurer
James	Schmitz	Montfort Village President
<b>Jeanne Lou</b>	<b>Thomas-Christopher</b>	<b>Clifton Town Treasurer</b>
David	Varnam	Lancaster Mayor
Jerry	Wehrle	SW Wisconsin Regional Planning Board
John	Weigel	Wingville Town Supervisor
Jeff	Zander	Brigham Town Supervisor

**Exhibit A – Cardinal-Hickory Creek Project Meeting Registered Attendance By Round**

MEETING_DESC	ADDRESS	CITY	MEET_DATE	Attendees
Grant County Fairgrounds Youth and Agriculture Center	916 East Elm St	Lancaster	Monday, Oct. 6, 2014	163
Belmont Convention Center and Banquet Hall	102 W Mound View Ave	Belmont	Tuesday, Oct. 7, 2014	103
Dodger Bowl	318 King St	Dodgeville	Wednesday, Oct. 8, 2014	194
Marriott Madison West	1313 John Q Hammons Dr	Middleton	Thursday, Oct. 9, 2014	133
<b>R1 TOTAL</b>				<b>593</b>
Peosta Community Center	7896 Burds Road	Peosta	Monday, May 16, 2016	37
Pioneer Lanes	1185 US (Business) 151	Platteville	Tuesday, May 17, 2016	186
Deer Valley Lodge	401 West Industrial Drive	Barneveld	Wednesday, May 18, 2016	262
Deer Valley Lodge	401 West Industrial Drive	Barneveld	Thursday, May 19, 2016	198
<b>R2 TOTAL</b>				<b>683</b>
<b>R1 &amp; R2 TOTAL</b>				<b>1276</b>

## **Cardinal-Hickory Creek Macro-Corridor Public Comment Summary**

*April through June 2016*

### **Overview**

This document contains a categorized summary of areas of interest and issues included in written, telephone, email and in-person comments from the Potentially Affected Landowners, Potentially Affected Public Officials, members of the public, and other stakeholders.

The timeframe for these comments is from April 2016 through June 2016. Macro-corridors were announced to the public in April 2016 and shared at May 2016 open houses throughout the Project Study Area.

### **Agricultural**

Avoid prime farmland

Keep poles on outside edges of fields and along property lines instead of routing through the middle of fields or crossing properties diagonally

Note fenced farmland for rotational grazing of cattle and horses and potential impacts of transmission line to land use

Understand concerns about low-flying planes conducting aerial spraying on farms and the ability for pilots to safely fly near overhead transmission lines

Concerned about stray voltage and potential negative health affects for livestock, dairy animals and decreased milk production

Interested in compensation for crop damage during construction and ongoing maintenance

Concerned about property values for farms and farmettes, and ability to rent land with a transmission line on it

Concerned that noise and utility personnel may disrupt livestock and other farm animals, as well as other wildlife

Preserve countryside and its pristine views

Concern for pesticide-free and organic farms, including those who offer Community Supported Agriculture (CSA) shares to households throughout the area and farms that have been operating organically for decades or longer

Recognition of historical, cultural and social significance of multi-generational family farms, farms that have been in existence prior to Wisconsin statehood

Statement about existing utility work leaving messes and destroying fence lines. Owner notes cattle and horses have been injured on the debris

Would like confirmation that there will be an Agricultural Impact Statement conducted as part of the Wisconsin regulatory review process.

Do not want to lose forested land on properties

Houses are very close to the road along many country roadways

Town of Eden area has some of the richest soil in the state with very high production rates for both corn and soybeans. The soil consistency and drainage help conserve moisture in drought-type growing years.

### **Environmental**

Northern macro-corridor, with minimal existing infrastructure, contains multiple, significant environmentally sensitive areas

Consider endangered species and other wildlife when evaluating routes

Consider geological and natural features and waterways, natural springs and wetlands when evaluating routes

Avoid constructing transmission line near or adjacent to State Natural Areas (e.g. Pleasant Valley Conservancy State Natural Area), DNR-protected lands, state parks (e.g., Governor Dodge State Park), prairie restoration areas, oak savanna restorations, conservancies (e.g., Mississippi Valley Conservancy), recreational trails, wetlands and upland cover for wetlands, trout streams, recreational waterways (e.g., Sugar River)

Avoid wetlands, which host numerous bird species and are recognized for their natural beauty

Avoid unglaciated (Driftless) areas to protect geological features, trees, fish, wildflowers unique to this environment

Wooded areas provide important habitat for wildlife, including: rabbits, squirrels, turkey, white-tail deer, albino deer, groundhogs, turtles, reptiles, fox, coyotes, badgers, bald eagles, blue heron, pheasant, Canadian geese and many other types of animals and birds

Many landowners have invested in extensive tree planting, prairie/oak savanna restoration, invasive/exotic species removal, pond building and timber stand improvement

Some landowners in the project area participate in riparian, conservation reserve programs, conservation reserve enhancement programs, Wisconsin Managed Forest Program

Driftless area trout streams and their associated watersheds will be endangered and damaged from the huge 345 kV transmission line right-of-ways, and transmission lines and infrastructure.

The unglaciated terrain in Iowa County is rugged with high limestone and chert rock ridge tops that drop down to steep valleys and hollows. Heavy construction on the ridges would be difficult to access and lead to erosion; the hills are heavily forested with mature oak, hickory and black walnut trees; low lands are valuable for farming. Valleys have creeks, springs, ponds and waterways that run off the high ridges

Grasslands and prairie areas provide important habitat for nesting species of concern, including dickcissels, bobolinks, and other uncommon grassland birds; Red-headed woodpeckers, pileated woodpeckers, unusual native orchids and native woodland plants grow and thrive in wooded areas

Laxey Creek and pond, and the Iowa County Prairie Restoration Public Pond is a migration flyway for ducks, geese and other migratory birds. Area also hosts trumpeter swans, bald eagles and osprey

Avoid Wisconsin DNR's Ridgeway Pine Relict State Natural Area

### **Historic/Archaeological/Cultural**

Concern about what Native American tribes think about the Project

Whig United Methodist Church and Cemetery, located at 7158 Whig Road, Platteville, WI 53818, is of historic, cultural, social and religious significance.

The Platte Mound is a significant landmark in Platteville, Wisconsin, area; the "M" on Platte Mound is a symbol for the mining that took place so many years ago

The proposed northern route which would pass near major tourist attractions House on the Rock, Frank Lloyd Wright home, American Players Theater and Governor Dodge State Park

The Historic Laxey Cemetery is located directly within the macro-corridor and should be respected

### **Land Use**

Believe that local communities should have control over the placement of these structures rather than state/federal agencies

Avoid placing lines on or near platted development, buildable sites, luxury estate lots

Avoid areas with landing pads for low-flying helicopters used for aerial spraying, Med-flight helicopters and Wisconsin Department of Natural Resources surveying/Gypsy moth spraying

Review plans for other infrastructure improvements (electric, road, etc.) and coordinate with plans/construction

Avoid quarries and quarry ponds Madison Sand & Gravel pond

Incorporate planned Ice Age Trail segments when evaluating routes

Combine lower-voltage transmission lines on new 345-kV poles

Avoid UW-Platteville agroecology research property

Locate and avoid all airports and Accidental Potential Zones (APZs)

The City of Platteville Official Map depicts a future extension of Evergreen Road as far west as an extension of Philips Road. An existing 69 kV line runs west along the north ROW line of Evergreen Road

to Eastside Road. The City would like to partner whenever this line is to be replaced in order to be more convenient to all

Some landowners near macro-corridors are entering into discussions with various land Conservancies to place deed restrictions on future development on homesteads and acreages.

Some landowners are planning to allow trail access on our lands for a proposed hiking trail between Blue Mounds, Governor Dodge, and Tower Hill state parks

Some landowners are planning to apply the Wisconsin Department of Natural Resources Landowner Incentive Program. Any private land that is located in the Driftless Region is eligible for the LIP programs incentives to restore and maintain native prairie and oak woodland/savanna landscapes

Avoid recreational property

Snowmobiling group expressed support for the line and potential riding trails in winter

Project could prevent commercial development in prime areas

### **Living Near High-Voltage Transmission Lines (including Health and Safety)**

Concerned about potential adverse environmental effects on animals, plant life and humans from stray voltage and electric and magnetic fields

Address potential health hazards of compounding electromagnetic fields from additional high voltage lines with escalating exposure to cell phones, cell towers and Wi-Fi

Concerned about power lines and cancer and childhood leukemia

Avoid siting lines near schools

Concerned about noise from high-voltage transmission lines

Concerned about interference with cellular service, radio, GPS

Concerned about potential interference with implantable medical devices

### **Need/Benefits**

Requests made for an independent study of the need for this line, including alternatives to constructing this line

Request for independent cost-benefit analysis of this project, incorporating non-transmission alternatives

Preference for local/distributed generation, more investment in alternative sources of energy (wind/solar)

Energy use is decreasing thanks to conservation and alternative resources, believe there is no need for additional transmission grid improvements

Existing lines have always provided reliable power, so there's no need to build new lines



Feel utility companies should invest the profits from electric ratepayers in expanding locally-produced and growing use of non-fossil fuel energy such as solar power, which would benefit the environment by reducing carbon emissions while improving the economy with local jobs and businesses working toward sustainable energy systems

Believe transmission lines will soon be replaced with better technology

Provided detailed information on local economic benefits rather than regional

Believe the transmission line being proposed will provide improvements to the electric system to upgrade what we currently have and trust that this transmission line will address needs now and well into future

Accept, appreciate and understand the benefit and need of the project

Believe that the line will be transporting primarily coal-generated power, which would negatively impact the environment

Believe transmission lines carry electricity to the east coast where energy prices are higher and more money can be made for utilities

### **Public Outreach**

Thank you for your informative presentation; everyone was very friendly, helpful and considerate

Registered at open houses and left because it was too busy, would like someone to visit them to discuss project

Very good information from a very knowledgeable group of staff

Would like to see actual construction and right-of-way clearing photos in public informational materials

Would like open house/meetings to be located closer to northern macro-corridor, specifically Arena, Wisconsin, area

Think everyone, even those well outside of macro-corridors, should receive project newsletters

Acoustics in room were very loud and I had to be pulled away to a different room so we could discuss my concerns at Deer Valley Lodge

Expert wasn't immediately available to answer my question at open house due to large amount of attendees

Encourage utilities to be open and accountable throughout public involvement

Statement that many questions were not able to be answered at open house

Very well informed and patient person from the company answered our questions

### **Routing**

I ask you to keep your line along existing roadways, and respect unique landscape in Iowa

Many comments to follow the existing 18-151 corridor as much as possible

Many comments to follow existing corridors as much as possible instead of new right-of-way

Existing corridor routes appear to be least costly to build

Lines should be out in the country instead of through residential areas; if they are in populated areas, site them by the commercial/industrial parks

Prefer northern macro-corridor over siting in Mount Horeb area

Believe it would be much easier and cost effective for Cardinal-Hickory Creek to acquire the small amount of additional easements needed from sites that currently have power lines on them

The area next to Highway 18/151 is already cleared, so the cost of clearing the 150-foot-wide path is already completed; 18/151 rides the top of the ridge (for the most part) and does not cross many streams; the northern route would cross streams in nearly every valley, along with a significant amount of wetland in the lower valleys

Highway 18-151 is essentially an industrial area already. It carries tens of thousands of vehicles a day and communities along its route are already adjusted to that disturbance, and taking advantage of the benefits it affords them; Dane County Highway P, while not as busy as 18-151, is already a major artery carrying traffic to the west side of Madison, and the impacts of development from Mount Horeb, Verona, and Fitchburg is evident; all of those communities have long-term expansion plans for commercial, industrial and residential development, into which the transmission line would be a reasonable fit

Avoid Governor Dodge State Park, which hosts more than 500,000 visitors per year; hundreds of campers also stay at Bethel Horizons camp every year, whose experience of natural beauty, peace, and undisturbed landscape would be negatively affected by the looming presence of high voltage power lines on the border of their camp

Use the shortest route that leverages existing easements and is the least impactful to commercial and residential properties and property owners

### **Social/Economic/Property Values**

Mt. Horeb, is greatly dependent on the beautiful vistas; by running the transmission lines to the north and west of Mt. Horeb, the local economy will be compromised; the value of these available home sites is important to the local municipality as well

Because of the scarcity of density units/ home sites, residential development is limited in places like the Town of Blue Mounds

The route as designed as a straight line across this largely undeveloped natural habitat results in greatest intervention on the land and though the line may be cost effective by one calculation, the environmental costs are must be considered

Oppose siting transmission lines in areas with large tourist economies

Believe line would have negative impact on property values

There were two power plants in Cassville that provided jobs for many people; the area is in dire need of almost any kind of jobs

Line could impact marketable timber growing operations

Concerned about compensation from crop damages

Should compensate landowners by valuing properties at above-market prices

Believe line will cost state of Wisconsin much more in tourist dollars than it can recover from economic benefits of the project

Affected landowners should receive payments for every year rather than a one-time easement payment

Potential home purchasers along new right-of-way macro-corridors expect natural beauty

The Wyoming Valley (Taliesin, House on the Rock, American Players Theatre) is a major Wisconsin tourist attraction that would be adversely affected by this project

### **Viewshed/aesthetics**

Avoid routes that would add infrastructure to otherwise untouched landscapes

Stay away from Governor Dodge State Park and that route to preserve scenic area

Many people will move if they have views of 345-kV lines

Believe property owners on hills will be able to see line in any of the macro-corridors

Above-ground transmission lines would spoil views

Rolling hills and beautiful scenic roads along northern macro-corridor are biked, hiked and enjoyed by thousands of tourists and local people every year

Avoid routing near Town of Wyoming and Frank Lloyd Wrights' home, Taliesin. If the project follows the corridor near Hwy 23, Hwy Z and Hwy T, would like to request a viewshed analysis to protect these landmarks.

**APPENDIX G - LIST OF IN-PERSON FEDERAL, STATE, AND LOCAL  
AGENCY OUTREACH**

**Table G-1: List of In-Person Agency Outreach (substantive meetings and calls) – Federal and State as well as Local Agencies with Jurisdiction over the Project**

Date	Attendees	Purpose of Meeting	Material(s) shared
<b>2012</b>			
4/16/2012	USFWS: Tim Yager, Clyde Male USACE: Simone Kolb ATC: Pete Holtz, Amy Lee Stantec: Scott Storlid	Meeting to introduce Project and identify potential locations for crossing the Mississippi River.	
7/18/2012	City of Dubuque: Mike Van Milligen, David Heiar, Steve Sampson Brown, Gus Psihoyos, Robert Schiesl, Barry Lindahl ATC: Andy Schaeve, Sarah Justus, Tom Dagenais, Bob Holz (Davis Brown)	ATC's initial meeting with the City of Dubuque.	
7/31/2012	IUB: Gary Stump, Jim Sundermeyer, Mack Thompson, Chancy Bittner, Don Stursma, David Lynch, Andrew Magraine ATC: Jamie Lostetter, Andy Schaeve, Dale Burmester, Amy Lee, Trisha Smith, Sarah Justus, Bob Holz (Davis Brown)	Introductory meeting with the IUB on Project.	
7/31/2012	IDNR: Daryl Howell, Kelly Poole, Todd Rozendaal, Travis Baker, Aaron Brees ATC: Andy Schaeve, Amy Lee, Trisha Smith, Bob Holz (Davis Brown)	Introductory meeting with the IDNR on Project.	
8/13/2012	USACE: Simone Kolb, Jim Kelley, Bill Gretten, Jim Piper, Gary Swenson, Jon James ATC: Amy Lee, Andy Schaeve	Meeting to discuss L&D 11 crossing alternative.	
8/15/2012	PSCW: Dan Sage, Scot Cullen, Don Neumeyer, Udaivir Sirohi, Kathy Zuelsdorff, Marilyn Weiss, Ken Rineer WDNR: Cheryl Laatsch, Dave Siebert ATC: Jamie Lostetter, Andy Schaeve, Tom Dagenais, Amy Lee, Sarah Justus, Lee Cullen (Cullen, Weston, Pines & Bach)	Introductory meeting with PSCW and WDNR on Project.	

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<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
9/18/2012	City of Dubuque: Dave Heiar, Barry Lindahl USFWS: Rich King, Tim Yager USACE: Simone Kolb IUB: Jim Sundermyer WDNR: Cheryl Laatsch, Shari Koslowsky PSCW: Ken Rineer, Dan Sage ATC: Amy Lee, Andy Schaeve, Chris Zibart Stantec: Justin Funk	Meeting to discuss potential crossings of Mississippi River.	
<b>2013</b>			
6/18/2013	USFWS: Rich King ITC: Dan Hagan, Mark Ryan, Chad Levi	Meeting to discuss potential crossings of Mississippi River.	
10/10/2013	USFWS: Drew Becker Iowa Natural Heritage Foundation: Lisa Hein Iowa Environmental Council: Nathaniel Baer, Josh Mandelbaum Iowa Chapter of the Audubon Society: Doug Harr Iowa Chapter of the Nature Conservancy: Jan Glendining, Scott Moats Iowa Chapter of the Sierra Club: Pam Mackey Taylor, Jane Clark Center for Rural Affairs: Stephanie Enloe ITC: Dan Hagan, Mark Ryan, Angela Jordan	Meeting to provide overview of the MVP projects, including the Mississippi River crossing, with the environmental agencies in Des Moines, Iowa.	
10/31/2013	USFWS: Clyde Male, Drew Becker Iowa Sierra Club: Pam Mackey Taylor Driftless Area Bird Conservation: John Stravers Clayton Co. Conservation Board: Joe Ihm, Larry Stone ITC: Dan Hagan, Mark Ryan Burns & McDonnell: Jack Middleton	Onsite tour of Iowa study area with environmental agencies and conservation stakeholders.	
<b>2014</b>			

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<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
3/3/2014	City of Dubuque: Dubuque City Council ITC: Angela Jordan, Mark Ryan Burns & McDonnell: Jack Middleton	Presentation to Dubuque City Council regarding the Project.	-Map book
3/4/2014	USFWS: Rich King ITC: Dan Hagan, Mark Ryan	Meeting to discuss potential crossings of Mississippi River.	
5/2/2014	City of Dubuque: Mike Van Milligen, Gus Psihoyos, Maureen Quann, Maurice Jones ITC: Angela Jordan, Mark Ryan	Meeting to discuss potential impacts of routing 345 kV line through Dubuque.	-PowerPoint presentation
5/6/2014	USFWS: Rich King, Connie Rose ATC: Amy Lee ITC: Mark Ryan, Dan Hagan Sparrow: Tom Hillstrom	Meeting to discuss impacts of routing 345 kV line through Dubuque.	-PowerPoint presentation
6/10/2014	Iowa Environmental Council: Nathaniel Baer, Josh Mandelbaum Iowa Chapter of the Audubon Society: Doug Harr: Iowa Chapter of the Nature Conservancy: Jan Glendining, Scott Moats Iowa Chapter of the Sierra Club:Pam Mackey Taylor, Jane Clark Center for Rural Affairs: Stephanie Enloe Iowa Natural Heritage Foundation: Lisa Hein ITC: Dan Hagan, Troy Weary, Mike Ivester, Doug Sabinash, Tim Iannettoni, Matt Carstens, Mark Ryan	Meeting to discuss potential Cassville crossings.	-Map book
9/19/2014	USFWS: Rich King ATC: Amy Lee ITC: Mark Ryan, Dan Hagan Sparrow: Tom Hillstrom	Meeting to discuss updates on potential crossings of Mississippi River.	-Map books -PowerPoint presentation

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<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
9/22/2014	IUB: Cecil Wright, David Lynch, Rob Hillestrand, Jim Sundermeyer, Sheila Tipton, Nick Wagner, Don Stursma ATC: Jamie Lostetter, Andy Schaeve ITC: Dan Hagen, Mark Ryan, Lisa Stump	Meeting to update IUB on Project; announce public outreach in Wisconsin.	-PowerPoint presentation
9/23/2014	City of Dubuque: Mike Van Milligen, Barry Lindahl, Gus Psihoyos, Maurice Jones ITC: Mark Ryan, Angela Jordan	Meeting with City Manager of Dubuque regarding potential Mississippi River crossing in Dubuque.	-Map book -Draft plan and profile -Landowner lists
9/30/2014	PSCW: Jim Lepinski, Dan Sage, Carol Stemrich, Don Neumeyer, Kathy Zuelsdorff, Ken Rineer, Jeff Kitsembel, Akanksha Pachpinde, Alexander Vedvik WDNR: Stacy Rowe, David Siebert, Joshua Brown, Ben Callan ATC: Jamie Lostetter, Andy Schaeve, Chris Zibart, Amy Lee, Tom Dagenais, Greg Levesque ITC: Dave Grover, Mark Ryan, Dan Hagan	Meeting to update on Project and announce public outreach in Wisconsin.	-Study area map
10/8/2014	City of Dubuque: Mike Van Milligen, Barry Lindahl, Gus Psihoyos, Maurice Jones ITC: Matt Carstens, Mark Ryan	Meeting regarding potential Mississippi River crossing.	
10/30/2014	USACE: Simone Kolb USFWS: Rich King ATC: Amy Lee ITC: Mark Ryan, Dan Hagan	Meeting about USACE permit process.	



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<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
11/11/2014	City of Dubuque: Nate Kiefer ITC: Mark Ryan, Angela Jordan	Meeting to provide updates on three preliminary corridors for crossing alternatives in the Dubuque area and the results of cultural research.	-Map book -Plan and Profiles for three route alternatives -Route comparison data -Cultural Resources Research -Landowner lists
<b>2015</b>			
1/7/2015	USACE: Paul St. Louis, Nathan Wallerstedt, Henry DeHann, Jim Piper, Robert Germann, Tom Heinold, Harland Shannon, Doug Crum, Rick Hauck ITC: Dan Hagan, Mark Ryan, Henry Wen, Matt Carstens Burns & McDonnell: Jack Middleton, Joe Pattison	Conference call to discuss potential crossings at L&D 10 and L&D 11.	
1/30/2015	USFWS: Rich King ITC: Dan Hagan, Mark Ryan	Meeting about USFWS compatibility determination.	
2/4/2015	USFWS: Rich King USACE: Paul St. Louis, Nathan Wallerstedt, Henry DeHann, Harland Shannon, Doug Crum, Simone Kolb, Donna Hardy ATC: Amy Lee ITC: Dan Hagan, Mark Ryan, Angela Jordan, Aaron Curtis, Henry Wen, Corey Proctor Burns & McDonnell: Jack Middleton	Meeting to provide update on Project status and review of crossing alternatives, feasibility of non-Refuge crossings, and key constraints.	-PowerPoint presentation -Maps

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<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
2/12/2015	USFWS: Rich King, Drew Becker USACE: Simone Kolb, Donna Hardy, Paul St. Louis, Nathan Wallerstedt ATC: Amy Lee, Greg Levesque ITC: Dan Hagan, Aaron Curtis, Henry Wen, Mark Ryan, Angela Jordan Burns & McDonnell: Jack Middleton Sparrow: Tom Hillstrom	Meeting to discuss analysis of Nelson Dewey and Stoneman crossing location alternatives.	-PowerPoint presentation -Map
3/6/2015	City of Dubuque: Mike Van Milligen, Barry Lindahl, Gus Psihoyos, Maurice Jones ITC: Mark Ryan, Angela Jordan, Matt Carstens Briggs and Morgan: Lisa Agrimonti	Meeting about Dubuque transmission line permitting requirements.	-Map
3/9/2015	USFWS: Andrew Horton ATC: Amy Lee ITC: Dan Hagan, Mark Ryan	Meeting to discuss updates on potential Mississippi River crossing alternatives.	-Presentation -Study Area Map
4/24/2015	City of Guttenberg: Mary Willett, City Manager ITC: Mark Ryan, Angela Jordan Burns & McDonnell: Jack Middleton	Meeting to provide overview of proposed Project.	-Maps
5/11/2015	USFWS: Rich King ITC: Dan Hagan	Meeting to discuss comparable analysis factors in the ACA.	-Outline of Analysis Factors
6/24/2015	East Dubuque: Geoff Barkalow ITC: Angela Jordan Burns & McDonnell: Jack Middleton	Meeting to share maps of the seven alternative crossing locations.	-Maps
8/14/2015	USFWS: Charlie Wooley, Charlie Blair, Tom Worthington ATC: Tom Finco ITC: Krista Tanner DPC: Ben Porath	Meeting to discuss Mississippi River crossing for the Project.	
9/10/15	National Park Service: Pam Schuler, Manager Ice Age National Scenic Trail ATC: Amy Lee	Meeting to introduce the project.	Study area map

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<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
10/15/2015	USACE: Kerrie Hauser, Todd Vesperman ATC: Amy Lee ITC: Dan Hagan	Meeting to provide an update on Mississippi River crossing alternatives.	
<b>2016</b>			
1/13/2016	IUB: Don Stursma, Bao Nguyen, Jim Sundermeyer, Magid Yousif, Cynthia Munyon, Jennifer Johnson, Mack Thompson OCA: Mark Schuling, Brian Turner, Frank Bodine, Larry Shi ATC: Jamie Lostetter DPC: Chuck Thompson, Jeff Landsman ITC: Dan Hagan, Tim Iannettoni, Mark Ryan, Tim Tessier Fredrikson and Byron: Lisa Agrimonti	Meeting to update IUB on Project and the Mississippi river crossing.	-Map book
2/11/2016	RUS: Dennis Rankin, Lauren Cusick, Erika Martin Seibert, Basia Howard, Kenneth Solano, Debra Blankenship ATC: Pete Holtz ITC: Mark Ryan, Dan Hagan DPC: Chuck Thompson Wheeler, Van Sickle, and Anderson: Jeff Landsman Fredrikson and Byron: Lisa Agrimonti Azar Law: Lauren Azar	Introduce the Project	-Map of Study Area, - Contacts for the Utilities, - Proposed Schedule, - List of Third-Party Consultants for RUS to consider
4/13/16	WDNR: Josh Brown and Dave Siebert ATC: Amy Lee	Phone meeting to share open house dates and preliminary corridors. Also updated on DPC involvement and in-service date, anticipated RUS multi-agency meeting.	Preliminary corridor map with open house locations
4/20/16	City of Dubuque: Mike VanMilligen, ITC: Angela Jordan	Meeting to update on project and inform them of open houses	Project factsheet and overview
5/15/16	National Park Service: Pam Schuler, Manager Ice Age National Scenic Trail ATC: Amy Lee	Meeting to show preliminary corridors and general project discussion.	Preliminary corridor map with open house locations

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<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
5/17/2016	RUS: Dennis Rankin, Lauren Cusick ATC: Pete Holtz ITC: Dan Hagan, Mark Ryan DPC: Chuck Thompson USFWS: Rich King, Andrew Horton (on phone) USACE: Jeff Nelson, Joe Lundh, Kerrie Hauser IUB: Magid Yousif PSCW: City of Guttenberg, IA Wisconsin DNR Iowa DNR City of Dubuque, IA	RUS all-agency meeting with federal and state agencies with jurisdiction to and/or interest in the Project.	Overview of the project, including timelines, maps and discussion of the regulatory processes in Iowa and Wisconsin and how they interact with the Federal Process/ RUS conducted a separate meeting with the Agencies.
9/14/2016	USFWS: Sabrina Chandler, Tim Yager, Wendy Woyczik, ATC: Amy Lee ITC: Dan Hagan DPC: Joleen Trussoni	Update USFWS regarding Mississippi River crossing and RUS NEPA process	Presentation
9/19/2016	RUS: Dennis Rankin; SWCA: Coleman Burnett, Greg Poremba, Joan Darling, and Joseph Fluder via phone. ATC: Pete Holtz, Amy Lee, ITC: Mark Ryan, Dan Hagen; DPC: Chuck Thompson, Joleen Trussoni.	RUS convened a meeting among RUS, SWCA and the Utilities to review the SWCA work plan.	
9/20/2016	RUS: Dennis Rankin; USACE: Kerri Hauser SWCA: Coleman Burnett, Greg Poremba, Joan Darling; ATC: Pete Holtz, Amy Lee, Aaron Hartman; ITC: Mark Ryan, Dan Hagen; DPC: Chuck Thompson, Joleen Trussoni.	RUS convened a bus tour for federal agencies and SWCA. The Utilities were invited.	

**Table G-1: List of In-Person Agency Outreach (substantive meetings and calls) – Federal and State as well as Local Agencies with Jurisdiction over the Project**

<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
9/21/16	RUS: Dennis Rankin; USACE: Kevin Zidarich, Joseph Lundh, Wendy Frohlich, Jeff Nelson, Kerrie Hauser; USFWS: Tim Yager, Wendy Woyczik, Andrew Horton; ATC: Pete Holtz, Amy Lee; ITC: Dan Hagan; DPC: Joleen Trussoni; SWCA: Coleman Burnett, Greg Poremba, Joan Darling, and Joseph Fluder via phone.	RUS convened a Cooperating Agency meeting at which Utility representatives attended.	

**APPENDIX H - FEDERAL, STATE, AND LOCAL AGENCY  
CORRESPONDENCE AND EMAILS**

July 23, 2013

«Title» «First» «Last»

«Agency»

«Address»

«Address\_2»

«City», «State» «Zip\_Code»

ITC Midwest Hickory Creek to Cassville Transmission Line Project  
Request for Information  
Project number 74417

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«GreetingLine»

ITC Midwest (ITC) is proposing to build a 345/161-kilovolt (kV) transmission line in North Eastern Iowa (the “Project”). The new line would extend north from the proposed Hickory Creek Substation located east of New Vienna, Iowa and connect to the Turkey River Substation west of Millville, Iowa. The new line would then continue east across the Mississippi River to Cassville, Wisconsin. The Project is part of ITC’s continuing efforts to improve the reliability of the electric transmission system and to serve the growing needs of customers in Iowa and throughout the region. ITC is currently gathering data to be used in routing the proposed transmission line consistent with Iowa law. Justification for the proposed line and route will ultimately be submitted to the Iowa Utilities Board (IUB) for approval. The IUB must approve the project before construction can begin.

ITC has retained Burns & McDonnell to assist in developing potential routes for the Project. Burns & McDonnell has identified a study area for the proposed transmission line, shown on the enclosed map. The study area is located within Clayton and Dubuque counties in Iowa. Burns & McDonnell is requesting your assistance in inventorying the human, cultural, and natural resources in the study area to identify any routing considerations within this area. Your input on any of the following resources will assist the study team in developing route corridors that take advantage of opportunities while minimizing environmental impacts:

- Land Use
- Aesthetics
- Water quality and wetlands
- Soils and geology
- Wildlife, vegetation and fisheries, including threatened and endangered species
- Socioeconomics (population, employment, growth, development)

«Title» «First» «Last» «Suffix»

«Agency»

July 23, 2013

Page 2

- Hazardous materials sites
- Cultural resources (historic and archaeological sites, cemeteries)
- Transportation and roads (airport and roadway expansions, construction, operations and maintenance)

We also would appreciate any comments or information on additional issues or concerns you feel would help the study team identify and understand the resources within the study area. If you would like to receive electronic files of the study area or require additional technical information, please contact Kate Staver at [kstaver@burnsmcd.com](mailto:kstaver@burnsmcd.com) (or at 816-276-1535). Otherwise, we would appreciate if you could provide comments to the following address:

Kate Staver  
Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

We would appreciate receipt of comments by August 23, 2013. Thank you for your time and assistance on the Hickory Creek to Cassville 345/161-kV Transmission Line Project.

Sincerely,

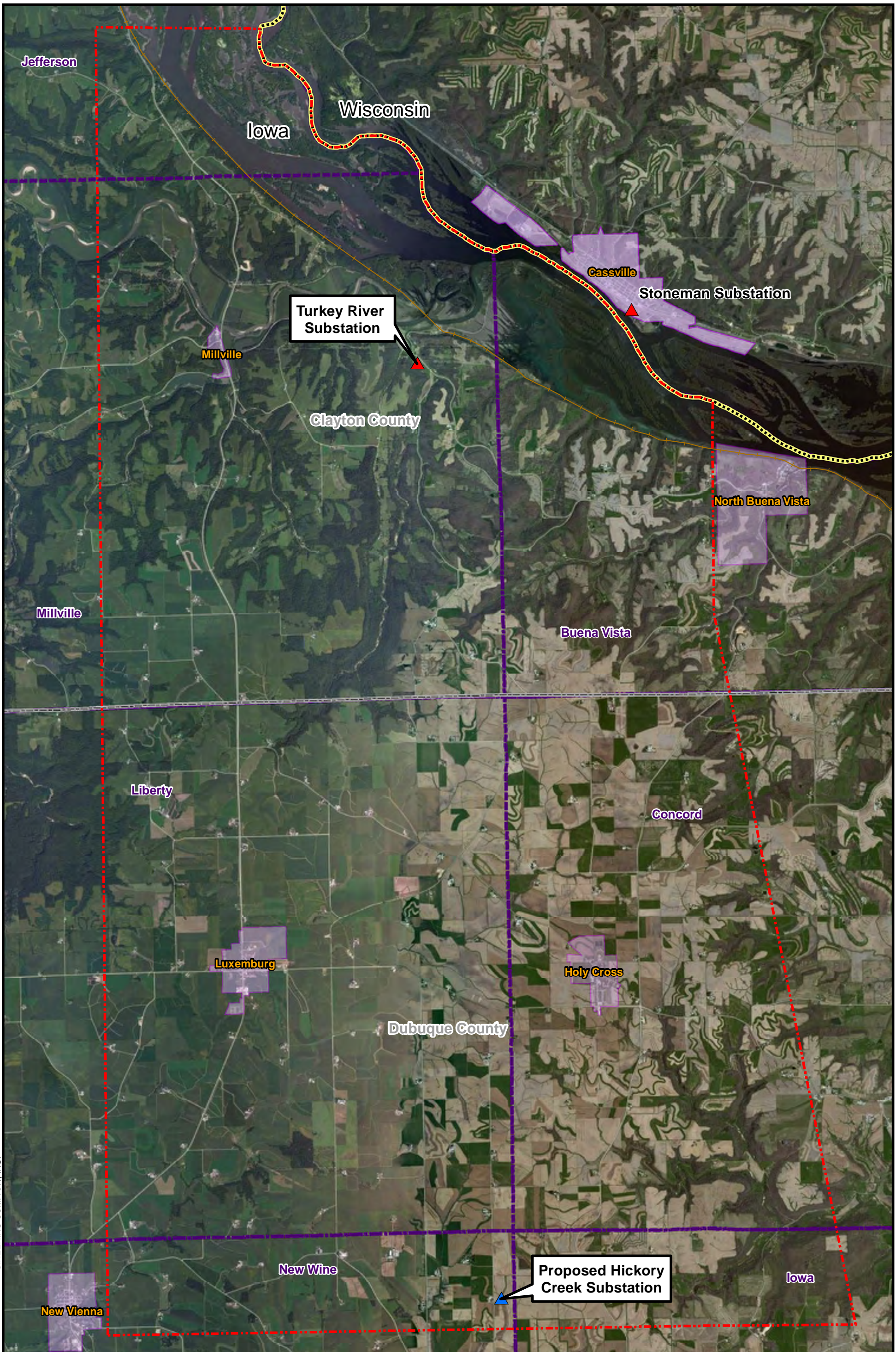


Angela Jordan  
Area Manager- Local Government and Community Affairs

Enclosure: Study Area Map



Path: R:\ITC\71787\_Killdeer-Hampton\GIS\HickoryCreek\_Cassville\GIS\DataFiles\ArcDocs\HickoryCreek\_Cassville\_StudyAreaFigure\_11x17.mxd kstaver 7/8/2013  
 COPYRIGHT © 2013 BURNS & MCDONNELL ENGINEERING COMPANY, INC.



	<ul style="list-style-type: none"> <li> Study Area Boundary</li> <li> Existing Substation</li> <li> Proposed Substation</li> <li> Railroads</li> </ul>	<ul style="list-style-type: none"> <li> Municipal Areas</li> <li> County Boundary</li> <li> Civil Township</li> <li> State Boundary</li> </ul>	<p>Map Locator</p>		<p>ITC Midwest        Hickory Creek to Cassville        Double Circuit 345/161-kV        Transmission Line Project        Study Area Map</p>
--	--	--	--------------------	--	--

Hickory Creek to Turkey River  
Agency Contact List

Agency	Title	First	Last	Suffix	Position	Address	Address_2	City	State	Zip_Code	Phone	Email
Iowa Department of Agriculture and Land Stewardship	Mr. Todd	Coffelt			Water Resources Bureau Chief	IDALS, Wallace State Office Building	502 E. 9th St.	Des Moines	IA	50319	515-281-6147	waterResources@iowaAgriculture.gov
Iowa Department of Natural Resources	Ms. Barbara	Lynch			Field Services and Compliance Bureau Chief	Wallace State Office Building	502 E. 9th Street	Des Moines	IA	50319	712-260-1728	barbara.lynych@dnr.iowa.gov
Iowa Department of Natural Resources	Ms. Kelly	Poole			Sovereign Lands Coordinator	502 East 9th Street		Des Moines	IA	50319	515-281-8967	kelly.poole@dnr.iowa.gov
Iowa Department of Natural Resources	Mr. Jeff	Simmons			Floodplains	502 East 9th Street		Des Moines	IA	50319	515-281-8968	jeff.simmons@dnr.iowa.gov
Iowa Department of Natural Resources	Ms. Asia	Azam			Floodplains	502 East 9th Street		Des Moines	IA	50319	515-281-8869	asia.azam@dnr.iowa.gov
Iowa Department of Natural Resources	Ms. Christine	Schwake			Water Quality	502 East 9th Street		Des Moines	IA	50319	515-281-6615	christine.schwake@dnr.iowa.gov
State Historical Society of Iowa	Ms. Mary	Cownie			Director, Iowa Department of Cultural Affairs	600 East Locust		Des Moines	IA	50319	515-281-7471	mary.cownie@iowa.gov
Iowa Department of Transportation	Ms. Krista	Rostad			District Transportation Planner, District 2	1420 Fourth St. SE		Mason City	IA	50402	641-422-9447	krista.rostad@dot.iowa.gov
Iowa Department of Transportation	Mr. Sam	Shea			District Transportation Planner, District 6	455 Kirkwood Blvd SW		Cedar Rapids	IA	52404	319-364-0235	sam.shea@dot.iowa.gov
Iowa Department of Transportation	Ms. Vicki	Dumdei	PE		District Engineer, District 2	1420 Fourth St. S.E.		Mason City	IA	50401	641-422-9465	Victoria.Dumdei@dot.iowa.gov
Iowa Department of Transportation	Mr. Jim	Schnobelen	PE		District Engineer, District 6	5455 Kirkwood Blvd. S.W.		Cedar Rapids	IA	52404	319-364-0235	jim.schnobelen@dot.iowa.gov
East Central Iowa Association	Chandra	Ravada			Transportation Director	7600 Commerce Park		Dubuque	IA	52002	569-556-4166	cravada@ecia.org
Iowa Department of Public Health	Mr. Ken	Sharp			Division Director, Environmental Health	Lucas State Office Building	321 E. 12th St.	Des Moines	IA	50319	515-281-5099	kenneth.sharp@idph.iowa.gov
Iowa Natural Heritage Foundation	Mr. Joe	McGovern			Land Stewardship Program Director	505 Fifth Avenue		Des Moines	IA	50309	515-288-1846 ext. 16	jmcgovern@inhf.org
Iowa Natural Heritage Foundation	Ms. Lisa	Hein			Program and Planning Director	505 Fifth Avenue	Suite 444	Des Moines	IA	50309	515-288-1846	lhein@inhf.org
Iowa Environmental Council	Mr. Nathaniel	Baer			Energy Program Director	521 East Locust Street	Suite 220	Des Moines	IA	50309-1939	319-321-8449	baer@iawenvironment.org
Environmental Law & Policy Center	Mr. Joshua	Mandelbaum			Staff Attorney	505 Fifth Avenue	Suite 333	Des Moines	IA	50309	(515) 244-0253	jmandelbaum@elpc.org
Center for Rural Affairs	Mr. Brian	Depew			Assistant Executive Director, Policy & Outreach Programs Director	145 Main St	PO Box 136	Lyons	NE	68038	402.687.2103 ext 1015	briand@cfra.org
The Nature Conservancy	Ms. Susanne	Hickey			Director of Conservation Programs, Iowa	1875 Camden Ave.		Omaha	NE	68134	402-558-8099	shickey@tnc.org
The Nature Conservancy	Mr. Scott	Moats			Fire Manager for Iowa and Nebraska	24764 Highway 12		Westfield	IA	51062	712-568-2596	smoats@tnc.org
Iowa Audubon	Mr. Douglas C.	Harr			President, Board of Directors; C.O.O.	508 Jones SW 2nd Street		Ogden	IA	50212		dharr@retinsnet
Iowa Chapter of the Sierra Club	Ms. Pam	Mackey-Taylor			Energy Chair	118 3rd Avenue SE	Suite 326	Cedar Rapids	IA	52401	515-277-8868 (main office)	pammackeytaylor@aol.com
USDA NRCS	Mr. Mike	Webster			Easement Specialist, Northeast Iowa	New Hampton Service Center	420 W. Milwaukee Str	New Hampton	IA	50659-1104	641-394-5929	michael.webster@ia.usda.gov
National Park Service	Mr. Michael T.	Reynolds			Midwest Regional Director	601 Riverfront Drive		Omaha	NE	68102	402-661-1736	Mke_Reynolds@nps.gov
Natural Resource Conservation Service	Mr. Jay	Mar			State Conservationist	210 Walnut Street	Ste. 693	Des Moines	IA	50309	515-284-4394	jay.mar@ia.usda.gov
United States Army Corps of Engineers	Mr. Gary R	Meden			Deputy for Programs and Project Management, Rock Island Division	Clock Tower Building	P.O. Box 2004	Rock Island	IL	61204	309-794-5371	gary.r.meden@usace.army.mil
United States Army Corps of Engineers	Mr. Joe	Lundh			Mississippi River Project Office	P.O. Box 534		Pleasant Valley	IA	52767	309-794-4528	Joseph.S.Lundh@usace.army.mil
United States Army Corps of Engineers	Mr. Mike	Hayes			Project Engineer	Clock Tower Building	P.O. Box 2004	Rock Island	IL	61204	309-794-5367	michael.d.hayes@usace.army.mil
United States Fish and Wildlife Service	Mr. Richard C.	Nelson			Rock Island Field Office Supervisor	1511 47th Avenue		Moline	IL	61265	309-757-5800 ext. 201	Richard_C_Nelson@fws.gov
United States Fish and Wildlife Service	Mr. Timothy	Yager			Refuge Manager, Winona District	51 E. 4th Street		Winona	MN	55987	507-494-6219	Timothy_Yager@fws.gov
United States Fish and Wildlife Service	Mr. Rich	King			Refuge Manager, McGregor District	401 Business Hwy 18 N		McGregor	IA	52157	563-873-3423 Ext. 12	richard_king@fws.gov
United States Fish and Wildlife Service	Mr. Clyde	Male			Assistant Refuge Manager, McGregor District	401 Business Hwy 18 N		McGregor	IA	52157	563-873-3423 Ext. 23	cyde_male@fws.gov
United States Fish and Wildlife Service	Mr. Kraig	McPeck			Assistant Field Supervisor, Ecological Services	1511 47th Avenue		Moline	IL	61265	309-757-5800 Ext. 202	kraig_mcpeck@fws.gov
United States Fish and Wildlife Service	Mr. Drew	Becker			Fish and Wildlife Biologist, Ecological Services	1511 47th Avenue		Moline	IL	61265	309-757-5800 Ext. 216	drew_becker@fws.gov
Federal Aviation Administration	Mr. Joe	Miniaci			Central Regional Administrator	901 Locust Street		Kansas City	MO	64106	816-329-3050	
Clayton County	Mr. Tim	Engelhardt			Conservation Director	29862 Osborne Road		Elkader	IA	52043	563-245-1516	tengelhardt@claytoncountiia.gov
Clayton County	Mr. Rafe	Koopman			County Engineer	600 Gunder Rd NE, Suite 14		Elkader	IA	52043	563-245-1782	cceng@claytoncountiia.gov
Clayton County	Ms. Janet	Ott			Zoning Administrator, Clayton County	600 Gunder Rd NE, Suite 12		Elkader	IA	52043	563-245-2451	jott@claytoncountiia.gov
Dubuque County	Mr. Brian	Preston			Conservation Director	13606 Swiss Valley Road		Peosta	IA	52068	(563) 556-6745	
Dubuque County	Mr. Bret	Wilkinson			County Engineer	13047 City View Drive		Dubuque	IA	52002	563-557-7283	
Dubuque County	Ms. Anna	O'Shea			Planning and Zoning Office Administrator	13047 City View Drive		Dubuque	IA	52002	563-589-7827	zoningadmin@dbqco.com
ITC Midwest	Mr. Henry	Wen			Project Engineer	123 5th Street S.E.		Cedar Rapids	IA	52401	319-297-6769	hwen@itctransco.com
ITC Midwest	Mr. Dick	Coeur			General Manager – Community and Customer Relations	123 5th Street S.E.		Cedar Rapids	IA	52401	319-297-6802	wcoeur@itctransco.com
ITC Midwest	Mr. Jim	Spicer			Project Engineer	123 5th Street S.E.		Cedar Rapids	IA	52401	(319) 297-6795	jspicer@itctransco.com
ITC Midwest	Ms. Lori	Broghammer			Area Manager	20789 780th Avenue		Albert Lea	MN	56007	(807) 377-6000 x2002	lbroghammer@itctransco.com
ITC Midwest	Mr. Troy	Weary			Area Manager	100 East Grand Avenue	Suite 230	Des Moines	IA	50309	(515) 282-5300 x461	tweary@itctransco.com
ITC Midwest	Ms. Angela	Jordan			Area Manager	123 5th Street S.E.		Cedar Rapids	IA	52401	(319) 297-6819	ajordan@itctransco.com



*The Voice for Iowa's Birds*

21 August 2013

Kate Staver  
Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Re: Project # 74417, ITC Midwest Hickory Creek to Cassville Transmission Line Project

Dear Ms. Staver:

Iowa Audubon greatly appreciates the opportunity for providing comments regarding the above-referenced project.

This particular project does raise some concerns with our organization, due to the importance of forest resources in Clayton County and the often critical habitat those woodlands provide for forest birds. Many species of forest birds are in decline continent-wide, greatly due to habitat loss or fragmentation. The study area map provided us encompasses a fairly wide swath of landscape, making it somewhat difficult for me to pinpoint sites that might be of great importance to avoid with transmission line siting. However, given the location of the Turkey River substation and proposed Hickory Creek substation, I would expect the proposed line will follow as direct a route as possible between these two points.

The southern two-thirds of the study area (Concord and Liberty Townships) might appear to be of minor concern for birdlife, given the paucity of forest resources and preponderance of open farmland there. However, Buena Vista Twp. and the eastern portions of Millville Twp. appear much more problematic. In particular, south and southeast of the Turkey River substation are several large blocks of forest that would be of high value to numerous avian species because of their intact block size. Placement of a transmission line through any of these blocks would result in habitat fragmentation, one of the leading causes of forest bird decline worldwide. Because Iowa is notably forest-poor, preservation of unfragmented forest stands is among the highest priorities of Iowa Audubon, as it is with the Iowa Department of Natural Resources Wildlife Bureau, and with other conservation agencies and NGOs.

We also have concerns about how and where any new/additional line might cross the Mississippi River to Cassville, WI. You are certainly well aware of the status of this area as part of the Upper Mississippi Fish & Wildlife Refuge. Substantial floodplain forests and backwater areas here are of immense value to lowland songbirds, waterfowl, Great Blue Herons, Bald Eagles and many other species. Bald Eagles also concentrate here for overwintering in prime riverine habitat. Additionally, many of the Mississippi's open water expanses above Dubuque (as far north as Winona, MN), constitute some of the nation's most important fall waterfowl migration staging areas, in particular for species such as Canvasback and Lesser Scaup ducks

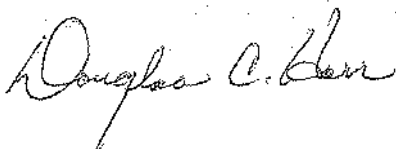
and for Tundra Swans. Placing any additional lines across the Mississippi River here could result in greater threat of bird collisions with the lines. Although I was unable to tell by examining the map provided, upon enlarging a Google Earth map on computer I was able to see what appears may be a current set of lines crossing from the Turkey River to Cassville substations. If so, and if additional lines are required to cross the river, they should be co-located within the existing right-of-way, to minimize any additional avian collision possibilities.

Finally, although this is not a subject of Iowa Audubon's expertise, it is worth noting that archaeological sites frequently occur in the forested hills and lowlands of NE Iowa, and in fact the Turkey River substation is situated very near the Turkey River Mounds State Preserve. We trust that an extensive review for archeological sites will be conducted prior to any final line routing.

If and when a more narrowly defined route is mapped, Iowa Audubon would again appreciate the opportunity to review such a map for refined assessment of potential bird conflicts. I currently am part of a steering committee working on the 2<sup>nd</sup> Breeding Bird Atlas for Iowa and have access to yet unpublished data from the past five years of bird surveys conducted in nearly 800 9-sq. mi. blocks distributed across every Iowa county. If the proposed line should happen to pass through any of the survey blocks in Clayton County, it may be possible to determine what species of birds nest within those blocks and assess whether or not a new transmission line would threaten any rare or declining species.

Thanks again for the opportunity to review this proposed project and provide comments.

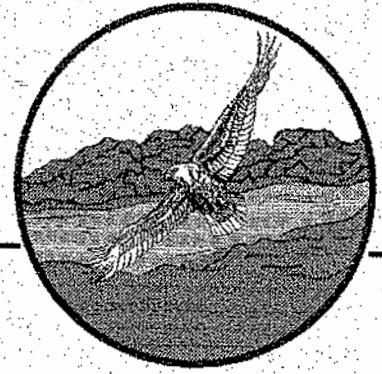
Sincerely,

A handwritten signature in cursive script that reads "Douglas C. Harr".

Douglas C. Harr  
President & Chief Operating Officer  
Iowa Audubon  
PO Box 117  
Ogden, IA 50212  
Ph. 515-275-4818  
Email [dharr@netins.net](mailto:dharr@netins.net) or [iowaaudubon@gmail.com](mailto:iowaaudubon@gmail.com)

# CLAYTON COUNTY CONSERVATION

29862 Osborne Road, Elkader, IA 52043 • (563) 245-1516 • FAX (563) 245-2222



July 29, 2013

Kate Staver  
Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Dear Kate,

I am writing in regards to a request I received from Angela Jordan pertaining to ITC Midwest Hickory Creek to Cassville Transmission Line Project, Project number 74417 for comments on the study area.

I have several comments that should be taken into consideration:

Located in Clayton County, Millville Township sections 13, 24, 19 and 30 are known archaeological sites. Please contact the Office of the State Archeologist in Iowa City for more details. I am aware of these sites, but I feel the state office would be able to give you the best information to help in your planning process.

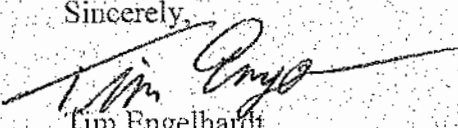
Second concern and comment would be the protection of the view shed of the Mississippi River. We would like it so the lines are not visible from the Mississippi River.

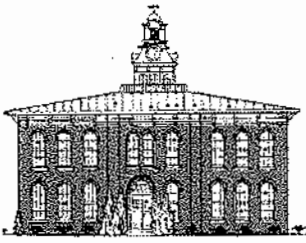
Third concern, the Great River Road (County Road C9Y) is part of the Mississippi River Trail (MRT) system. This is a bicycle route from the Gulf Coast to Minneapolis MN. This same road is also part of the Mississippi River National Scenic By-Way. Again, the protection of the view shed would be very important from this road so visitors and travelers can look at Northeast Iowa and not at power lines.

I appreciate the opportunity to comment and trust you will take all of these items into consideration as you continue to the planning process.

I would also appreciate a second opportunity of review of proposed routes as you continue through your process. Thank you for your time.

Sincerely,

  
Tim Engelhardt  
Director



# CLAYTON COUNTY

563-245-2451 • P.O. Box 456 • Elkader, Iowa 52043  
*604 wonder ltr Suite 12*

Zoning Administrator  
Zoning Board of Adjustment  
Planning & Zoning Commission  
Public Health Sanitarian

August 2, 2013

Kate Staver  
Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Dear Kate,

I am responding to the request for information on the proposed ITC Transmission Line project. I am hoping a letter was sent the Iowa Department of Natural Resources and the Iowa Department of Cultural Affairs as they would have the most information on the various aspects you are looking into.

For my part the only issue that will need to be addressed will be flood plain permits. The Mississippi River is now designated as a floodway which means more restrictions on construction. A permit application will need to be submitted to the DNR's Floodplain Section and after approval by them; a simple application will need to be submitted to this office.

If you have any other questions please call me at 563-245-2451 or by email at [jott@claytoncountya.gov](mailto:jott@claytoncountya.gov).

Respectfully,

A handwritten signature in cursive script, appearing to read "Janet Ott".

Janet Ott, Administrator  
Clayton County Health and Zoning



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

Central Region  
Iowa, Kansas,  
Missouri, Nebraska

901 Locust  
Kansas City, Missouri 64106

**AUG 21 2013**

Ms. Kate Staver  
Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Dear Ms. Staver:

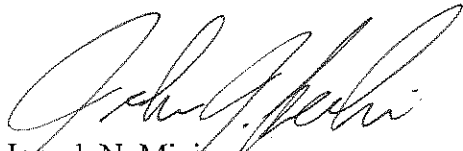
We have received your letter dated July 23, 2013, regarding your proposal to build a 345/161-kilovolt (kV) transmission line in North Eastern Iowa, BMcD Project #74417. We generally do not provide comments from an environmental standpoint.

The project may require formal notice and review for airspace review under Federal Aviation Regulation (FAR) Part 77, Objects Affecting Navigable Airspace. To determine if you need to file with FAA, go to <http://oeaaa.faa.gov> and click on the "Notice Criteria Tool" found at the left-hand side of the page.

Multiple locations will need to be checked because of the length of the route. You should check portions of the route within 5 miles of a public-use or military airport. Airport locations can be found using the "Circle Search for Airports" tab on the left side of the previously mentioned webpage.

If after using the tool, you determine that filing with FAA is required, we recommend a 120-day notification to accommodate the review process and issue our determination letter. Proposals may be filed at <http://oeaaa.faa.gov>.

We hope this adequately addresses your concerns.

  
for Joseph N. Miniacce  
Regional Administrator

**From:** [Flockhart, Steven \[DOT\]](#)  
**To:** [Staver, Kathryn \( Kate \)](#)  
**Subject:** FW: ITC Midwest Hickory Creek to Cassville Transmission line Project  
**Date:** Thursday, August 01, 2013 3:04:47 PM

---

Kate ..... The IDOT wouldn't have any of your requested information unless it had been completed for a new state roadway project, however the East Central Iowa Association Regional planning affiliate might be able to help with the land use questions (please see the contact information below).

Once ITC has a preferred route determined and their power lines encroach into state of Iowa ROW a Utility Accommodation permit will be required.

**East Central Iowa Association**

**7600 Commerce Park**

**Dubuque, IA 52002**

**563-556-4166**

**800-942-4648**

**Staff:**

**Chandra Ravada**

[cravada@ecia.org](mailto:cravada@ecia.org)

**Transportation Director**

If you have any additional questions please contact me.

**Steven Flockhart**

**Iowa Department of Transportation**

**District 6 Utility Coordinator**

**5455 Kirkwood Blvd.**

**Cedar Rapids, IA 52404**

**Office 319-364-0235 / Direct Line 319-364-4920**

[steven.flockhart@dot.iowa.gov](mailto:steven.flockhart@dot.iowa.gov)





# STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR  
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES  
CHUCK GIPP, DIRECTOR

October 25, 2013

Burns & McDonnell  
Attn: Kate Stavers  
9400 Ward Parkway  
Kansas City, MO 64114

RE: Environmental Review of Natural Resources  
Request for Additional Information  
ITC Midwest Hickory Creek to Cassville Transmission Line Project  
Clayton and Dubuque Counties

Dear Ms. Stavers:

Thank you for inviting Department comment on the impact of this project. The Department has records of the state-listed plant and animal species provided within corridor provided for review. In general, these species are associated with several habitats, including heavily wooded stream corridors, small remnant prairies, and wetlands. Avoidance of these kinds of habitats will avoid impacts with these species.

As you consider potential routes, the Department invites you to review county level Natural Areas Inventory (NAI) data to identify plant and animal species records. NAI data are available on the DNR's interactive website:

<http://www.iowadnr.gov/Environment/ThreatenedEndangered/NaturalAreasInventory.aspx>.

Because NAI data are not comprehensive field surveys, the DNR also recommends that you determine if suitable habitat for the listed species occurs within your project area. This information should be provided for DNR review when requesting additional comments. In addition to the above mentioned information regarding suitable habitat, please provide a GIS shapefile of the project boundary, including proposed routes, with the request for review. The shapefile must be projected in NAD 83, UTM Zone 15N.

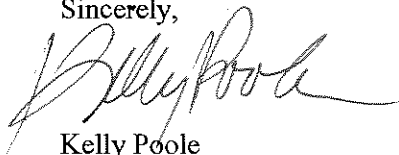
Projects occurring on, above, or under state-owned lands and/or waters require a sovereign lands construction permit from the DNR in advance of work. State-owned lands and waters under the jurisdiction of the DNR include: Meandered Sovereign Lakes, Meandered Sovereign Rivers, State Forests, Wildlife Management Areas, State Parks, and State Preserves. Statewide GIS information about public conservation lands and Bird Conservation Areas is available on the DNR's website at <http://www.igsb.uiowa.edu/webapps/nrgislibx/> under Administrative and Political Boundaries and Biologic and Ecologic headings, respectively. More information regarding the Sovereign Lands Construction Permit Program is available on the DNR's website <http://www.iowadnr.gov/InsideDNR/RegulatoryLand/SovereignLandsPermits.aspx>.

Department records and data are not the result of thorough field surveys. If listed species or rare communities are found during the planning or construction phases, additional studies and/or mitigation may be required.

The Department is available for additional review of potential impact of this project once a specific route has been identified. Please refer to tracking number 9111 when requesting additional review.

If you have any questions about this letter or require further information, please contact me at (515) 281-8967.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kelly Poole".

Kelly Poole  
Environmental Specialist  
Conservation and Recreation Division

FILE COPY: Kelly Poole

TRACKING NUMBER: 9111



# STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR  
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES  
CHUCK GIPP, DIRECTOR

August 8, 2013

MS KATE STAVER  
BURNS & MCDONNELL  
9400 WARD PARKWAY  
KANSAS CITY MO 64114

RE: ITC Midwest – Transmission Line Project Hickory Creek to Cassville, WI  
Clayton and Dubuque Counties (Project # 74417)

Dear Ms. Staver:

This letter is in response to the July 23, 2013 letter concerning the 345/161-kV Transmission Line project from Hickory Creek to Cassville, WI in Clayton and Dubuque Counties. Thank you for inviting our comments on the impact of the above referenced project.

Waters of the United States (includes wetlands) should not be disturbed if a less environmentally damaging alternative exists. Unavoidable adverse impacts should be minimized to the extent practicable. Any remaining adverse impacts should be compensated for through restoration and creation activities (enhancement and/or preservation may be in addition to the restoration/creation). We would ask that Best Management Practices be used to control erosion and protect water quality near the project.

Any proposed placement of dredged or fill material into waters of the United States (including jurisdictional wetlands) requires Department of the Army authorization. When detailed plans are available, please complete and submit the joint application form to the Rock Island District Corps of Engineers (1 copy) and Iowa Department of Natural Resources (2 copies) for processing.

The application form/instructions may be obtained at:  
<http://www.iowadnr.gov/InsideDNR/RegulatoryLand/FloodPlainManagement/FloodPlainDevPermits.aspx>

An electronic copy of the application form/instructions may also be obtained on the Corps' website:  
<http://www.mvr.usace.army.mil/Missions/Regulatory/ApplicationFormsInstructions.aspx>

If you have any questions, please call me at (515) 281-6615.

Sincerely,

A handwritten signature in cursive script that reads "Christine M. Schwake".

Christine Schwake  
Environmental Specialist

cc: Angela Jordan, ITC Midwest, 123 Fifth Street SE, Cedar Rapids, IA 52401

502 EAST 9th STREET / DES MOINES, IOWA 50319-0034  
PHONE 515-281-5918 FAX 515-281-6794 [www.iowadnr.gov](http://www.iowadnr.gov)

**From:** [Simmons, Jeff \[DNR\]](#)  
**To:** [Staver, Kathryn \(Kate\)](#)  
**Subject:** ITC Midwest Hickory Creek to Cassville Transmission Line Project  
**Date:** Tuesday, July 30, 2013 1:17:12 PM  
**Attachments:** [joint\\_application.pdf](#)

---

Dear Ms. Staver:

The DNR Flood Plain Management Program has no particular comments to offer with regard to route selection during this route corridor development phase. However, any route chosen and a detailed description of the work items should be submitted when the final design is completed - for program review of any necessary permits.

The attached application can be used to have your project reviewed towards the issuance of permits/clearances in the following programs: 1) Federal Section 404 Clean Water Act; 2) State DNR Flood Plain; 3) State DNR Sovereign Lands; and 4) Local Flood Plain. Please send one set (completed application and supporting information) to the U.S. Army Corps of Engineers (USCOE) in Rock Island, Illinois, and two sets to Kelly Stone with the Iowa Department of Natural Resources in Des Moines, Iowa. These last two sets will be distributed to both the Department's Sovereign Lands and Flood Plain programs. The addresses are listed in the application packet.

Lastly, the DNR Flood Plain Management Program received duplicate mailings (one to Simmons and one to Azam) for this same project. Please note that this email will be the only response from our program concerning the route corridor development phase.

Please feel free to call me if you have additional questions.

Sincerely,  
Jeff Simmons  
515-282-8968

IDNR Flood Plain Helpline: 866-849-0321.

**JEFF SIMMONS** FLOOD PLAIN REVIEW



Iowa Department of Natural Resources

P 515.281.8968 | F 515.281.8895 | <mailto:jeff.simmons@dnr.iowa.gov>

502 East 9th Street | Des Moines, IA 50319-0034

[WWW.IOWADNR.GOV](http://WWW.IOWADNR.GOV)



*Leading Iowans in Caring for Our Natural Resources.*

Joint Application Form

# PROTECTING IOWA WATERS

IOWA DEPARTMENT OF  
NATURAL RESOURCES

AND

U.S. ARMY  
CORPS OF ENGINEERS

PROTECTING IOWA'S WATERS

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## Examples

- Example Completed Application
- Example Completed Drawing

## Forms

- Joint Application Form
- Drawing Sheets (Sheets 1 and 2)

## 1. INTRODUCTION

Laws of the United States and the State of Iowa have assigned the U.S. Army Corps of Engineers and the Iowa Department of Natural Resources with specific and different regulatory roles designed to protect the waters within and on the State's boundaries. Protecting Iowa's waters is a cooperative effort between the applicant and regulatory agencies. This application package has been designed to assist applicants in initiating the permit process with both agencies for construction, excavation or filling in a water of the state or on a floodplain. Instruction and application forms are contained within the package. This application package also contains a description of the activities that are regulated by these agencies, the applicant's role in protecting Iowa's waters, an explanation of the agencies' roles, and a description of the application process.

## 2. REGULATED ACTIVITIES – WHO MUST APPLY

Construction, excavation or filling in streams, lakes, wetlands, or floodplains may require permits from both agencies. The attached application form is to be used to begin the permit process for any of the following activities:

- a. cutting the bank of a river or stream;
- b. any excavation or dredging in a stream or river channel;
- c. channel changes or relocations (including stream straightening);
- d. construction of any permanent dock, pier, wharf, seawall, boat ramp, beach, intake or outfall structure on a stream, river, or lake;
- e. placement of any fill, riprap, or similar material in a stream, river channel, lake, or wetland;
- f. construction of a dam across any waterway;
- g. placement of fill, construction of levees, roadways and bridges; and similar activities on a floodplain; or
- h. construction of buildings on a floodplain.

The Iowa Department of Natural Resources also requires permits for the construction and operation of water and wastewater treatment facilities, water withdrawal, water storage, and solid waste disposal and should be contacted for information about these permits.

## 3. THE APPLICANT'S ROLE

Iowa's water resources were once seemingly abundant and limitless. As development intensified and technology advanced, it became apparent that individual and cumulative effects of man's actions did have an impact and there indeed was a limit to the state's water resources. The applicant's role is to obtain the necessary approvals and permits to conduct an activity so that the wise use and the protection and maintenance of the existing state's water resources can be ensured.

## 4. REGULATORY AGENCIES' ROLES

In Iowa, two agencies administer permit programs for protecting the state's water resources and ensuring their wise use. These agencies are:

- a. The US Army Corps of Engineers; and
- b. The Iowa Department of Natural Resources.

Their roles, when considered together, include the protection of navigable waters; protection against unwise floodplain development; ensuring the wise and beneficial use of water; maintenance and enhancement of water quality; protection of fish and wildlife habitat and protection of the public interest.

The regulatory programs administered by each of these two agencies are described in more detail in Section 8, "Permit Programs" has distinctive review criteria and administrative and legal requirements.

## 5. THE PERMIT PROCESS

The application package is designed to assist the prospective applicant in meeting the various legal and administrative requirements of both agencies. By following the instructions for completing the application form and submitting a copy to each of the agencies listed in the instructions, the permit process is initiated. Each agency will review the application form to determine whether a permit (or permits) will be required. If a permit or permits are required you will be notified of that and whether any additional information will be needed before the permit can be processed. If a permit is not required from either agency receiving your application, you will be notified by that agency. Be sure to allow 60 to 120 days for application review and processing. Proceeding without the necessary permits is against state and Federal laws and may result in legal proceedings and fines.

## 6. PRELIMINARY COORDINATION

If you are unsure whether a particular action or project is regulated and requires a permit, or if you wish to discuss specific concerns with any agency, please call. The agencies and telephone numbers are listed in the instructions of the application form.

## 7. REPORTING UNAUTHORIZED CONSTRUCTION

Although the permit programs described in Section 8 on page 2 use the permit requirement mechanism to protect our waters, the programs also have specific powers to deal with unauthorized projects or activities. If you wish to request an investigation of a project which may be unauthorized, contact either of the agencies listed. Specific information describing the activity, dates and individuals involved, as well as photographs are extremely helpful and should be forwarded whenever possible. Remember, protecting Iowa's waters is a cooperative effort.

## 8. PERMIT PROGRAMS

### US ARMY CORPS OF ENGINEERS

The basis for the US Army Corps of Engineers regulatory functions over public waterways was formed in 1899 when Congress passed the Rivers and Harbors Act of 1899. Until 1968, the Rivers and Harbors Act of 1899 was administered to protect only navigation and the navigable capacity of this nation's water. In 1968, in response to a growing national concern for environmental values, the policy for review of permit applications with respect to Sections 9 and 10 of the Rivers and Harbors Act was revised to include additional concerns (fish and wildlife, conservation, pollution, aesthetics, ecology, and general welfare) besides navigation. This new type of review was identified as a "public interest review."

The Corps of Engineers regulatory function was expanded when Congress passed the Federal Water Pollution Control Act Amendments of 1972. The purpose of the Federal Water Pollution Control Act was to restore and maintain the chemical, physical, and biological integrity of this nation's waters. Section 402 of the Act established the National Pollutant Discharge Elimination System (NPDES) to regulate industrial and municipal source discharges of pollutants into the nation's waters. The NPDES permit program is administered by the Iowa Department of Natural Resources and should not be confused with the Corps of Engineer's Section 404 permit program. Section 404 of the Federal Water Pollution Control Act (now called the Clean Water Act due to amendments in 1977) established a permit program to be administered by the Corps of Engineers to regulate the nonpoint source discharges of dredged or fill material into waters of the United States.

### IOWA DEPARTMENT OF NATURAL RESOURCES

The Iowa Department of Natural Resources (IDNR) is the state agency created by consolidating all previous duties of the Department of Water, Air and Waste Management; the Conservation Commission; the Energy Policy Council; and the Iowa Geological Survey. The IDNR administers permit programs for conserving and protecting Iowa's water, recreational and environmental resources, and, for the prevention of damage resulting from unwise floodplain development. The Department also has jurisdiction over sovereign lands and waters and certain fee title lands of the State (Iowa Code, Chapters 106 and 111). On meandered streams and lakes, sovereign state property is that land below the ordinary high water mark.

A summary of the Department's permit programs relating to protection of water and recreational resources and adjacent lands, is as follows:

- a. Floodplain Construction Permits
- b. Water Quality Certification
- c. Construction Permits on Fee Title and Sovereign Lands and Waters
- d. Permits Requiring Special Applications
  1. non-permanent docks
  2. commercial sand and aggregate removal from meandered streams
- e. Other Related Permits

#### (a). Floodplain Construction Permits

The Department has authority to regulate construction on all floodplains and floodways in the state. The Department's administrative rules explain when a permit must be obtained for various types of floodway/floodplain-development. Examples are channel straightening, levee construction, excavation and stockpiling of overburden and rock materials, building construction, dams, stream crossing, and bank protection work. Any person who plans to perform or allow such floodplain construction has a duty to contact the Department to determine if a floodplain construction permit is needed.

#### (b). Water Quality Certification

State Section 401 water quality certification is mandatory for all projects requiring a Federal Section 404 permit. Section 401 water quality certification is the Department's concurrence that a project is consistent with the state's water quality standards. Short and long-term impacts to water quality and water-related uses are evaluated in the Section 401 certification review.

#### (c). Construction Permits

Pursuant to Section 114.4 of the Iowa Code, the Iowa Department of Natural Resources may authorize a person, association, or corporation to build or erect any pier, wharf, sluice, piling, wall, fence, obstruction, building or erection of any kind upon the jurisdiction of the Iowa Department of Natural Resources when it is found to be in the best interest of the public.

#### (d). Special Applications

Non-permanent docks – (This is the standard recreational boat dock.) special dock permit application forms are available throughout the state at all Iowa Department of Natural Resources field offices, and at the Iowa Department of Natural Resources central office located in Des Moines, Iowa. If your project involves a dock structure, then the dock permit application form should be sent to the Iowa Department of Natural Resources conservation officer in your area, in lieu of the forms in this packet.

If your dock is located along the Mississippi River, Missouri River or on a Corps managed reservoir, you should send the completed application form in this packet to the Corps of Engineers only.

Sand and Aggregate Removal from Meandered Streams – special application forms are required. These are available at the Iowa Department of Natural Resources, land and Acquisition and Management Bureau, Wallace State Office Building, Des Moines, Iowa 50319.

#### (e). Other Permits Related to Water Resources

Additional Departmental permits may be required depending upon the project. Examples of additional permits from the Department relate to the construction and operation of water and wastewater treatment facilities, water withdrawal and water storage permits, solid waste disposal, air quality permits, etc.



9. INSTRUCTIONS FOR COMPLETING THE JOINT APPLICATION FORM

Submit a copy of the completed application form and drawings to the appropriate District of the US Army Corps of Engineers, and to the Floodplain Management and Sovereign Lands Sections (one copy to each) of the Iowa Department of Natural Resources. The mailing address and telephone number of each agency is provided in Section 11. Please remember to keep a copy for your own reference. The application form may be photocopied.

It is very important that the application is complete and accurate. If additional space is needed for any item on the application form, attach a separate sheet or paper to the application sent to each agency. A sample copy of a completed application is provided for reference.

IF YOU NEED ASSISTANCE IN FILLING OUT THE APPLICATION FORM, PLEASE CALL ANY AGENCY OFFICE LISTED.

Additional information may be required by any or all of the agencies before further processing of your application may proceed. The applicant will, however, be notified of such needs by the agencies.

General instructions for completing the application form are provided on the form itself. Specific instructions on completing items 3, 4, 5, and 12 of the form and the information to be provided on the drawings are provided in Section 10.

Information in the application is made a matter of public record through issuance of a public notice. Disclosure of the information requested is voluntary; however, the data requested is necessary in order to communicate with the applicant and to evaluate the permit application. If necessary information is not provided, the permit application cannot be processed nor can a permit be issued.

18 United States Code Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Applicant is informed that all approvals must be obtained before work can be started.

10. SPECIAL INSTRUCTIONS FOR COMPLETING THE JOINT APPLICATION FORM

JOINT APPLICATION FORM

Item 3 – Applicant(s)

List the name, mailing address, and telephone number of each applicant. The applicant(s) shall be the person(s), firm(s), corporation(s), etc. who have or will have the responsibility for the property on which the project will be located by reason of ownership, easement, or other agreement. If the property is not presently owned by the applicant, attach an explanation of any easement or rights-of-way which have been or will be obtained, or how such land will be acquired. If a project is being proposed by a lessee, the lessee and lessor should be joint applicants. In some instances, agency staff may request additional information on all parties having a legal or equitable interest in the involved land.

List all applicants. Space has been provided for the listing of up to three applicants. Attach an additional sheet if necessary.

Item 4 - Authorized Agent

If the applicant designates an authorized agent for the purpose of obtaining the permits, list the name, address, and phone number of the authorized agent in Item 4. During the permit process, all correspondence, such as requests for additional information, will be sent to the authorized agent.

Item 5 – Project Description and Remarks

The applicant must provide a complete description of the activity and always include the purpose and intended use. For any major activity, additional support information should be provided by attached sheets to the application.

Dredging and fill Activities. Describe the location, type, composition and quantity of material to be dredged/filled, method of dredging/filling, and method of transportation to disposal/fill site. Also describe the disposal/fill site by including location, quantity of material it will hold, composition of receiving soil, and the method of containment. Provide Iowa Department of Natural Resources material analysis data as required.

Item 12 – Applicant Verification

The application must be signed by each applicant.

However, the application may be signed by a duly authorized agent (name in Item 4) if this form is accompanied by a statement by the applicant(s) designating the agent.

NOTE:

- a. If the applicant is a corporation, the president or other authorized officer shall sign the application form.
- b. If the applicant is a county, city or other political subdivision, the application form shall be signed by an appropriate authorized officer.
- c. If the applicant is a partnership, each partner shall sign the application form.
- d. If the applicant is a trust, the trust officer shall sign the name of the trustee by him (or her) as trust officer. A disclosure affidavit must be filed with the application, identifying each beneficiary of the trust by name and address and defining the respective interests therein.

DRAWINGS (forms provided)

Each sheet of drawing submitted should contain a title block in the lower right hand corner identifying the proposed activity, the name of the body of water, river mile (if applicable), number of sheets and total number of sheets in a set, and date the drawing was prepared. Certified engineering plans may be submitted in lieu of the drawing sheets if the magnitude of the project warrants. (Note: The Department of Natural Resources may require submission of certified engineering plans.)

- (1) A vicinity map (in the upper right hand corner) which shows:
  - a. project site;
  - b. name of waterway;
  - c. name of and distance to local town, community or other identifying location such as roads; and
  - d. north arrow.
- (2) A plan (overhead) view of the project showing:
  - a. existing shoreline and the normal water surface elevation (if mean sea level datum is not used, adjustment should be indicated);
  - b. adjacent property lines and ownership as listed in the application form;
  - c. principal dimensions of the structure or work and extent of encroachment into the waterway (as measured from a fixed structure or object);
  - d. floodway/floodplain lines if established and if known;
  - e. north arrow; and
  - f. graphic or numerical scale.
- (3) A cross-sectional view of the project showing:
  - a. shoreline, elevations, extent of encroachment, principal dimensions of the work as show in plan view; and
  - b. graphic or numerical scales (horizontal and vertical).

11. AGENCY MAILING ADDRESSES

Send appropriate copies of the completed application to each agency listed below. (Agencies are specified at the bottom of each sheet in the packet.)

- (1) Corps of Engineers (1 copy)

Choose the appropriate address. The Omaha District has regulatory jurisdiction over the Missouri River, its contiguous wetlands, and Carter Lake. The remainder of the projects occurring in Iowa are regulated by the Rock Island District.

US ARMY ENGINEER DISTRICT  
 Rock Island Corps of Engineers  
 Clock Tower Building  
 Post Office Box 2004  
 Rock Island, Illinois 61204-2004

Tel: 309/794-5373

OR

US ARMY ENGINEER DISTRICT  
 Omaha Corps of Engineers  
 8901 South 154<sup>th</sup> Street  
 Omaha, Nebraska 68138-3621

Tel: 402/896-0896

- (2) The Iowa Department of Natural Resources (2 copies)

Wallace State Office Building  
 Attention: Floodplain Permits Section  
 (AND Sovereign Lands Section)  
 502 East 9<sup>th</sup> Street  
 Des Moines, Iowa 50319-0034

Tel: 515/281-8693

For information on specific permitting activities, telephone:

Flood Plain Permits	(515) 281-8693
Sovereign Land – Fee Title	(515) 281-8675
Water Quality Certification	(515) 281-7025 (515) 281-6615
Recreational Boat Docks	(515) 281-6554
Sand and Gravel Permits	(515) 281-5806

**JOINT APPLICATION FORM**

ITEMS 1 AND 2 FOR AGENCY USE

1. Application Number \_\_\_\_\_ 2. Date Received \_\_\_\_\_

3. and 4. (SEE SPECIAL INSTRUCTIONS) NAME, MAILING ADDRESS AND TELEPHONE NUMBERS

3a. Applicant <b>Donald Hilton</b> 486 N. Waring Ave. Iowa City, IA 52240  Business ( ) - Home (319) 536 - 7829	3b. Applicant   Business ( ) - Home ( ) -	3c. Applicant   Business ( ) - Home ( ) -
4a. Authorized Agent (if any) <b>Sarah J. Smith</b> Smith and Associates 1234 Main Street Iowa City, IA 52240 Phone (319) 555 - 6489	4b. Authorized Agent (if any)   Phone ( ) -	4c. Authorized Agent (if any)   Phone ( ) -

5. PROJECT DESCRIPTION AND REMARKS:  
 Place riprap along approximately 600 feet of eroding riverbank. The purpose is to protect the bank from eroding closer to existing building. Approximately 1,200 cubic yards of quarry run rock riprap is expected to be placed along the bank at a slope of 2:1.

6. IMMEDIATE AND ADJOINING PROPERTY OWNERS:  
 1. Mr. Winston G. Smith            484 N. Waring Ave., Iowa City, IA 52240            319-536-5738  
 2. Mr. Richard Thomas            488 N. Waring Ave., Iowa City, IA 52240            319-536-7736

7. PROJECT LOCATION

STREET, ROAD OR OTHER DESCRIPTIVE LOCATION <b>486 N. Waring Avenue</b>	Legal Description:	Quarter <b>SE</b>	Section <b>15</b>	Township <b>78N</b>	Range <b>6W</b>
IN OR NEAR CITY OR TOWN (NAME) <b>in Iowa City</b>	UTM (Universal Transverse Mecator): If Available	Zone <b>15</b>	North <b>4755810</b>	East <b>555700</b>	
COUNTY <b>Johnson</b>	STATE <b>IA</b>	ZIP CODE <b>52240</b>	Waterway <b>Iowa River</b>	River Mile	

8. Date activity is proposed to commence 1 May 2001 Date Activity is expected to be completed 15 May 2001.

9. Is any portion of the activity for which authorization is sought now complete? [ ] Yes [  ] No If answer is "Yes" give reasons in the Project Description and Remarks Section. Month and Year activity was completed \_\_\_\_\_ Indicate the existing work on the drawings.

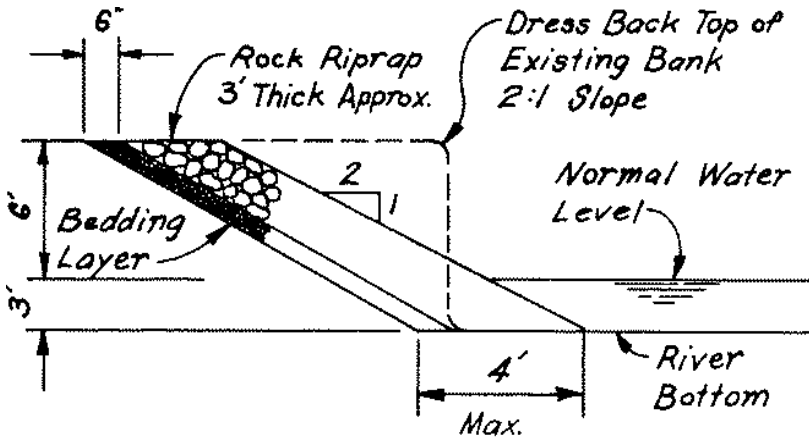
10. List all approvals or certification and denials received from other federal, interstate, state or local agencies for structures, construction, discharges or other activities described in this application

ISSUING AGENCY	TYPE APPROVAL	ID #	DATE OF APPLICATION	DATE OF APPROVAL	DATE OF DENIAL

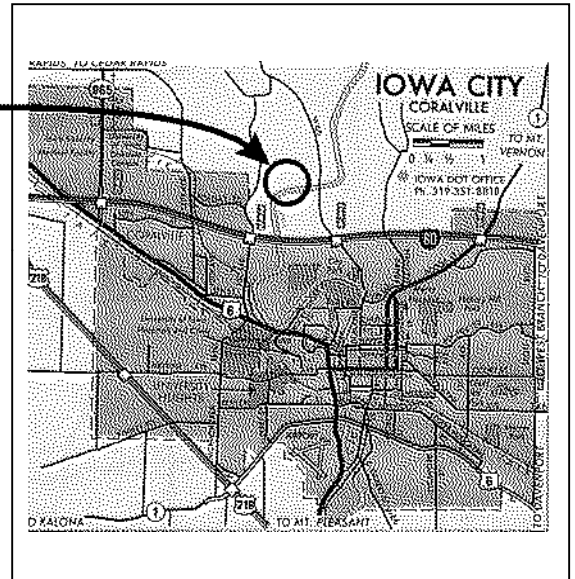
11. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED. YES [  ] NO [ ]

12. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)  
 Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.

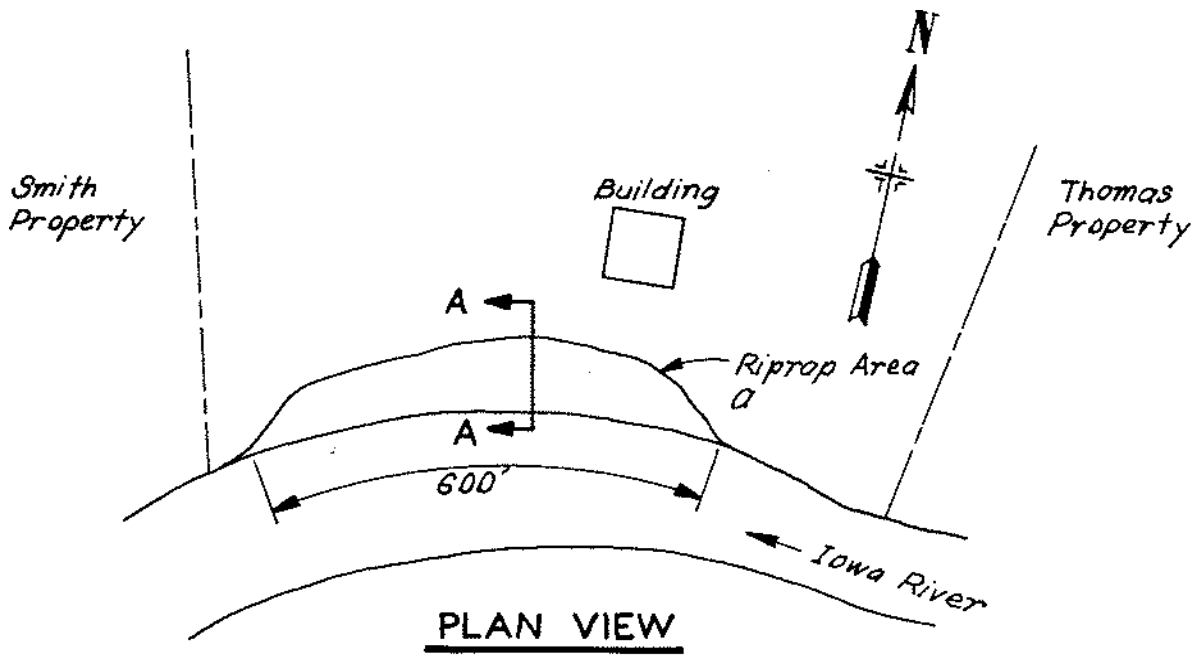
_____ Signature of Applicant or Authorized Agent	_____ January 20, 2001 Date
_____ Signature of Applicant or Authorized Agent	_____ January 20, 2001 Date
_____ Signature of Applicant or Authorized Agent	_____ Date



**SECTION A-A**



Place a Vicinity Map in box above.



**LIST OF ADJACENT PROPERTY OWNERS**

No.	Name	Address
1.	Mr. Winston G. Smith	484 N. Waring Ave.
2.	Mr. Richard Thomas	488 N. Waring Ave
3.		
4.		

**PROJECT DESCRIPTION:**

Riprap, Bank Stabilization

**LOCATION:** Iowa River  
In Iowa City, Iowa

**JOINT APPLICATION FORM**

ITEMS 1 AND 2 FOR AGENCY USE

1. Application Number	2. Date Received
-----------------------	------------------

3. and 4. (SEE SPECIAL INSTRUCTIONS) NAME, MAILING ADDRESS AND TELEPHONE NUMBERS

3a. Applicant	3b. Applicant	3c. Applicant
Business ( ) -	Business ( ) -	Business ( ) -
Home ( ) -	Home ( ) -	Home ( ) -
4a. Authorized Agent (if any)	4b. Authorized Agent (if any)	4c. Authorized Agent (if any)
Phone ( ) -	Phone ( ) -	Phone ( ) -

5. PROJECT DESCRIPTION AND REMARKS:

6. IMMEDIATE AND ADJOINING PROPERTY OWNERS:

7. PROJECT LOCATION

STREET, ROAD OR OTHER DESCRIPTIVE LOCATION	Legal Description:	Quarter	Section	Township	Range
IN OR NEAR CITY OR TOWN (NAME)	UTM (Universal Transverse Mecator): If Available	Zone	North	East	
COUNTY	STATE	ZIP CODE	Waterway		River Mile

8. Date activity is proposed to commence \_\_\_\_\_ Date Activity is expected to be completed \_\_\_\_\_.

9. Is any portion of the activity for which authorization is sought now complete? [ ] Yes [ ] No If answer is "Yes" give reasons in the Project Description and Remarks Section. Month and Year activity was completed \_\_\_\_\_. Indicate the existing work on the drawings.

10. List all approvals or certification and denials received from other federal, interstate, state or local agencies for structures, construction, discharges or other activities described in this application.

ISSUING AGENCY	TYPE APPROVAL	ID #	DATE OF APPLICATION	DATE OF APPROVAL	DATE OF DENIAL

11. CONSENT TO ENTER PROPERTY LISTED IN PART 7 ABOVE IS HEREBY GRANTED. YES [ ] NO [ ]

12. APPLICATION VERIFICATION (SEE SPECIAL INSTRUCTIONS)  
 Application is hereby made for the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.

\_\_\_\_\_ Date \_\_\_\_\_

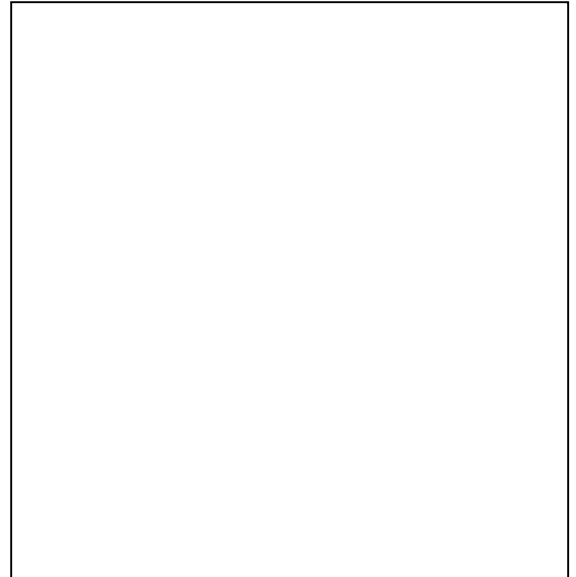
Signature of Applicant or Authorized Agent

\_\_\_\_\_ Date \_\_\_\_\_

Signature of Applicant or Authorized Agent

\_\_\_\_\_ Date \_\_\_\_\_

Signature of Applicant or Authorized Agent



**Place a Vicinity Map in box above.**

<b>LIST OF ADJACENT PROPERTY OWNERS</b>			<b>PROJECT DESCRIPTION:</b>
<b>No.</b>	<b>Name</b>	<b>Address</b>	
<b>1.</b>			<b>LOCATION:</b>
<b>2.</b>			
<b>3.</b>			
<b>4.</b>			

<b>Applicant:</b> <hr/> <hr/> <hr/>	<b>PROJECT DESCRIPTION:</b>   <b>LOCATION:</b>
--	---



521 East Locust Street, Suite 220  
Des Moines, IA 50309-1939  
515-244-1194 Phone  
515-244-7856 Fax  
[www.iaenvironment.org](http://www.iaenvironment.org)

August 30, 2013

**By Electronic & U.S. Mail**

Kate Staver  
Burns & McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

RE: ITC Midwest Hickory Creek to Cassville transmission line, Project Number 74417

Dear Ms. Staver:

Thank you for the opportunity to provide input regarding ITC Midwest's Hickory Creek to Cassville Transmission Line Project. The Iowa Environmental Council is a statewide environmental policy non-profit organization comprised of a diverse alliance of individuals and 60 member organizations working to provide a safe, healthy environment and sustainable future for Iowa. The Environmental Law & Policy Center (ELPC) is the Midwest's leading public interest environmental legal advocacy organization with an Iowa office focused on energy and water issues.

We support the expansion of wind energy in Iowa and recognize additional transmission lines will be necessary to achieve that expansion. We believe there must be a balance between the environmental benefits of wind generation and the potentially adverse environmental impacts from the needed transmission lines. With a proactive and inclusive planning, siting, and routing process, we can achieve this balance.

In addition to the agency letter and study area map dated July 23, 2013, we appreciate receiving a revised and updated study area map via e-mail from Jack Middleton at Burns & McDonnell on August 22, 2013. The revised study area map provides additional existing transmission infrastructure and public land and natural areas not included on the original map. Angela Jordan also granted us a one week extension of time to August 30 for providing these comments.

#### *Mississippi River Crossing*

As ITC Midwest is likely aware, the need for this transmission project to cross the Mississippi River is of significant concern to our organizations. The Mississippi River system includes critically important habitat that supports more than 400 species of wildlife, including several endangered species.<sup>1</sup> The Upper Mississippi River National Wildlife and Fish Refuge is the longest river refuge in the continental United

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<sup>1</sup> <http://www.nwf.org/wildlife/pdfs/UpperMississippiRiver.pdf>, <http://www.pbs.org/now/science/delta.html>.



States and alone hosts 119 species of fish.<sup>2</sup> The Mississippi River valley is also an essential migration corridor for birds. Over 40% of North America's ducks, geese, swans and wading birds rely on the Mississippi River as a flyway.<sup>3</sup> These are only a few examples to help illustrate the importance of the Mississippi River.

The revised study map indicates that there is an existing 161 kV transmission line that crosses the Mississippi River. Without endorsing that crossing at this time, we believe the use of existing transmission infrastructure for the Mississippi River crossing has potential merit and must be explored further. In that process, we would appreciate a better understanding of the impact of using the existing right of way to cross the Mississippi. Our questions include whether the existing 161 kV line could be replaced by a double circuit 161/345 kV line, what the new pole structures would look like, how the spacing of new poles compares to existing poles, how the height of the new poles and transmission lines compares to the existing poles and lines, and what the construction process would entail (area needed for construction equipment and vehicles, impact from those vehicles and equipment, footings or foundations for poles, etc.).

In addition to a better understanding of this crossing, more information is needed about why ITC Midwest selected this particular corridor as the study area. While the entire river is of concern to our organizations, other parts of the Mississippi currently have more existing infrastructure, such as bridges, and less or no land dedicated to wildlife refuges and sensitive habitat. This contrasts with the current study area that has only a 161kV line and crosses Upper Mississippi River National Wildlife and Fish Refuge land. We believe there are likely other areas in which crossing the Mississippi River would present a smaller environmental impact. It is our understanding that this study area was selected because of multiple factors, such as the anticipated retirement of existing generation in Cassville and the MISO MVP planning process. We would appreciate additional information regarding ITC Midwest's evaluation of other sections of the river to cross and how ITC Midwest balanced various factors in selecting this corridor. This could be accomplished at our next meeting with ITC Midwest and environment and conservation groups, which is expected to occur in early October.

To the extent that an additional impact to the Mississippi River cannot be avoided in the final route, ITC Midwest should take additional steps, such as completing additional mitigation to offset impacted lands, to ensure that environment and conservation goals in this area of Iowa are advanced. We are available to work with ITC Midwest on such steps and to engage additional organizations or partners as appropriate.

### *Habitat*

In addition to the river crossing, the identified study area includes or is just adjacent to natural habitat areas and public use areas, including Merritt State Forest, Bankston Park, and others. The revised study area map appears to identify each of these areas. We request that ITC Midwest entirely avoid any impact on these areas in the final route and construction process. These areas appear to be relatively small in size

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<sup>2</sup> Water Science and Technology Board, *Mississippi River Water Quality and the Clean Water Act: Progress, Challenges, and Opportunities* (2008), [http://books.nap.edu/openbook.php?record\\_id=12051&page=21](http://books.nap.edu/openbook.php?record_id=12051&page=21).

<sup>3</sup> <http://www.fmr.org/mississippi>.

and not directly in the path between identified new or existing substations, and therefore are areas ITC Midwest can entirely avoid in the final siting, routing, and construction process.

### *Outstanding Iowa Waters*

The counties of Clayton, Dubuque, and Delaware (just outside the current study area) are home to unique streams in Iowa, some of which are cold water trout streams and some of which have been designated as Outstanding Iowa Waters by the Iowa DNR.<sup>4</sup> Based on our initial review, it does not appear that designated Outstanding Iowa Waters exist in the current study area. We request that ITC Midwest conduct an additional analysis to ensure and confirm that none of these waters are in the study area or possible route of the transmission project. Because waters in this area may be of very high quality even if they are not designated as Outstanding Iowa Waters, we also request that ITC Midwest preserve the quality of all streams and rivers throughout the study area in the siting, routing, and construction process.

### *Fens and Bogs*

It is our understanding that Clayton and Dubuque counties are home to existing fens and bogs. Fens are an important water and habitat resource in Iowa. An Iowa State Extension publication states:

Fens are the rarest of Iowa's wetland communities and of great scientific interest. While their geology varies, they all are the products of the seepage of groundwater to the surface. Because the water is rich in calcium and other minerals, only a select group of plants is able to grow there. As a result, fens contain many plant species considered endangered or threatened in Iowa.<sup>5</sup>

Fens may be on private land and may or may not be well-managed and preserved. In any case, fens are waters of the state of Iowa and protected by Iowa's water quality standards.<sup>6</sup> The map on page 5 of the above-referenced Iowa State Extension publication provides some guidance on the location of fens in Iowa. The map indicates that known fens exist in Clayton, Delaware, and Dubuque counties.

The Iowa DNR maintains significant information about fens in Iowa. We recommend contacting Kelley Poole and Chris Schwake at Iowa DNR to identify a procedure that will allow ITC Midwest to identify and avoid all known fens at this stage in the siting and routing process. Some fens may not be known or identified, therefore we encourage the use of additional steps to identify fens as ITC Midwest finalizes a route and plan for constructing the line. These include use of satellite imagery (e.g., Google Maps and Google Earth) as well as in-person site visits. Most or all fens are likely to be small in size and thus are areas ITC Midwest can avoid during the final siting and routing process as well as during the construction phase of the project. We urge ITC Midwest to avoid impacting all fens given their unique role as a water resource and as habitat for rare and endangered species.

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<sup>4</sup> More information about Outstanding Iowa Waters, including maps of each designated water, are available here: <http://www.iowadnr.gov/InsideDNR/RegulatoryWater/WaterQualityStandards/Antidegradation.aspx#dltop>.

<sup>5</sup> Iowa State University Extension, *Managing Iowa Habitats: Fen Wetlands*, February 1993, at <http://www.extension.iastate.edu/Publications/PM1351F.pdf>.

<sup>6</sup> Iowa Admin. Code 567—61.2(2)(g)(7) (2012).

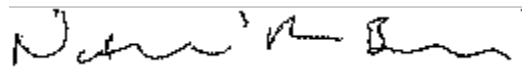
*Use of Existing Transmission*

Finally, the study corridor includes potential routes that follow existing transmission lines for portions of the route before crossing the Mississippi. From the proposed Hickory substation, there is existing 69 kV transmission north until Holy Cross, but then new right of way would be needed to reach the Turkey River substation. We support the use of existing right of way when possible for new transmission, such as upgrading existing lines with double circuit lines. We would appreciate knowing whether this project can be double-circuited with existing transmission in the study area.

Should existing right of way be used for this line, we still urge ITC Midwest to carefully consider the location of new poles, the impact of construction, and any other impact related to the project on fens and bogs, water resources, natural areas, and public use areas to ensure those areas are protected. Use of existing right of way can certainly minimize – but does not eliminate – the potential environmental impact from new transmission. We also encourage ITC Midwest to identify ways in which the use of fewer poles, different pole spacing, or other strategies from upgrading the existing transmission line could eliminate or reduce existing impacts from those lines.

We appreciate the opportunity to provide input on this proposal and are available to continue to provide input as the project moves forward. We look forward to ITC Midwest's responses to the questions and additional information requested in this letter. Please feel free to follow up with any questions. Nathaniel Baer can be reached at [baer@iaenvironment.org](mailto:baer@iaenvironment.org) or 319-321-8449 (cell) and Josh Mandelbaum at [jmandelbaum@elpc.org](mailto:jmandelbaum@elpc.org) or 515-244-0253 (office). We look forward to the next steps in the process.

Sincerely,



Nathaniel Baer  
Energy Program Director  
Iowa Environmental Council



Josh Mandelbaum  
Staff Attorney  
Environmental Law & Policy Center

cc: Angela Jordan and Troy Weary, ITC Midwest (via e-mail)



Insurance Exchange Building  
Suite 444  
505 Fifth Ave.  
Des Moines, Iowa 50309

Phone: 515-288-1846  
Fax: 515-288-0137  
e-mail: [info@inhf.org](mailto:info@inhf.org)  
[www.inhf.org](http://www.inhf.org)

August 26, 2013

Troy Weary  
ITC Midwest  
100 East Grand Ave. Suite 230  
Des Moines, IA 50309

Dear Troy:

Thank you for the opportunity to comment on the proposed Hickory Creek to Cassville Transmission line study.

This landform region of Iowa is extremely scenic and sensitive with important wildlife, migratory and archaeological resources. The Iowa Natural Heritage Foundation has a conservation easement and several projects in the study area. They are shown on the attached map.

We suggest that in the process of inventorying the resources you take into consideration the potential Upper Mississippi River Flyway, the Audubon Birding Trail, the Driftless Area National Wildlife Refuge, the Great River Road National Scenic Byway, and the numerous archaeological sites that may or may not have been documented by the Office of the State Archaeologist. Forest fragmentation needs to be kept to a minimum.

The Iowa Natural Heritage Foundation currently holds a conservation easement on land near the Turkey River substation with an existing 161kv line. We request that you work closely with us if that alignment is considered as there are archaeological resources on the property that cannot be damaged.

However, given the sensitive nature of the region as a whole, keeping the proposed transmission line along existing corridors is the preferred alternative.

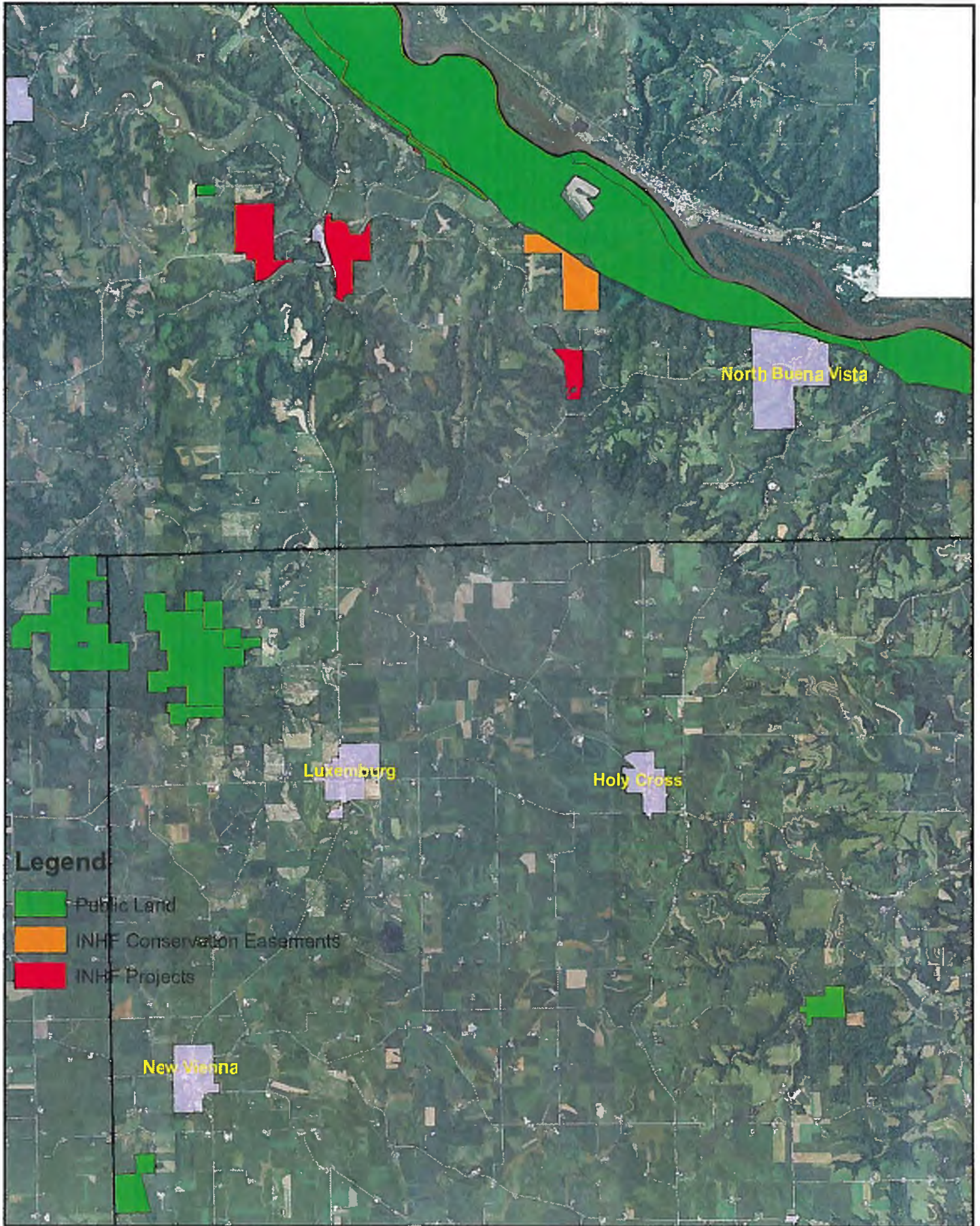
We greatly appreciate the opportunity to provide our comments!

Sincerely,

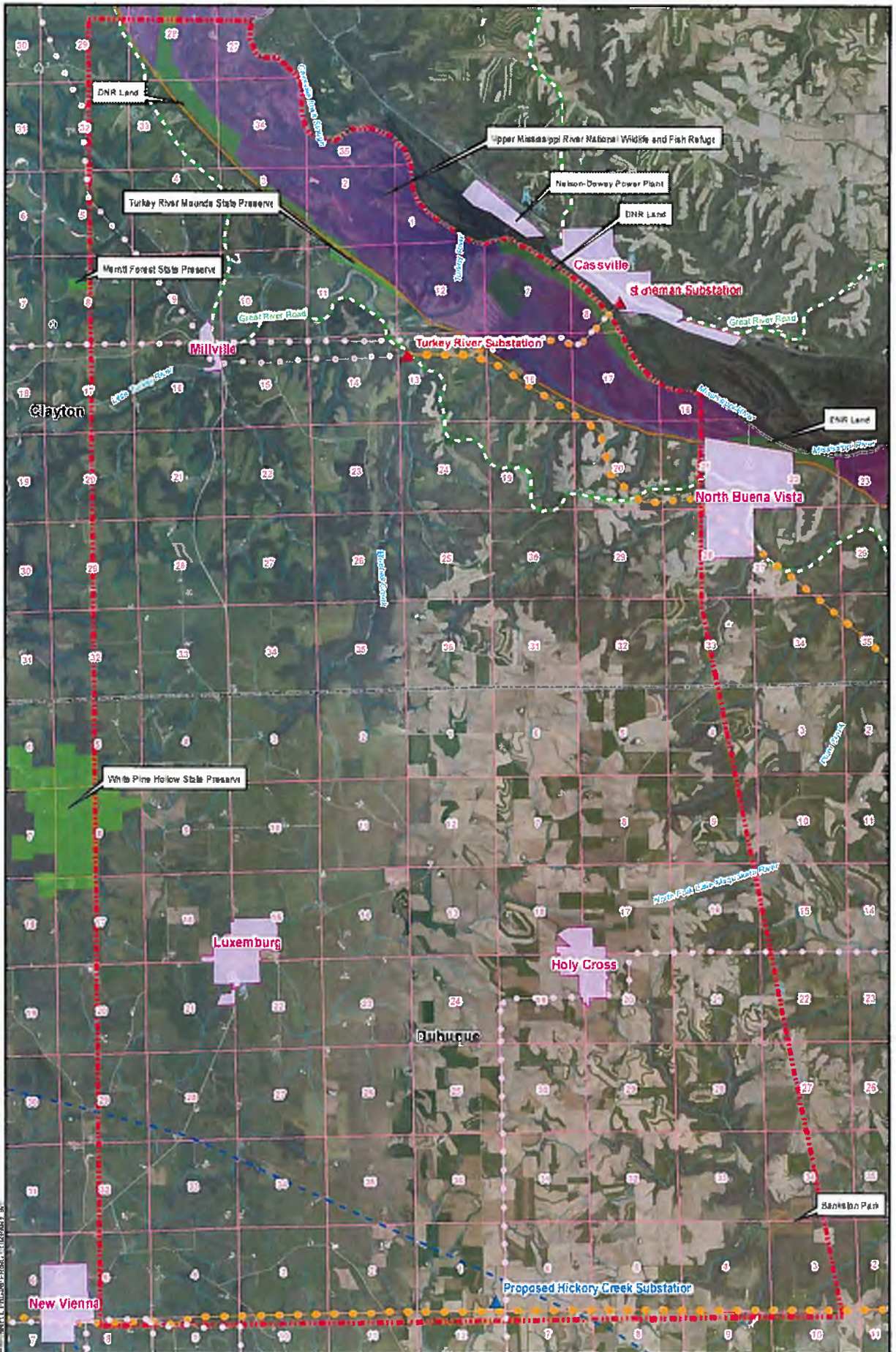
A handwritten signature in blue ink that reads "Joe McGovern".

Joe McGovern  
President

# Conservation Lands Within ITC Study Area



0 1 2 4 Miles



File Path: \\s01\proj\1411\1411\_01\GIS\MapServer\public\chapters\Chap\_01\Cassville\_345-kV\_Transmission\_Line\_Project\_Study\_Area\_Map.aprx  
 Date: 8/22/2013 10:47:27 AM  
 User: jmcneil  
 Scale: 1:50000  
 Projection: NAD83 / UTM  
 SRS: EPSG:31466  
 Units: Meter  
 Datum: North American 1983  
 Authority: EPSG  
 Well-Known-String: urn:ogc:def:crs:EPSG::31466  
 Layer: 0

 NCA 111	Study Area Boundary Existing Substation Proposed Substation Municipal Areas County Boundary	Major Pipelines PLSS Sections Existing 161-kV lines Existing 69-kV lines	<b>Conservation Lands</b> Dubuque DCE DNR FWS	Active Railroads Scenic Byways Streams
			<b>ITC Midwest          Hickory Creek to Cassville          345-kV Transmission Line Project          Study Area Map</b> Issued: 8/22/2013	

Source: Aerial Imagery: Google Earth; Data: NHD, DNR, USFWS, IDOT, Energy Transfer; ESRI; ITC; Burns & McDonnell

**From:** [Kelley, James C MVR](#)  
**To:** [Staver, Kathryn \(Kate\)](#)  
**Subject:** ITC Midwest Hickory Creek to Cassville Transmission Line Project (UNCLASSIFIED)  
**Date:** Thursday, October 03, 2013 10:42:54 AM

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Classification: UNCLASSIFIED  
Caveats: NONE

Katie,

I reviewed the initial information which you have submitted for the ITC Midwest Hickory Creek to Cassville Transmission Line Project, in regards to potential impacts to waters of the U.S. (streams and wetlands) which would require Section 10/404 authorization from our office, and have the following comments:

Once the final design plan and route have been identified, please submit this information to our office with the Iowa Joint permit application and we will then review your project for potential impacts to waters of the U.S. which would require a Section 10/404 permit. If no other federal agency is conducting a NEPA review for this project, we will coordinate with the FWS and IA SHPO for the Sect. 7 and Sect. 106 NEPA compliance which is part of our permit review for the project. We will also coordinate your permit with other internal offices of the Corps such as navigation, real estate, river project office, planning, emergency mgmt., etc. for their comments on the project.

St. Paul District Corps office will permit regulatory work done in Wisconsin. We handle the regulatory permitting in Iowa.

Thanks,

Jim Kelley  
Project Manager  
Regulatory-Enforcement Section  
USACE-Rock Island  
309-794-5373  
309-794-5191(fax)

In order to assist us in improving our service to you, please complete the survey found at <http://per2.nwp.usace.army.mil/survey.html>

Classification: UNCLASSIFIED  
Caveats: NONE

**From:** [Schmitz, Stuart \[IDPH\]](#)  
**To:** [Staver, Kathryn \( Kate \)](#)  
**Cc:** [Sharp, Ken \[IDPH\]](#)  
**Subject:** North Eastern Iowa Transmission Line Project  
**Date:** Thursday, August 01, 2013 8:47:38 AM

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Kate Staver  
Burns & McDonnell,

Ms. Staver,

I am providing the following comments at the request of Ken Sharp, Division Director, Environmental Health, Iowa Department of Public Health.

Thank you for the opportunity for the Iowa Department of Public Health (IDPH) to provide comments regarding the proposed to build a 345/161-kV transmission line in North Eastern Iowa from the proposed Hickory Creek Substation located east of New Vienna, Iowa and the existing Turkey River Substation west of Millville, Iowa. You requested our assistance in identifying the human, cultural, and natural resources in the study area shown on the map that was enclosed with the letter dated July 23, 2013 from ITC Midwest. Our agency offers the following comments:

- We would recommend that aesthetic interests be included in your evaluation since these interests can influence the overall well-being of individuals located near these high power lines.
- We recommend that various programs within the Iowa Department of Natural Resources be contacted to further investigate the impacts the proposed power line will have on water resources and wetlands; soils and geology; and wildlife, vegetation, and fisheries, including threatened and endangered species; and hazardous materials sites.
- We recommend that the Office of the State Archaeologist should be contacted regarding any cultural resources that may be impacted by the proposed project.
- We recommend that the Iowa Department of Transportation should be contacted regarding all transportation and road impacts.

Furthermore, the IDPH would like to point out that our knowledge of local considerations is limited. Since Iowa is a local control governance state, it is our recommendation to contact the respective local county board of health/public health agency for a more accurate response to your request. If you need assistance identifying the contacts for those organizations, please let us know, we can provide that information.

Please contact me if you have any questions.

**Stuart C. Schmitz, M.S., P.E.**

Environmental Toxicologist | Division of Environmental Health | Iowa Department of Public Health  
321 E. 12th St | Des Moines, IA 50319 | Office: 515-281-8707 | Mobile: 515-491-4880 |Email:



stuart.schmitz@idph.iowa.gov

*Promoting and Protecting the Health of Iowans*

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**From:** [Schnoebelen, Jim \[DOT\]](#)  
**To:** [Little, David \[DOT\]](#)  
**Cc:** [Staver, Kathryn \( Kate \)](#); [Yanna, Kenneth \[DOT\]](#); [Shea, Sam \[DOT\]](#); [Cutler, Catherine \[DOT\]](#); [Flockhart, Steven \[DOT\]](#)  
**Subject:** RE: ITC Midwest - Hickory Creek to Cassville Transmission Line Project  
**Date:** Monday, July 29, 2013 4:10:26 PM

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Thanks.

We had gotten a copy too and Steve Flockhart is coordinating our response.

Jim Schnoebelen, P.E.  
District Engineer, District 6  
319-364-0235

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**From:** Little, David [DOT]  
**Sent:** Monday, July 29, 2013 4:07 PM  
**To:** Schnoebelen, Jim [DOT]  
**Cc:** 'kstaver@burnsmcd.com'; Yanna, Kenneth [DOT]  
**Subject:** ITC Midwest - Hickory Creek to Cassville Transmission Line Project

Jim:

ITC send the attached information seeking DOT review to the District 2 office. The proposed transmission route lies entirely within DOT District 6 so, by this e-mail, I'm turning this request over to District 6 staff for review and response. Responses are to be sent to Kate Staver, Burns and McDonnell; I've copied her on this e-mail so she is aware that any DOT response will be coming from District 6 and not District 2.

Thanks.

Dave

David L. Little, PE  
Assistant District Engineer  
District 2 – Mason City  
641-422-9464



**SIERRA  
CLUB**  
FOUNDED 1892

**IOWA CHAPTER**

August 20, 2013

Kate Staver  
Burns and McDonnell  
9400 Ward Parkway  
Kansas City, MO 64114

Re: ITC Midwest Proposed Iowa transmission lines, Hickory Creek to Cassville

Dear Ms. Staver:

The Iowa Chapter of the Sierra Club appreciates being able to review the proposed study areas and the proposed routes for transmission lines in Iowa.

Clayton County and Dubuque County have a unique geological feature called the algific talus slopes. The talus slopes are also known as cold air slopes. Accompanying the slopes is a unique array of plants and animals, some on the threatened and endangered lists. A number of these slopes are in the Driftless Area National Wildlife Refuge. However some of the slopes remain in private ownership. The slopes are very sensitive to disturbances, such as building on top of them and digging. Richard King, from the Fish and Wildlife Service in McGregor, can provide more information about the talus slopes in the study area. Another expert on the talus slopes is Cathy Henry who is also with the Fish and Wildlife Service at their Port Louisa facility.

Bankston County Park, south of Highway 52 and east of County Road Y13 in Dubuque County, has an algific talus slope.

With respect to the Mississippi River, pelicans and swans use the river during migration. Any crossing of the Mississippi River would require deflection devices in order to protect the pelicans, swans, ducks, and geese.

Jon Stravers has done extensive species surveys concentrating on birds within the study area, including work for the Audubon Society. I would suggest that you include him in any future mailings concerning this project. His e-mail address is hawk@acegroup.cc and

his phone number is 563-880-8046. Jon's address is P. O. Box 309, McGregor, Iowa 52157.

Mr. Stravers indicated that the area along the Mississippi River to the west side of North Buena Vista would cross bald eagle, red-shouldered hawk, and Cerulean warbler nesting territories. The Sierra Club is interested in seeing the nesting territories for these species protected.

I urge you to contact the Clayton County Conservation Department for locations of the public lands that they own and manage. This includes land near North Buena Vista and a recent 300-acre acquisition near Millville. The address for Clayton County Conservation is 29862 Osborne Road, Elkader, Iowa 52043 and the phone is 563-245-1516.

Merritt Forest State Preserve is west of Millville. It is 20 acres of virgin timber.

The Turkey River Mounds State Preserve is found where the Turkey River joins the Mississippi River. This preserve has Indian burial mounds and forests. It is also called Estes Point.

The Turkey River has a number of public access points in the study area.

For further information about the state lands in Clayton and Dubuque counties, contact Ms. Kelly Poole at 515-281-8967. Ms. Poole works for the Iowa Department of Natural Resources. She should be able to provide you GIS locations for the properties.

As you enter the final stages in determining the routes, the Sierra Club would like to continue to be involved in the process of reviewing the routes.

As you are aware, we continue to be concerned about protecting the birds and bats that are found in the state as well as protecting the natural areas and recreation areas near the planned routes.

Thank you for considering these comments.

Sincerely,

Pam Mackey Taylor  
Energy Chair

August 30, 2013

Kate Staver  
Burns and McDonnell  
9400 Ward Parkway  
Kansas City, Missouri 64114

Ms. Staver,

Thank you again for inviting the opportunity to provide comments on the proposed expansion of ITC Midwest Hickory Creek to Cassville Transmission Line Project. While this proposed project does not impact any current lands that The Nature Conservancy owns a legal interest, we have been very active in the past to identify sensitive habitats, such as algific talus slopes, throughout the entire Driftless Area and are still interested in impacts to important conservation lands throughout this area.

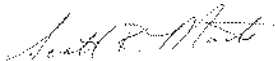
I have several concerns of the potential impact in the proposed study area. The Mississippi River is an important migration corridor for raptors and other birds. The large blocks of timber habitat in the area are important for neotropical birds, such as the cerulean warbler. I am also concerned about the potential for fragmented habitat corridors and vertical structure that may impair the ability of these species to successfully navigate and utilize the Mississippi River corridor and the high quality forest habitats. Additionally, the Upper Mississippi National Wildlife Refuge is within the proposed boundaries of the project and serves as critical habitat for a number of non-migratory species of plants and animals. Additionally, there are several algific talus slopes (cold air slopes) harboring a federally endangered snail species within the proposed project area. These cold air habitats are extremely sensitive and house many species that are uncommon, rare, and endangered within Iowa. As you are aware, there also exist a high number of archaeological sites within the proposed study area, such as Turkey River Mounds State Preserve.

Additionally the scenic byway provides aesthetic value and recognition of large landscapes, river corridors, and vistas not commonly experienced throughout Iowa. The Great River Road Scenic Byway is just one of two national scenic byways in the state of Iowa.

This area is exceptionally rich and diverse; biologically, topographically, aesthetically, and archaeological significance.

Thank you for the opportunity to provide input.

Sincerely,



Scott Moats  
Director of Stewardship  
The Nature Conservancy in Iowa





# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Rock Island Field Office  
1511 47<sup>th</sup> Avenue  
Moline, Illinois 61265  
Phone: (309) 757-5800 Fax: (309) 757-5807

IN REPLY REFER  
TO:

FWS/RIFO

August 19, 2013

Ms. Kate Staver  
Burns & McDonnell  
9400 Ward Parkway  
Kansas City, Missouri 64114

Dear Ms. Staver:

As discussed during a meeting with my staff on July 22, 2013, the proposed transmission line identified as Hickory Creek to Cassville (Project Number 74417) is located near the Upper Mississippi River National Wildlife and Fish Refuge (Refuge). The proposed project area encompasses both the Refuge at the crossing of the Mississippi River and sensitive inland non-federal sites such as White Pine Hollow State Park. The U.S. Fish and Wildlife Service (Service) is concerned about the impact this proposed line may have on Service lands and species covered under the Endangered Species Act (ESA), as well as migratory birds protected under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (Eagle Act).

The Refuge was established in 1924 as a refuge for fish, wildlife, plants, and breeding place for migratory birds. The Refuge is designated as a Wetland of International Importance and a globally Important Bird Area. Initial clearing and continued maintenance of the right of way for the subject project would eliminate Refuge habitat used by migratory birds, bald eagles, and potentially federally listed species. Migratory birds and eagles are known to collide with transmission lines spanning the Mississippi River causing injuries and often mortality.

The Refuge owns and manages lands on the floodplain of the Mississippi River in Clayton and Dubuque Counties, Iowa. With a few exceptions, Refuge lands are mostly contiguous between the railroad tracks on either side of the river (see page 213 of "Upper Mississippi River National Wildlife and Fish Refuge, Comprehensive Conservation Plan). Any new power lines connecting the Turkey River substation to Cassville, WI would likely involve crossing of the Refuge. The social, natural, and cultural resources of the Refuge are described in the Comprehensive Conservation Plan<sup>1</sup> prepared in 2006. Regulations and policy governing uses on national wildlife refuges prohibit new uses or projects which fragment habitat and such projects include

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<sup>1</sup> For the complete Comprehensive Conservation Plan, visit  
<http://www.fws.gov/midwest/planning/uppermiss/CCP/CCP.pdf>

roads, bridges, and power lines. **The Service recommends ITC Midwest consider routing options which do not involve crossing the Refuge. Please provide the Service with an analysis of alternative routes that would not impact the Refuge, detailing the feasibility of alternative routes.**

Section 7 of the ESA requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project and associated actions “may affect” listed species or critical habitat. If Federal agencies or their non-federal representatives determine their project and associated actions will have “no effect” on listed species, their habitats, or designated critical habitat, consultation is not required. However, if a “no effect” is determined, we recommend that you maintain a written record in support of your conclusion.

We invite you to use a new tool the Service has designed to help with the consultation process – the Section 7(a)(2) Technical Assistance webpage (<http://www.fws.gov/midwest/endangered/section7/s7process/index.html>). The webpage provides guidance to help you determine what your action area is, whether endangered species may be found within the action area, and if your project and associated actions may affect listed species. You will also find several products on the site that can streamline the consultation process for this and future projects, including up-to-date county-specific species lists for all of the states in Region 3 and example letters for documenting your findings related to endangered species.

Additionally, the Service removed bald eagles from protection under the ESA on August 8, 2007. However, they remain protected today under the MBTA and the Eagle Act. Several eagle nests are present in the project area, and a map is enclosed illustrating known nests. The Eagle Act prohibits take which is defined as, “pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, destroy, molest, or disturb” (50 CFR 22.3). Disturb is defined in regulations as, “to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, 1) injury to an eagle, 2) decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or 3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior.”

We encourage the use of raptor-friendly overhead electric transmission designs which can effectively reduce electrocution in migratory birds, particularly raptors, which are protected under the MBTA. This office can be contacted for more information on designs for utility structures and raptor prevention measures. We encourage the careful assessment of project impacts to these resources and request that you consider the incorporation of best management practices and raptor-friendly overhead electric transmission designs into your project plans. This office can be contacted for more information on designs for utility structures and raptor electrocution prevention measures.

These comments provide technical assistance only and do not constitute the report of the Secretary of the Interior on the project within the meaning of Section 2(b) of the Fish and Wildlife Coordination Act, do not fulfill the requirements under Section 7 of the ESA, nor do they represent the review comments of the U.S. Department of the Interior on any forthcoming environmental statement. Thank you for the opportunity to provide comments early in the



planning process. If you have any additional questions or concerns, please contact Drew Becker of my staff at (309) 757-5800, extension 216 or via e-mail at [drew\\_becker@fws.gov](mailto:drew_becker@fws.gov).

Sincerely,



Richard C. Nelson  
Field Supervisor

Enclosure

cc: USFWS, R3, Upper Mississippi NWFR (King) w/o enclosure  
USFWS, R3, Upper Mississippi NWFR (Yager) w/o enclosure  
USACE, Rock Island District (Lundh) w/o enclosure  
ITC (Hagan) w/o enclosure  
ITC (Jordan) w/o enclosure

s:\office users\drew\letters\transmission lines\itc hickory creek to cassville.docx

January 29, 2015

Attn: Henry Wen  
ITC Midwest  
123 Firth Street SE  
Cedar Rapids, IA 52241

Henry, our bridge people have weighed in on allowing attachment of the transmission line to either one of our bridges. These bridges have fracture critical components that must be inspected 'hands-on' every 2 years and placing high voltage lines on the bridge would prevent access to the fracture critical members. Future maintenance and repairs would be impacted adversely and probably require significant down time for the power lines during those times. Those are just the top issues on their list. There are less serious ones that we did not get into because the first ones are beyond consideration.

After having a discussion with the State Bridge Maintenance and Inspection Engineer I must convey the state **will not** be in a position to grant a permit for attachment of high power electric transmission lines to any of our Mississippi River bridges. If you desire further explanation or discussion please let me know. Sorry we are not able to help you. I hope you haven't expended too much time exploring this possibility.

There is a future Highway 20 bridge that is planned to cross the Mississippi. That bridge will have the same issues as the existing ones and is not in the 5 year program so it will likely be at least 10 years before construction would start.

Sincerely,



Bryan Bradley  
State Utility Engineer  
[bryan.bradley@dot.iowa.gov](mailto:bryan.bradley@dot.iowa.gov)

BB:sa





City Manager's Office  
50 W. 13<sup>th</sup> Street  
Dubuque, IA 52001  
Office (563) 589-4410  
Fax (563) 589-4149  
TDD (563)556-9948  
citymanagersoffice@cityofdubuque.org  
www.cityofdubuque.org

February 3, 2015

Angela Jordan, Area Manager, Local Government  
ITC  
123 Fifth St. SE  
Cedar Rapids, Iowa 52401

Mark Ryan, Principal Engineer  
ITC Midwest  
6750 Chavenelle Rd.  
Dubuque, Iowa 52002

Dear Angela Jordan and Mark Ryan:

Per your meeting with City Staff on November 11, 2014, we are writing to respond to your request for comments on the three route alternatives for the "ITC Cardinal-Hickory Creek 345KV Project". City staff has met to review the information submitted by ITC at that meeting and we note the following:

1. Hickory Creek-East Dubuque Route Alternative
  - a. Mt. Calvary/Linwood Cemetery is within 200 feet and 250 feet of this route.
  - b. This route is near a planned water tower site on Roosevelt.
  - c. This route will affect the most wetland acres.
  - d. This route will affect residential properties (125 residences within 250').
2. Salem-East Dubuque Route Alternative
  - a. The National Mississippi River Museum and Aquarium is within 200 feet and 250 feet of this route.
  - b. This route will affect the highest number of communication facilities.
  - c. This route will affect the highest number of commercial properties.
  - d. This route includes the highest number of streams and waterways crossed.
  - e. This route will affect residential properties (18 residences within 250').
3. Lock and Dam No. 11 Route Alternative
  - a. Mt. Calvary/Linwood Cemetery is within 200 feet and 250 feet of this route.

- b. Sutton Public Pool and the City of Dubuque Eagle Point Water Plant are within 200 feet and 250 feet of this route.
- c. This route is near a planned water tower site on Roosevelt.
- d. This route will affect the highest number of residential properties (133 residences within 250').
- e. This route will affect the highest number of woodland acres.

Per the November 11, 2014 meeting, we understand that ITC's preferred route alternative is Lock and Dam No. 11. This route alternative is the only one which includes areas that are not currently occupied by overhead transmission facilities. Additionally, the proposed Lock and Dam No. 11 Route Alternative will have obvious negative visual impacts on the visitors of Eagle Point Park. Established in 1909 and located on Shiras Avenue, Eagle Point Park is one of the most outstanding parks in the Midwest. The park is one hundred and sixty-four acres and overlooks the Mississippi River and Lock and Dam #11, providing a spectacular tri-state view of Iowa, Illinois and Wisconsin. Approximately 240,000 people visit the park and more than 1,200 events are held at the park each year.

The City of Dubuque Electric Transmission Line Company Licensing Ordinance requires an electric transmission line company to apply, via petition, for a license to erect, maintain and operate a facility within the city. Please note that a public informational meeting is required prior to filing the petition. If ITC would like to apply for said license, please follow the procedure for licensing detailed in Chapter 6 of Title 11 in the City of Dubuque Code of Ordinances.

Feel free to contact me if you have any questions.

Sincerely,



Michael C. Van Milligen  
City Manager

cc: Gus Psihoyos, City Engineer  
Barry Lindahl, City Attorney  
Nate Kieffer, PLS

## **Chapter 6**

# **PROCEDURE FOR LICENSING ELECTRIC TRANSMISSION LINE COMPANIES**

### **11-6-1: GRANT OF LICENSE:**

- A. The city council may grant to any person a license to erect, maintain, and operate an electric transmission line within the city.
  
- B. The license may regulate the conditions required and the manner of use of the streets and public grounds of the city. (Ord. 15-13, 3-4-2013)

### **11-6-2: LICENSEE FEE:**

- A. A license fee will be assessed by the city council based upon the city's cost of inspecting, supervising, and otherwise regulating the licensee's operations.
  
- B. The licensee shall also pay the city a franchise fee of five percent (5%) of gross revenues generated from sales of the franchisee within the city. (Ord. 15-13, 3-4-2013)

### **11-6-3: PETITION FOR LICENSE; INFORMATIONAL MEETINGS HELD:**

- A. Any person authorized to operate electric transmission lines in the state may file a verified petition with the city clerk asking for a license to erect, maintain, and operate a line or lines for the transmission of electric current and for such purpose to erect, use, and maintain poles, wires, guywires, towers, cables, conduits, and other fixtures and appliances necessary for conducting electric current over, along, and across any city lands or rights of way.

- B. As condition precedent to the filing of a petition requesting a license for a new transmission line, and not less than thirty (30) days prior to the filing of such petition, the person shall hold a public informational meeting.
- C. The meeting shall be held in the city of Dubuque at a location reasonably accessible to all persons that may be interested in the granting of the license.
- D. The person seeking the license for a new transmission line shall publish notice of the informational meeting. The notice shall contain the following:
1. The name of the applicant.
  2. The applicant's principal place of business.
  3. A general description and purpose of the proposed project.
  4. The general nature of the right of way desired.
  5. A map showing the route of the proposed project including the location of all towers, poles, and other equipment.
  6. A description of all towers, poles, and other equipment to be constructed or installed.
  7. The place and time of the meeting.
- E. The notice shall be published not less than thirty (30) days prior to the time set for the meeting once in a newspaper of general circulation in the city at least one week and not more than three (3) weeks before the time of the meeting. (Ord. 15-13, 3-4-2013)

#### **11-6-4: PETITION:**

- A. All petitions shall set forth:
1. The name of the individual, company, or corporation asking for the license.
  2. The principal office or place of business.
  3. The starting points, routes, and termini of the proposed lines, accompanied with a map or plat showing such details, including the location of all towers, poles, and other equipment and a detailed description of all towers, poles, and other equipment to be

constructed or installed.

4. A general description of the public or private lands, highways, and streams over, across, or along which any proposed line will pass.
  5. General specifications as to materials and manner of construction. Whether the transmission lines will be aboveground or underground, and if aboveground, the petitioner's detailed explanation why the lines will not be underground.
  6. The maximum voltage to be carried over each line.
  7. An allegation that the proposed construction is in the public interest.
- B. Petitions for transmission lines capable of operating at sixty nine (69) kilovolts or more shall also set forth an allegation that the proposed construction represents a reasonable relationship to an overall plan of transmitting electricity in the public interest and substantiation of such allegations, including, but not limited to, a showing of the following:
1. The relationship of the proposed project to present and future economic development of the area.
  2. The relationship of the proposed project to comprehensive electric utility planning.
  3. The relationship of the proposed project to the needs of the public presently served and future projections based on population trends.
  4. The relationship of the proposed project to the existing electric utility, gas, stormwater, sanitary sewer, water and fiber systems and parallel existing utility routes.
  5. The relationship of the proposed project to any other power system planned for the future.
  6. The possible use of alternative routes and methods of supply.
  7. The relationship of the proposed project to the present and future land use and zoning ordinances.
  8. The inconvenience or undue injury which may result to property owners as a result of the proposed project.
- C. The city council may waive the proof required for such allegations which are not applicable to a particular proposed project.
- D. The petition shall contain an affidavit stating that the required informational meeting was held and the time and place of such meeting. (Ord. 15-13, 3-4-2013)

**11-6-5: PUBLIC HEARING:**

- A. When considering whether to grant, amend, extend, or renew a license, the city council shall hold a public hearing on the question. Notice of the time and place of the hearing shall be published as provided in Iowa Code section 362.3. The city council shall consider the petition and any objections filed to it. It shall examine the proposed route or cause any engineer selected by it to do so. It may hear testimony as may aid it in determining the propriety of granting the license. It may grant the license in whole or in part upon the terms, conditions, and restrictions, and with the modifications as to location and route as may seem to it just and proper.
- B. A license shall not become effective until the petitioner shall pay, or file an agreement to pay, all costs and expenses of the license proceeding, whether or not objections are filed, including costs of inspections or examinations of the route, hearing, publishing of notice, and any other expenses reasonably attributable to it. (Ord. 15-13, 3-4-2013)

**11-6-6: MANNER OF CONSTRUCTION:**

- A. Such lines shall be built of strong and proper wires attached to strong and sufficient supports properly insulated at all points of attachment; all wires, poles, and other devices which by ordinary wear or other causes are no longer safe shall be removed and replaced by new wires, poles, or other devices, as the case may be, and all abandoned wires, poles, or other devices shall be at once removed. Where wires carrying current are carried across, either above or below wires used for other service, the said transmission line shall be constructed in such manner as to eliminate, so far as practicable, damages to persons or property by reason of said crossing. There shall also be installed sufficient devices to automatically shut off electric current through said transmission line whenever connection is made whereby current is transmitted from the wires of said transmission line to the ground, and there shall also be provided a safe and modern improved device for the protection of said line against lightning. The city council shall have power to make and enforce such further and additional rules relating to location, construction, operation and maintenance of said transmission line as may be reasonable.
- B. All transmission lines, wires or cables for the transmission, distribution or sale of electric current at any voltage shall be constructed and maintained in accordance with standards adopted by rule by the Iowa utilities board. (Ord. 15-13, 3-4-2013)



**11-6-7: DISTANCE FROM BUILDINGS:**

No transmission line shall be constructed, except by agreement, within two hundred fifty feet (250') of any dwelling house or other building, except where said line crosses or passes along a public highway or is located alongside or parallel with the right of way of any railway company. In addition to the foregoing, each person, company, or corporation shall conform to any other rules, regulations, or specifications established by the Iowa utilities board, in the construction, operation, or maintenance of such lines. (Ord. 15-13, 3-4-2013)

**11-6-8: NONUSE; REVOCATION OF LICENSE; EXTENSIONS OF TIME:**

- A. If the improvement for which a license is granted is not constructed in whole or in part within two (2) years from the date the license is granted, the license shall be forfeited, unless the person holding the license petitions the city council for an extension of time.
  
- B. Upon a showing of sufficient justification for the delay of construction, the city council may grant one or more extensions of time for periods up to two (2) years for each extension. (Ord. 15-13, 3-4-2013)

**11-6-9: WIRES ACROSS RAILROAD RIGHT OF WAY AT HIGHWAYS:**

No corporation or person shall place or string any such wire for transmitting electric current or any wire whatsoever across any track of a railroad except in the manner prescribed by the utilities board. (Ord. 15-13, 3-4-2013)



ITC MIDWEST  
123 Fifth Street SE  
Cedar Rapids, IA 52401  
phone: 319.297.6700  
www.itctransco.com

February 17, 2015

VIA EMAIL

Paul F. St. Louis  
U.S. Army Corps of Engineers  
1500 Iowa Interstate Railroad  
Rock Island, IL 61201

Nathan Wallerstedt  
U.S. Army Corps of Engineers  
180 5th Street East  
St. Paul, MN 55101

**Re: Cardinal-Hickory Creek Transmission Project - Mississippi River  
Crossing Analysis - Lock and Dam No. 10 & Lock and Dam No. 11:  
Meeting Notes from January 7, 2014 Conference Call**

Dear Messrs. St. Louis and Wallerstedt:

Enclosed please find the final meeting notes of our January 7, 2014 call regarding the proposed lock and dam crossing locations for the Cardinal-Hickory Creek Transmission Line Project ("Project"). The notes include changes provided by the United States Army Corps of Engineers on February 3, 2015. I note that these notes take the place of the dual letter referenced at the end of the meeting notes which was initially identified as the means of documenting discussions between ITC Midwest and the Corps. relating to the Project.

Please contact me with any questions.

Sincerely,

Dan Hagan  
Permit Policy Specialist  
Local Government & Community Affairs  
DH/rlr

*we're your energy superhighway*

Cardinal-Hickory Creek Transmission Project –  
Mississippi River Crossing Analysis - Lock and Dam No. 10 & Lock and Dam No. 11:  
Meeting Notes from January 7, 2014 Conference Call

Attendees:

**ITC Midwest**

Dan Hagan  
Mark Ryan  
Henry Wen  
Matt Carstens

**USACE**

Paul St. Louis (Rock Island)  
Nathan Wallerstedt (St. Paul)  
Henry DeHann  
Jim Piper  
Robert Germann  
Tom Heinold  
Harland Shannon  
Doug Crum (St. Paul)  
Rick Hauck (St. Paul)

**Burns & McDonnell**

Jack Middleton  
Joe Pattison

**Notes:**

- 1) Dan Hagan provided a brief project introduction and background of the previous consultation efforts with both the USACE and USFWS; USACE staff indicated their appreciation for the overview and continued consultation efforts by ITC.
- 2) Dan explained that this is a joint project with ATC and briefly explained the project division between the two companies and some of the outreach efforts underway in each state.
- 3) Dan explained the development of the study area as well as the rationale behind the size and extent of the study area, as well as relationship to the original project configuration under MISO. Dan indicated that a feasibility analysis was being developed for all seven potential crossing locations within the study area and that the data being requested during this meeting would be compiled into this document, which would then serve as the base for a river crossing application.
- 4) Additional background was provided to USACE staff on the IDOT consultations in relation to the use of the two bridges within Dubuque. Dan summarized IDOT's concerns and USACE staff understood the limitations and restrictions from IDOT's point of view; ITC staff indicated to USACE that a letter was being drafted to IDOT that would summarize ITC's understanding of their position and restrictions for placement of HVTL's on these bridges. Dan indicated that this type of letter was something they would like to generate for the two lock and dam crossing locations.
- 5) Paul St. Louis indicated that the 1,200' distance indicated in his email was a length based on review by river crossing engineering staff for this particular lock and dam --- Paul indicated that the 1,200' estimate was not USACE policy, but

rather a condition related to this specific lock and dam. Dan indicated that this was one of the larger issues of clarification and enquired with Nathan Wallerstedt whether or not there were any similar conditions on Lock and Dam No. 10.

Nathan indicated that they also did not have a specific USACE requirement for a setback from the dam or spillway, but agreed that 1,200' feet was "a pretty good number" for distance from the dam and associated facilities such as the spillway.

- 6) Nathan Wallerstedt indicated that he had the same concerns as indicated in the Rock Island letter and that the line would need to be moved off "a safe distance" from the dam; there was some internal USACE discussion about the specific setback distance, with some staff indicating that 1,000' may be acceptable; however, there was no consensus among the group and the discussion eventually gravitated back to the 1,200' figure as being appropriate for each location.
- 7) Nathan stated similar safety concerns regarding cranes operating from the earth embankment; any transmission lines would need to be located a safe distance away. USACE staff also indicated that ongoing maintenance activities could be impacted by a nearby line, as well as the ability to respond to future scour hole issues downstream of the dam.
- 8) Tom Heinold also stated that the USACE would have geotechnical concerns with any subsurface activities near the lock and dams; Tom indicated that the embankments hold back a significant weight and that construction near the lock and dams could shorten seepage paths, resulting in serious integrity concerns for the lock and dams.
- 9) Paul St. Louis indicated that their preference was also to not have anything located within 600' upstream of the lock and dams for safety concerns; Nate Wallerstedt indicated that this would apply at Lock and Dam No. 10 as well.
- 10) Dan Hagan and Henry Wen brought up the issue of conductor clearance over the river channel and enquired about the 90' clearance number. USACE staff indicated that it may be lower in specific areas along the river and that the specific clearance is also related to the water surface profile when the locks are closed (as opposed to open). USACE staff stated that the Dubuque-WI bridge was 64' above pool height, while some overhead wires were approximately 78-79' in some locations. USACE staff indicated that ITC should also check with the Coast Guard concerning potential navigations issues relating to construction and maintenance activities.
- 11) USACE St. Paul staff enquired about the potential undergrounding of the line at Dubuque; Dan indicated that they have not looked into this in detail as there are some fairly tight restrictions for putting a line through Dubuque which would prevent a potential segment from even reaching a potential underground crossing location. Dan also indicated that there were areas where underground construction is being evaluated, but this is currently limited to the Refuge area; Dan also explained some of the potential concerns and impacts with undergrounding HVTLs.

- 12) Rob Germann also indicated that the suspended wires near operating lock and dam locations was a safety concern in general.
- 13) Paul St. Louis also brought up the recent 'Sunfish' restoration efforts just north of Lock and Dam No. 11; Paul suggested that ITC look into this restoration effort to see if there were any conflicts with a potential HVTL in this area.
- 14) Nathan Wallerstedt stated that there may also be concerns regarding construction of a potential HVTL downstream of Lock and Dam No. 10 as a result of the braided channel and use of barges for construction. Potential construction issues in proximity to the lock and dam locations was good information to relate to USFWS staff.
- 15) USACE St. Paul District staff brought up the potential issues with HVTL in relation to Bald Eagle winter habitat in proximity to the dams; as a result of the limited freezing near these locations, the areas have become an important winter-feeding area for Bald Eagles.
- 16) Paul St. Louis indicated that the USACE is currently updating their master/comprehensive plan for the Upper Mississippi. In it, the USACE has provided 'dedicated corridors' for utility development. Paul cautioned that this information is still being developed, but that we should enquire with Paul Lundt, who is managing the updates to the plan.
- 17) Dan Hagan concluded the meeting with a roundtable discussion of any additional concerns or clarifications from USACE staff. No additional item of concern was brought up that wasn't previously discussed during the call. Dan indicated that they would like to summarize the results of this conference call as well as the previous discussions with USACE staff. USACE staff indicated that a dual letter to both districts would be acceptable.



**IOWA CHAPTER**

April 24, 2015

Troy Weary  
ITC Midwest  
Via [tweary@itctransco.com](mailto:tweary@itctransco.com)

RE: Mississippi River Crossings in Dubuque and Clayton Counties

Dear Troy:

On behalf of the Iowa Chapter, we offer the following comments about the river crossings being studied in Dubuque and Clayton Counties.

- a. The Chapter prefers using existing easements as opposed to creating a new easement.
- b. The least favorable crossing is a new crossing north of Cassville - Turkey River to the Nelson Dewy Power Plant.
- c. Less favorable are the two crossings at the lock and dams, Number 10 and Number 11.
- d. More favorable are the three crossings in Dubuque (Highway 61/151, Highway 20 bridge, existing Dubuque to Galena transmission corridor) and the Cassville Ferry crossing.

Thank you for considering our comments.

Very truly yours,

Pamela Mackey Taylor  
Conservation Chair



521 East Locust Street, Suite 220  
Des Moines, IA 50309-1939  
515-244-1194 Phone  
515-244-7856 Fax  
[www.iaenvironment.org](http://www.iaenvironment.org)

May 15, 2015

**By Electronic Mail**

Troy Weary  
ITC Midwest  
100 East Grand Avenue, Suite 230  
Des Moines, Iowa 50309

RE: ITC Midwest identified Mississippi River crossing options for MVP 5

Dear Troy:

Thank you for the opportunity to provide input regarding ITC Midwest's Multi-Value Project 5 Transmission Line Project. The Iowa Environmental Council is a statewide environmental policy non-profit organization comprised of a diverse alliance of individuals and over 60 member organizations working to provide a safe, healthy environment and sustainable future for Iowa.

We support the expansion of wind energy in Iowa and recognize additional transmission lines will be necessary to achieve that expansion. We believe there must be a balance between the environmental benefits of wind generation and the potentially adverse environmental impacts from the needed transmission lines. With a proactive and inclusive planning, siting, and routing process, we can achieve this balance.

We appreciate the maps provided to us by ITC in March and April of this year, including the study area map, the map of crossing options, and the more detailed map of the Cassville crossing area. In addition to these and other maps of the area, our review included in-person site visits to all of the identified crossing options except for the Guttenberg option ("Lock & Dam No. 10"). The review of these crossing options builds upon the review and comment letter we submitted to ITC on several previously identified crossing options in the Cassville area, which we submitted in August 2013. We have included some of the same information and recommendations in this comment letter that we previously submitted in that letter.

We appreciate that nearly all of the crossing options were identified where there is existing infrastructure crossing the River, including lock and dam crossings, highway bridges, and transmission lines. Overall, we continue to support the use of existing transmission crossings for the MVP crossing. Of the identified crossing options, two would be located where there are existing transmission lines crossing the Mississippi River. One of these is just south of the highway 61/151 bridge in Dubuque and is labelled the "Dubuque to Galena 161 kV line" on the crossing location map. The other existing transmission crossing is identified as the "Turkey River to Cassville 161 kV line."

We encourage ITC to prioritize analyzing the feasibility of these two options. For either of these crossings, we strongly encourage ITC to double circuit/combine the MVP 345 kV line with the existing lower voltage lines so that the MVP line would not create a separate crossing.

We understand that for the “Dubuque to Galena 161 kV line” crossing this could pose a problem: because the line is already double-circuited, adding the MVP line could require the line to be triple-circuited. We also recognize that there are additional challenges relative to this crossing. The 345 kV network in Iowa that MVP 5 is intended to connect with currently exists west and south of Dubuque. A connection would need to be made between the river crossing and that 345 kV line, which would mean bringing a new 345 kV line through Dubuque from the west or along the river in Dubuque from the south. Despite these challenges, we encourage ITC to fully explore the feasibility of this crossing option.

The “Turkey River to Cassville 161 kV line” crossing option could follow existing transmission right of way through the Mississippi River National Wildlife and Fish Refuge and cross the river at the Stoneman substation in Cassville. Initially we prefer this existing crossing option to the option ITC identified just north the Nelson Dewey Power Plant. On the Cassville side of the River, for example, the existing transmission line connects to a substation next to an active biomass-powered generation facility, Stoneman Station, and then moves eastward on the south edge of Cassville. Using this right of way for an upgraded/double circuited line appears feasible. However, more information is needed on the specific route options on the Iowa and Wisconsin sides for the crossing and adjacent right of way to determine whether use of the existing ROW at the “Turkey River to Cassville” crossing or moving this line to new ROW slightly north at the “Turkey River to Nelson Dewey Power Plant” would be preferable. For example, would the new ROW follow the public road in the Refuge that leads to the ferry dock? Given the sensitive nature of the Refuge and the need to minimize impacts in this area, we would appreciate more specific siting and routing options from ITC for both of these crossing options.

Other identified options without transmission infrastructure should be lower priority for the crossing. For example, “Lock & Dam No. 11” is in an area that, except of the lock and dam, appears to be largely undeveloped on both the Iowa and Wisconsin side of the River. The “Julien/Dubuque Highway 20 Bridge” likely presents the same challenges as the “Dubuque to Galena 161 kV line” option but without the benefit of existing transmission right of way.

In addition, we encourage ITC to consider the following for the siting and routing process for the river crossing itself as well as any lines to connect the crossing to the 345 kV network in Iowa:

**Mississippi River significance.** The Mississippi River system includes critically important habitat that supports more than 400 species of wildlife, including several endangered species.<sup>1</sup> The Upper Mississippi River National Wildlife and Fish Refuge is the longest river refuge in the continental United States and alone hosts 119 species of fish.<sup>2</sup> The Mississippi River valley is also an essential migration corridor for

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<sup>1</sup> <http://www.nwf.org/wildlife/pdfs/UpperMississippiRiver.pdf>, <http://www.pbs.org/now/science/delta.html>.

<sup>2</sup> Water Science and Technology Board, *Mississippi River Water Quality and the Clean Water Act: Progress, Challenges, and Opportunities* (2008), [http://books.nap.edu/openbook.php?record\\_id=12051&page=21](http://books.nap.edu/openbook.php?record_id=12051&page=21).



birds. Over 40% of North America's ducks, geese, swans and wading birds rely on the Mississippi River as a flyway.<sup>3</sup> These are only a few examples to help illustrate the importance of the Mississippi River.

**Habitat in the area study area.** In addition to the river crossing, the identified study area includes or is just adjacent to natural habitat areas and public use areas, including Merritt State Forest, Bankston Park, and others. The revised study area map appears to identify each of these areas. We request that ITC Midwest entirely avoid any impact on these areas in the final route and construction process. These areas appear to be relatively small in size and not directly in the path between identified new or existing substations, and therefore are areas ITC Midwest can entirely avoid in the final siting, routing, and construction process.

**Outstanding Iowa Waters.** The counties of Clayton, Dubuque, and Delaware are home to unique streams in Iowa, some of which are cold water trout streams and some of which have been designated as Outstanding Iowa Waters by the Iowa DNR.<sup>4</sup> Based on our initial review, it does not appear that designated Outstanding Iowa Waters exist in the current study area. We request that ITC Midwest conduct an additional analysis to ensure and confirm that none of these waters are in the study area or possible route of the transmission project. Because waters in this area may be of very high quality even if they are not designated as Outstanding Iowa Waters, we also request that ITC Midwest preserve the quality of all streams and rivers throughout the study area in the siting, routing, and construction process.

**Fens and Bogs.** It is our understanding that Clayton and Dubuque counties are home to existing fens and bogs. Fens are an important water and habitat resource in Iowa. An Iowa State Extension publication states describes the unique and rare ecology and geology of Iowa's fens and bogs.<sup>5</sup> Fens may be on private land and may or may not be well-managed and preserved. In any case, fens are waters of the state of Iowa and protected by Iowa's water quality standards.<sup>6</sup> The map on page 5 of the above-referenced Iowa State Extension publication provides some guidance on the location of fens in Iowa. The map indicates that known fens exist in Clayton, Delaware, and Dubuque counties. The Iowa DNR maintains significant information about fens in Iowa. We recommend contacting Kelley Poole and Chris Schwake at Iowa DNR to identify a procedure that will allow ITC Midwest to identify and avoid all known fens at this stage in the siting and routing process. Some fens may not be known or identified, therefore we encourage the use of additional steps to identify fens as ITC Midwest finalizes a route and plan for constructing the line. These include use of satellite imagery (e.g., Google Maps and Google Earth) as well as in-person site visits. Most or all fens are likely to be small in size and thus are areas ITC Midwest can avoid during the final siting and routing process as well as during the construction phase of the project. We urge ITC Midwest to avoid impacting all fens given their unique role as a water resource and as habitat for rare and endangered species.

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<sup>3</sup> <http://www.fmr.org/mississippi>.

<sup>4</sup> More information about Outstanding Iowa Waters, including maps of each designated water, are available here: <http://www.iowadnr.gov/InsideDNR/RegulatoryWater/WaterQualityStandards/Antidegradation.aspx#dltop>.

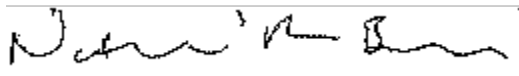
<sup>5</sup> Iowa State University Extension, *Managing Iowa Habitats: Fen Wetlands*, February 1993, at <http://www.extension.iastate.edu/Publications/PM1351F.pdf>.

<sup>6</sup> Iowa Admin. Code 567—61.2(2)(g)(7) (2012).

**Preparing for potential mitigation.** To the extent that additional impacts to the Mississippi River area cannot be avoided in the final route, ITC Midwest should take additional steps, such as completing additional mitigation to offset impacted lands, to ensure that environment and conservation goals in this area of Iowa are advanced. We are available to work with ITC Midwest on such steps and to engage additional organizations or partners as appropriate.

We appreciate the opportunity to provide input on the identified crossing options and are available to continue to provide input as the project moves forward. We look forward to ITC Midwest's responses to the questions and additional information requested in this letter. Please feel free to follow up with any questions. I can be reached at [baer@iaenvironment.org](mailto:baer@iaenvironment.org) or 319-321-8449 (cell). I look forward to the next steps in the process.

Sincerely,

A handwritten signature in black ink, appearing to read "Nathaniel Baer", enclosed in a thin black rectangular border.

Nathaniel Baer  
Energy Program Director  
Iowa Environmental Council

**RESOLUTION NO. 215-15**

**PROVIDING THAT A PROPOSED PROJECT BY ITC MIDWEST LLC FOR A LICENSE TO ERECT, MAINTAIN AND OPERATE A PROPOSED ELECTRIC TRANSMISSION LINE FACILITY IN THE CITY OF DUBUQUE WOULD NOT BE PERMITTABLE UNDER THE CITY OF DUBUQUE CODE OF ORDINANCES AND WOULD NOT BE PERMITTED BY THE CITY COUNCIL AND THEREFORE AN APPLICATION FOR A LICENSE AND THE REQUIRED PROCESS FOR SUCH A LICENSE WOULD NOT BE IN THE PUBLIC INTEREST**

Whereas, City of Dubuque Code of Ordinances Chapter 11-6 establishes a process for licensing electric transmission line companies which requires an electric transmission line company to apply for a license to erect, maintain and operate a facility within the city; and

Whereas, the applicant must hold a public informational meeting prior to filing the petition; and

Whereas, Chapter 11-6 requires the City Council to hold a public hearing when considering whether to grant, amend, extend, or renew such a license; and

Whereas, ITC Midwest LLC (ITC) proposes to apply for a license for three (3) proposed route alternatives for a 345 kilovolt (KV) overhead electric transmission line as shown on the attached map; and

Whereas, the City Manager has met with representatives of ITC to gather information about the proposed project; and

Whereas, the City Manager and City staff have investigated the project, including material provided by ITC; and

Whereas, the City Manager has provided the City Council with the attached recommendation that the filing of a petition by ITC and a formal public hearing process would not be in the public interest; and

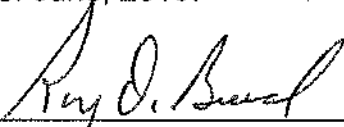
Whereas, the City Council, having reviewed the City Manager's recommendation, and material provided by ITC, finds that the City Council has adequate information to determine that the proposed project is not permittable and would not be permitted under Chapter 11-6, and that the recommendation of the City Manager should be approved.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DUBUQUE, IOWA:**

Section 1. The City Council hereby approves the recommendation of the City Manager that the filing of a petition by ITC for a license to erect, maintain and operate a facility within the city as proposed by ITC is not permittable and would not be permitted

by the City Council, and that the filing of an application by ITC and proceeding with the process required by the City of Dubuque Code of Ordinances for such a license would not be in the public interest.

Passed, approved and adopted this 15th day of June, 2015.

  
\_\_\_\_\_  
Roy D. Buol, Mayor

Attest:

  
\_\_\_\_\_  
Kevin S. Firnstahl, City Clerk

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**MEMORANDUM**

**TO:** Michael C. Van Milligen, City Manager

**FROM:** Laura Carstens, Planning Services Manager *LC*  
Gus Psihoyos, City Engineer *GP*

**SUBJECT:** ITC Route Alternatives for Overhead Electric Transmission Facilities

**DATE:** June 10, 2015

**INTRODUCTION**

This memorandum provides a recommendation on the route alternatives for overhead electric transmission facilities proposed by ITC through the city of Dubuque. Enclosed are a map of the route alternatives, City Code Chapter 11-6 Procedure for Licensing Electric Transmission Line Companies, and a resolution.

**BACKGROUND**

City Code Section 11-6-3 requires an electric transmission line company to apply, via petition, for a license to erect, maintain and operate a facility within the city. The applicant must hold a public informational meeting prior to filing the petition. Section 11-6-5 requires the City Council to hold a public hearing when considering whether to grant, amend, extend, or renew a license. Section 11-6-7 sets forth location criteria. This section requires a transmission line to be at least two hundred fifty feet (250') from any dwelling or other building, except by agreement or when the line crosses or passes along a public highway or is located along a railroad right-of-way.

**DISCUSSION**

ITC has proposed three (3) route alternatives for a 345 kilovolt (KV) overhead electric transmission line as shown on the enclosed map. The Hickory Creek-East Dubuque Route Alternative is ITC's preferred route. City staff had the following comments and concerns on potential impacts for each route alternative:

1. Hickory Creek-East Dubuque Route Alternative (blue line on map)
  - a. This route is near a planned water tower site on Roosevelt Street.
  - b. This route will affect the most wetland acres.
  - c. This route will affect residential properties (125 residences within 250 feet).

2. Lock and Dam No. 11 Route Alternative (green line on map)
  - a. Sutton Public Pool and Eagle Point Water Plant are within 200 feet and 250 feet of this route.
  - b. This route is near a planned water tower site on Roosevelt Street.
  - c. This route will affect the highest number of residential properties (133 residences within 250 feet).
  - d. This route will affect the highest number of woodland acres.
  - e. This route is the only one which includes areas that are not currently occupied by overhead transmission facilities.
  - f. This route will have obvious negative visual impacts on Eagle Point Park, one of the Midwest's most outstanding parks. Each year, the park hosts approximately 240,000 visitors and more than 1,200 events.
  
3. Salem-East Dubuque Route Alternative (yellow line on map)
  - a. The National Mississippi River Museum and Aquarium is within 200 feet and 250 feet of this route.
  - b. This route will affect the highest number of communication facilities.
  - c. This route will affect the highest number of commercial properties.
  - d. This route includes the highest number of streams and waterways crossed.
  - e. This route will affect residential properties (18 residences within 250 feet).

### **RECOMMENDATION**

Based on the minimum 250-foot distance between transmission lines and buildings in City Code Section 11-6-7 and on the identified impacts described above, City staff recommends that the City Council adopt the enclosed resolution which states that the filing of a petition by ITC and a formal public hearing process would not be in the public interest.

### **REQUESTED ACTION**

The requested action is for the City Council to concur with the staff recommendation and adopt the resolution.

Enclosures

Prepared by Nate Kieffer and Laura Carstens

cc: Barry Lindahl, City Attorney  
Steve Brown, Project Manager  
Nate Kieffer, Land Surveyor, PLS

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City Manager's Office  
City Hall  
50 West 13<sup>th</sup> Street  
Dubuque, Iowa 52001-4864  
(563) 589-4110 office  
(563) 589-4149 fax  
ctymgr@cityofdubuque.org

April 20, 2016

Ms. Angela Jordan  
Area Manager, Local Gov't & community Affairs  
ITC Midwest  
123 5<sup>th</sup> Street SE  
Cedar Rapids, IA 52401

**RE: Cardinal-Hickory Creek Transmission Line Project**

Dear Ms. Jordan:

You have advised us of the proposed dates, times, and locations for the Cardinal-Hickory Creek Transmission Line Project open houses. The City does not intend to send a representative to these open houses. However, I would ask that you include in the record of those meetings the previous action of the City of Dubuque City Council in Resolution No. 215-15 adopted on June 15, 2015 in which the City Council concluded that "the filing of a petition by ITC for a license to erect, maintain and operate a facility within the city as proposed by ITC is not permissible and would not be permitted by the City Council, and that the filing of an application by ITC and proceeding with the process required by the City of Dubuque Code of Ordinances for such a license would not be in the public interest."

A copy of Resolution No. 215-15 is attached.

Sincerely,

Michael C. Van Milligen  
City Manager

MVCM:tlis  
Enclosure

cc: Barry A. Lindahl, City Attorney  
Gus Psihoyos, City Engineer





Rural Development

Rural Utilities Service

1400 Independence  
Ave SW, Room 2242  
Stop 1571  
Washington, DC  
20250

Voice 202.720.1649  
Fax 202.690.0849

Re: Invitation to All-Agency Meeting  
Cardinal-Hickory Creek Transmission Project

Dear Agency:

SUBJECT: Cardinal-Hickory Creek 345 kV Transmission Line Project

Dairyland Power Cooperative (Dairyland), the American Transmission Company LLC and ATC Management Inc. (together ATC), and ITC Midwest LLC (ITC) (collectively Utilities) are proposing a high-voltage transmission line connecting northeastern Iowa to southwestern and south central Wisconsin (Project). Dairyland plans to request financial assistance from the U.S. Department of Agriculture's Rural Utilities Service (RUS) to fund Dairyland's anticipated 9% ownership interest in the Project.

Prior to making a decision about whether to loan funds, RUS will conduct an environmental review under the National Environmental Policy Act (NEPA). RUS will conduct its review in accordance with the current RUS regulations outlined in 7 C.F.R. § 1970, et seq. RUS would like to be the lead agency for purposes of the federal NEPA review of this Project. 40 C.F.R. § 1501.5.

As the hopeful lead federal agency, the RUS is hosting an all-agency meeting to review the Project and we hope that your agency will participate. See 7 C.F.R. § 1970.11. The meeting will be held on May 17 from 10:00 - 12:00 at the Grand River Center, 500 Bell St. in Dubuque, Iowa.

For some background, the Cardinal-Hickory Creek Transmission Line Project includes the following facilities.

- A new 345 kV transmission line from a new Hickory Creek Substation in Dubuque County, Iowa, to a new substation near Montfort, Wisconsin; and
- A new 345 kV transmission line between the new substation near Montfort, Wisconsin, to the existing Cardinal Substation in the town of Middleton, Wisconsin.

USDA is an equal opportunity provider and employer.

If you wish to file a Civil Rights program complaint of discrimination, complete the USDA Program Discrimination Complaint Form, found online at [http://www.ascr.usda.gov/complaint\\_filing\\_cust.html](http://www.ascr.usda.gov/complaint_filing_cust.html), or at any USDA office, or call (866) 832-9992 to request the form. You may also write a letter containing all of the information requested in the form. Send your completed complaint form or letter to us by mail at U.S. Department of Agriculture, Director, Office of Adjudication, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, by fax (202) 690-7442 or email at [program.intake@usda.gov](mailto:program.intake@usda.gov).

The total length would be approximately 125 miles (see attached map).

RUS is also inviting to this all-agency meeting other federal and state agencies with jurisdiction to and/or interest in this Project, including: U.S. Fish and Wildlife; U.S. Army Corps of Engineers, Federal Aviation Administration, U.S. Coast Guard, U.S. National Park Service, U.S. Environmental Protection Agency, Federal Highway Administration, Advisory Council on Historic Properties; Iowa Utilities Board (IUB), Iowa Department of Natural Resources, Iowa Department of Transportation, Iowa State Historic Preservation Office, Public Service Commission of Wisconsin, Wisconsin Department of Natural Resources, Wisconsin Department of Agriculture Trade and Consumer Protection, Wisconsin State Historical Society and the Wisconsin Department of Transportation.

If you have any questions, please contact me at (202) 720-1953 or email me at [dennis.rankin@wdc.usda.gov](mailto:dennis.rankin@wdc.usda.gov).

Dennis Rankin  
Environmental Protection Specialist  
RUS

Attachment

**APPENDIX I - LIST OF PUBLIC OFFICIAL OUTREACH**

<b>Table I-1: List of Outreach to Public Officials</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
<b>2014</b>			
9/9/14	Town of Berry: Tony Varda ATC: Jon Callaway and Meyer Consulting: Mark Meyer	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/10/14	City of Lancaster: Jerry Wehrle ATC: Jon Callaway and ITC: Angela Jordan	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/12/14	Town of Brigham: Doug Reeson ATC: Jon Callaway	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/15/14	Town of Cassville: Doug Schauff ATC: Jon Callaway and ITC: Angela Jordan	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/15/14	Town of Ellenboro: Jim Broihahn ITC: Angela Jordan	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/16/14	Town of Jamestown: Faber Runde ITC: Angela Jordan	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/16/14	Town of South Lancaster: Gary Schneider ITC: Angela Jordan	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/17/14	Town of Vermont: Barb Grenlie ATC: Jon Callaway	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/17/14	Village of Mt. Horeb: David Becker ATC: Jon Callaway	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/17/14	Iowa County Board: John Meyers ATC: Jon Callaway	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/17/14	Town of Belmont: Brad Schobert ATC: Jon Callaway	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/17/14	Town of Mifflin: Mark Pinch Meyer Consulting: Mark Meyer	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/17/14	Village of Cobb: Bob Roelli Meyer Consulting: Mark Meyer	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/18/14	Village of Cassville: Keevin Williams ATC: Jon Callaway and ITC: Angela Jordan	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations

<b>Table I-1: List of Outreach to Public Officials</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
9/18/14	Village of Blue Mounds: Audra Anderson Meyer Consulting: Mark Meyer	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/18/14	Town of Blue Mounds: Dennis Jelle Meyer Consulting: Mark Meyer	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/19/14	Town of Wingville: Kevin Bickford Meyer Consulting: Mark Meyer	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/19/14	Cross Plains Village Administrator Meyer Consulting: Mark Meyer	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/22/14	Town of Middleton: Sara Ludtke and Dave Shaw ATC: Jon Callaway	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/22/14	Village of Ridgeway: Jon Steen Meyer Consulting: Mark Meyer	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/26/14	Dane County: Joshua Wescott and Dave Merritt ATC: Jon Callaway	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/30/14	Grant County: Bob Keeney ITC: Angela Jordan	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
9/30/14	Town of Hazel Green: Donald Splinter ITC: Angela Jordan	Introduce project and discuss upcoming open houses	Project fact sheet, study area map and open house dates/times/locations
<b>2016</b>			
4/12/16	Town of Lima: Pat Ostendorf ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Telephone call; no materials shared
4/14/16	Town of Middleton: Sara Ludtke and David Shaw ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/14/16	Town of Brigham: Jason Carden ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps

<b>Table I-1: List of Outreach to Public Officials</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
4/14/16	Iowa County Board: John Meyers ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/19/16	Town of Vermont: Barb Grenlie ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/19/16	Town of Springdale: Vickie Anderson ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/19/16	Town of Beetown: Tom Cartwright ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/19/16	Village of Cassville: Keevin Williams and Town of Cassville: Doug Schauff ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/20/16	Village of Montfort: Jim Schmitz ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/20/16	Town of Dodgeville: Curtis Peterson ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Telephone call; no materials shared
4/20/16	Grant County: Bob Keeney ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/20/16	Dubuque County: Wayne Demmer ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/21/16	Village of Rewey: Paul Simon ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Telephone call; no materials shared

<b>Table I-1: List of Outreach to Public Officials</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
4/21/16	Dane County: Joshua Wescott and Dave Merritt ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/22/16	Town of Belmont: Brad Schobert ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/22/16	City of Platteville: Karen Kurt and Howard Crowfoot ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/22/16	Lafayette County: Bill Moody ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Telephone call; no materials shared
4/22/16	Town of Ellenboro: Jim Broihahn ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/22/16	Town of South Lancaster: Gary Schneider ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/22/16	Town of Cross Plains: Greg Hyer Meyer Consulting: Mark Meyer	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/22/16	Village of Blue Mounds: Audra Anderson Meyer Consulting: Mark Meyer	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
Week of 4/25/2016	Staff of Wisconsin U.S. Senators and U.S. House of Representatives ATC, McGuireWoods Consulting LLC	Share materials and notify of upcoming open houses to share macro corridors with the public.	Project fact sheet, macro corridor map, open house dates/locations

<b>Table I-1: List of Outreach to Public Officials</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
4/25/16	WI State Assembly: Travis Tranel, Todd Novak, Dianne Hesselbein, Sondy Pope, Dave Considine WI State Senate: Howard Marklein, Jon Erpenbach ATC, Capitol Consultants, Inc.	Share materials and notify of upcoming open houses to share macro corridors with the public. This notification was in addition to an invitation to the open houses.	Project fact sheet, macro corridor map, open house dates/locations
4/25/16	City of Dodgeville: Todd Novak ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/25/16	Lancaster Mayor: David Varnam ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/25/16	Town of Mifflin: Mark Pinch Meyer Consulting: Mark Meyer	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
4/28/16	Town of Harrison: Nathan Niehaus ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Telephone call; no materials shared
4/29/16	Dubuque County: Daryl Klein ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Telephone call; no materials shared
5/3/16	Town of Waterloo: John Patcle ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
5/5/16	Town of Clifton: Steve Barth ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
5/5/16	Grant County Economic Development: Ron Brisbois ITC: Angela Jordan	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps



<b>Table I-1: List of Outreach to Public Officials</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
5/5/16	Town of Blue Mounds: Dennis Jelle Meyer Consulting: Mark Meyer	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
5/5/16	Village of Livingston: Christina Christianson Meyer Consulting: Mark Meyer	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
5/5/16	Town of Highland: Alan Kosharek Meyer Consulting: Mark Meyer	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
5/9/16	Village of Mt. Horeb: Nicholas Owen ATC: Jon Callaway	Introduce/update status of project and discuss upcoming open houses	Project fact sheet and open house dates/times/locations (copies left with attendees); shared but retained preliminary corridor maps
6/22/2016	U.S. Rep. Mark Pocan, ATC, McGuire Woods Consulting LLC	Share information about project, including Iowa County, WI.	Project fact sheets, newsletter, Iowa County macro corridor maps by municipality.
9/12/16	Town of Brigham: Jason Carden ATC: Jon Callaway	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/13/16	Town of Springdale: Vicki Anderson ATC: Jon Callaway	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/13/16	Town of Belmont: Brad Schobert ATC: Jon Callaway	Update on our revised preliminary corridors and federal RUS process	Phone call.  Materials hand-delivered to Brad on 9/15/16: Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/13/16	Town of Cassville: Doug Schauff ITC: Angela Jordan	Update on revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/13/16	Town of Clifton: Steve Barth ITC: Angela Jordan	Update on our revised preliminary corridors and federal RUS process	Telephone call; no materials shared

<b>Table I-1: List of Outreach to Public Officials</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
9/13/16	Town of Ellenboro: Jim Broihahn ITC: Angela Jordan	Update on our revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/13/16	Town of Harrison: Nathan Niehaus ITC: Angela Jordan	Update on revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/13/16	Town of Liberty: Pat Schroeder ITC: Angela Jordan	Update on revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/13/16	Town of Lima: Pat Ostendorf ITC: Angela Jordan	Update on our revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/13/16	Town of Potosi: Curtis Fetzek ITC: Angela Jordan	Update on our revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/13/16	Town of South Lancaster: Gary Schneider ITC: Angela Jordan	Update on revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/13/16	Town of Waterloo: John Patcle ITC: Angela Jordan	Update on revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/14/16	Village of Mt. Horeb: Nic Owens ATC: Jon Callaway	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/15/16	City of Platteville: Karen Kurt and Howard Crofoot ATC: Jon Callaway	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/15/16	Town of Middleton: Sara Ludtke ATC: Jon Callaway	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/16/16	Iowa County Board: John Meyers ATC: Jon Callaway	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/16/16	Town of Blue Mounds: Dennis Jelle Meyer Consulting: Mark Meyer	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/16/16	Village of Cassville: Keevin Williams ITC: Angela Jordan	Update on our revised preliminary corridors and federal RUS process	Telephone call; no materials shared

<b>Table I-1: List of Outreach to Public Officials</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
9/19/16	Dane County Executive Office: Dave Merritt ATC: Jon Callaway	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/20/16	Town of Wyoming: John Hess Meyer Consulting: Mark Meyer	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/20/16	Town of Platteville: Tom Weigel ITC: Angela Jordan	Update on our revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/21/16	Village of Blue Mounds: Audra Anderson Meyer Consulting: Mark Meyer	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/21/16	Town of Beetown: Tom Cartwright ITC: Angela Jordan	Update on revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/21/16	Town of Elk Grove: Brad Kettler ITC: Angela	Update on our revised preliminary corridors and federal RUS process	Telephone call; no materials shared
9/22/16	Town of Highland: Allan Kosharek Meyer Consulting: Mark Meyer	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents
9/23/16	Town of Cross Plains: Greg Hyer Meyer Consulting: Mark Meyer	Update on our revised preliminary corridors and federal RUS process	Revised preliminary corridor map, still affected landowner letter, library list for MCS & AES documents

**APPENDIX J - REPORT ON 2014 OPEN HOUSES AND SUMMARY OF  
PUBLIC COMMENTS**



## Cardinal-Hickory Creek Round 1 (2014) Open House Meeting Report

The following report summarizes the results of the first round of open house meetings for the Cardinal-Hickory Creek Project (“Project”). Four meetings were held over one week: October 6, 7, 8, and 9, 2014. Each open house was held from 4 to 7 p.m.

### 3. October 2014 Open House Summary

American Transmission Co. and ITC Midwest, LLC (“Utilities”)<sup>18</sup> announced plans and conducted public outreach in Wisconsin for a high-voltage transmission line connecting northeast Iowa and southwestern/south central Wisconsin that would provide economic savings, support renewable energy policy and improve electric system reliability. An initial study area from Dubuque County, Iowa, to Dane County, Wisconsin, was identified for the approximately 125-mile, 345-kilovolt line. The western end point of the line will be the Hickory Creek Substation in Dubuque County, Iowa. The eastern end point of the line will be the Cardinal Substation in the Town of Middleton, Wisconsin.

### 4. Project Parameters and Universe Selection

The Round 1 open houses were only held in Wisconsin; Iowa law limits the time period during which utilities can contact landowners who are potentially affected by a proposed project. For the Round 1 open houses, a study area of sufficient size in Wisconsin was created to encompass numerous potential corridors for future evaluation. This initial Wisconsin study area included parts of four Wisconsin counties (specifically, Dane, Iowa, Lafayette and Grant).

Beginning in late summer 2014, members of the Utilities’ local relations, community outreach, government affairs and customer relations teams began meeting with distribution utilities and electric cooperatives and a subset of the more than 580 federal, state, county and municipal officials and staff having jurisdiction within the initial Wisconsin study area (“Public Officials”).

Land records information also was acquired from the four Wisconsin counties in 2014. As each of these counties maintain their data in closed systems and have different database schema (structures for maintaining their information), significant effort was required to standardize, scrub and enhance landowner parcel data into a format which would work for Round 1 outreach activities as well as be compatible with internal stakeholder-relationship tracking software.

In addition, a list of Potentially Affected Interest (“PAIs”) was created in an effort to reach out to community leaders and other parties who may be interested in the Project. The PAI list included, but was not limited to:

- Any party who expressed an interest in the Project;
- The following groups located within the Initial Wisconsin Study Area: ATV groups, Audubon societies, civic groups, economic development and regional development authorities, environmental groups, hunting and fishing organizations, lake associations, land conservation departments, regional

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<sup>18</sup> In 2015, Dairyland Power Cooperative joined ATC and ITC as one of the Utilities. Accordingly, Dairyland was not involved with the 2014 open houses.

planning commission staff, snowmobile groups, trails groups, and chambers of commerce.

Notice for Round 1 of the open houses was provided to the following:

- Landowners within 1 mile of potential corridors that fell under Wisconsin Siting Priorities Law, namely existing utility corridors, existing highway and railroad corridors, and recreational trails (“Potentially Affected Landowners”);
- Public Officials within 1 mile of potential corridors that fell under Wisconsin Siting Priorities Law (“Potentially Affected Public Officials”); and
- PAIs.

(collectively “Invitees”). Invitations were ultimately sent to 23,474 parties (“Universe”).

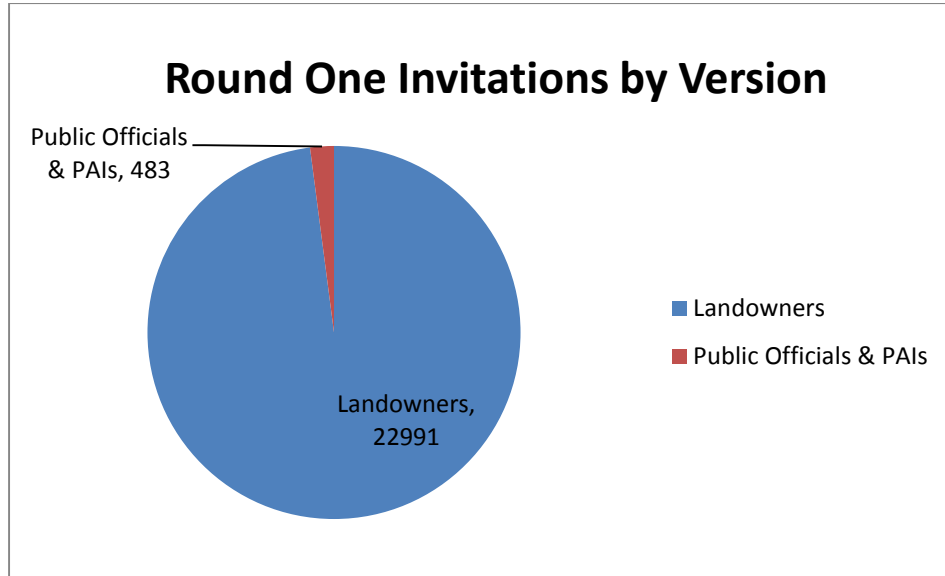
### **Open House Invitations**

Records were segmented into four different groups based on landowner proximity to an open house location. Mailings were sent two weeks in advance in an attempt to provide Invitees with a timely invitation based on the meeting they were most likely to attend. Open house invitations began to land in mailboxes around September 22, 2014. While a particular meeting was highlighted on the invitation letter, landowners were invited to attend any of the four open houses. An overview map displayed all open house locations and was included in each invitation packet.

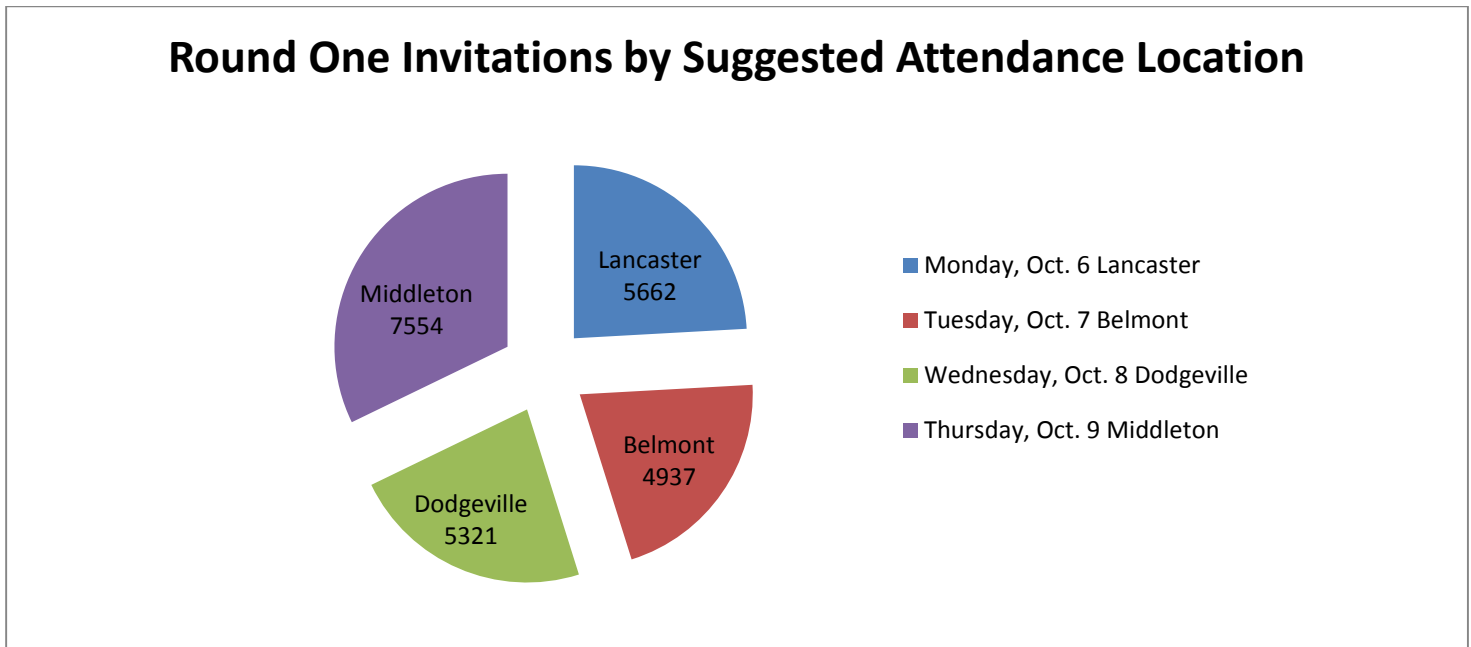
Each of the 23,474 Invitees received a mail packet that included the following:

- Invitation letter (two versions) with signature of both Jon Callaway (ATC) and Angela Jordan (ITC). This letter appeared on page 1 of a quarter fold 11x17” document.
- 11” x 17” color project overview map with meeting locations and times. This map appeared on the inside (pages 2 & 3) of the quarter fold 11x17” document.
- Postage-paid self-mailer comment form for written comments

Following is a graph displaying the number of Potentially Affected Landowners, Potentially Affected Public Officials and PAIs invited to Round 1 open houses:



Following is a breakdown of the specific meeting invitation locations that were suggested in the text of the letters:



## Parcel-Patron Newsletter Mailing

A geographically wide-scale effort was made to reach out to all businesses and residents with a physical mailing address within the initial Wisconsin study area. For Round 1, 114 postal carrier routes were selected among the 36 5-digit zip codes that intersected the initial study area. A newsletter was sent to the “Current Resident” of both business and residential addresses. While this type of outreach does provide information to those individuals who may be in the vicinity of a potential transmission line corridor, it would not include those parcel owners who may own property within but live outside the study area. In total, 39,270 newsletters (2,741 to businesses addresses and 36,529 to residential addresses) were mailed and delivered prior to October 2014 open houses.

## Paid Phone Project

The Shop Consulting coordinated an automated phone program to remind Invitees to the upcoming open houses and gauge potential meeting attendance.

Wisconsin law forbids automated calls to be made to cell phones. Therefore, phone numbers with cell phone prefixes were removed from the system prior to calls being made. The total call universe consisted of 13,467 unique non-cellular telephone numbers. Automated calls were specific to the suggested meeting location from the invite but offered respondents the opportunity to indicate if they planned to attend a different location (and which specific location).

## Meeting Attendance

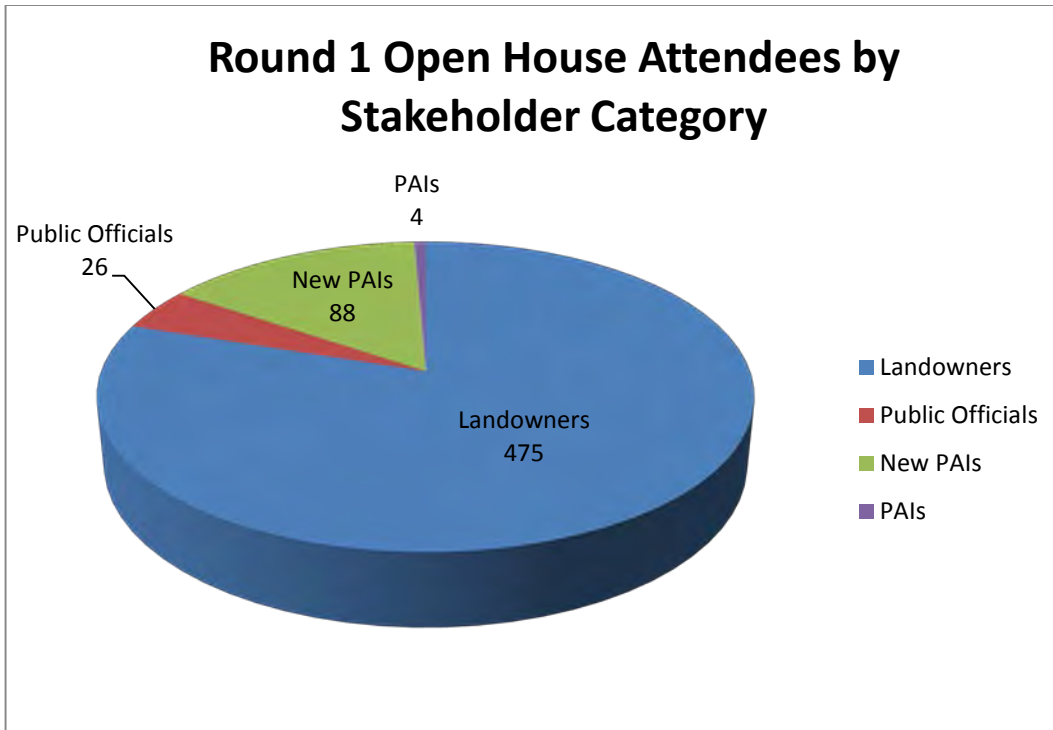
More than 640 individuals from nearly 500 households registered and attended a Round 1 open house. This count includes the numbers itemized later in this report as well as individuals who may have attended multiple meetings over multiple days and those who did not register at an open house. Additionally, a nominal number of individuals attended open houses without registering and are not included in attendance totals.

The following chart breaks down meeting attendance by Potentially Affected Landowner, Potentially Affected Public Official, PAI and New PAI, which refers to those individuals who are not Potentially Affected Landowners, Potentially Affected Public Officials or the initially included PAIs<sup>19</sup>:

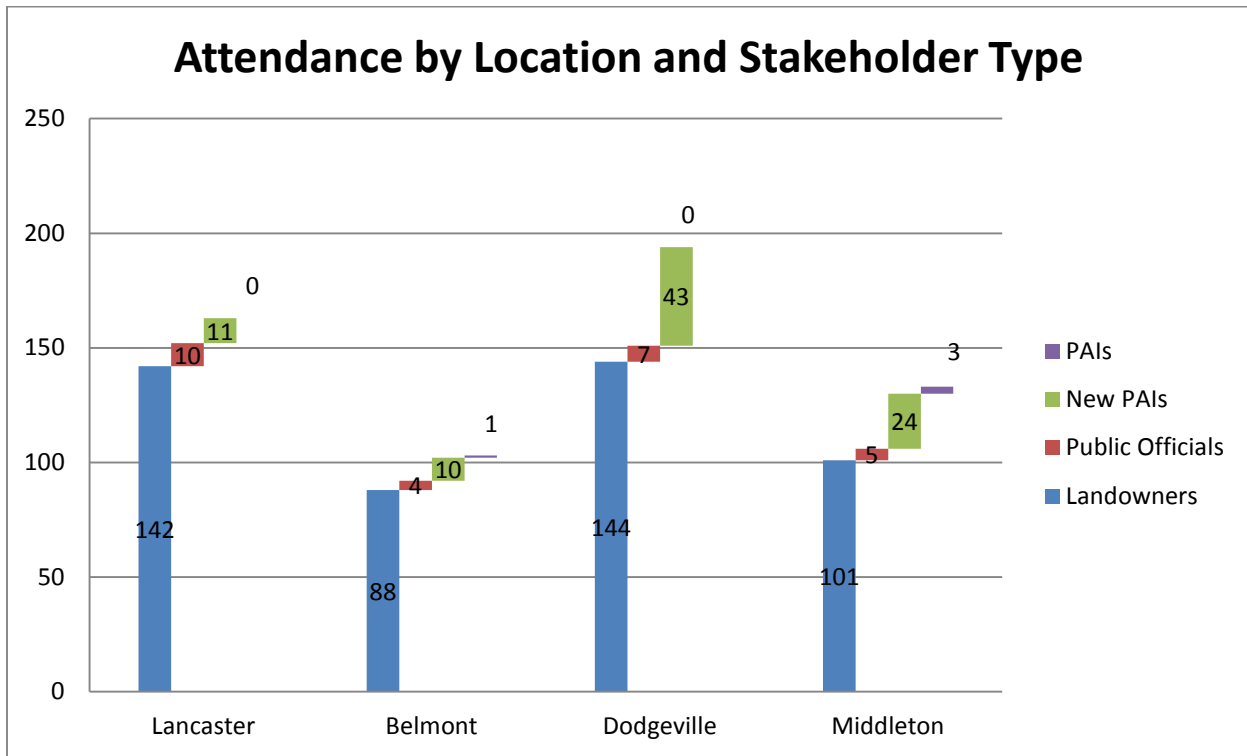
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<sup>19</sup> These are individuals for whom we had no previous record, but who attended and registered at one of the open houses.





The following graph and chart displays meeting attendance by location and stakeholder type:



Location	Date	Individuals	Households	Potentially Affected Landowners	Public Officials	New PAIs	PAIs
Lancaster	Monday, Oct. 6	163	130	142	10	11	0
Belmont	Tuesday, Oct. 7	103	85	88	4	10	1
Dodgeville	Wednesday, Oct. 8	194	158	144	7	43	0
Middleton	Thursday, Oct. 9	133	112	101	5	24	3
TOTAL		593	485	475	26	87	4

Exhibit A provides a map displaying individual attendance by municipality.

## Written Comments

A total of 174 written comments were received prior to November 11, 2014, which represents 0.74% of the Invitees. These 174 comments came from 161 households with four individuals submitting multiple comments. A total of 51 comments were submitted by those who attended an open house meeting (two of which were by anonymous attendees). It is likely that a large percentage of these comments were submitted at the meeting itself.

## Electronic Comments

This round of open houses provided stakeholders an opportunity to submit comments electronically via four laptop computers at each open house.

## Email Addresses

The Utilities have made a concerted effort to collect email addresses of Potentially Affected Landowners, Potentially Affected Public Officials, and PAIs. Upon initial collection of information, email addresses were included (when available) for Potentially Affected Public Officials and PAIs. Following are number and percentages of initial emails collected:

Stakeholder Type	Invitees	Email Address	Email Address %
Potentially Affected Public Official	347	236	68.01%
PAI	136	2	1.4%

After data became available to the Utilities, additional email addresses were added when available. Email addresses were collected at registration, which accounts for the majority of additions. Following are email address counts as of

November 12, 2014:

Stakeholder Type	Invitees	Email Address	Email Address%
Potentially Affected Public Official	347	241	69.45%
PAI	136	23	16.91%
New PAI	87	29	33.33%
Potentially Affected Landowner	22991	141	0.61%

As mentioned, most email addresses were likely collected during open house registrations. Following lists email addresses added to meeting attendees:

Stakeholder Type	Attendees (prev. no email)	Email Added	% Added
Potentially Affected Public Official	14	2	14.29%
PAI	4	2	50.00%
New PAI	87	22	25.29%
Potentially Affected Landowner	467	49	10.49%

### Public Official Attendance

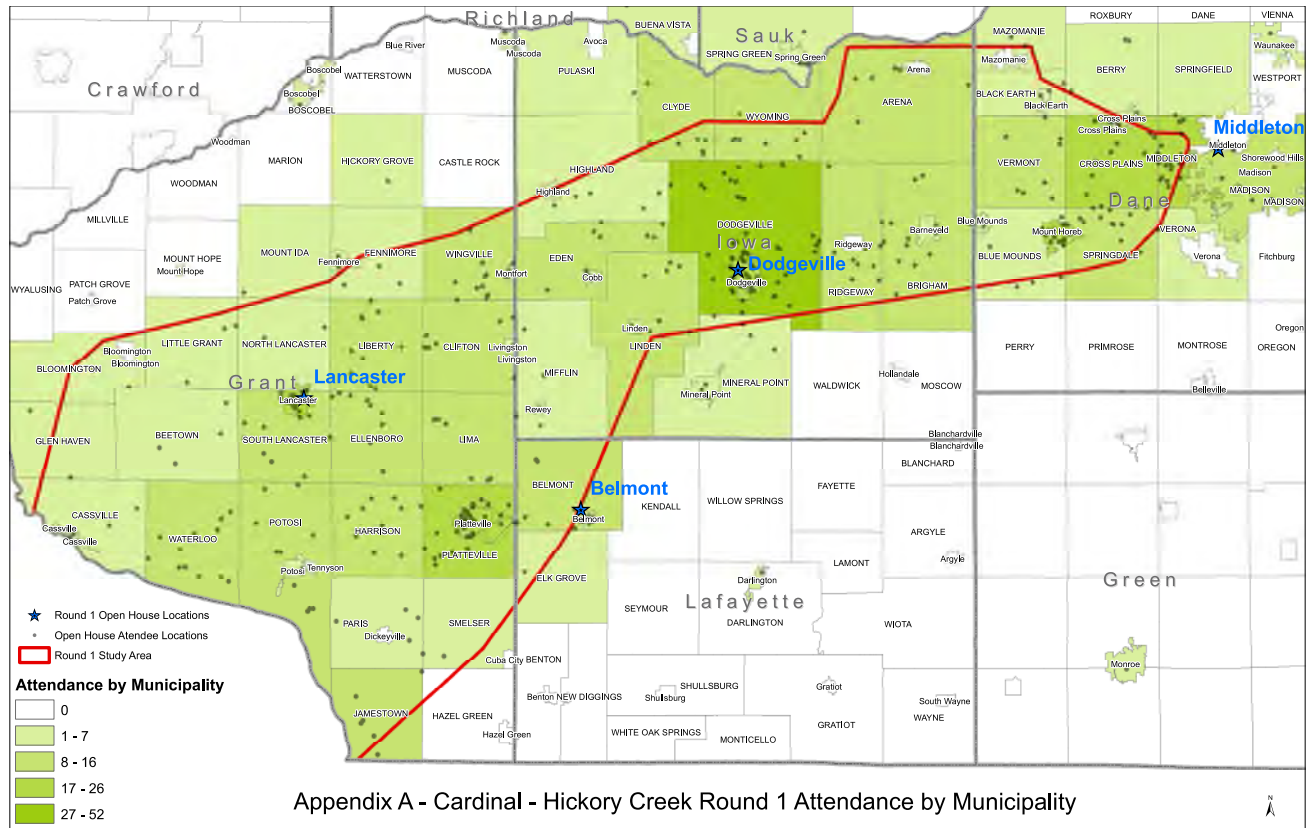
The following 26 Public Officials registered and were in attendance for a Round 1 meetings:

City	First Name	Last Name	Office
Lancaster	JERRY	AMES	Potosi Town Supervisor
Lancaster	ROBERT	KEENEY	Grant County Chairperson
Lancaster	DAVID	LAMBERT	Grant County Highway Commissioner
Lancaster	JAMES	LORY	Platteville Town Clerk
Lancaster	GRANT	LOY	Clifton Town Chairperson/Grant County Supervisor
Lancaster	ELAINE	MUMM	Little Grant Town Clerk
Lancaster	ROBERT	SCALLON	Grant County Supervisor
Lancaster	CHARLES	STENNER	Mayor - City of Fennimore
Lancaster	JERRY	WEHRLE	Mayor - City of Lancaster
Lancaster	JOHN	WEIGEL	Wingville Town Supervisor
Belmont	KEVIN	BICKFORD	Wingville Town Chairperson
Belmont	THOMAS	JEAN	Lafayette County Highway Commissioner
Belmont	DEAN	LIDDICOAT	Linden Town Chairperson
Belmont	BILL	MOODY	Lafayette County Supervisor/Belmont Village Trustee
Dodgeville	JERRY	DAVIS	Brigham Town Supervisor
Dodgeville	ARNOLD	FRITSCH	Cobb Village Trustee
Dodgeville	JOHN	HESS	Wyoming Town Chairperson
Dodgeville	GREGORY	LEE	Dodgeville City Public Works Director
Dodgeville	BRUCE	PAULL	Iowa County Supervisor
Dodgeville	ROGER	SCHAMBOW	Mifflin Town Supervisor

City	First Name	Last Name	Office
Dodgeville	TOM	SPICER	Clyde Town Treasurer
Middleton	JEFF	BAYLIS	Cross Plains Town Supervisor
Middleton	SARA	LUDTKE	Middleton Town Deputy Clerk/Public Works Coordinator
Middleton	DON	MCKAY	Vermont Town Supervisor
Middleton	DAVID	SHAW	Middleton Town Administrator/Clerk/Treasurer
Middleton	LARRY	ZIEMER	Vermont Town Supervisor

Exhibit A

Map displaying individual attendance by municipality



## **Cardinal-Hickory Creek Macro-Corridor Public Comment Summary**

*September 2014 through July 2015*

### **Overview**

This document contains a categorized summary of areas of interest and issues included in written, telephone, email and in-person comments from the Potentially Affected Landowners, Potentially Affected Public Officials, members of the public, and other stakeholders.

The timeframe for these comments is from September through August 2015. An Initial Study area was announced to the public in September 2014 and shared at October 2014 open houses in Wisconsin.

### **Agricultural**

Avoid prime farmland

Keep poles on outside edges of fields and along property lines instead of routing through the middle of fields or crossing properties diagonally

Prefer monopoles over h-frames, which can be difficult to farm around and lose more land to farm

Understand concerns about low-flying planes conducting aerial spraying on farms and the ability for pilots to safely fly near overhead transmission lines

Concerned about stray voltage and potential negative health affects for livestock, dairy animals and decreased milk production

Give consideration to the many organic farms in the area

Want to know if farming community concerns will be heard and adequate compensation provided

### **Environmental**

Avoid environmentally sensitive lands, including: Black Earth Creek valley, Driftless area, Mississippi River, Pope Farm Conservancy

Like monopoles; says they reduce night migrant bird deaths

Give consideration to parks and nature preserves in the Town of Middleton

Avoid protected Lower Wisconsin State Riverway;

“The Lower Wisconsin State Riverway Board likely will oppose construction of a line that adversely impacts protection and preservation of the scenic beauty and natural values of the Riverway project. A portion of the proposed study area appears close to the Riverway. The board's regulatory authority is found in Chapter 30, Wisconsin Statutes. Permits from the board are required for new utility facilities, including transmission lines.

-Mark Cupp, Executive Director  
Lower Wisconsin State Riverway Board

Ice Age Trail Alliance is extremely concerned about the proposed transmission line: “The proposed Hickory Creek transmission line would have to cross the Ice Age National Scenic Trail in a highly scenic area and have a direct negative impact on the Trail. Furthermore, the Towns of Cross Plains and Berry have several properties on which County, State and Federal funds have been used to protect land for the Ice Age Trail.”

Avoid forested lands that provide wildlife habitat

Mississippi Valley Conservancy: “On behalf of our members, landowners, and Directors, thank you for your efforts to utilize renewable energy sources. We encourage ATC & ITC to minimize habitat loss and fragmentation with the proposed line by utilizing EXISTING utility and transportation corridors instead of creating new corridors.”

Avoid native prairies and savannas

Concerned about migrating birds near Mississippi River

Give consideration to properties in the Wisconsin Managed Forest Law program.

### **Historic/Archaeological/Cultural**

Avoid areas with Old Order Amish populations

### **Land Use**

Mines and sinkholes in Platteville area

Avoid platted residential developments and building lots

### **Living Near High-Voltage Transmission Lines (including Health and Safety)**

Concerned about potential adverse environmental effects on animals, plant life and humans from stray voltage and electric and magnetic fields

Address potential health hazards of compounding electromagnetic fields from additional high voltage lines with escalating exposure to cell phones, cell towers and Wi-Fi

Concerned about power lines and cancer and childhood leukemia

Concerned about noise from lines

Wonder if this will impact telephone/internet, radio, GPS reception

Believe microgrids are viable alternative to transmission



**Need/Benefits**

Requests made for an independent study of the need for this line, including alternatives to constructing this line

Request for independent cost-benefit analysis of this project, incorporating non-transmission alternatives

Preference for local/distributed generation, more investment in alternative sources of energy (wind/solar)

Energy use is decreasing thanks to conservation and alternative resources, believe there is no need for additional transmission grid improvements

Believe conservation and decentralized, local power like solar are far less expensive options

In favor of a more reliable electric grid

Appreciate need for dependable infrastructure

Hope this will reduce blackouts in the area

Line would just supply power to Chicago

**Public Outreach**

Want to see potential routes on maps

Wonder why they received mail asking for input even though they do not live along an existing corridor

Feel open house format is meant to “diffuse public opinion”

Staff was not able to provide a satisfactory level of information

Appreciate that we consult first and plan accordingly

Want documentation/specific studies to support stated benefits and need for project

Very friendly personnel at the informational meeting, nice layout, comfortable atmosphere

Employees were unable to explain why project is needed

Would prefer a formal presentation with photos

**Routing**

Want to know potential routes/how they might impact properties

Avoid densely populated residential areas

Follow the existing 18-151 corridor as much as possible to avoid impacts to farmers and homeowners

Use routes with existing transmission lines

Avoid Wyoming Valley

Follow existing corridors, such as roads and highways

Avoid routing near schools

Concerned about many lines at substation connection points

Stay as far away from homes as possible when siting lines

Route south of Black Earth, near existing transmission lines

Put lines in farmland areas instead of residential

### **Social/Economic/Property Values**

Avoid Ice Age Trail, a major tourist destination

Cassville area could use jobs with closing of Nelson Dewey plant

Supportive of project if it would create jobs

Think there should be annual payments rather than one-time easement payment

Want to know how this will impact electric bills

### **Viewshed/aesthetics**

Concerned about potential impacts to southwest Wisconsin landscape

Do not want to look at tall transmission poles and wires

Prefer darker metal poles

Want to maintain beauty of Driftless area

Avoid visual impacts to Military Ridge Bike Trail

**APPENDIX K - LIST OF UTILITY AND NON-GOVERNMENTAL  
ORGANIZATION OUTREACH**

<b>Table K-1: List of Utility and Non-Governmental Organization Outreach</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
<b>2013</b>			
10/10/2013	The Center for Rural Affairs, USFWS, Iowa Natural Heritage Foundation, Iowa Environmental Council, the Iowa Chapter of the Audubon Society, the Iowa Chapter of the Nature Conservancy, the Iowa Chapter of the Sierra Club, ITC Midwest	Overview of the MVP projects, including the Mississippi River crossing, with the environmental agencies in Des Moines, Iowa.	
<b>2014</b>			
6/10/2014	Iowa Environmental Council, ITC Midwest	Meeting to discuss potential Cassville crossings.	
10/3/14	Alliant Energy Mineral Pt District Operations staff	This was a standing Mineral Pt District Quarterly operations update meeting that I participate in. During these meetings I provide an update on activities & projects that ATC is involved in, both in the local area and system wide.	Macro corridor map with open house locations
10/16/2014	Scenic Rivers Energy Cooperative - Steve Lucas, CEO and Troy Dahl, Operations, Ben Stuart, ATC regional manager – customer relations, Keith Eyler, ITC stakeholder relations account representative	Discuss project and answer any questions they had.	Study area map
10/16/2014	Dan Van Natta – Superintendent at Belmont Municipal Light & Water, Kurt Hendrickson, ATC regional manager – customer relations, Keith Eyler, ITC stakeholder relations account representative	Discuss project and answer any questions they had.	Study area map

**Table K-1: List of Utility and Non-Governmental Organization Outreach**

<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
10/16/2014	David Herfel – Superintendent Mount Horeb Utilities, Kurt Hendrickson, ATC regional manager – customer relations, Keith Eyler, ITC stakeholder relations account representative	Discuss project and answer any questions they had.	Study area map
10/16/2014	Ralph Vernig – Superintendent Vanguard Electric (Black Earth & Mazomanie), Kurt Hendrickson, ATC regional manager – customer relations, Keith Eyler, ITC stakeholder relations account representative		
11/5/2014	Iowa Environmental Council, ITC Midwest	Update on Mississippi River crossing alternatives.	
<b>2015</b>			
6/23/2015	Center for Rural Affairs in Iowa, ITC Midwest	Meeting to introduce ITC Midwest, explain the process and steps taken on the Project.	
9/10/15	National Park Service – Pam Schuler, Manager Ice Age National Scenic Trail	Meeting to introduce the project.	Study area map
Week of 10/19/15	Distribution cooperatives: Jo-Carroll Energy Allamakee-Clayton Electric Richland Energy Scenic Rivers Energy	Email offer presentation on DPC ownership of the Cardinal – Hickory Creek Project	Study Area Map ATC web site

<b>Table K-1: List of Utility and Non-Governmental Organization Outreach</b>			
<b>Date</b>	<b>Attendees</b>	<b>Purpose of Meeting</b>	<b>Material(s) shared</b>
12/1/15	All member distribution coops and employees	Newsletter on Cardinal-Hickory Creek Project	Map and project description
<b>2016</b>			
Week of 4/18/16	Distribution cooperatives: Jo-Carroll Energy Allamakee-Clayton Electric Richland Energy Scenic Rivers Energy	Email informing area coops of the upcoming public meetings for the Cardinal – Hickory Creek Project	Public notice and maps
4/21/16	Scenic Rivers Energy Cooperative – Steve Lucas, CEO	Phone update	Macro-corridor map and open house schedule
4/26/16	All member distribution coops and employees	Newsletter on Cardinal-Hickory Creek Project	Map and project description
6/2016	All member distribution coops and employees	Description of the Cardinal-Hickory Creek Project in DPC’s Annual Report	Map and project description
6/8/2016	DPC’s annual Meeting	Barb Nick’s (CEO) presentation to approximately 600 delegates with update on DPC’s involvement in the project.	
5/10/2016	Center for Rural Affairs, Environmental Law & Policy Center, Iowa Environmental Council, RENEW Wisconsin, Wind on the Wires, ATC, Dairyland, ITC	Stakeholder meeting to discuss project updates and open houses.	Project fact sheets, macro corridor maps
5/15/16	National Park Service – Pam Schuler, Manager Ice Age National Scenic Trail, ATC	Meeting to show preliminary corridors and general project discussion.	Preliminary corridor map with open house locations

**APPENDIX L - SUMMARY OF PUBLIC INFORMATIONAL MATERIALS**

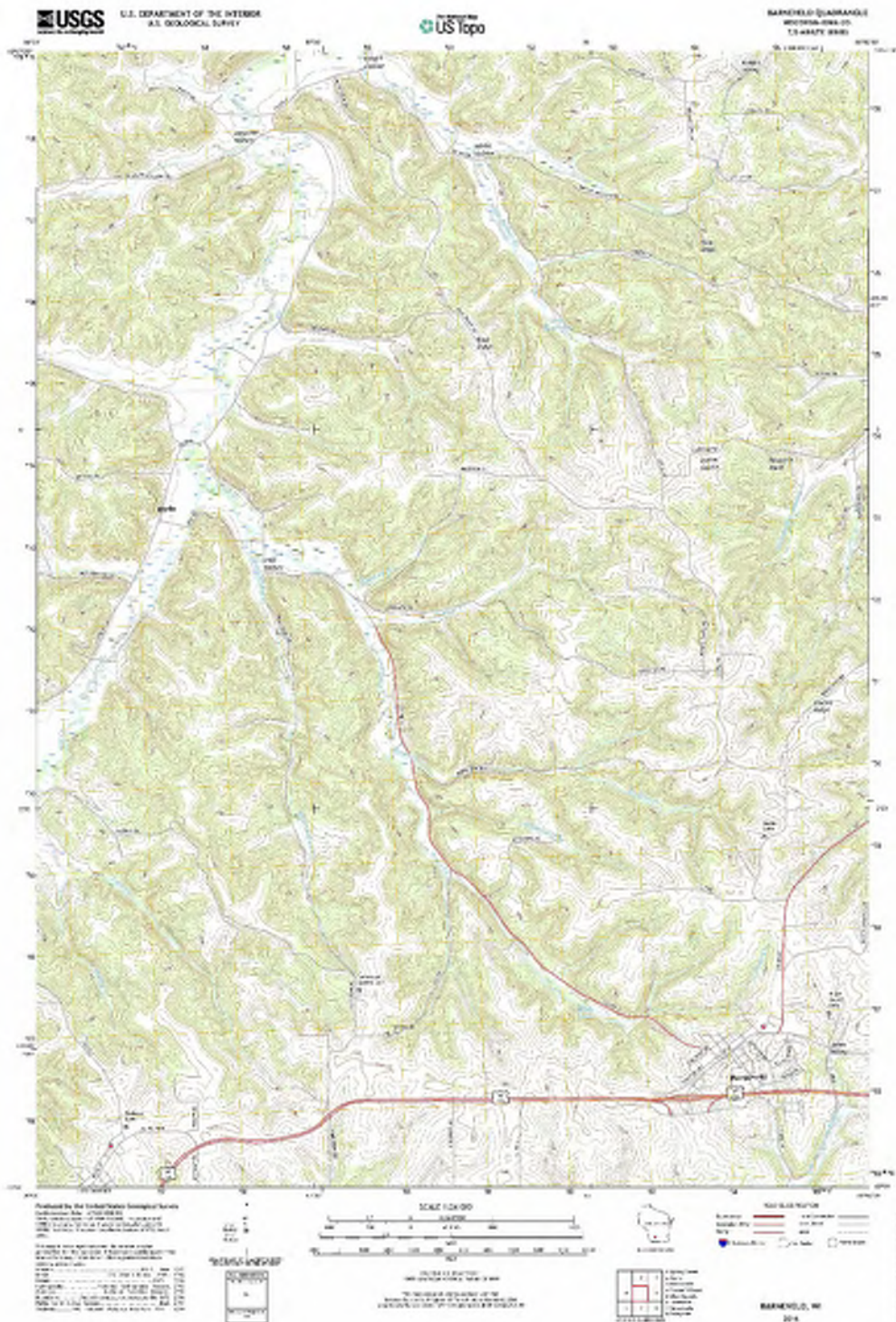
<b>Ongoing public outreach materials</b>	
Project website	www.cardinal-hickorycreek.com
Project fact sheet	<ul style="list-style-type: none"> <li>• September 2014– Project fact sheet</li> <li>• April 2016 – Updated project fact sheet</li> </ul>
Maps	<ul style="list-style-type: none"> <li>• September 2014 - Study area map and Wisconsin study area maps by county</li> <li>• April - 2016 – macro-corridor maps, Iowa macro-corridor map and Wisconsin macro-corridor maps by county (at the time they were called “preliminary corridors”)</li> </ul>

<b>Public outreach by year</b>	
<b>2014</b>	
September	News release announcing project
September	Open house invitations and postage-paid comment forms
September	Newsletter announcing project
October	Open house meetings were held on October 6 to 9, 2014, in the communities of Lancaster, Belmont, Dodgeville, and Middleton, Wisconsin.
November	Follow-up postcards with Project and contact information for public inquiries
Subject-matter fact sheets distributed at 2014 Wisconsin open houses	<ul style="list-style-type: none"> <li>• Electric and magnetic fields (EMF)</li> <li>• How transmission works</li> <li>• Routing and siting process</li> <li>• Stray Voltage</li> <li>• Working with Wisconsin landowners (easement negotiation process)</li> </ul>
<b>2015</b>	
December	Postcard sent to 2014 invitees/public officials notifying them of plans to hold open houses in 2016
<b>2016</b>	
April	News release announcing open houses
April	Open house invitations and postage-paid comment forms
Late April/Early May	Newsletter (postal patron) announcing preliminary corridors
May	Open houses were held May 16-19, 2016, in the communities of Platteville, and Barneveld, Wisconsin, as well as Peosta, Iowa.
July	Follow-up postcards with timeline, Project and contact information for public inquiries.
Subject-matter fact sheets distributed at 2016 open houses	<ul style="list-style-type: none"> <li>• Electric and magnetic fields (EMF)</li> <li>• Federal and state regulatory review</li> <li>• How transmission works</li> <li>• Iowa-specific open house overview</li> <li>• Routing and siting process</li> <li>• Stray voltage</li> <li>• Working with Wisconsin landowners (easement negotiation process)</li> </ul>
September	<ul style="list-style-type: none"> <li>• Mailings sent to potentially affected, new potentially affected and no longer affected property owners noting alternative corridors</li> </ul>
September	<ul style="list-style-type: none"> <li>• News release announcing alternative corridors</li> </ul>

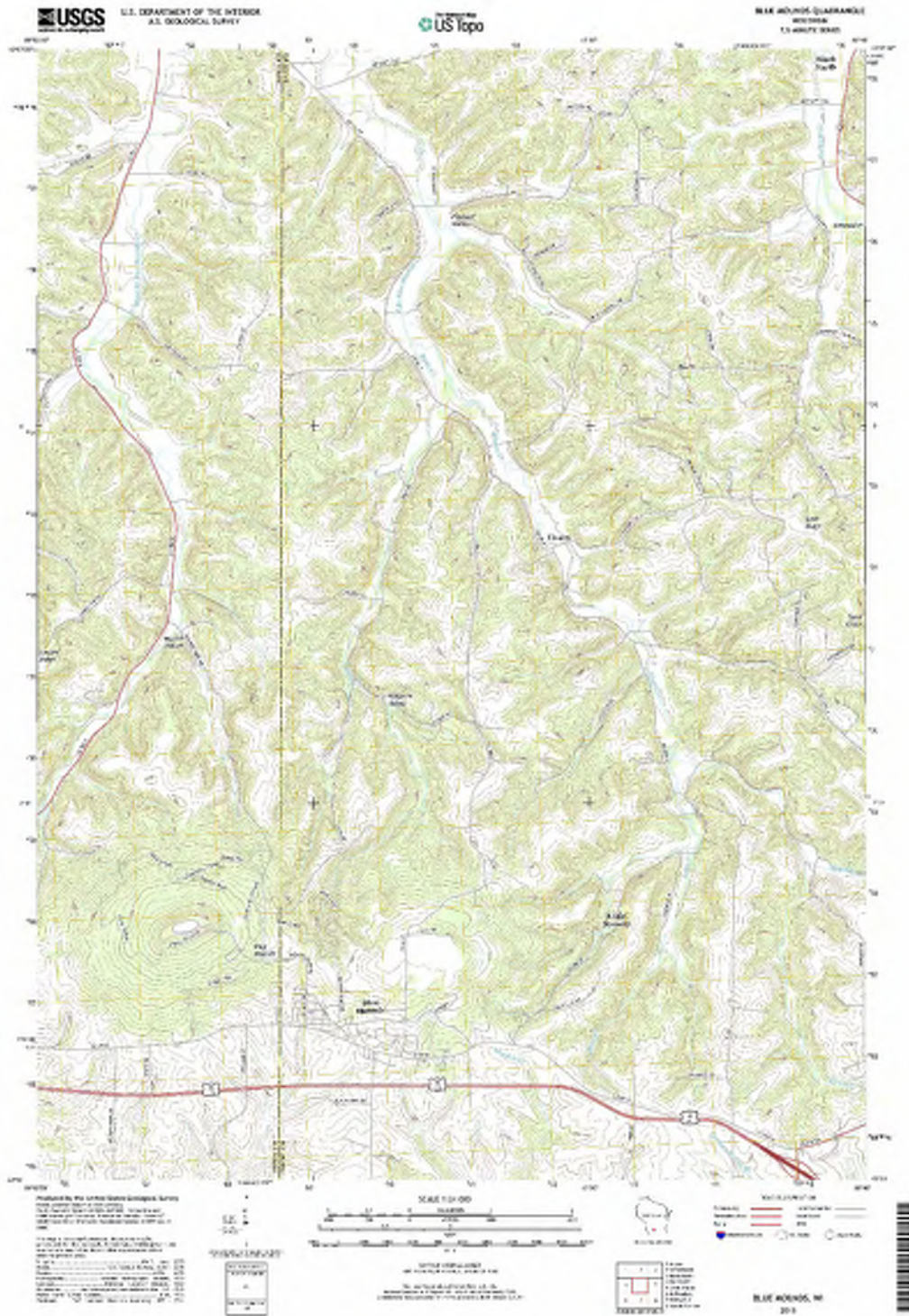


**APPENDIX M - USGS 7-1/2' TOPOGRAPHIC QUADRANGLE MAPS FOR THE  
ALTERNATIVE CORRIDORS IN THE CARDINAL TO  
MONTFORT SITING AREA**

### Barneveld Quad 2016



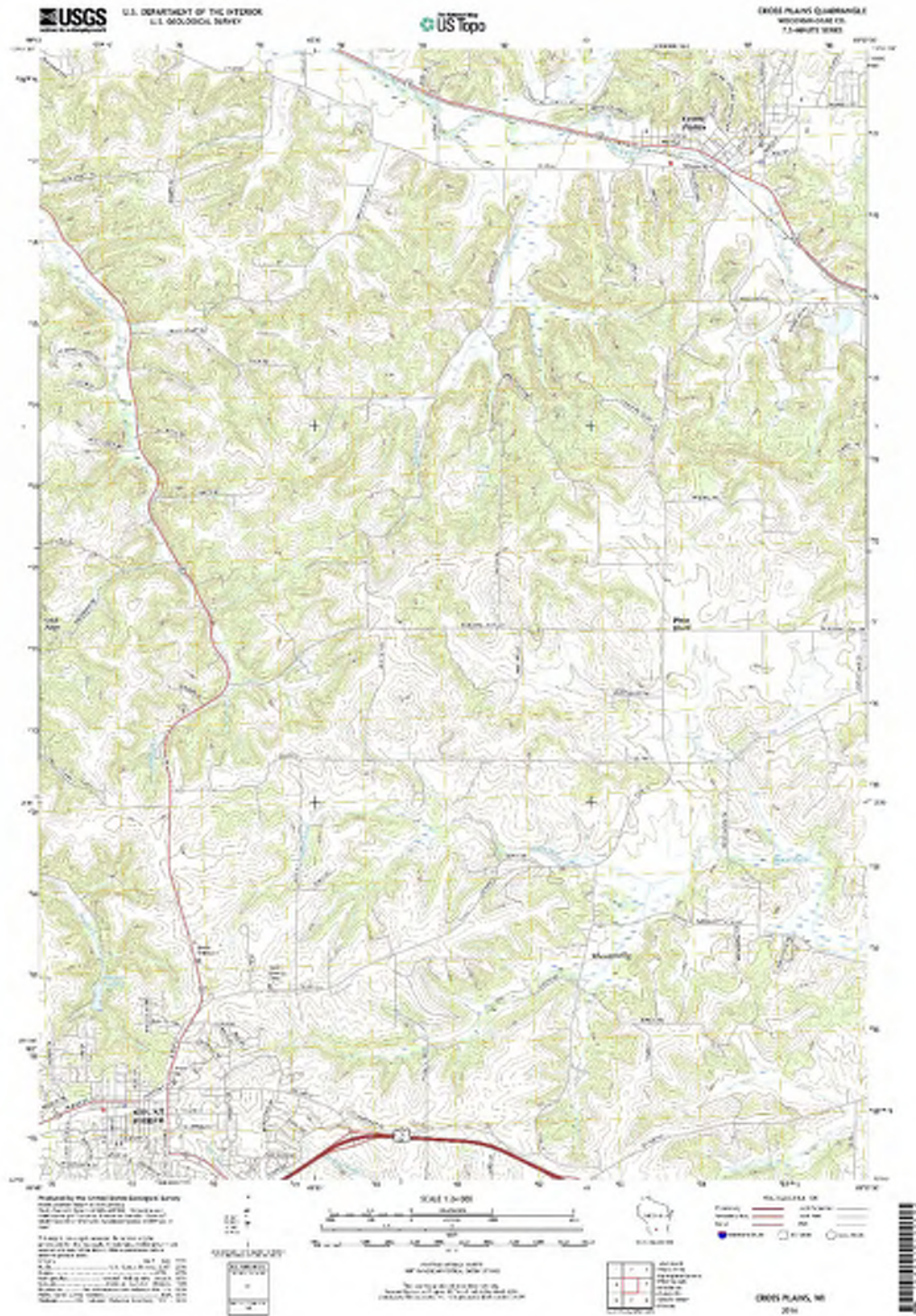
### Blue Mounds Quad 2015



### Clyde Quad 2015



### Cross Plains Quad 2016



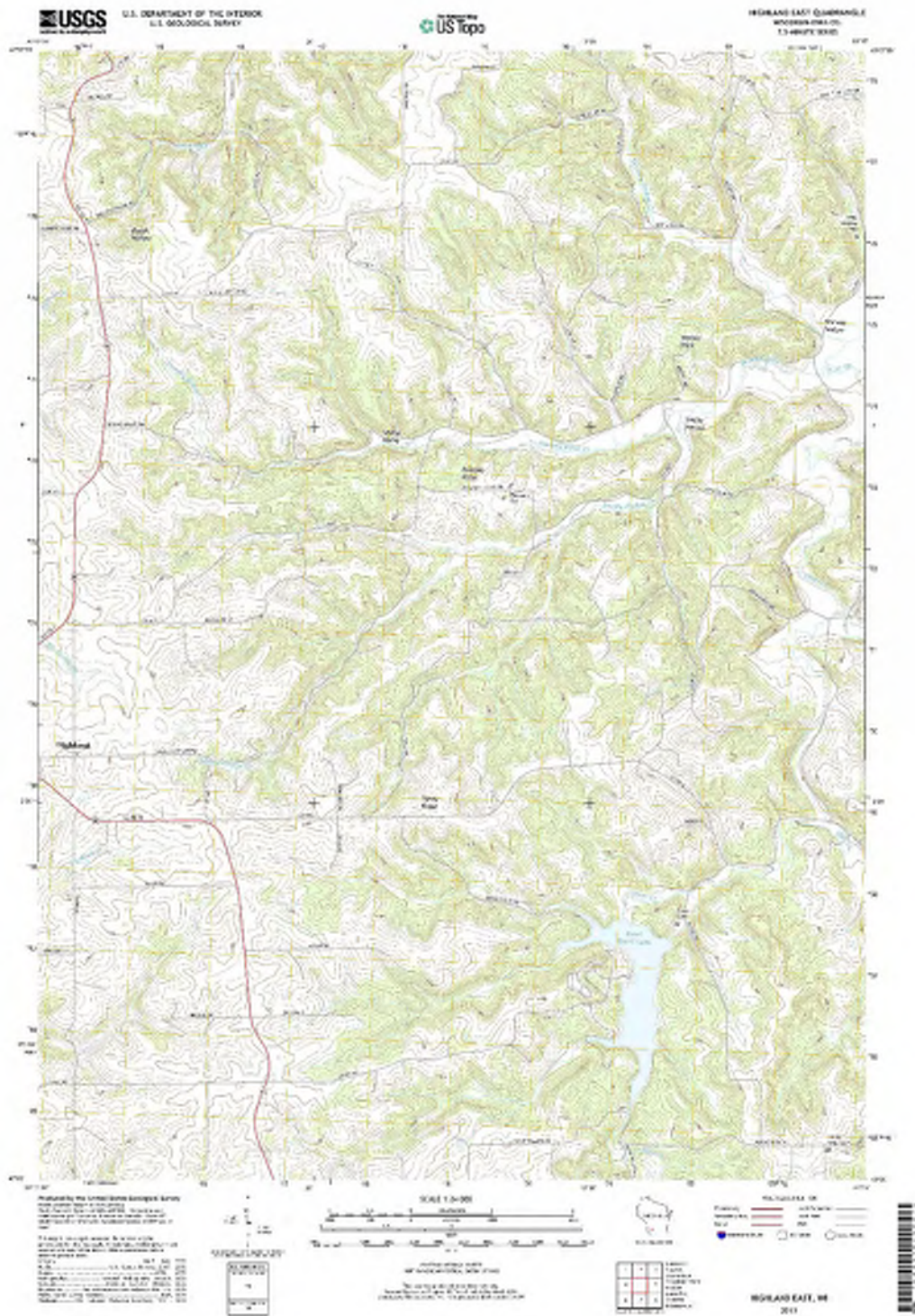
### Daleyville Quad 2016



### Dodgeville Quad 2016



### Highland East Quad 2015





### Hollandale Quad 2016



### Jonesdale Quad 2016



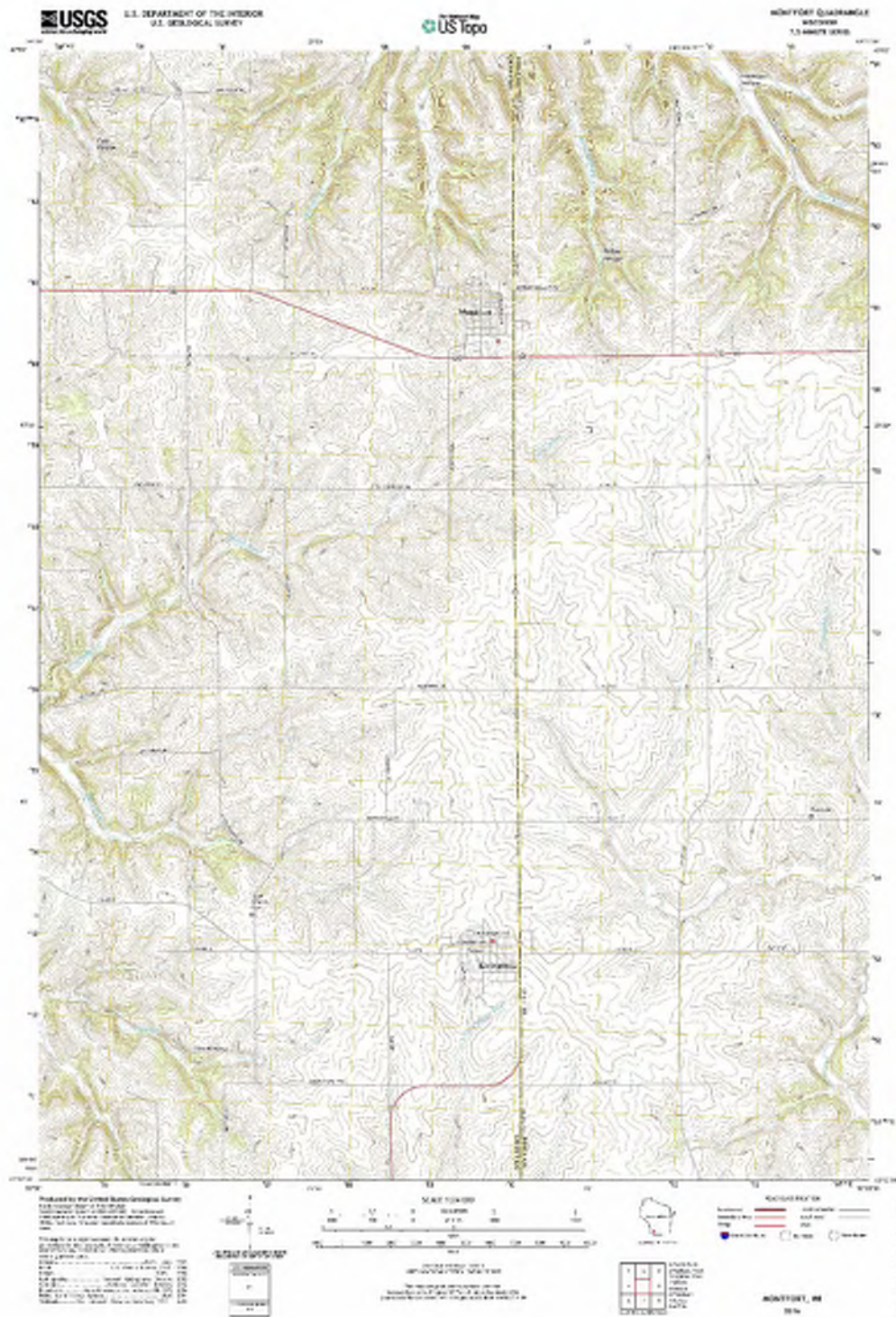
# Linden Quad 2016



### Middleton Quad 2016



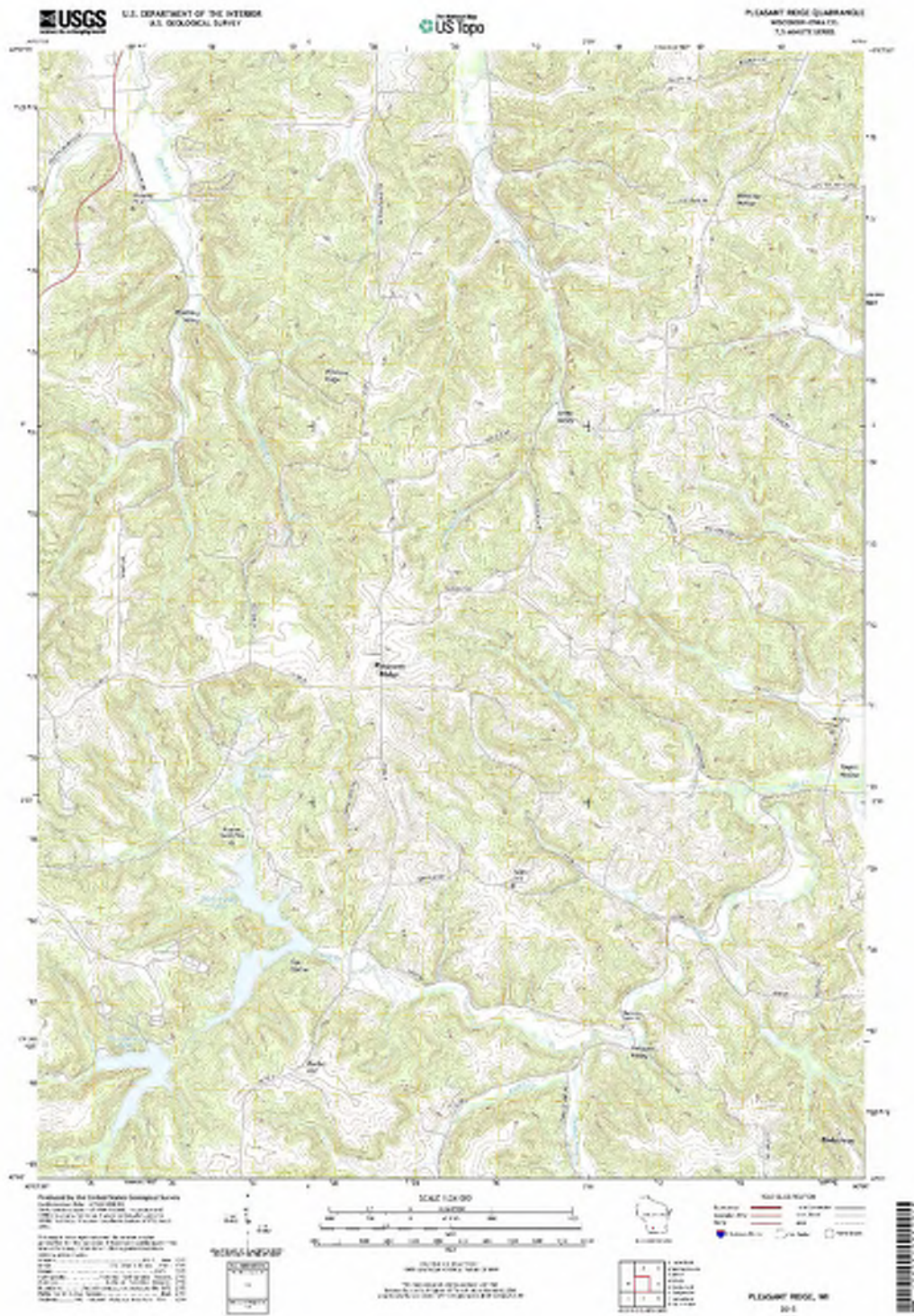
### Montfort Quad 2016



### Mount Vernon Quad 2016



### Pleasant Ridge Quad 2015



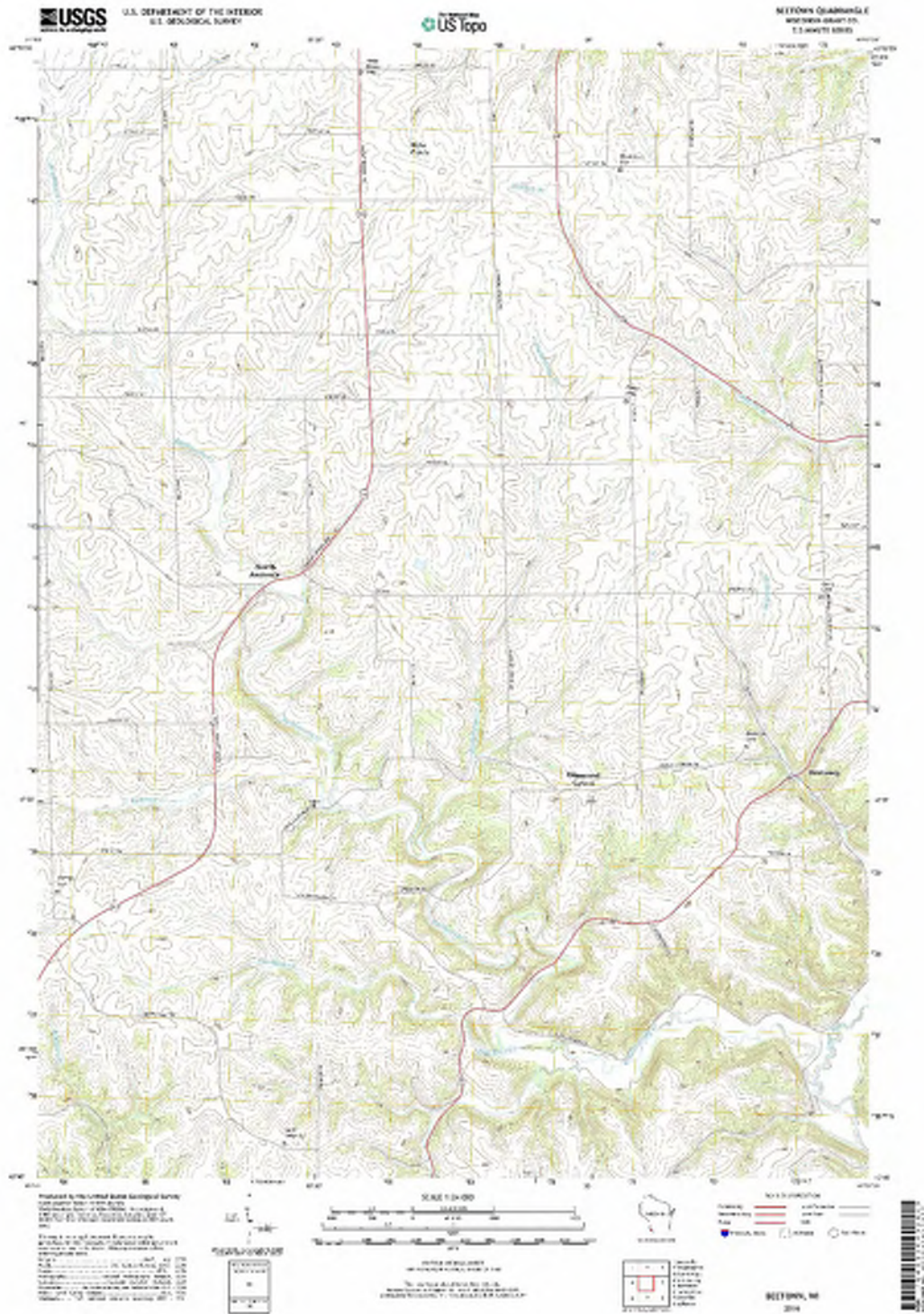
**APPENDIX N - USGS 7-1/2' TOPOGRAPHIC QUADRANGLE MAPS FOR THE  
ALTERNATIVE CORRIDORS IN THE MONTFORT TO  
MISSISSIPPI RIVER SITING AREA**



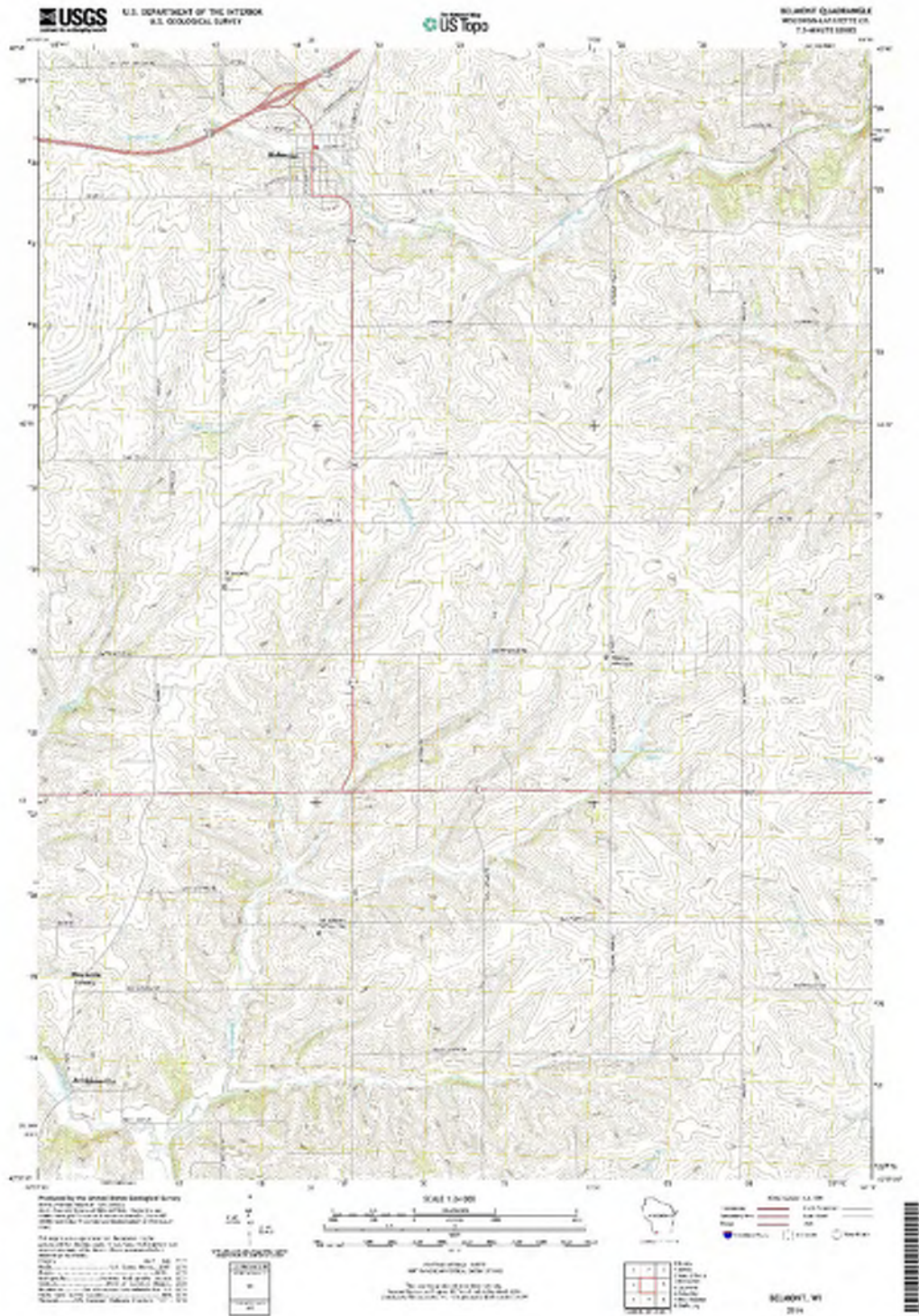
### Balltown Quad 2015



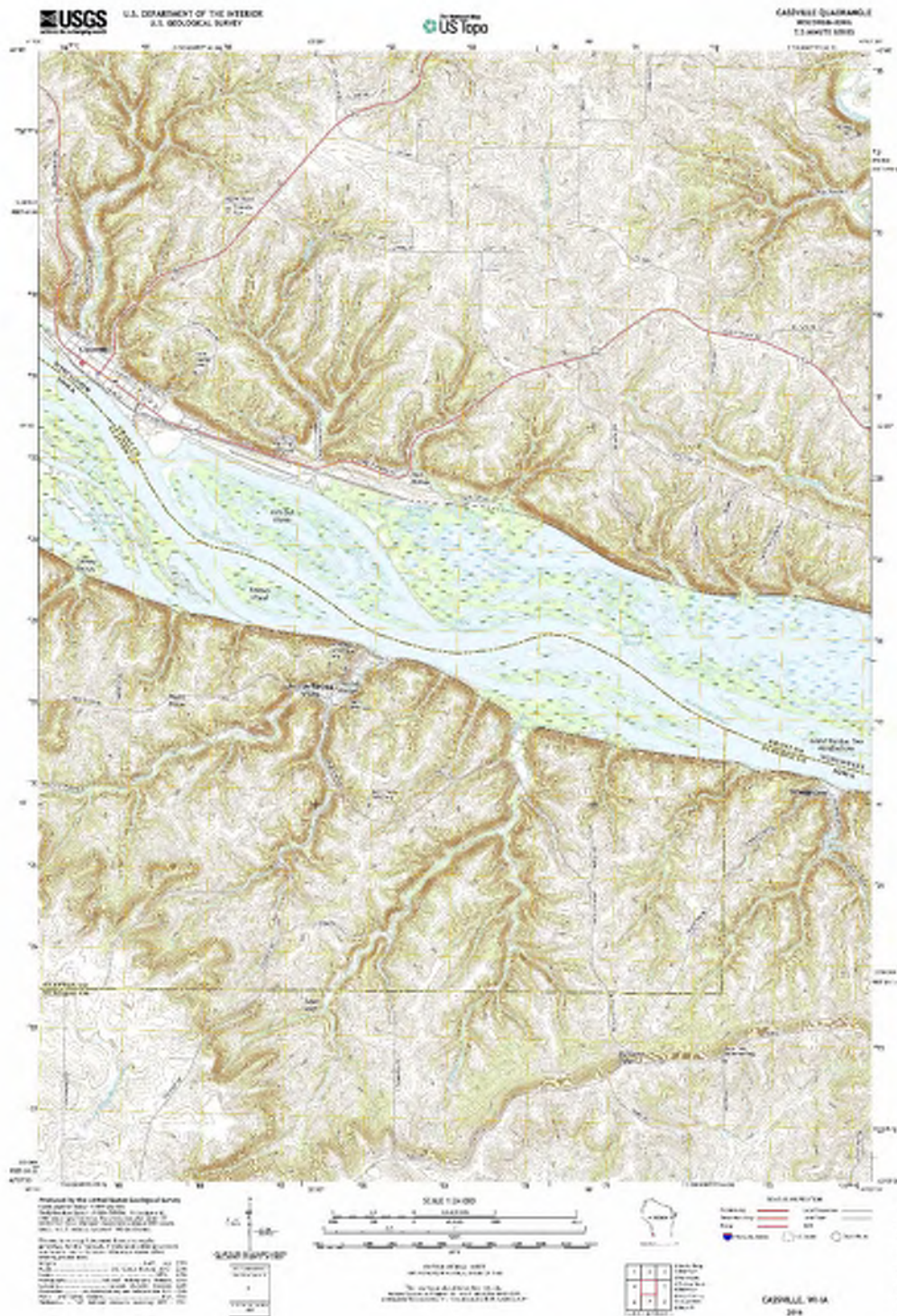
### Beetown Quad 2016



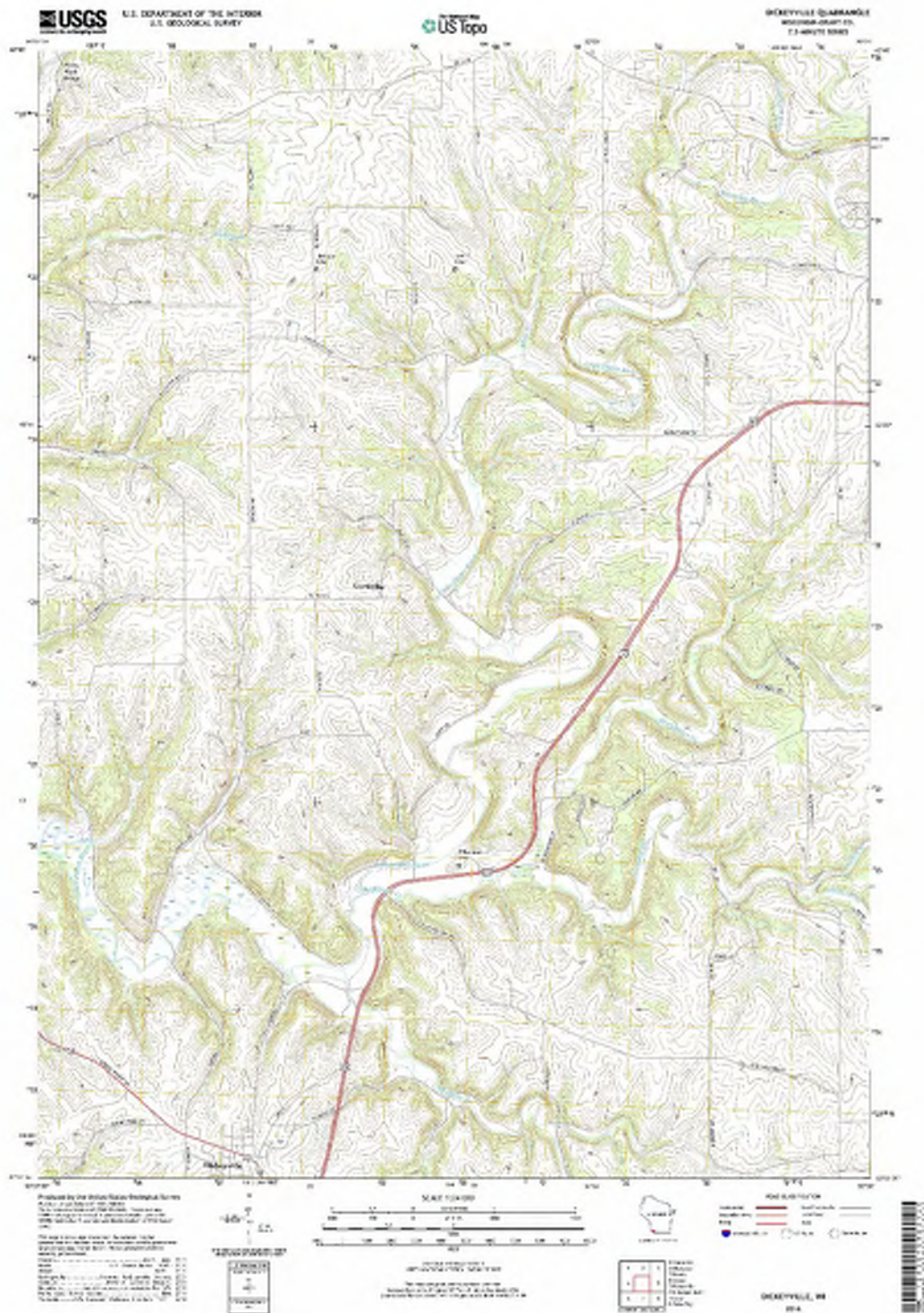
### Belmont Quad 2016



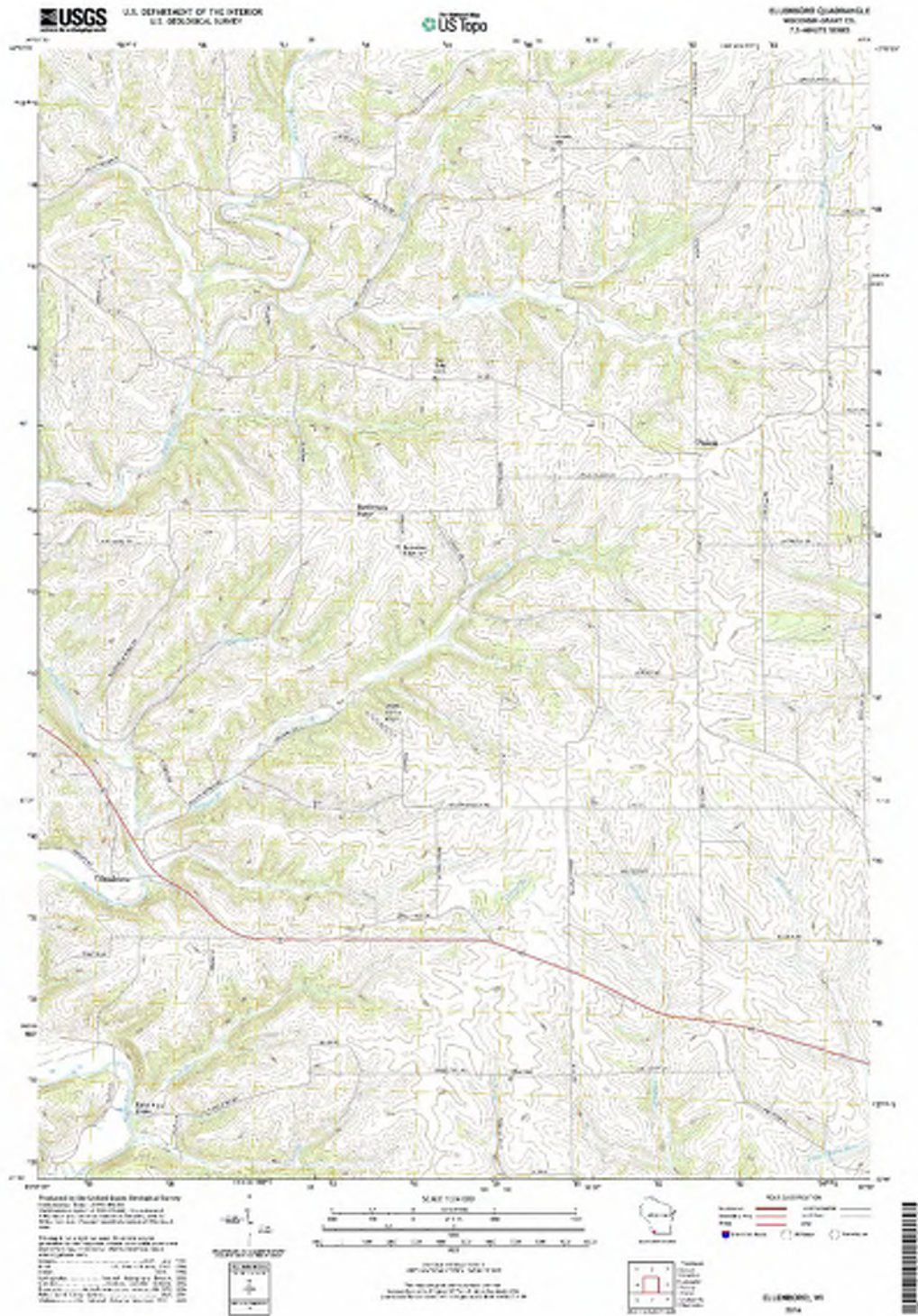
### Cassville Quad 2016



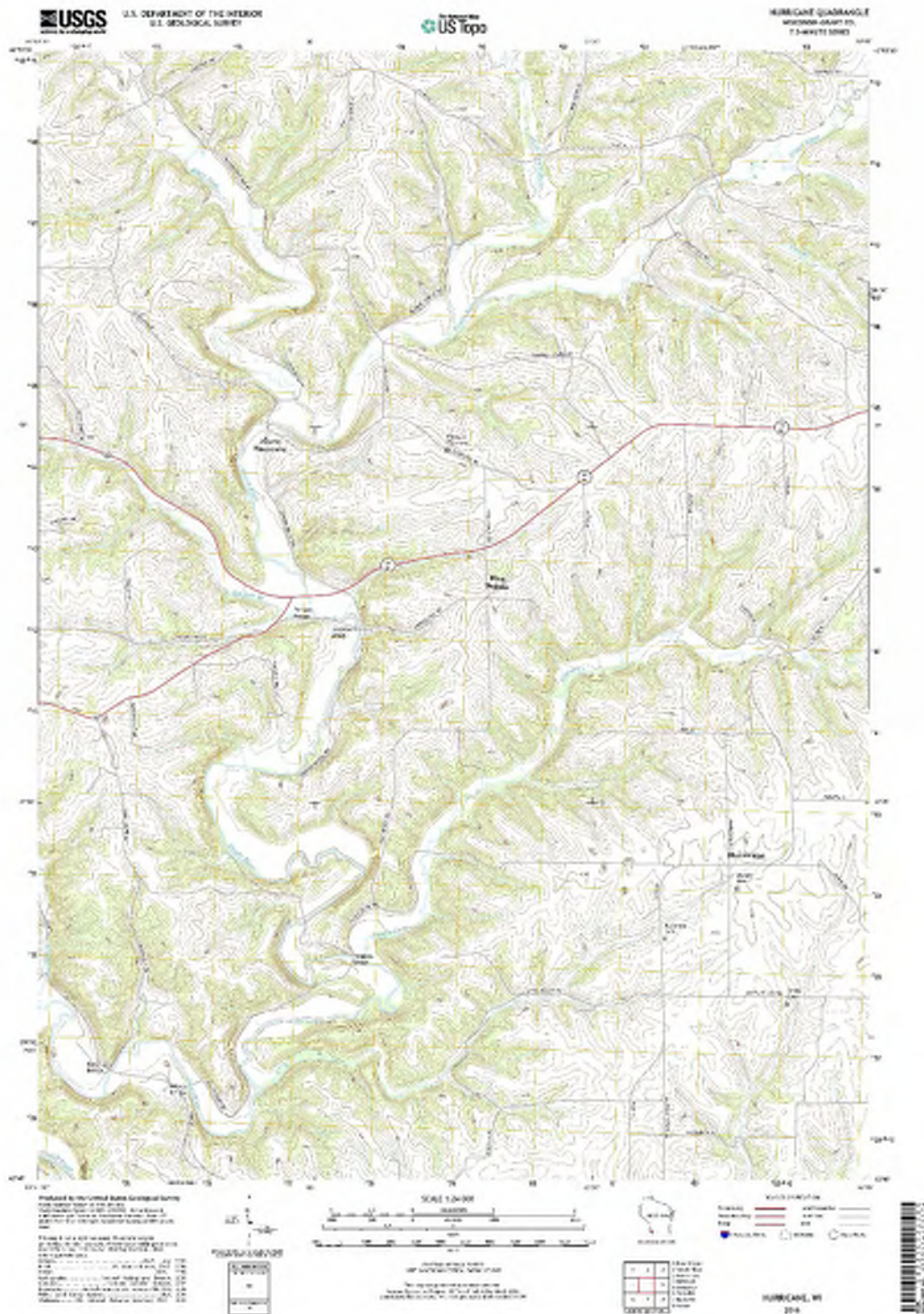
### Dickeyville Quad 2016



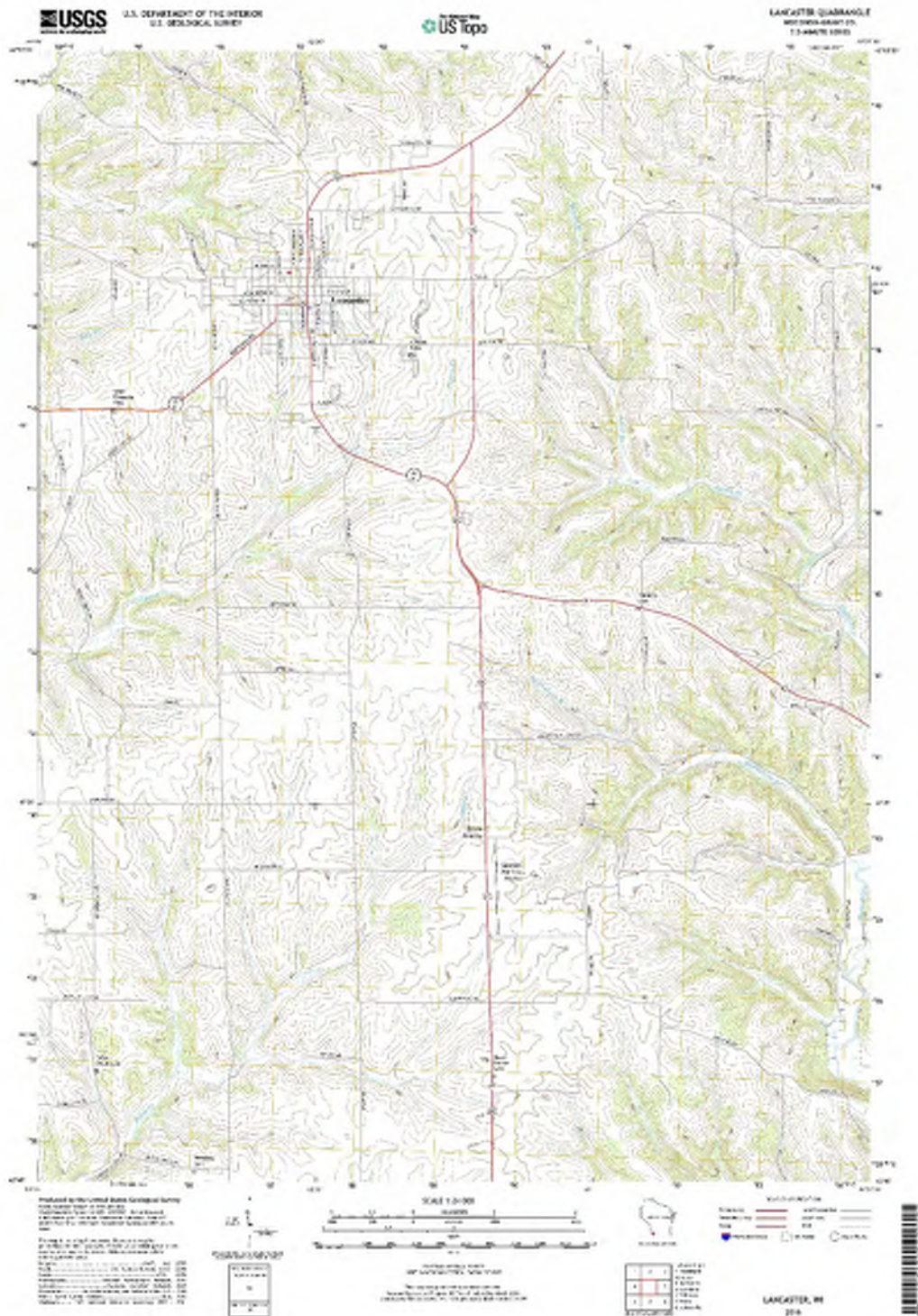
### Ellenboro Quad 2016



### Hurricane Quad 2016

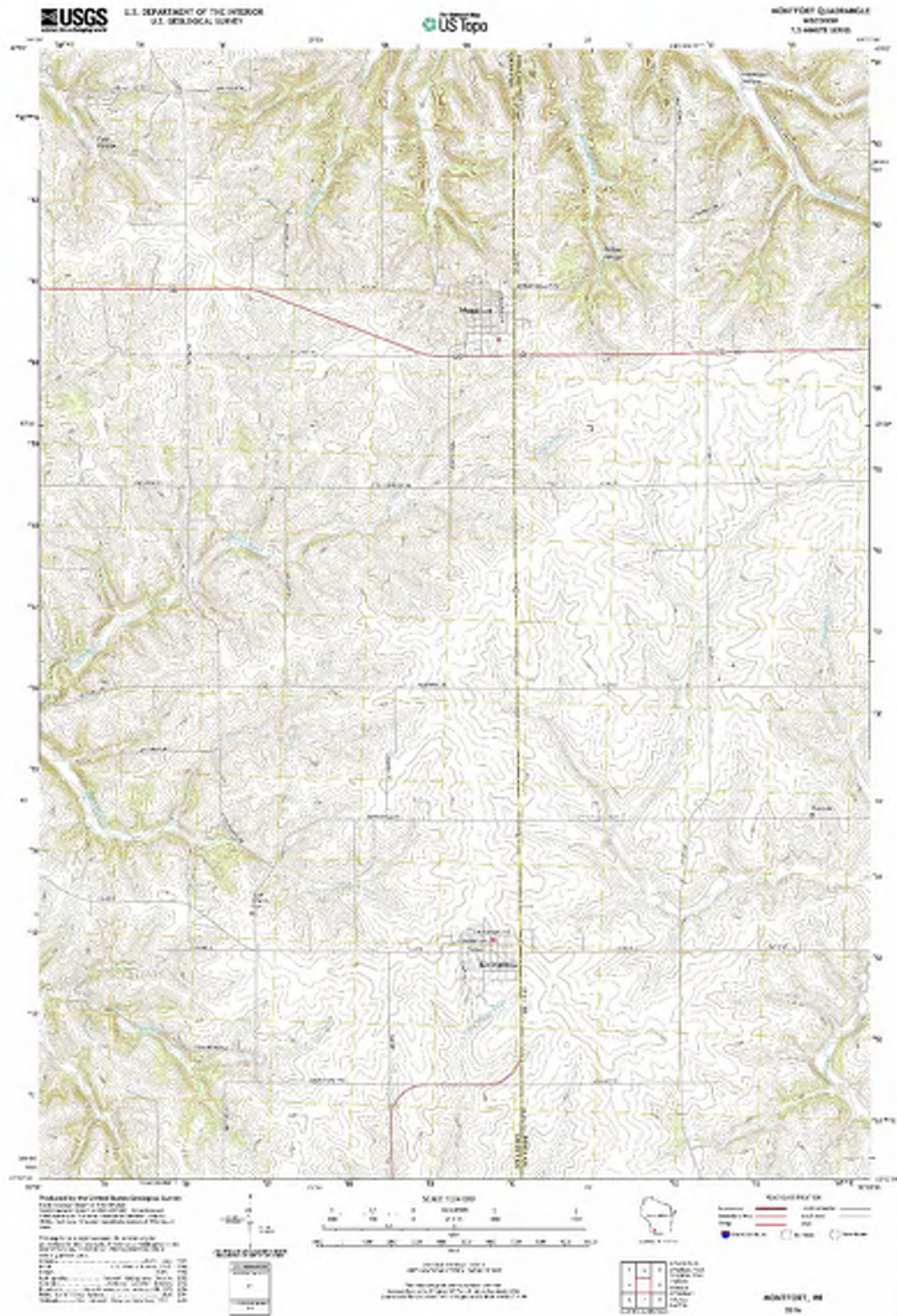


### Lancaster Quad 2016





### Montfort Quad 2016

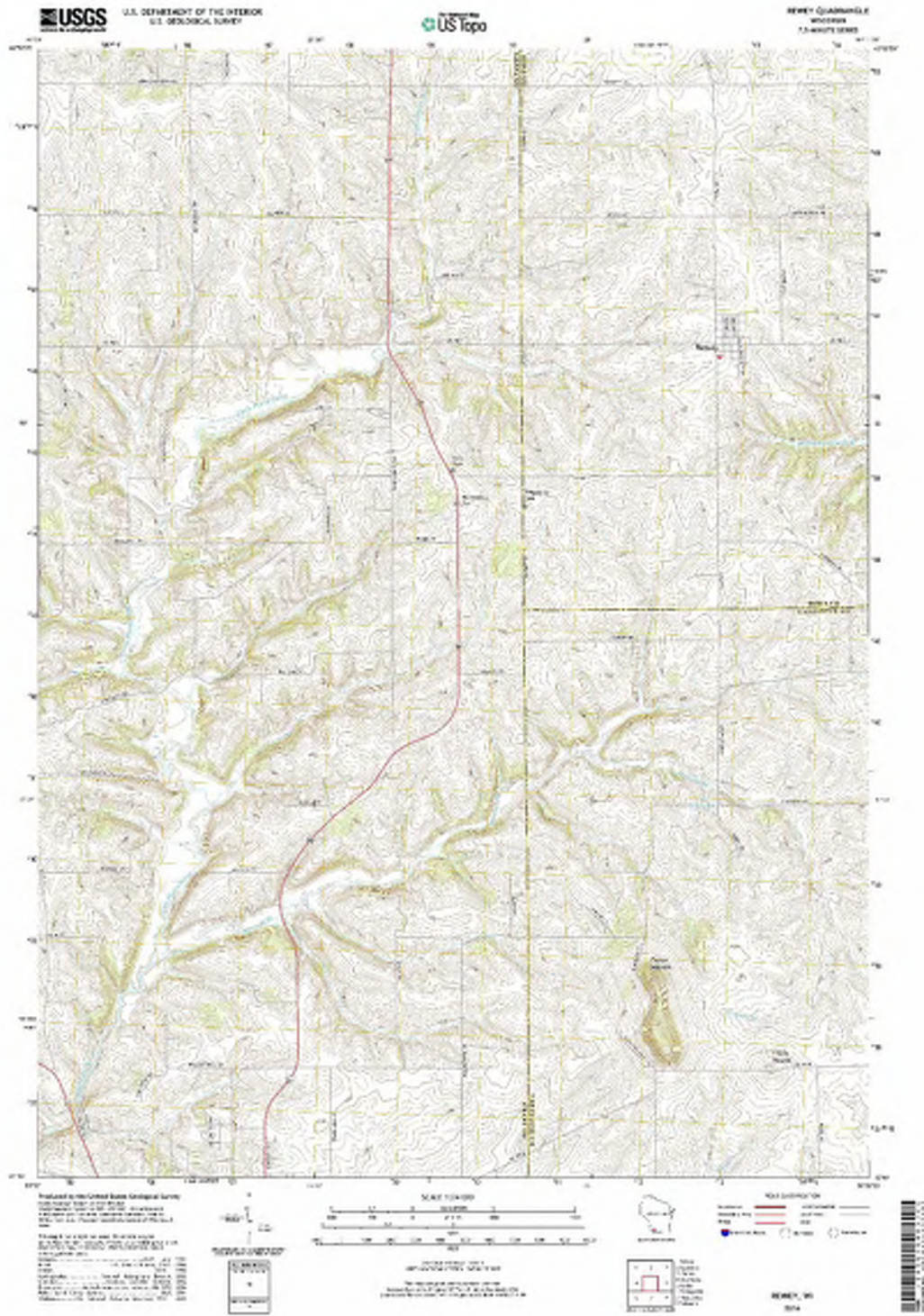




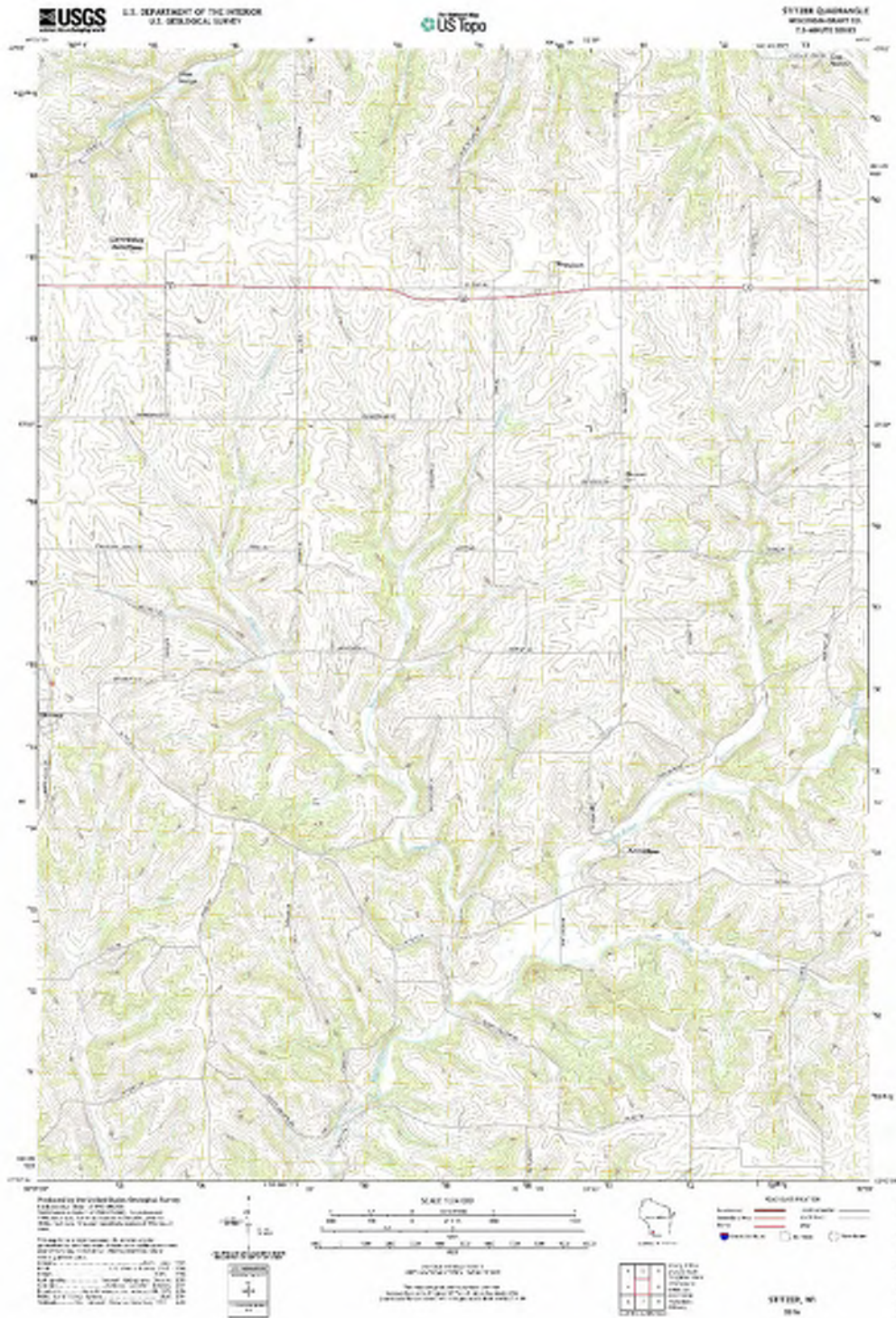
### Potosi Quad 2016



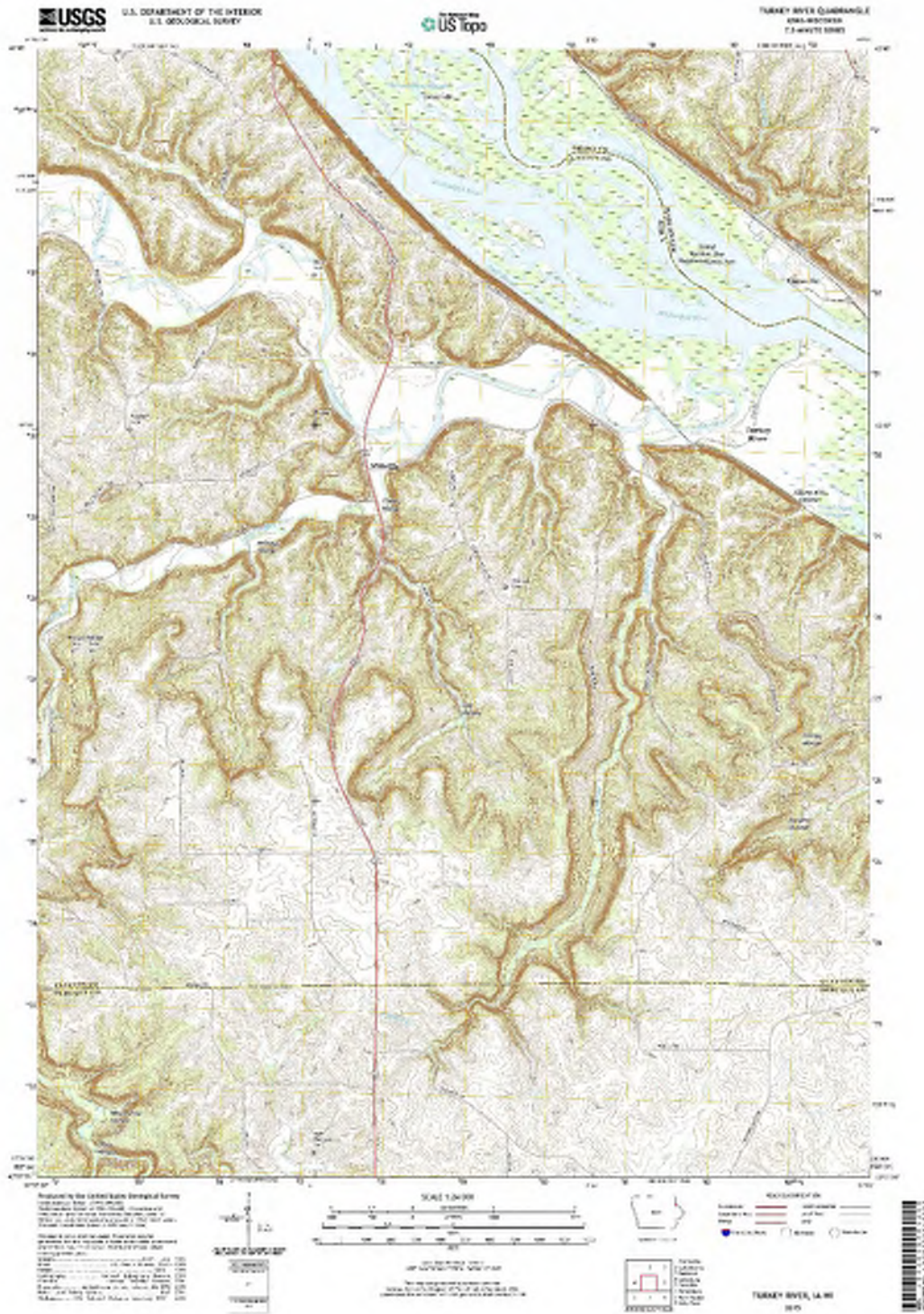
### Rewey Quad 2016



### Stitzer Quad 2016

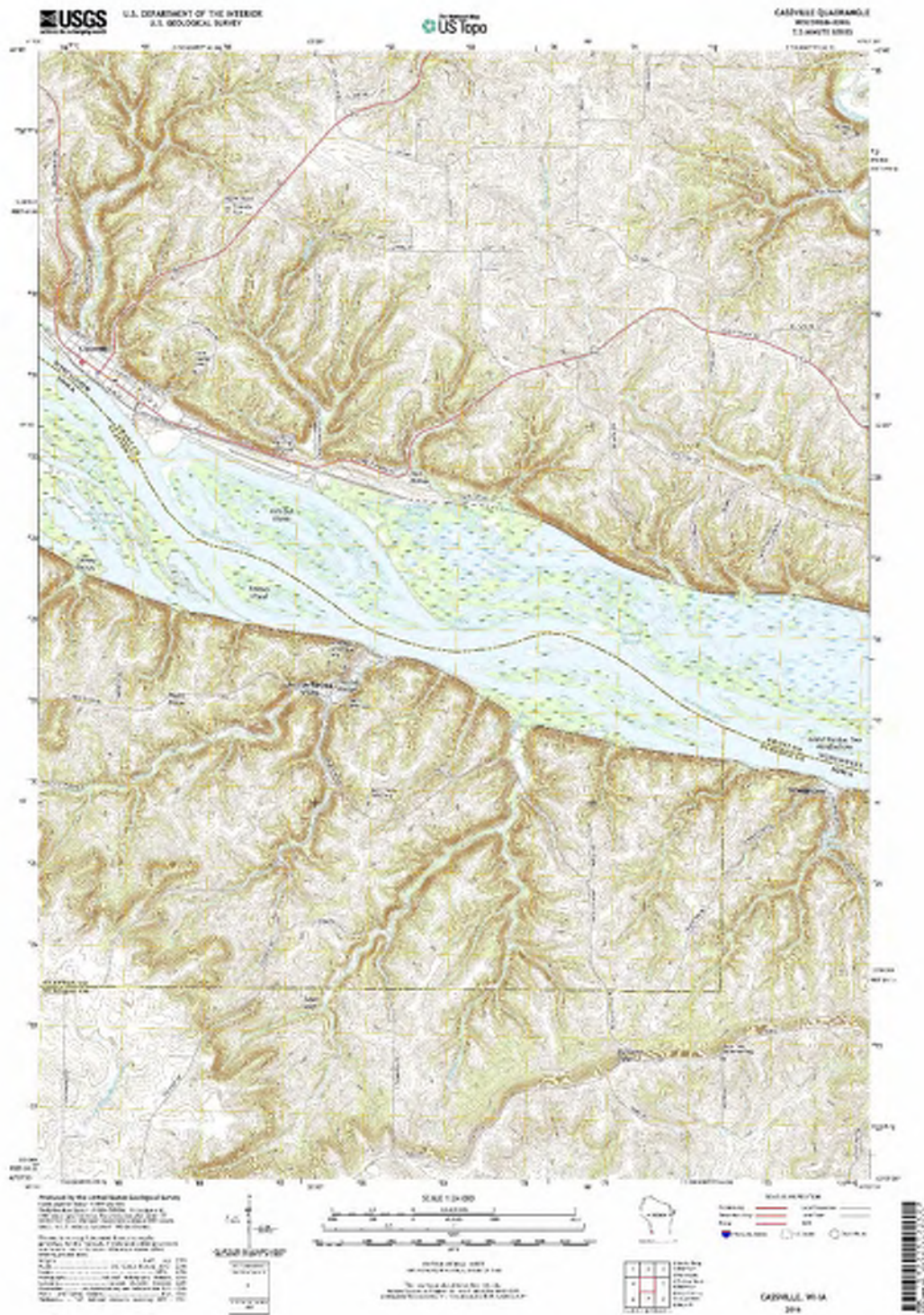


### Turkey River Quad 2015



**APPENDIX O - USGS 7-1/2' TOPOGRAPHIC QUADRANGLE MAPS FOR THE  
ALTERNATIVE CORRIDORS IN THE MISSISSIPPI RIVER TO  
HICKORY CREEK SITING AREA**

### Cassville Quad 2016

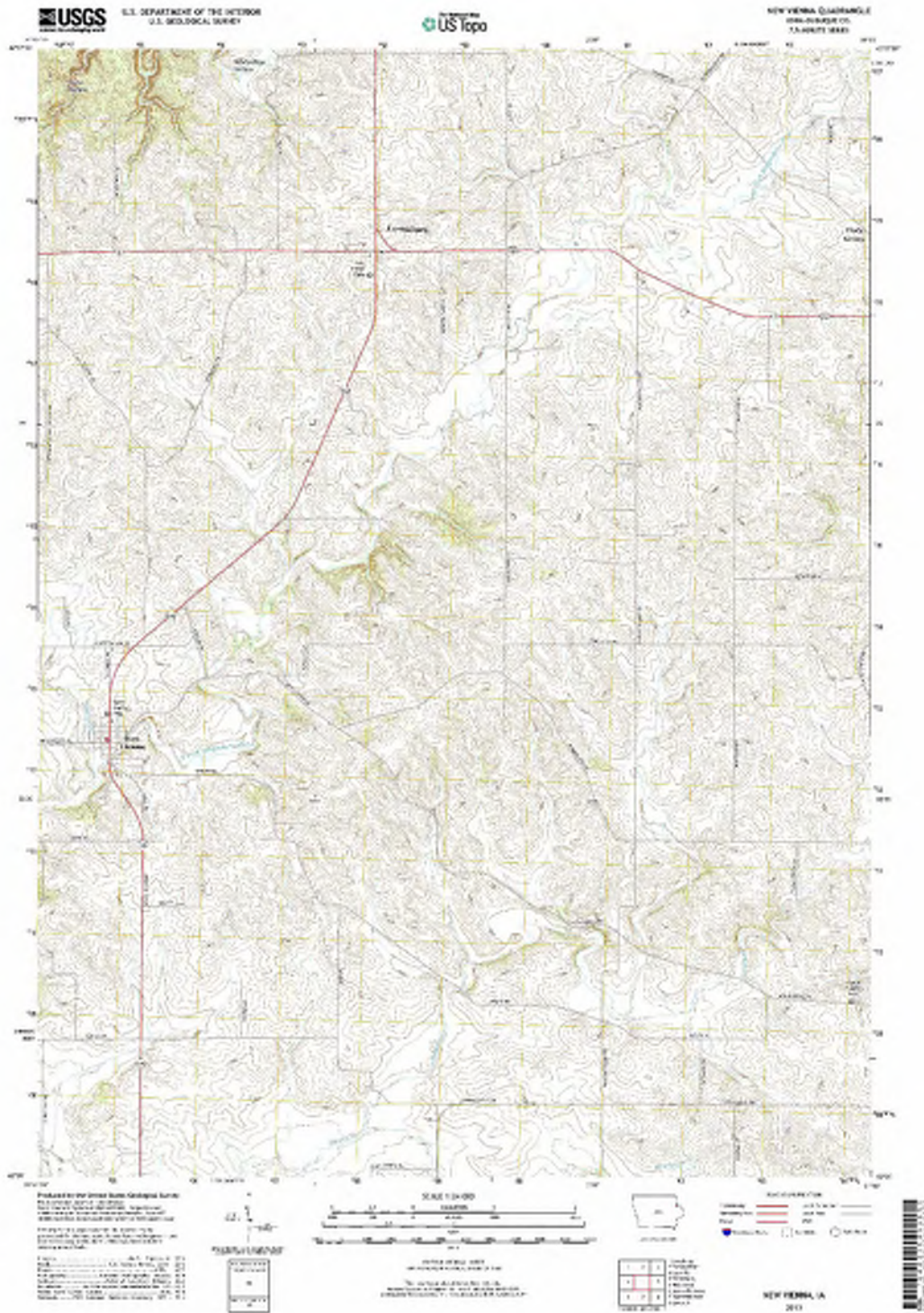




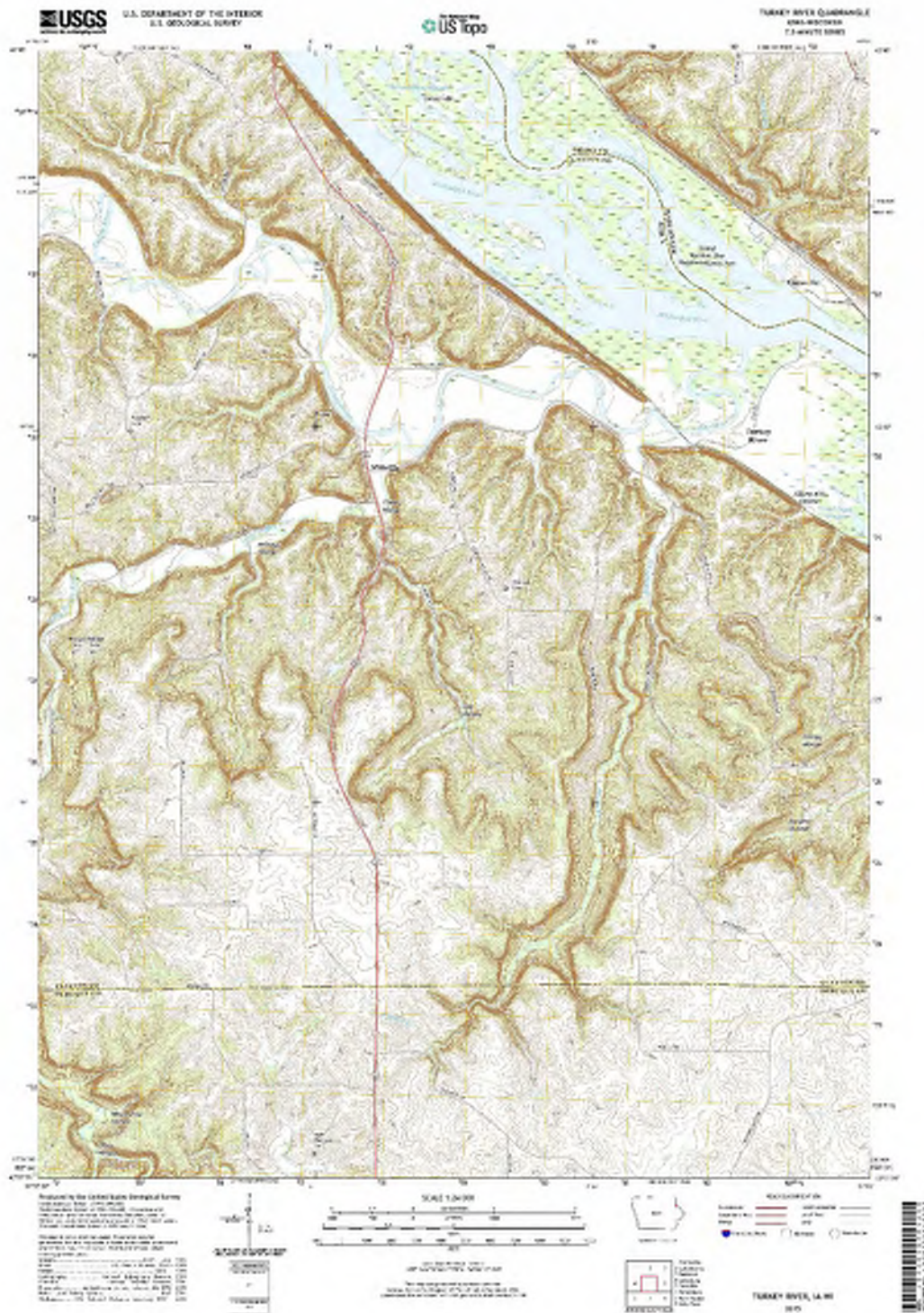
### Holy Cross Quad 2015



### New Vienna Quad 2015



### Turkey River Quad 2015



**APPENDIX P - LIST OF PREPARERS WITH DISCIPLINES**

**Table P-1: List of Preparers with Disciplines**

Name	Company	Discipline
Agrimonti, Lisa	Fredrikson & Byron for ITC	Attorney providing legal advice
Azar, Lauren	Azar Law LLC for ATC	Attorney providing legal advice
Berg, Derrik	EnValue	Routing and Siting
Berry, Joel	ATC	Transmission Planner
Dagenais, Thomas	ATC	Transmission Planner
Freiman, Kaya	ATC	Public Outreach
Jordan, Angela	ITC	Public Outreach
Lee, Amy	ATC	Environmental
Hagan, Daniel	ITC	Environmental
Herring, Valerie	Briggs and Morgan for ITC	Attorney providing legal advice
Holtz, Pete	ATC	Project Manager
Iverson, Jerome	Dairyland	Transmission Strategist
Landsman, Jeffrey	Wheeler, Van Sickle and Anderson for Dairyland	Attorney providing legal advice
Middleton, Jack	Burns & McDonnell	Environmental, Routing, and Siting
Pollio, Kenda	EnValue	Routing and Siting
Porter, Steve	Dairyland	Transmission Planner
Proctor, Corey	ITC	Transmission Line Design
Ryan, Mark	ITC	Project Manager
Schroeder, Randy	EnValue	Routing and Siting
Thompson, Charles	Dairyland	Project Manager
Westhouse, Susan	EnValue	GIS