

Appendix A Agency Coordination

Minnesota Department of Natural Resources (MNDNR)

Correspondence to MNDNR

Responses from MNDNR

Minnesota Department of Natural Resources (MNDNR)-National Heritage Information System (NHIS)

Correspondence to MNDNR-NHIS

Responses from MNDNR-NHIS

Minnesota Pollution Control Agency (MPCA)

Correspondence to MPCA

State Historic Preservation Office (SHPO)

Correspondence to SHPO

Responses from SHPO

US Army Corps of Engineers (USACE)

Correspondence to USACE

US Fish and Wildlife Service (USFWS)

Correspondence to USFWS

Responses from USFWS

Federal Aviation Administration (FAA)

Other Stakeholders

Maps Sent to Agencies



Minnesota Department of Natural Resources (MNDNR) Correspondence to MNDNR

Transmitted by Electronic Mail



June 26, 2015

Ms. Brooke Haworth Environmental Assessment Ecologist, Central Region MnDNR Division of Ecological and Water Resources 1200 Warner Road, St. Paul, MN 55106

RE: Aurora Distributed Solar Project– Montrose & Pine Island Facilities Request for Review

Dear Ms. Haworth,

Your review was requested in January/February 2014, then again in May 2014 by Aurora Distributed Solar, LLC (Geronimo Energy) via WSB & Associates (WSB) for the proposed Aurora Distributed Solar Project. However, during the development process Geronimo Energy encountered construction limitations and has since altered locations of two of the 24 previously reviewed solar facilities (Montrose and Pine Island). As you recall, the Aurora Solar Project includes up to 24 distributed solar facilities totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). Geronimo Energy is requesting that the altered locations of the Montrose and Pine Island solar facilities be reviewed.

At this stage in project development, Geronimo is assessing the existing environmental conditions of each of the altered facility locations. Enclosed are the altered facility location maps. The Aurora Solar Project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence as well as an access road within the "Preliminary Development Area Boundary" of each facility. The locations for each of the altered areas addressed in this letter are:

Facility	County	PLSS
Montrose	Wright	NW ¼ & SW ¼ Sec 2 T118, R26
Pine Island	Goodhue	E ½ & NW ¼ Sec 31 T109N, R15W

Similar to the requests made by WSB earlier this year, please review and provide recommendations within 30 days related to the presence of wildlife resources. If you have questions, feel free to call me at (952) 988-9000 or <u>ingrid@geronimoenergy.com</u>

Sincerely,

Geronimo Energy, LLC

Ingrid Schwingler Permitting Specialist

Attachments cc: Tena Rytel, Geronimo Energy



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

May 9th, 2014

Ms. Brooke Haworth Environmental Assessment Ecologist, Central Region MnDNR Division of Ecological and Water Resources 1200 Warner Road St. Paul, MN 55106

Re: Aurora Solar Power Project Sites – Brooten & Pine Island Request for Comments WSB Project No. 02045-020

Dear Ms. Haworth:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed Aurora Solar Project. Initially, correspondence was requested in January for most project areas; however, two areas were mistakenly omitted: Brooten and Pine Island. As you recall, the Aurora Solar Project includes up to 25 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). On behalf of Geronimo Energy, we request that the Brooten and Pine Island project areas be analyzed for their potential environmental impacts, similar to the analysis that occurred for the project areas identified in January.

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Goodhue	NE ¼ of Sec 31, T109N, R15W
Stearns	NW ¼ of Sec 31, T124N, R35W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 30 days.

If you have questions, feel free to call me at (763) 541-4800 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist

Attachments

cc: Ingrid Schwingler, Geronimo Energy Tena Rytel, Geronimo Energy



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Beau Liddell Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 16543 Haven Road Little Falls, MN 56345

RE: Aurora Solar Power Project Sites – Mayhew Lake Request for Comments WSB Project No. 02045-020

Dear Mr. Liddell:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Benton	SW ¼ of Sec 12, T36N, R31W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Ms. Diana Regenscheid Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 7050 East Highway 101, Suite 100 Shakopee, MN 55379

RE: Aurora Solar Power Project Sites –West Waconia Solar Request for Comments WSB Project No. 02045-020

Dear Ms. Regenscheid:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Carver	SW ¼ of Sec 1, T115N, R26W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the the

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Don Nelson Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 3555 9th Street NW Rochester, MN 55901

RE: Aurora Solar Power Project Sites – Zumbrota Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Nelson:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Goodhue	SW ¼ of Sec 25, T110N, R16W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Fred Bengtson Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 940 Industrial Drive South, #103 Sauk Rapids, MN 56379

RE: Aurora Solar Power Project Sites – Lake Pulaski, Montrose, Albany, Paynesville & Annandale Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Bengtson:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Wright	SE ¼ of Sec 15, T120N, R25W
Wright	NW ¼ of Sec 32, T121N, R27W
Wright	NE ¼ of Sec 2, T118N, R26W
Stearns	NE ½ of Sec 17 & SE ½ of Sec 8, T125N, R31W
Stearns	NW ¼ of Sec 9, NE ¼ of Sec 8, SW ¼ of Sec 4,
	T122N, R32W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Ted Dick Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 800 Oak Savannah Lane SW Cambridge, MN 55008

Re: Aurora Solar Power Project Sites – Chisago, Scandia, Wyoming & Lawrence Creek Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Dick:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Chisago	NE ½ of Sec 12, T34N, R21W
Chisago	E ½ of Sec 27, T34N, R19W
Chisago	NE ¼ of Sec 32, T33N, R21W
Chisago	SE ¼ if Sec 35, T33N, R20W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

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Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Tim Marion Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 5463-C W Broadway Forest Lake, MN 55025

RE: Aurora Solar Power Project Sites – Hastings Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Marion:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Washington	NE ¼ of Sec 8, T26N, R20W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

Mi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Bill Schuna Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 2611 Broadway Avenue Slayton, MN 56172

RE: Aurora Solar Power Project Sites – Pipestone Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Schuna:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Pipestone	NE ¼ of Sec 11, T106N, R46W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

Mi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Cory Netland Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 398 Sibley Park Road NE New London, MN 56273

RE: Aurora Solar Power Project Sites – Atwater & Fiesta City Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Netland:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Kandiyohi	SW ¼ of Sec 1, T119N, R33W
Chippewa	SW ¼ of Sec 9, T117N, R40W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide

recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

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Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Ms. Jeanine Vorland Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 8485 Rose Street Owatonna, MN 55060

RE: Aurora Solar Power Project Sites – Waseca, West Faribault & Dodge Center Solar Request for Comments WSB Project No. 02045-020

Dear Ms. Vorland:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Waseca	NE ¼ of Sec 12, T107N, R23W
Rice	SE ¼ of Sec 2, T109N, R21W
Dodge	SE ¼ of Sec 32, T107N, R17W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

Mi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Joe Stangel Area Wildlife Manager Division of Fish and Wildlife Minnesota Department of Natural Resources 501 9th Street Nicollet, MN 56074

RE: Aurora Solar Power Project Sites – Lester Prairie, Eastwood & Lake Emily Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Stangel:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
McLeod	SW ¼ of Sec 25, T117N, R27W
Blue Earth	SE ¼ of Sec 14, T108N, R26W
Le Sueur	NW ¼ of Sec 24, T110N, R26W

We would appreciate any comments you may have about wildlife resources or other concerns regarding this project. Please review the project areas and provide recommendations related to the presence of wildlife resources that may be affected within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist



Minnesota Department of Natural Resources (MNDNR) Responses from MNDNR Minnesota Department of Natural Resource:

Division of Ecological and Water Resources 1200 Warner Road Saint Paul, MN 55106-6793



June 3, 2014

Transmitted by Electronic Mail

Ms. Alison Harwood Environmental Planning &Natural Resources Scientist WSB &Associates, Inc. 701 Xena Avenue South, Suite 300 Minneapolis, MN 55416

Dear Ms. Harwood,

I have reviewed the additional sites for Geronimo Energy's proposed Aurora Solar project in the DNR Central Region and offer the following comments.

Goodhue County-Pine Island

This site is bordered on three sides by the North Branch Middle Fork of the Zumbro River, which is a Minnesota Water Trail. This riparian corridor is classified as a Minnesota Biological Survey (MBS) native plant community (NPC) "Elm-Ash-Basswood Terrace Forest" that has a state conservation status rank of S2-imperiled. The corridor is also identified as a Site of Biodiversity Significance of high rank, containing very good quality occurrences of the rarest species, high-quality examples of rare NPCs, and/or important functional landscapes.

There are rare mussel and plant species within one mile of the project site, but they occur either in the riverbed or the alluvial terrace and are unlikely to be impacted. Because of proximity to these areas, wildlife biodiversity and activity may be more abundant. The DNR would appreciate construction BMPs that minimize adverse impacts to wildlife.

The site is partially within a 100 year floodplain, with highly erodible soils. Any facility construction must meet shoreland structure setbacks from public waters, and must comply with floodplain regulations. These provisions are found in local ordinances.

Stearns County-Brooten

This site is bordered on the north and east by a Regionally Significant Ecological Area (RSEA) of outstanding rank, meaning that the area has significant terrestrial and wetland resources that support a variety of plant and animal species, and provides habitat connectivity to other ecologically intact areas. The purpose of the data is to inform regional scale land use decisions, especially as it relates to balancing development and natural resource protection. Because of proximity to these areas, wildlife biodiversity and activity may be more abundant. The DNR would appreciate construction BMPs that minimize adverse impacts to wildlife.

Thank you for the opportunity to review these sites. If you have any questions regarding these comments, please feel free to contact me.

Sincerely,

Brooke Haworth

Brooke Haworth Environmental Assessment Ecologist, Central Region MnDNR Division of Ecological and Water Resources 1200 Warner Road, St. Paul, MN 55106 Phone: 651-259-5755 Email: <u>Brooke.haworth@state.mn.us</u>

1-800-657-3929

Minnesota Department of Natural Resources

Division of Ecological and Water Resources 1200 Warner Road Saint Paul, MN 55106-6793



April 8, 2014

Transmitted by Electronic Mail

Ms. Alison Harwood Environmental Planning & Natural Resources Scientist WSB & Associates, Inc. 701 Xena Avenue South, Suite 300 Minneapolis, MN 55416

Dear Ms. Harwood,

DNR Central Region staff have reviewed the sites for Geronimo Energy's proposed Aurora Solar project that you presented to us in February. We offer the following comments about this project for your consideration.

- The Aurora Solar project presents an opportunity for the Geronimo Energy to develop designs and protocols that effectively protect the natural resources across the Minnesota landscape. We recommend that Geronimo continue coordination with the DNR during construction and maintenance phases to address situations as they occur.
- 2) Because so little is known about the impacts of larger scale PV solar projects in the Midwest, we encourage the incorporation of wildlife survey and monitoring in maintenance activities. These activities could provide important information on the potential effects of these installations, and could be used to develop mitigations for adverse effects on future projects.
- 3) The construction phases of the PV solar installations will have the most impact upon the natural resources of each site. For those that include wetter soils, we recommend winter construction to reduce adverse impacts to soils and vegetation.

From Waters staff:

1) These facilities must meet shoreland structure setbacks from public waters, and must comply with floodplain regulations. These provisions are found in local ordinances.

2) The Goodhue County-Zumbrota site has a public watercourse on the south line of the property. Structure setback is 100 feet from the top of the bank of the waterway. The site is not in a designated floodplain.

From Nongame Wildlife staff:

- If possible, open areas should be planted with a native grassland seed mix and rarely mowed to create grassland wildlife habitat (for pollinators, grassland bird, small mammals).
- Is it possible to place the panels at a height that does not require mowing underneath them? Due to shading effects, plants will not be as tall as in open areas. With these combined factors, a lot of grassland habitat could remain within the project footprint.
- 3) Waterbirds may mistake the arrays for water and try to land. Those that are not directly killed by the impact are often trapped below the panels and unable to get back into the air. If a site is located in close proximity to a flyway or large wetland with nesting wildlife, fencing should be set back far enough so that waterbirds have enough room to take flight, in order to avoid trapping them within the fenced perimeter.
- 4) Bird flight diverters and raptor shields on transmission wires and utility poles are recommended at sites near flyways and wetland complexes.
- 5) The use of white borders and dividing strips on PV panels are known to reduce attraction of aquatic insects.
- 6) Because of site locations in rural areas with abundant wildlife, all development activities should use wildlife-friendly (non-plastic, non-welded) erosion control materials.

Central Region Site Comments:

Benton County-Mayhew Lake

This site is located adjacent to a DNR public water wetland, and across the road from a Minnesota Biological Survey (MBS) native plant community "prairie rich fen" that is identified as a Site of Biodiversity Significance (SBS) of moderate rank. Sites of Biodiversity Significance have varying levels of native biodiversity and are ranked on a state level by the presence of rare species, native plant communities and large, intact functional landscapes. This area is also considered a Central Region Regionally Significant Ecological Area (CRRSEA) of moderate value, meaning that the area has significant terrestrial and wetland resources that support a variety of plant and animal species, and provides habitat connectivity to other ecologically intact areas. The purpose of the data is to inform regional scale land use decisions, especially as it relates to balancing development and natural resource protection. Because of proximity to these areas, wildlife biodiversity and activity may be more abundant.

Carver County-West Waconia

Because of the proximity to area lakes, exposed transmission lines and poles should use bird flight diverters and raptor shields.

Goodhue County-Zumbrota

See setback comment above, under comments from Waters staff.

Wright County-Lake Pulaski

Because of the proximity to area lakes, exposed transmission lines and poles should use bird flight diverters and raptor shields.

Wright County-Annandale

No comment

Wright County-Montrose

This site is within one mile of the Woodland Wildlife Management Area (WMA), which has trumpeter swan records, a state-listed species of special concern. Because of the proximity to area lakes, exposed transmission lines and poles should use bird flight diverters and raptor shields.

Stearns County-Albany

No comment

Stearns County-Paynesville

This site borders Spirit Prairie WMA, which contains MBS native plant communities and rare plant and animal species. The site itself is partially within an SBS of high rank and a CRRSEA of outstanding rank. A large wetland is in the middle of the site. This entire area is part of a habitat complex imbedded in the agricultural landscape. Wildlife diversity will be high in this area.

Chisago County-Chisago County

This site borders a small riparian corridor along a public water ditch that links much larger habitat complexes. It is nearly adjacent to Carlos Avery WMA, a large habitat complex with high biodiversity. This site lies within a Blanding's turtle (a state-listed threatened species) Priority Area, and numerous Blanding's records are within close proximity. During all construction and maintenance activities, this species must be protected from harm. The site is also close to the Audubon Carlos Avery Important Bird Area (IBA); consequently, exposed transmission lines and poles should use bird flight diverters and raptor shields.

Chisago County-Lawrence Creek

This site is located within one mile of Interstate Park, an area containing of high biodiversity and numerous rare species records. This is also the Audubon St. Croix River

Bluffs IBA, an important migratory flyway. Consequently, exposed transmission lines and poles should use bird flight diverters and raptor shields.

Chisago County-Wyoming

This site lies two miles east of Carlos Avery WMA, a large habitat complex with high biodiversity, and also a Audubon IBA. This site lies within a Blanding's turtle (a state-listed threatened species) Priority Area, and numerous Blanding's records are in the area. During all construction and maintenance activities, this species must be protected from harm. The site is just west of a public water wetland, and the Sunrise River. Due to proximity to area lakes, exposed transmission lines and poles should use bird flight diverters and raptor shields.

Chisago County-Scandia

Blanding's turtle records are located with two miles of this project site.

Washington County-Hastings

This site is located on a point of land where the Mississippi and St. Croix Rivers meet, and where two Audubon IBAs intersect – the flyways of the St. Croix Lake IBA and the Vermillion Bottoms IBA. It is very important that exposed transmission lines and poles use bird flight diverters and raptor shields at this site. There are many rare species records in this area, but most are associated with the waters of the rivers. Due to the proximity to large riparian corridors, wildlife will be varied and active.

We thank you for the opportunity to review these sites and the Aurora Solar project, and look forward to continued coordination during the project. If you have any questions regarding these comments, please feel free to contact me.

Sincerely,

Brooke Haworth

Environmental Assessment Ecologist, Central Region MnDNR Division of Ecological and Water Resources 1200 Warner Road, St. Paul, MN 55106 Phone: 651-259-5755 Email: <u>Brooke.haworth@state.mn.us</u>

Ingrid M. Schwingler

From:	Mixon, Kevin (DNR) <kevin.mixon@state.mn.us></kevin.mixon@state.mn.us>
Sent:	Tuesday, February 18, 2014 2:12 PM
То:	Alison Harwood
Cc:	Schrenzel, Jamie (DNR); Tena Rytel; Ingrid M. Schwingler; Joyal, Lisa (DNR)
Subject:	RE: Aurora Solar Project - Geronimo Energy

Alison:

Region 4 (Southern) of the DNR has already reviewed the projects that were sent to our Area Wildlife Managers. The projects reviewed included: Pipestone, Atwater, Fiesta City, Waseca, West Faribault, Dodge Center, Lester Prairie, Eastwood, and Lake Emily. Most of the proposed sites have limited to no concerns to resources under our jurisdiction.

Several of the proposed sites show wetland signatures or wetlands identified by the National Wetland Inventory that will need to be addressed according to the Wetland Conservation Act. The Atwater site in particular appears to have a larger wetland in the middle of the site with additional potential wetlands in the project area. If the wetland delineation confirms a greater amount of wetland then it might be wise to choose a less impacting site that will require less wetland mitigation that will result in reduced project costs.

If possible the avoidance of the forested portions of the Dodge Center Site would help maintain the larger block of forested habitat in the area.

Lisa Joyal, DNR Endangered Species Review Coordinator, will be reviewing the projects for potential impacts to rare features.

Please coordinate with us again as the projects get further refined.

Kevin

From: Alison Harwood [mailto:aharwood@wsbeng.com]
Sent: Tuesday, February 18, 2014 11:38 AM
To: Mixon, Kevin (DNR)
Cc: Schrenzel, Jamie (DNR); Tena Rytel (Tena@geronimoenergy.com); Ingrid Schwingler (Vick) (Ingrid@geronimoenergy.com)
Subject: Aurora Solar Project - Geronimo Energy

Kevin,

In January 2014, WSB & Associates (WSB) sent letters to DNR's Area Wildlife Managers, requesting input on Geronimo Energy's proposed Aurora Solar project. Coordination with DNR thereafter indicated that requests for early coordination should be made through the Regional Environmental Assessment Ecologists (REAEs). Therefore, WSB is re-distributing the letters to the appropriate REAE contacts. These letters can be accessed via the Sharefile Link below.

Link to documents (expires after 30 days): https://wsbeng.securevdr.com/d/s230bcde3f024e209

Please let me know if you have any trouble accessing the documents. As discussed at the meeting with Geronimo Energy on February 12, please respond by April 8, 2014.

Alison Harwood Environmental Planning & Natural Resources Scientist d: 763-231-4847 | c: 612-360-1320 WSB & Associates, Inc. | 701 Xenia Avenue South, Suite 300 | Minneapolis, MN 55416

WSB and McGhie & Betts, Inc. have joined forces! McGhie & Betts is now a Division of WSB, providing a presence in Rochester and Northfield, MN.



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Minnesota Department of Natural Resources (MNDNR)-National Heritage Information System (NHIS)

Correspondence to MNDNR-NHIS

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4) Please provide the following information (attach additional sheets if necessary):

Project Name:

Project Proposer:

Description of Project (including types of disturbance anticipated from the project):
Describe the existing land use of the project site. What types of land cover / habitat will be impacted by the proposed project?

List any waterbodies (e.g., rivers, intermittent streams, lakes, wetlands) that may be affected by the proposed project, and discuss how they may be impacted (e.g., dewatering, discharge, riverbed disturbance).

Does the project have the potential to affect any groundwater resources (e.g., groundwater appropriation, change in recharge, or contamination)?

To your knowledge, has the project undergone a previous Natural Heritage review? If so, please list the correspondence #: ERDB #______. How does this request differ from the previous request (e.g., change in scope, change in boundary, project being revived, project expansion, different phase)?

To your knowledge, have any native plant community or rare species surveys been conducted within the site? If so, please list:

List any DNR Permits or Licenses that you will be applying for or have already applied for as part of this project:

INFORMATION WE PROVIDE TO YOU:

1) The response will include a Natural Heritage letter. If applicable, the letter will discuss potential effects to rare features.

Check here if you are interested in a list of rare features in the vicinity of the area of interest but you do **not** need a review of potential effects to rare features. Please list the reason a review is not needed:

2) Depending on the results of the query or review, the response may include an Index Report of known aggregation sites and known occurrences of federally and state-listed plants and animals* within an approximate one-mile radius of the project boundary/area of interest. The Index Report and Natural Heritage letter can be included in any public environmental review document.

3) A Detailed Report that contains more information on each occurrence may also be requested. Please note that the Detailed Report may contain specific location information that is protected under *Minnesota Statutes*, section 84.0872, subd. 2, and, as such, the Detailed Report may not be included in any public document (e.g., an EAW).

Check here if you would like to request a Detailed Report. Please note that if the results of the review are 'No Effects' or a standard comment, a Detailed Report may not be available.

FEES / TURNAROUND TIME

There is a fee* for this service. Requests generally take **3-4 weeks** from date of receipt to process, and are processed in the order received.

I have read the entire form and instructions, and the information supplied above is complete and accurate. I understand that material supplied to me from the Natural Heritage Information System is copyrighted and that I am not permitted to reproduce or publish any of this copyrighted material without prior written permission from the DNR. Further, if permission to publish is given, I understand that I must credit the Minnesota Division of Ecological and Water Resources, Minnesota Department of Natural Resources, as the source of the material.

Signature (required)	Note: Digital signatures representing the name of a person shall be sufficient to show that such person has signed this document.
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<u>Mail or email completed form to:</u> Lisa Joyal, Endangered Species Review Coordinator Division of Ecological and Water Resources Minnesota Department of Natural Resources 500 Lafayette Road, Box 25 St. Paul, Minnesota 55155 <u>Review.NHIS@state.mn.us</u>

Form is available at http://files.dnr.state.mn.us/eco/nhnrp/nhis_data_request.pdf

Revised March 2, 2012

* Please see the instructions on page 3.

Instructions for the Natural Heritage Information System (NHIS) Data Request Form

The Division of Ecological and Water Resources maintains the Natural Heritage Information System (NHIS), a collection of databases that provides information on Minnesota's rare plants and animals, native plant communities, and other rare features. The NHIS is continually updated as new information becomes available, and the Minnesota County Biological Survey (MCBS) is a major source of this information.

- Use this form to request information on rare features within an approximate one-mile radius of an area of interest. You may reproduce this form for your own use or to distribute. An **electronic copy** of the form is available at the DNR's web site at http://files.dnr.state.mn.us/eco/nhnrp/nhis_data_request.pdf
- If you are interested in obtaining the Rare Features Database electronically as a GIS shapefile, do <u>not</u> fill out this form. Please see <u>http://files.dnr.state.mn.us/eco/nhnrp/natural heritage data.pdf</u> for more information on this option.

WHO IS REQUESTING THE INFORMATION?

- The person whose name is entered on the form under the "Who is Requesting the Information" section must sign the form as an acknowledgment of the State of Minnesota's copyright on all generated reports. All correspondence and invoices will be sent to this person. Please do not ask us to send this information to a different party.
- Please include a complete mailing address. Responses will be sent via email unless you specify differently.

INFORMATION WE NEED FROM YOU:

- Include a legible map (topographic maps or aerial photographs are preferred) clearly showing:
 - 1) location and boundaries of the project,
 - 2) associated infrastructure, and
 - 3) any waterbodies that may be affected by the proposed project.
- If the project boundary is large **or** complex, please provide a **GIS shapefile** (NAD 83, UTM Zone 15) of the project boundary/area of interest. Do not include any buffers. An additional "digitizing fee" may be charged for projects that require a substantial amount of time to digitize.
- Provide a complete list of sections that the proposed project or area of interest falls within. Do not include any buffer area. Please double-check this information. Incorrect sections can delay the processing of your request, and may result in an invalid review.
- Please provide a detailed **project description**, attaching separate pages to the form if necessary. Identify the type of development (e.g., housing, commercial, utility, ethanol facility, wind farm) being proposed, the size and # of units (if applicable), construction methods, and **any associated infrastructure** such as access roads, utility connections, and water supply and/or discharge pipelines.
- We cannot begin processing data requests until we receive all parts of the request, including a map and a completed, signed form.

INFORMATION WE PROVIDE TO YOU:

- The Natural Heritage review and database reports are valid for environmental review purposes for one year, and they are only valid for the project location and description provided on the form. Please contact Lisa Joyal at <u>lisa.joyal@state.mn.us</u> if project details change or if a data update is needed.
- Please note that the Natural Heritage review and database reports do not address/contain locations of the gray wolf (*Canis lupus*), state-listed as special concern, or Canada lynx (*Lynx canadensis*), federally-listed as threatened, as these species are not currently tracked in the Natural Heritage Information System. See page 4.

FEES / TURNAROUND TIME:

- There is a fee for this service. All fees are subject to change. The current fee schedule is available at http://files.dnr.state.mn.us/eco/nhnrp/natural_heritage_data.pdf. The minimum charge is \$90.00, and increases based on the time it takes us to process the request (dependent upon project size and the results of the query). Please do <u>not</u> include payment with your request; an invoice will be sent to you.
- There is generally a 3-4 week turn-around time to process requests.

PLEASE SEE NEXT PAGE FOR ADDITIONAL SOURCES OF INFORMATION

ADDITIONAL SOURCES OF INFORMATION:

- The DNR Rare Species Guide (<u>http://www.dnr.state.mn.us/rsg/index.html</u>) is the state's authoritative reference for Minnesota's endangered, threatened, and special concern species. It is a dynamic, interactive source that can be queried by county, ECS subsection, watershed, or habitat.
- Information on the gray wolf (*Canis lupus*): DNR website: <u>http://www.dnr.state.mn.us/mammals/graywolf.html</u> USFWS website: <u>http://www.fws.gov/midwest/wolf/</u>
- Information on the Canada lynx (Lynx Canadensis): DNR website: <u>http://www.dnr.state.mn.us/mammals/canadalynx.html</u> USFWS website: <u>http://www.fws.gov/midwest/endangered/mammals/lynx/index.html</u>
- Minnesota's Comprehensive Wildlife Conservation Strategy (<u>http://www.dnr.state.mn.us/cwcs/index.html</u>) is an action plan focused on managing Minnesota's native animals whose populations are rare, declining, or vulnerable to decline. It identifies Species in Greatest Conservation Need and the Key Habitats that support them.
- The DNR Data Deli (<u>http://deli.dnr.state.mn.us/</u>) allows users to download GIS shapefiles of MCBS Sites of Biodiversity Significance, MCBS Native Plant Communities, MCBS Railroad Rights-of-Way Prairies, and Scientific and Natural Area Boundaries.
- Information on MCBS Sites of Biodiversity Significance can be found at <u>http://www.dnr.state.mn.us/eco/mcbs/biodiversity_guidelines.html</u>.
- > Information on MCBS Native Plant Communities can be found at <u>http://www.dnr.state.mn.us/npc/index.html</u>.
- Questions? Please contact Lisa Joyal at 651-259-5109 or <u>lisa.joyal@state.mn.us</u>.



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701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

Memorandum

To:	Lisa Joyal, MN Department of Natural Resources
CC:	Ingrid Schwingler, Geronimo Energy Tena Rytel, Geronimo Energy
From:	Alison Harwood, WSB & Associates, Inc.
Date:	March 26, 2014
Re:	Aurora Solar Project – Rare Features Review WSB Project No. 2045-020

On behalf of Geronimo Energy, please find below a summary of the Natural Heritage Information System (NHIS) database search for several project sites associated with the Aurora Solar Project.

The project includes construction/installation of linear arrays of photovoltaic panels, and adjoining equipment enclosed by a chain link fence. Grading of the sites is expected and there is potential that wetlands may be filled.

Each project site, including a 1-mile radius surrounding the site, located within a county covered by WSB's license agreement (LA-685, received September 2013) was reviewed for occurrences of endangered, threatened, or special concern species. **Table 1** below summarizes each investigated site. Review for additional sites in Blue Earth, Chippewa, Kandiyohi, and Waseca counties were requested under a separate cover. **Figure 1** shows the locations of each of the Aurora Solar Project sites within the state.

Table 1: Results of MHIS Database Review			
Site Name	County	PLSS Location	NHIS Results
Albany	Stearns	S8 & 17, T125N, R31W	None
Annandale	Wright	S32, T121N, R27W	None
Chisago	Chisago	S12, T34N, R21W	Multiple – Refer to
			Summary
Dodge Center	Dodge	S32, T107N, R17W	Creek Heelsplitter
Hastings	Washington	S8, T26N, R20W	Multiple – Refer to
			Summary
Lake Emily	Le Sueur	S24, T110N, R26W	Multiple – Refer to
			Summary
Lake Pulaski	Wright	S15, T120N, R25W	None

Table 1: Results of NHIS Database Review

Equal Opportunity Employer

Lawrence Creek	Chisago	S27, T34N, R19W	Multiple – Refer to Summary
Lester Prairie	McLeod	S25, T117N, R27W	None
Mayhew Lake	Benton	S12, T36N, R31W	Multiple – Refer to Summary
Montrose	Wright	S2, T118N, R26W	Trumpeter Swan
Paynesville	Stearns	S4, 8, 9, T122N, R32W	Multiple – Refer to
			Summary
Pipestone	Pipestone	S11, T106N, R46W	Multiple – Refer to
			Summary
Scandia	Chisago	S35, T33N, R20W	None
West Faribault	Rice	S2, T109N, R21W	Rattlesnake-master
West Waconia	Carver	S1, T115N, R26W	None
Wyoming	Chisago	S32, T33N, R21W	Multiple – Refer to
			Summary
Zumbrota	Goodhue	S25, T110N, R16W	Multiple – Refer to
			Summary

Sites for which the NHIS database revealed one or more rare species are discussed below:

Chisago

The following rare species were located within a 1-mile radius of the project site boundary:

- Spike (*Elliptio dilatata*): Special Concern
- Black Sandshell (Ligumia recta): Special Concern
- Tooth-cup (*Rotala ramosior*)*: Threatened
- Blanding's Turtle (Emydoidea blandingii): Threatened
- Creek Heelsplitter (Lasmigona compressa): Special Concern
- Round Pigtoe (*Pleurobema coccineum*): Threatened
- Mucket (Actinonaias ligamentina): Threatened
- Fluted-shell (Lasmigona costata): Special Concern

*Historic Occurrence (>20 years old)

Six of the eight rare species located within one mile of the project site are mussels, which would be located within the streams north and east of the project site. Because the project will not result in filling within or discharge to the streams, impacts to these mussels are not anticipated. The tooth-cup is also not anticipated to be onsite given the lack of appropriate habitat and its historic record (last known occurrence in 1892). The project site primarily consists of regularly cultivated cropland and lesser amounts of woodland and grassland. The specialized habitat (sandy shoreline) needed for the tooth-cup does not exist onsite. The blanding's turtle could potentially use the lesser disturbed portions of the site for nesting habitat, but no wetland habitats exist onsite that would provide over-wintering habitat.

Dodge Center

The following rare species were located within a 1-mile radius of the project site boundary:

• Creek Heelsplitter (Lasmigona compressa)*: Special Concern

*Historic Occurrence (>20 years old)

This mussel was observed more than 20 years ago, and therefore is a historical record. Given the date of the occurrence and the location of the project site (east of Dodge Center Creek), no impacts are anticipated.

<u>Hastings</u>

The following rare species were located within a 1-mile radius of the project site boundary:

- American Ginseng (Panax quinquefolius)*: Special Concern
- Bald Eagle (*Haliaeetus leucocephalus*): Special Concern
- Black Sandshell (*Ligumia recta*): Special Concern
- Blue Sucker (*Cycleptus elongatus*): Special Concern
- Butterfly (*Ellipsaria lineolata*): Threatened
- Creeping Juniper (Juniperus horizontalis): Special Concern
- Ebonyshell (*Fusconaia ebena*): Endangered
- Elephant-ear (*Ellitio crassidens*): Endangered
- Hickorynut (Obovaria olivaria): Special Concern
- Higgins Eye (Lampsilis higginsi): Endangered
- Kitten-tails (*Besseya bullii*)*: Threatened
- Lake Sturgeon (Acipenser fulvescens): Special Concern
- Monkeyface (*Quadrula metanevra*): Threatened
- Paddlefish (*Polyodon spathula*): Threatened
- Pallid Shiner (*Notropis annis*)*: Special Concern
- Peregrine Falcon (*Falco peregrinus*): Threatened
- Pistolgrip (*Tritogonia verrucosa*): Threatened
- Purple Wartyback (*Cyclonaias tuberculata*)*: Threatened
- Red-shouldered Hawk (Buteo lineatus)*: Special Concern
- Rock Pocketbook (*Arcidens confragosus*): Endangered
- Round Pigtoe (*Pleurobema coccineum*): Threatened
- Spike (*Elliptio dilatata*): Special Concern
- Washboard (*Megalonaias nervosa*): Threatened
- Dry Sand Gravel Prairie
- Silver Maple Floodplain Forest

*Historic Occurrence (>20 years old)

Sixteen of the 25 rare species located within one mile of the project site are aquatic species, which would be within the St. Croix and Mississippi rivers located east and south of the project site, respectively. Because the project will not result in filling within or discharge to the rivers, impacts to these aquatic species are not anticipated. Two bald eagle nesting sites are located within approximately 1 mile southeast and southwest of the project site, near the Mississippi

River. Given the distance between the nest sites and project site, construction of the project is not anticipated to disturb the eagles. The remainder of the species and plant communities recently documented near the project site are not anticipated to be impacted, given that the project site is a regularly cultivated agricultural field and does not provide habitat.

Lake Emily

The following rare species were located within a 1-mile radius of the project site boundary:

- Blanding's Turtle (*Emydoidea blandingii*)*: Threatened
- Calcareous Fen

*Historic Occurrence (>20 years old)

The majority of the project site is a regularly cultivated agricultural field, with smaller amounts of wooded and developed areas. The blanding's turtle was a historic occurrence and is not anticipated to be present on the site at this time. Also, given the land use of the area, the presence of a calcareous fen within the project site is unlikely.

Lawrence Creek

The following rare species were located within a 1-mile radius of the project site boundary:

- American Water-Pennywort (*Hydrocotyle americana*)*: Special Concern
- Black Sandshell (*Ligumia recta*)*: Special Concern
- Elktoe (*Alasmidonta marginata*): Threatened
- Fluted-shell (*Lasmigona costata*)*: Special Concern
- Hickorynut (*Obovaria olivaria*): Special Concern
- Louisiana Waterthrush (Seiurus motacilla)*: Special Concern
- Monkeyface (*Quadrula metanevra*): Threatened
- Pistolgrip (*Tritogonia verrucosa*): Threatened
- Purple Wartyback (*Cyclonaias tuberculata*): Threatened
- Round Pigtoe (*Pleurobema coccineum*): Threatened
- Spike (*Elliptio dilatata*): Special Concern
- Stemless Tick-trefoil (Desmodium nudiflorum): Special Concern
- Red Oak –Basswood Forest

*Historic Occurrence (>20 years old)

Nine of the 12 rare species located within one mile of the project site are aquatic species, which would be located within the St. Croix River east of the project site. Because the project will not result in filling within or discharge to the river, impacts to these aquatic species are not anticipated. Two of the remaining rare species are historic occurrences and not likely to be present at the project site. The stemless tick-trefoil is also not anticipated to be located onsite given the landuse of the project site. The project site is primarily a regularly cultivated agricultural field, with lesser amounts of wetland (forested and wet meadow) located near the northern portion of the site. The drier, forested, habitat required by the stemless tick-trefoil is not present on site.

Mayhew Lake

The following rare species were located within a 1-mile radius of the project site boundary:

- Prairie Rich Fen
- Red Oak White Oak Forest
- Wet Prairie

The project site consists of a regularly cultivated agricultural field and farmstead. None of the plant communities listed above are likely to be located within the project site. Cowbane was also listed as being located within 1-mile of the project site. This species is does not have a state status, but is tracked by the DNR. Given the land use on the site, it is not anticipated that this species would be present within the project site.

Montrose

The following rare species were located within a 1-mile radius of the project site boundary:

• Trumpeter Swan (*Cygnus buccinator*): Threatened

The project site does not have any habitat required by trumpeter swans. Therefore, it is not expected that the project would impact this species.

Paynesville

The following rare species were located within a 1-mile radius of the project site boundary:

- Marbled godwit (*Limosa fedoa*): Special Concern
- Regal Fritillary (Speyeria idalia): Special Concern
- Small White Lady's-slipper (*Cypripedium candidu*): Special Concern
- Wilson's Phalarope (*Phalaropus tricolor*): Threatened
- Mesic Prairie
- Wet Prairie

The project site primarily consists of a regularly cultivated agricultural field and lesser amounts of wetland and developed areas. A Wildlife Management Area (WMA) borders the project site to the east. There is potential that species listed above may be present within the wetlands and habitat provided by the WMA.

Pipestone

The following rare species were located within a 1-mile radius of the project site boundary:

- A species of Lichen (*Buellia nigra*): Endangered
- Blackfoot Quillwort (*Isoetes melanopoda*): Endangered
- Buffalo Grass (Buchloe dactyloides): Special Concern
- Dakota Skipper (*Hesperia dacotae*)*: Threatened
- Hairy Water Clover (Marsilea vestita): Endangered
- Henslow's Sparrow (Ammodramus henslo)*: Endangered
- Least Weasel (*Mustela nivalis*)*: Special Concern
- Mud Plantain (*Heteranthera limosa*)*: Threatened
- Plains Prickly Pear (*Opuntia macrorhiza*): Special Concern
- Powesheik Skipper (Oarisma powesheik)*: Special Concern
- Regal Fritillary (Speyeria idalia)*: Special Concern

- Short-pointed Umbrella-sedge (*Cyperus acuminatus*)*: Threatened
- Slender Plantain (*Plantago elongata*): Threatened
- Topeka Shiner (*Notropis topeka*): Special Concern
- Tumblegrass (Schedonnardus paniculatus)*: Special Concern
- Water-hyssop (*Bacopa rotundifolia*)*: Special Concern
- Western Prairie Fringed Orchid (*Platanthera praeclara*): Endangered

*Historic Occurrence (>20 years old)

The project site is located entirely within a regularly cultivated agricultural field. The species listed above that have been recently observed within 1 mile of the project site are not likely to occur within the project site given the specialized habitats required by these species. It is likely that these species occur in the area surrounding Pipestone National Monument, located northeast of the project site, which will not be impacted by the project.

West Faribault

The following rare species were located within a 1-mile radius of the project site boundary:

• Rattlesnake-master (*Eryngium yuccifolium*)*: Special Concern

*Historic Occurrence (>20 years old)

The project site is located primarily within a regularly cultivated agricultural field that contains lesser amounts of upland deciduous forest. Rattlesnake-master was documented within 1-mile of the site more than 20 years ago, and given the land use is not likely to exist within the project site at present time.

Wyoming

The following rare species were located within a 1-mile radius of the project site boundary:

- Blanding's Turtle (*Emydoidea blandingii*): Threatened
- Colonial Waterbird Nesting Site

The project site is located within a regularly cultivated agricultural field. Some of the surrounding areas contain wetland and grassland areas. Given the highly disturbed nature of the project site, it is not anticipated that the Blanding's turtle or waterbirds would utilize the site for nesting habitat.

Zumbrota

The following rare species were located within a 1-mile radius of the project site boundary:

- Tubercled Rein-orchid (Platanthera flava var. herbiola)*: Endangered
- Valerian (Valeriana edulis var. ciliate): Threatened
- White Wild Indigo (*Baptisia alba*)*: Special Concern

* Historic Occurrence (>20 year old)

The project site is located primarily within a regularly cultivated agricultural field that contains lesser amounts of upland deciduous trees along the fence lines. Two of the three species listed by

the NHIS are historical occurrences that date back to the 1800s. It is not expected that these species occur within the project site at the present time. Valerian is also not expected to exist within the project site given the lack of suitable habitat (calcareous fens, wet meadows, and moist prairies).

We are requesting your review of the above information and concurrence that the results of the review are accurate. If you have any questions or need additional information, please contact me at <u>aharwood@wsbeng.com</u> or 763-231-4847.

Attachments





engineering · planning · environmental · construction

701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Ms. Lisa Joyal Endangered Species Review Coordinator Division of Ecological and Water Resources Minnesota Department of Natural Resources 500 Lafayette Road, Box 25 St. Paul, MN 55155

RE: Aurora Solar Power Project Sites – Atwater, Eastwood, Fiesta City & Waseca Solar NHIS Data Request WSB Project No. 02045-020

Dear Ms. Joyal:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Kandiyohi	SE ¼ of the SW ¼ of Sec 1, T119N, R33W
Blue Earth	SE ¼ of Sec 14, T108N, R26W
Chippewa	NE ¼ of the SW ¼ of Sec 9, T117N, R40W
Waseca	NE ¼ of Sec 1, T107N, R23W

St. Cloud • Minneapolis • St. Paul Equal Opportunity Employer wsbeng.com The remaining sites were located in counties covered under NHIS Agreement LA-685. These sites were reviewed for rare features by WSB.

Please review the project areas and provide recommendations related to the presence of state threatened or endangered species or critical habitats that may be affected. The Minnesota Natural Heritage Information System Data Request Form is attached.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the the

Alison Harwood Environmental Scientist

Attachments

NO STAPLES
PLEASE

For Agency U Only:

For Agency Use Only Received		RUSH	
Related ERDB#			
Search Radiusn	ni. ER/All	Map'd	EOs
NoR/ NoC/ NoE/ Std/ S	ub Let	Inv	Log out

MINNESOTA NATURAL HERITAGE INFORMATION SYSTEM (NHIS) DATA REQUEST FORM

DATE OF REQU	EST			
•	STING THE INFORI	MATION?		
Mailing Address				
	(Street)	(City)	(State)	(Zip Code)
Phone	FA	X e-mail		
WHAT INFORM	ATION DO YOU NE	ED? Preferred Reply Metho	od: Email	US Mail
and aggrunds.	egation sites such as bat With Environmental Re of information listed at With Environmental Re escribe)	ove, plus geological features and state view Drintouts Only; N	g sites, and pra o Review Need rare species w o Review Need	irie chicken booming ded ith no legal status.
 Enclose a If possible 	, please provide a Gl	oundary (topographic maps or aerial S shapefile (NAD 83, UTM Zone 1 ormation (attach additional sheets if	15N) of the p	
<u>County</u>	Township # Range #	Section(s) (please list all section	s)	
4) Please pro	vide the following inf	ormation (attach additional sheets i	f necessary):	
Project Name				
5 1	ct Description (see ins			

Current/Past Land-Use of Project Site

5) You will be provided with a response letter, an index database printout, and a detailed database printout. **Describe how you plan to use this information**, <u>including</u> in what form and detail, if any, you wish to publish this information. (Please note that we do not generally give permission to publish the detailed database printout.)

TURN-AROUND TIME

Requests generally take **3 weeks** from date of receipt to process, and are processed in the order received. Rush requests are processed in 2 weeks or less, and include an extra fee.

FEES

For-profit organizations, including consultants working for governmental agencies, are charged a fee for this service. In addition, **a fee may be charged for large requests from any source.** A surcharge of \$50 is applied for ALL **rush orders;** if this is a rush order, please check the blank below. All fees are subject to change. Please do <u>not</u> include payment with your request; an invoice will be sent to you.

Rush - (\$50 fee for ALL rush orders)

"The information supplied above is complete and accurate. I understand that material supplied to me from the Minnesota Natural Heritage Information System is copyrighted and that I am not permitted to reproduce or publish any of this copyrighted material without prior written permission from the Minnesota DNR. Further, if permission to publish is given, I understand that I must credit the Minnesota Natural Heritage and Nongame Research Program, Minnesota Department of Natural Resources as the source of the material."

	Signature	nec
	(required)	
Mail or email completed forms to:		For further information call:
Lisa Joyal <i>(for environmental reviews; e.g</i> Endangered Species Environmental Review O <u>lisa.joyal@dnr.state.mn.us</u> or		(651) 259-5109
Sharron Nelson <i>(for general requests)</i> Assistant Database Manager <u>sharron.nelson@dnr.state.mn.us</u> at		(651) 259-5123
Natural Heritage and Nongame Research Pro Minnesota Department of Natural Resources 500 Lafayette Road, Box 25 St. Paul, Minnesota 55155	gram	
Or FAX completed forms to: (651) 296-	1811	
	atural Heritage & Nongame Researce e.mn.us/ecological_services/nhnrp/in	
For Agency Use Only: EO's requiring comment		
Sources contacted Topic	Response	

Response Summary _____

Responder _____

Instructions for the Minnesota Natural Heritage Information System Data Request Form

Please read the following!

- There is generally a **3-week turn-around time** to process requests. Rush requests (2 week turnaround) are charged an additional \$50 (Please note that the rush fee applies to all rush requests regardless of non-profit or government status).
- Legible **maps** clearly showing the location and boundaries of the project (**including associated infrastructure**) are required for processing all data requests. Topographic maps or aerial photographs are preferred.
- If the project boundary is large **or** complex, please provide a **GIS shapefile** (NAD 83, UTM Zone 15) of the project boundary. An additional "digitizing fee" (regardless of non-profit or government status) will be charged for projects that require a substantial amount of time to digitize.
- Please provide a detailed **project description**, attaching separate pages to the form if necessary. Identify the type of development (e.g., housing, commercial, utility, ethanol facility) being proposed, the size and # of units (if applicable), construction methods, and **any associated infrastructure** such as access roads, utility connections, and water supply and/or discharge pipelines.
- **Signatures** are required. The person whose name is entered on the form under the "Who is Requesting the Information" section must sign the form as an acknowledgment of the State of Minnesota's copyright on all generated printouts.
- We cannot begin processing data requests until we receive all parts of the request, including a map and a completed, signed information request form. Our reply due date will be 3 weeks (2 weeks for a rush job) from when we receive a complete request.
- **Responses** are returned to the person whose name is entered on the form under the "Who is Requesting the Information?" section.
- On the form, note the first sentence under the subheading "**FEES**". As a courtesy, we currently provide database searches to other governmental agencies and non-profit entities free of charge. For-profit entities, *including* consultants working for governmental agencies, are charged a fee. Please do *not* include payment with your request; an invoice will be sent to you.
- An **electronic copy** of the form is available at the DNR's web site <u>http://files.dnr.state.mn.us/ecological_services/nhnrp/nhis_data_request.pdf</u>
- You may reproduce this form for your own use or to distribute.

Ingrid M. Schwingler

From:	Alison Harwood <aharwood@wsbeng.com></aharwood@wsbeng.com>
Sent:	Monday, May 12, 2014 9:33 AM
To:	Lisa Joyal (lisa.joyal@dnr.state.mn.us)
Cc:	Ingrid M. Schwingler; Tena Rytel; Carli Ewert; Andi Moffatt
Subject:	RE: Aurora Solar Project - Rare Species Review
Follow Up Flag:	Follow up
Flag Status:	Flagged

Good morning Lisa,

As you recall, back in March WSB performed a review of several project areas associated with the Aurora Solar Project on behalf of Geronimo Energy. Two project areas, Brooten and Pine Island, we mistakenly omitted from that review. Below is a link where you can view and download the NHIS review for these additional sites. The shapefile that I sent you previously includes the Pine Island Facility project area. The shapefile for the Brooten Facility project area is available for download via the link.

Please let me know if you have any questions or need additional information to complete your review. We appreciate your review and comment within 30 days. Also, I will be out of the office on maternity leave in the coming weeks, so please copy everyone on this email with your response.

Link to documents (expires after 30 days): https://wsbeng.securevdr.com/d/s74d543366fc42a0a

Thank you,

Alison Harwood Environmental Planning & Natural Resources Scientist d: 763-231-4847 | c: 612-360-1320 WSB & Associates, Inc. | 701 Xenia Avenue South, Suite 300 | Minneapolis, MN 55416

WSB and McGhie & Betts, Inc. have joined forces! McGhie & Betts is now a Division of WSB, providing a presence in Rochester and Northfield, MN.



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This email, and any files transmitted with it, is confidential and is intended solely for the use of the addressee. If you are not the addressee, please delete this email from your system. Any use of this email by unintended recipients is strictly prohibited. WSB & Associates, Inc. does not accept liability for any errors or omissions which arise as a result of electronic transmission. If verification is required, please request a hard copy.

From: Alison Harwood
Sent: Wednesday, March 26, 2014 2:12 PM
To: Lisa Joyal (<u>lisa.joyal@dnr.state.mn.us</u>)
Cc: Ingrid Schwingler (Vick) (<u>Ingrid@geronimoenergy.com</u>); Tena Rytel (<u>Tena@geronimoenergy.com</u>)
Subject: Aurora Solar Project - Rare Species Review

Lisa,

On behalf of Geronimo Energy, WSB completed a review of the NHIS database for the sites associated with the Aurora Solar Project that we have data for through on our license agreement with the DNR. We are requesting review of our findings and concurrence that they are accurate.

If you have any questions or need additional information, please contact me.

Thank you,



Minnesota Department of Natural Resources (MNDNR)-National Heritage Information System (NHIS)

Responses from MNDNR-NHIS

Alison Harwood

From: Sent: To:	Joyal, Lisa (DNR) <lisa.joyal@state.mn.us> Thursday, May 01, 2014 4:08 PM Alison Harwood</lisa.joyal@state.mn.us>
Cc:	Schrenzel, Jamie (DNR); Mixon, Kevin (DNR); Haworth, Brooke (DNR)
Subject:	Aurora Solar Project - Rare Resources Review
Attachments:	MEMO - LJoyal - NHIS Summary - 032614.pdf; Ebfactsheet2008.pdf; Ebflyer 2012.pdf; Wildlife Friendly Erosion Control(acc).pdf; WOODTURTLE CAUTION for Construction_Final.pdf

I have reviewed your assessment of the potential for the above project to impact rare features, and believe that your assessment is incomplete. It should be noted that the proposed project has the potential to negatively impact the following rare resources:

Chisago Site, Scandia Site, and Wyoming Site

The Chisago Site and Wyoming Site are within areas of statewide importance to the Blanding's Turtle (*Emydoidea blandingii*), a state-listed threatened species. These areas are relied upon to maintain the species' security within Minnesota, and the DNR considers them of the highest priority for Blanding's turtle research and management activities. Although the Scandia Site is not within an identified area of statewide importance, Blanding's turtles have been reported from the vicinity and may be encountered on site.

Given that Blanding's turtles use upland areas (including agricultural lands) for nesting and traveling, it is inaccurate to state that impacts will be avoided due to siting within agricultural lands. For your information, I have attached a Blanding's turtle fact sheet that describes the habitat use and life history of this species. The fact sheet also provides two lists of recommendations for avoiding and minimizing impacts to this rare turtle. The first list is relevant for all areas inhabited by Blanding's turtles while the second list contains additional protective measures for areas known to be of statewide importance to this species. As such, please refer to both lists of recommendations for the Chisago Site and the Wyoming Site. In addition, if erosion control mesh will be used, I recommend that the mesh be limited to wildlife-friendly materials (see enclosed fact sheet).

The attached flyer should be given to all contractors working in the area. If Blanding's turtles are encountered on site, please remember that state law and rules prohibit the destruction of threatened or endangered species, except under certain prescribed conditions. If turtles are in imminent danger they should be moved by hand out of harm's way, otherwise they should be left undisturbed. Once security fencing is complete, measures should be taken to ensure that no turtles are trapped within the fence. Any sightings of this rare species should be reported to the DNR.

Dodge Center Site

Wood turtles (*Clemmys insculpta*), a state-listed threatened species, have been documented in the vicinity of this site. Wood turtles are a semi-aquatic species, spending time both on land (including agricultural lands) and in water. If wood turtles are encountered on site, they should be moved by hand to the nearest stream edge. Please remember that state law and rules prohibit the destruction of threatened or endangered species, except under certain prescribed conditions. Please see the attached fact sheet for further recommendations on avoiding and minimizing impacts to this rare turtle. To minimize destruction of wood turtle habitat, the DNR recommends that the wooded areas within this site be considered avoidance areas. Also, all contractors working in the area should be made aware of the potential to encounter these rare turtles, and encounters should be reported to the DNR.

A wooded portion of the Dodge Center Site is within an area that the Minnesota Biological Survey (MBS) has identified as a Site of Moderate Biodiversity Significance. Sites of Biodiversity Significance have varying levels of native biodiversity and are ranked based on the relative significance of this biodiversity at a statewide level. Sites ranked as Moderate contain occurrences of rare species and/or moderately disturbed native plant communities, and/or landscapes that have a strong potential for recovery. This particular Site of Biodiversity Significance contains two rare native plant communities including the Southern Wet-Mesic Hardwood Forest that extends into the Dodge Center Site. This native plant community is considered vulnerable to extirpation within Minnesota. Given the ecological significance of this MBS Site, the DNR recommends that it be considered an avoidance area. Indirect impacts from surface runoff or the spread of invasive species should also be considered during project design and implementation.

Paynesville Site

A portion of the Paynesville Site is within an area that the Minnesota Biological Survey (MBS) has identified as a Site of High Biodiversity Significance. Sites of Biodiversity Significance have varying levels of native biodiversity and are ranked based on the relative significance of this biodiversity at a statewide level. Sites ranked as High contain very good quality occurrences of the rarest species, high quality examples of the rare native plant communities, and/or important functional landscapes. While there are no known occurrences of rare species or native plant communities within the portion of the MBS Site in the Paynesville project area, several rare resources have been documented within the remaining portion of the MBS Site. The MBS Site contains Willow-Dogwood Shrub Swamp interspersed with Mesic Prairie and Wet Prairie. Both types of prairie have a conservation status rank of 2, indicating that these native plant communities are considered imperiled in Minnesota. The MBS Site also contains known occurrences of the regal fritillary (*Speyeria idalia*) and small white lady's-slipper (*Cypripedium candidum*), both state-listed as special concern. Given the ecological significance of this MBS Site, we recommend that it be considered an avoidance area.

Any environmental review document should address whether the proposed project has the potential to adversely affect the above rare resources and, if so, it should identify specific avoidance or mitigation measures that will be implemented.

The reference number for this correspondence is ERDB #20140201.

Thank you for notifying us of this project, and for the opportunity to provide comments.

Sincerely,

Lísa Joyal

Lisa Joyal Endangered Species Review Coordinator NHIS Data Distribution Coordinator Division of Ecological and Water Resources Minnesota Department of Natural Resources 500 Lafayette Road, Box 25 St. Paul, MN 55155

phone: 651-259-5109 lisa.joyal@state.mn.us www.mndnr.gov/eco

Endangered, Threatened, and Special Concern Species of Minnesota

Blanding's Turtle

(Emydoidea blandingii)

Minnesota Status:	Threatened	State Rank ¹ :	
Federal Status:	none	Global Rank ¹ :	G4

HABITAT USE

Blanding's turtles need both wetland and upland habitats to complete their life cycle. The types of wetlands used include ponds, marshes, shrub swamps, bogs, and ditches and streams with slow-moving water. In Minnesota, Blanding's turtles are primarily marsh and pond inhabitants. Calm, shallow water bodies (Type 1-3 wetlands) with mud bottoms and abundant aquatic vegetation (e.g., cattails, water lilies) are preferred, and extensive marshes bordering rivers provide excellent habitat. Small temporary wetlands (those that dry up in the late summer or fall) are frequently used in spring and summer -- these fishless pools are amphibian and invertebrate breeding habitat, which provides an important food source for Blanding's turtles. Also, the warmer water of these shallower areas probably aids in the development of eggs within the female turtle. Nesting occurs in open (grassy or brushy) sandy uplands, often some distance from water bodies. Frequently, nesting occurs in traditional nesting grounds on undeveloped land. Blanding's turtles have also been known to nest successfully on residential property (especially in low density housing situations), and to utilize disturbed areas such as farm fields, gardens, under power lines, and road shoulders (especially of dirt roads). Although Blanding's turtles may travel through woodlots during their seasonal movements, shady areas (including forests and lawns with shade trees) are not used for nesting. Wetlands with deeper water are needed in times of drought, and during the winter. Blanding's turtles overwinter in the muddy bottoms of deeper marshes and ponds, or other water bodies where they are protected from freezing.

LIFE HISTORY

Individuals emerge from overwintering and begin basking in late March or early April on warm, sunny days. The increase in body temperature which occurs during basking is necessary for egg development within the female turtle. Nesting in Minnesota typically occurs during June, and females are most active in late afternoon and at dusk. Nesting can occur as much as a mile from wetlands. The nest is dug by the female in an open sandy area and 6-15 eggs are laid. The female turtle returns to the marsh within 24 hours of laying eggs. After a development period of approximately two months, hatchlings leave the nest from mid-August through early-October. Nesting females and hatchlings are often at risk of being killed while crossing roads between wetlands and nesting areas. In addition to movements associated with nesting, all ages and both sexes move between wetlands from April through November. These movements peak in June and July and again in September and October as turtles move to and from overwintering sites. In late autumn (typically November), Blanding 's turtles bury themselves in the substrate (the mud at the bottom) of deeper wetlands to overwinter.

IMPACTS / THREATS / CAUSES OF DECLINE

- loss of wetland habitat through drainage or flooding (converting wetlands into ponds or lakes)
- loss of upland habitat through development or conversion to agriculture
- human disturbance, including collection for the pet trade* and road kills during seasonal movements
- increase in predator populations (skunks, raccoons, etc.) which prey on nests and young

*It is illegal to possess this threatened species.

RECOMMENDATIONS FOR AVOIDING AND MINIMIZING IMPACTS

These recommendations apply to typical construction projects and general land use within Blanding's turtle habitat, and are provided to help local governments, developers, contractors, and homeowners minimize or avoid detrimental impacts to Blanding's turtle populations. List 1 describes minimum measures which we recommend to prevent harm to Blanding's turtles during construction or other work within Blanding's turtle habitat. List 2 contains recommendations which offer even greater protection for Blanding's turtles populations; this list should be used *in addition to the first list* in areas which are known to be of state-wide importance to Blanding's turtles (contact the DNR's Natural Heritage and Nongame Research Program if you wish to determine if your project or home is in one of these areas), or in any other area where greater protection for Blanding's turtles is desired.

List 1. Recommendations for all areas inhabited by Blanding's turtles.	List 2. <i>Additional</i> recommendations for areas known to be of state-wide importance to Blanding's turtles.		
GEN	GENERAL		
A flyer with an illustration of a Blanding's turtle should be given to all contractors working in the area. Homeowners should also be informed of the presence of Blanding's turtles in the area.	Turtle crossing signs can be installed adjacent to road- crossing areas used by Blanding's turtles to increase public awareness and reduce road kills.		
Turtles which are in imminent danger should be moved, by hand, out of harms way. Turtles which are not in imminent danger should be left undisturbed.	Workers in the area should be aware that Blanding's turtles nest in June, generally after 4pm, and should be advised to minimize disturbance if turtles are seen.		
If a Blanding's turtle nests in your yard, do not disturb the nest.	If you would like to provide more protection for a Blanding's turtle nest on your property, see "Protecting Blanding's Turtle Nests" on page 3 of this fact sheet.		
Silt fencing should be set up to keep turtles out of construction areas. It is <u>critical</u> that silt fencing be removed after the area has been revegetated.	Construction in potential nesting areas should be limited to the period between September 15 and June 1 (this is the time when activity of adults and hatchlings in upland areas is at a minimum).		
WETL	ANDS		
Small, vegetated temporary wetlands (Types 2 & 3) should not be dredged, deepened, filled, or converted to storm water retention basins (these wetlands provide important habitat during spring and summer).	Shallow portions of wetlands should not be disturbed during prime basking time (mid morning to mid- afternoon in May and June). A wide buffer should be left along the shore to minimize human activity near wetlands (basking Blanding's turtles are more easily disturbed than other turtle species).		
Wetlands should be protected from pollution; use of fertilizers and pesticides should be avoided, and run-off from lawns and streets should be controlled. Erosion should be prevented to keep sediment from reaching wetlands and lakes.	Wetlands should be protected from road, lawn, and other chemical run-off by a vegetated buffer strip at least 50' wide. This area should be left unmowed and in a natural condition.		
ROA	ADS		
Roads should be kept to minimum standards on widths and lanes (this reduces road kills by slowing traffic and reducing the distance turtles need to cross).	Tunnels should be considered in areas with concentrations of turtle crossings (more than 10 turtles per year per 100 meters of road), and in areas of lower density if the level of road use would make a safe crossing impossible for turtles. Contact your DNR Regional Nongame Specialist for further information on wildlife tunnels.		
Roads should be ditched, not curbed or below grade. If curbs must be used, 4 inch high curbs at a 3:1 slope are preferred (Blanding's turtles have great difficulty climbing traditional curbs; curbs and below grade roads trap turtles on the road and can cause road kills).	Roads should be ditched, not curbed or below grade.		

ROAD	PS cont.
Culverts between wetland areas, or between wetland areas and nesting areas, should be 36 inches or greater in diameter, and elliptical or flat-bottomed.	Road placement should avoid separating wetlands from adjacent upland nesting sites, or these roads should be fenced to prevent turtles from attempting to cross them (contact your DNR Nongame Specialist for details).
Wetland crossings should be bridged, or include raised roadways with culverts which are 36 in or greater in diameter and flat-bottomed or elliptical (raised roadways discourage turtles from leaving the wetland to bask on roads).	Road placement should avoid bisecting wetlands, or these roads should be fenced to prevent turtles from attempting to cross them (contact your DNR Nongame Specialist for details). This is especially important for roads with more than 2 lanes.
Culverts under roads crossing streams should be oversized (at least twice as wide as the normal width of open water) and flat-bottomed or elliptical.	Roads crossing streams should be bridged.
UTIL	ITIES
Utility access and maintenance roads should be kept to a minimum (this reduces road-kill potential).	
Because trenches can trap turtles, trenches should be checked for turtles prior to being backfilled and the sites should be returned to original grade.	
LANDSCAPING AND VEG	ETATION MANAGEMENT
Terrain should be left with as much natural contour as possible.	As much natural landscape as possible should be preserved (installation of sod or wood chips, paving, and planting of trees within nesting habitat can make that habitat unusable to nesting Blanding's turtles).
Graded areas should be revegetated with native grasses and forbs (some non-natives form dense patches through which it is difficult for turtles to travel).	Open space should include some areas at higher elevations for nesting. These areas should be retained in native vegetation, and should be connected to wetlands by a wide corridor of native vegetation.
Vegetation management in infrequently mowed areas such as in ditches, along utility access roads, and under power lines should be done mechanically (chemicals should not be used). Work should occur fall through spring (after October 1 st and before June 1 st).	Ditches and utility access roads should not be mowed or managed through use of chemicals. If vegetation management is required, it should be done mechanically, as infrequently as possible, and fall through spring (mowing can kill turtles present during mowing, and makes it easier for predators to locate turtles crossing roads).

Protecting Blanding's Turtle Nests: Most predation on turtle nests occurs within 48 hours after the eggs are laid. After this time, the scent is gone from the nest and it is more difficult for predators to locate the nest. Nests more than a week old probably do not need additional protection, unless they are in a particularly vulnerable spot, such as a yard where pets may disturb the nest. Turtle nests can be protected from predators and other disturbance by covering them with a piece of wire fencing (such as chicken wire), secured to the ground with stakes or rocks. The piece of fencing should measure at least 2 ft. x 2 ft., and should be of medium sized mesh (openings should be about 2 in. x 2 in.). It is *very important* that the fencing be **removed** <u>before August 1St</u> so the young turtles can escape from the nest when they hatch!

REFERENCES

- ¹Association for Biodiversity Information. "Heritage Status: Global, National, and Subnational Conservation Status Ranks." NatureServe. Version 1.3 (9 April 2001). <u>http://www.natureserve.org/ranking.htm</u> (15 April 2001).
- Coffin, B., and L. Pfannmuller. 1988. Minnesota's Endangered Flora and Fauna. University of Minnesota Press, Minneapolis, 473 pp.

REFERENCES (cont.)

- Moriarty, J. J., and M. Linck. 1994. Suggested guidelines for projects occurring in Blanding's turtle habitat. Unpublished report to the Minnesota DNR. 8 pp.
- Oldfield, B., and J. J. Moriarty. 1994. Amphibians and Reptiles Native to Minnesota. University of Minnesota Press, Minneapolis, 237 pp.
- Sajwaj, T. D., and J. W. Lang. 2000. Thermal ecology of Blanding's turtle in central Minnesota. Chelonian Conservation and Biology 3(4):626-636.

CAUTION





BLANDING'S TURTLES MAY BE ENCOUNTERED IN THIS AREA

The unique and rare Blanding's turtle has been found in this area. Blanding's turtles are state-listed as Threatened and are protected under Minnesota Statute 84.095, Protection of Threatened and Endangered Species. Please be careful of turtles on roads and in construction sites. For additional information on turtles, or to report a Blanding's turtle sighting, contact the DNR Nongame Specialist nearest you: Bemidji (218-308-2653); Grand Rapids (218-327-4518); New Ulm (507-359-6033); Rochester (507-206-2820); or St. Paul (651-259-5772).

DESCRIPTION: The Blanding's turtle is a medium to large turtle (5 to 10 inches) with a black or dark blue, dome-shaped shell with muted yellow spots and bars. The bottom of the shell is hinged across the front third, enabling the turtle to pull the front edge of the lower shell firmly against the top shell to provide additional protection when threatened. The head, legs, and tail are dark brown or blue-gray with small dots of light brown or yellow. A distinctive field mark is the bright yellow chin and neck.

BLANDING'S TURTLES DO NOT MAKE GOOD PETS IT IS ILLEGAL TO KEEP THIS THREATENED SPECIES IN CAPTIVITY

SUMMARY OF RECOMMENDATIONS FOR AVOIDING AND MINIMIZING IMPACTS TO BLANDING'S TURTLE POPULATIONS

(see Blanding's Turtle Fact Sheet for full recommendations)

- This flyer should be given to all contractors working in the area. Homeowners should also be informed of the presence of Blanding's turtles in the area.
- Turtles that are in imminent danger should be moved, by hand, out of harm's way. Turtles that are not in imminent danger should be left undisturbed to continue their travel among wetlands and/or nest sites.
- If a Blanding's turtle nests in your yard, do not disturb the nest and do not allow pets near the nest.
- Silt fencing should be set up to keep turtles out of construction areas. It is <u>critical</u> that silt fencing be removed after the area has been revegetated.
- Small, vegetated temporary wetlands should not be dredged, deepened, or filled.
- All wetlands should be protected from pollution; use of fertilizers and pesticides should be avoided, and run-off from lawns and streets should be controlled. Erosion should be prevented to keep sediment from reaching wetlands and lakes.
- Roads should be kept to minimum standards on widths and lanes.
- Roads should be ditched, not curbed or below grade. If curbs must be used, 4" high curbs at a 3:1 slope are preferred.
- Culverts under roads crossing wetland areas, between wetland areas, or between wetland and nesting areas should be at least 36 in. diameter and flat-bottomed or elliptical.
- Culverts under roads crossing streams should be oversized (at least twice as wide as the normal width of open water) and flat-bottomed or elliptical.
- Utility access and maintenance roads should be kept to a minimum.
- Because trenches can trap turtles, trenches should be checked for turtles prior to being backfilled and the sites should be returned to original grade.
- Terrain should be left with as much natural contour as possible.
- Graded areas should be revegetated with native grasses and forbs.
- Vegetation management in infrequently mowed areas -- such as in ditches, along utility access roads, and under power lines -- should be done mechanically (chemicals should not be used). Work should occur fall through spring (after October 1st and before June 1st).

Compiled by the Minnesota Department of Natural Resources Division of Ecological and Water Resources, Updated August 2012 Endangered Species Review Coordinator, 500 Lafayette Rd., Box 25, St. Paul, MN 55155 / 651-259-5109

CAUTION



Wood Turtles MAY BE ENCOUNTERED IN THIS AREA

The unique and rare wood turtle has been found in this area. Wood turtles are a State Threatened species and are protected under Minnesota Statute 84.095, Protection of Threatened and Endangered Species. Please be careful of turtles on roads and in construction sites. Turtles should be moved offsite to the nearest stream edge. Information and recommendations on wood turtles can be found on the back of this notice. Additional information on turtles can be obtained from Ecological Services, Nongame Wildlife Program, Box 25, DNR Building, 500 Lafayette Rd., St. Paul, MN 55155 (651) 259-5122.

Wood Turtle Life History Information

Description: The wood turtle is a medium-sized turtle with a dark green to brown, sculpted shell. The bottom of the shell is yellow with black blotches on the edges. The skin on the soft body parts near the shell is yellow; otherwise the legs, head and tail are brown. A distinctive field mark is the generally highly "carved" look to the top of the shell. However, an older turtle's shell may be worn smooth. Adult wood turtles have an average shell length of 5 ½ to 8 inches. They are normally terrestrial from April through October

Habitat: Wood turtles are found in and along mid-sized rivers and their tributaries flowing through open to wooded areas. During the spring, female wood turtles are often found on land, basking and preparing for nesting. Male wood turtles are also found on land, but they are usually closer to the water than the females. Once the females have laid their eggs, they often remain on land for the rest of the summer, foraging on plants, insects and worms. They will forage in crop fields and disturbed areas along the rivers, making them susceptible to harm from farm machinery. Wood turtles seem to prefer a habitat that includes grass fields and wooded areas. They will also use seasonal woodland pools.

Life History: After 5-6 months underwater in semi-hibernation, individuals emerge in late March or early April, depending on the season. They can be found along the water's edge and up to 400 yards away from the river. To regulate body temperature, turtles will bask for a period of time, and then seek shade. They may bury themselves in vegetation such as reed canary grass, or hide under log piles along the river. Nesting occurs in early to mid-June, and the females generally lay their eggs in the evening, nesting in an open sandy area along the river or on a south to southwest facing sandy bank along the river. They will also nest along the sides of roads if the soil is sandy. After a development period of 58-71 days, hatchlings leave the nest and travel to water. Wood turtles are mild mannered and do not attempt to bite. Adults are particularly vulnerable to being struck by automobiles while crossing roads, or hit by farm machinery in crop fields adjacent to rivers.

Recommendations: The DNR offers the following land use guidelines so that as little harm as possible comes to these rare turtles.

- Workers should be informed of the presence of wood turtles in the area.
- When working near a river, silt fencing should be put in place by mid-March, to keep turtles out of construction area. These fences need to be maintained throughout the project. It is critical that silt fences are removed after the area has been revegetated.
- Do not leave sand piles along river, as they may be used for nesting.
- Terrain should be left with as much natural contour as possible. Graded areas should be re-vegetated with native grasses and forbs. Use of fertilizers and pesticides should be avoided.
- Erosion should be prevented from reaching wetlands and river.
- Landscaping should be left as natural as possible; trees should not be planted in known or potential nesting sites.
- Roads should be kept to minimal standards on widths and lanes.
- Roads should be ditched, not curbed or below grade. If curbs must be used, 4" curbs at a 3:1 slope are preferred. Curbs and below grade roads trap turtles on the road, increasing road kills.
- Ditches should not be mowed until after October 1st.
- Report sightings of wood turtles to the DNR Regional Nongame Specialist.

Wildlife Friendly Erosion Control

Wildlife entanglement in, and death from, plastic netting and other man-made plastic materials has been documented in birds (Johnson, 1990; Fuller-Perrine and Tobin, 1993), fish (Johnson, 1990), mammals (Derraik, 2002), and reptiles (Barton and Kinkead, 2005; Kapfer and Paloski, 2011). Yet the use of these materials continues in many cases, without consideration for wildlife impacts. Plastic netting is frequently used for erosion control during construction and landscape projects and can negatively impact terrestrial and aquatic wildlife populations as well as snag in maintenance machinery resulting in costly repairs and delays. However, wildlife friendly erosion control materials do exist, and are sold by several large erosion control material companies. Below are a few key considerations before starting a project.

Know Your Options

- Remember to consult with local natural resource authorities (DNR, USFWS, etc.) before starting a project. They can help you identify sensitive areas and rare species.
- When erosion control is necessary, select products with biodegradable netting (natural fiber, biodegradable polyesters, etc.).
- DO NOT use products that require UV-light to biodegrade (also called, "photodegradable"). These do not biodegrade properly when shaded by vegetation.
- Use netting with rectangular shaped mesh (not square mesh).
- Use netting with flexible (non-welded) mesh.

Know the Landscape

- It is especially important to use wildlife friendly erosion control around:
 - 0 Areas with threatened or endangered species.
 - Wetlands, rivers, lakes, and other watercourses. 0
 - Habitat transition zones (prairie woodland 0 edges, rocky outcrop - woodland edges, steep rocky slopes, etc.).
 - Areas with threatened or endangered species. 0
- Use erosion mesh wisely, not all areas with disturbed ground necessitate its use. Do not use

plastic mesh unless it is specifically required. Other erosion control options exist (open weave textile (OWT), rolled erosion control products (RECPs) with woven natural fiber netting).



along a central Minnesota stream. ©MN DNR, Nick Proulx



Fish trapped and killed by welded-plastic square erosion control mesh improperly placed along a small central Minnesota stream. Photo courtesy of Ben Lowe.

Protect Wildlife

- Avoid photodegradable erosion control materials where possible.
- Use only biodegradable materials (typically made from natural fibers), preferably those that will biodegrade under a variety of conditions.
- Wildlife friendly erosion control material costs are often similar to conventional plastic netting.



Plains Gartersnake trapped and killed by welded-plastic square erosion control mesh placed along a newly installed cement culvert in southern Minnesota. ©MN DNR, Carol Hall



A small vole that was strangled and killed by plastic erosion control material with welded and square mesh. Photo taken in southern Minnesota and provided courtesy of Tom Jessen.





Literature Referenced

Barton, C. and K. Kinkead. 2005. Do erosion control and snakes mesh? Soil and Water Conservation Society 60:33A-35A.

Derraik, J.G.B. 2002. The pollution of the marine environment by plastic debris: a aeview. Marine Pollution Bulletin 44:842-852.

Fuller-Perrine, L.D., and M.E. Tobin. 1993. A method for applying and removing bird-exclusion netting in commercial vineyards. Wildlife Society Bulletin 21:47-51.

Johnson, S.W. 1990. Distribution, abundance, and source of entanglement debris and other plastics on Alaskan beaches, 1982-1988. Proceedings of the Second International Conference on Marine Debris 331-348.

Kapfer, J. M., and R. A. Paloski. 2011. On the threat to snakes of mesh deployed for erosion control and wildlife exclusion. Herpetological Conservation and Biology 6:1-9.



Minnesota Department of Natural Resources

Division of Ecological and Water Resources, Box 25

500 Lafayette Road

St. Paul, Minnesota 55155-4025

Phone: (651) 259-5109 E-mail: lisa.joyal@state.mn.us

February 19, 2014

Correspondence # ERDB 20140201

Ms. Alison Harwood WSB & Associates, Inc. 701 Xenia Avenue South, Suite 300 Minneapolis, MN 55416

RE: Natural Heritage Review of the proposed Aurora Solar Power; Kandiyohi, Blue Earth, Chippewa, & Waseca Counties

Dear Ms. Harwood,

As requested, the above project has been reviewed for potential effects to known occurrences of rare features. A search of the Minnesota Natural Heritage Information System did identify rare features within an approximate one-mile radius of the proposed project, but these records did not include any federally listed species and were either historical or not of concern given the project details that were provided with the data request form. As such, I do not believe the proposed project will adversely affect any known occurrences of rare features.

The Natural Heritage Information System (NHIS), a collection of databases that contains information about Minnesota's rare natural features, is maintained by the Division of Ecological and Water Resources, Department of Natural Resources. The NHIS is continually updated as new information becomes available, and is the most complete source of data on Minnesota's rare or otherwise significant species, native plant communities, and other natural features. However, the NHIS is not an exhaustive inventory and thus does not represent all of the occurrences of rare features within the state. Therefore, ecologically significant features for which we have no records may exist within the project area.

For environmental review purposes, the results of this Natural Heritage Review are valid for one year; the results are only valid for the project location (noted above) and project description provided on the NHIS Data Request Form. Please contact me if project details change or if an updated review is needed.

Please note that location of the Canada lynx (*Lynx canadensis*), federally-listed as threatened, is not currently tracked in the NHIS. As such, the Natural Heritage Review does not address this species.

Furthermore, the Natural Heritage Review does not constitute review or approval by the Department of Natural Resources as a whole. Instead, it identifies issues regarding known occurrences of rare features and potential effects to these rare features. Additional rare features for which we have no data may be present in the project area, or there may be other natural resource concerns associated with the proposed project. For these concerns, please contact your DNR Regional Environmental Assessment Ecologist (contact information available at http://www.dnr.state.mn.us/eco/ereview/erp regioncontacts.html). Please be aware that additional site assessments or review may be required.

Thank you for consulting us on this matter, and for your interest in preserving Minnesota's rare natural resources. An invoice will be mailed to you under separate cover.

Sincerely,

Samarden Bus

Samantha Bump NHIS Review Specialist



Minnesota Pollution Control Agency (MPCA) Correspondence to MPCA



June 30, 2014

Mr. Noel Kepler Minnesota Pollution Control Agency 520 Lafayette Road N St. Paul, MN 55155

RE: Aurora Distributed Solar Project– Pine Island Facility Request for Comments

Dear Mr. Kepler,

Your review was requested in May 2014 by Aurora Distributed Solar, LLC (Geronimo Energy) via WSB & Associates (WSB) for the proposed Aurora Distributed Solar Project. However, during the development process Geronimo Energy encountered construction limitations and has since altered the Pine Island Facility. As you recall, the Aurora Solar Project includes up to 24 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). At this stage in project development, Geronimo Energy is assessing the existing environmental conditions of the altered facility location. Enclosed are the altered facility location maps.

The Aurora Solar Project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence as well as an access road within the "Development Area Boundary" of each facility. The location for the altered facility area addressed in this letter is:

Facility	County	PLSS
Pine Island	Goodhue	E ½ & NW ¼ Sec 31 T109N, R15W

Similar to the request made by WSB earlier this year, Geronimo Energy would appreciate any comments you may have pertaining to construction stormwater compliance regarding this facility. Please review the facility and provide recommendations you may have within 30 days. If you have any questions, please reach me at (952-988-9000) or <u>ingrid@geronimoenergy.com</u>.

Sincerely,

Geronimo Energy, LLC Ingrid Schwingler Permitting Specialist

Attachments

cc: Tena Rytel, Geronimo Energy



June 30, 2014

Ms. Sarah Thomson Minnesota Pollution Control Agency 520 Lafayette Road N St. Paul, MN 55155

RE: Aurora Distributed Solar Project – Montrose Facility Request for Comments

Dear Ms. Thomson,

Your review was requested in January 2014 by Aurora Distributed Solar, LLC (Geronimo Energy) via WSB & Associates (WSB) for the proposed Aurora Distributed Solar Project. However, during the development process Geronimo Energy encountered construction limitations and has since altered the location of the previously reviewed Montrose Facility. As you recall, the Aurora Solar Project includes up to 24 distributed solar facilities totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). At this stage in project development, Geronimo is assessing the existing environmental conditions of the altered facility location. Enclosed are the altered facility location maps.

The Aurora Solar Project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence as well as an access road within the "Development Area Boundary" of each facility. The location for the altered facility area addressed in this letter is:

Facility	County	PLSS
Montrose	Wright	NW ¼ & SW ¼ Sec 2 T118, R26

Similar to the request made by WSB earlier this year, Geronimo Energy would appreciate any comments you may have pertaining to construction stormwater compliance regarding this facility. Please review the facility and provide recommendations you may have within 30 days. If you have questions, please reach me at (952) 988-9000 or <u>ingrid@geronimoenergy.com</u>

Sincerely,

Geronimo Energy, LLC Ingrid Schwingler Permitting Specialist

Attachments

cc: Tena Rytel, Geronimo Energy



engineering · planning · environmental · construction

701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

May 9th, 2014

Mr. Noel Kepler Minnesota Pollution Control Agency 520 Lafayette Road N St. Paul, MN 55155

RE: Aurora Solar Power Project Sites- Pine Island Request for Comments WSB Project No. 02045-020

Dear Mr. Kepler:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed Aurora Solar Project. Initially, correspondence was requested in January for most project areas; however, the Pine Island area was mistakenly omitted. As you recall, the Aurora Solar Project includes up to 25 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). On behalf of Geronimo Energy, we request that the Pine Island project area be analyzed for its potential environmental impacts, similar to the analysis that occurred for the project areas identified in January.

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Goodhue	NE ¼ of Sec 31, T109N, R15W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 30 days.

St. Cloud • Minneapolis • St. Paul Equal Opportunity Employer wsbeng.com
If you have questions, feel free to call me at (763) 541-4800 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the He

Alison Harwood Environmental Scientist

Attachments

cc: Ingrid Schwingler, Geronimo Energy Tena Rytel, Geronimo Energy



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

May 9th, 2014

Mr. Jeremy Sanoski Minnesota Pollution Control Agency 7678 College Road, Suite 105 Baxter, MN 56425

RE: Aurora Solar Power Project Sites – Brooten Request for Comments WSB Project No. 02045-020

Dear Mr. Sanoski:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed Aurora Solar Project. Initially, correspondence was requested in January for most project areas; however, the Brooten area was mistakenly omitted. As you recall, the Aurora Solar Project includes up to 25 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). On behalf of Geronimo Energy, we request that the Brooten project area be analyzed for its potential environmental impacts, similar to the analysis that occurred for the project areas identified in January.

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Stearns	NW ¼ of Sec 31, T124N, R35W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 30 days.

If you have questions, feel free to call me at (763) 541-4800 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

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Alison Harwood Environmental Scientist

Attachments

cc: Ingrid Schwingler, Geronimo Energy Tena Rytel, Geronimo Energy



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Tyler Hastings Minnesota Pollution Control Agency 520 Lafayette Road N St. Paul, MN 55155

RE: Aurora Solar Power Project Sites – Lester Prairie & West Waconia Request for Comments WSB Project No. 02045-020

Dear Mr. Hastings:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 23 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Carver	SW ¼ of Sec 1, T115N, R26W
McLeod	SW ¼ of Sec 25, T117N, R27W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Ms. Sarah Thomson Minnesota Pollution Control Agency 520 Lafayette Road N St. Paul, MN 55155

RE: Aurora Solar Power Project Sites – Annandale, Atwater, Hastings, Lake Pulaski & Montrose Solar Request for Comments WSB Project No. 02045-020

Dear Ms. Thomson:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Wright	SE ¼ of Sec 15, T120N, R25W
Wright	NW ¼ of Sec 32, T121N, R27W
Wright	NE ¼ of Sec 2, T118N, R26W
Washington	NE ¼ of Sec 8, T26N, R20W
Kandiyohi	SW ¼ of Sec 1, T119N, R33W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

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Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Noel Kepler Minnesota Pollution Control Agency 520 Lafayette Road N St. Paul, MN 55155

RE: Aurora Solar Power Project Sites – Eastwood, Lake Emily, Pipestone, West Faribault & Zumbrota Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Kepler:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Blue Earth	SE ¼ of Sec 14, T108N, R26W
Le Sueur	NW ¼ of Sec 24, T110N, R26W
Rice	SE ¼ of Sec 2, T109N, R21W
Goodhue	SW ¼ of Sec 25, T110N, R16W
Pipestone	NE ¼ of Sec 11, T106N, R46W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

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Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Jeremy Sanoski Minnesota Pollution Control Agency 7678 College Road, Suite 105 Baxter, MN 56425

RE: Aurora Solar Power Project Sites – Albany, Mayhew Lake & Paynesville Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Sanoski:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Benton	SW ¼ of Sec 12, T36N, R31W
Stearns	NE ½ of Sec 17 & SE ½ of Sec 8, T125N, R31W
Stearns	NW ¼ of Sec 9, NE ¼ of Sec 8, SW ¼ of Sec 4, T122N, R32W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

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Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Jim Dexter Minnesota Pollution Control Agency 525 Lake Avenue South, Suite 400 Duluth, MN 55802

RE: Aurora Solar Power Project Sites – Chisago, Wyoming, Lawrence Creek & Scandia Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Dexter:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Chisago	NE ½ of Sec 12, T34N, R21W
Chisago	E ½ of Sec 27, T34N, R19W
Chisago	NE ¼ of Sec 32, T33N, R21W
Chisago	SE ¼ if Sec 35, T33N, R20W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

Mi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Ms. Joyce Cieluch Minnesota Pollution Control Agency 18 Wood Lake Drive SE Rochester, MN 55904

RE: Aurora Solar Power Project Sites – Fiesta City Solar Request for Comments WSB Project No. 02045-020

Dear Ms. Cieluch:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Chippewa	SW ¼ of Sec 9, T117N, R40W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

Mi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. David Bodovinitz Minnesota Pollution Control Agency 18 Wood Lake Drive SE Rochester, MN 55904

RE: Aurora Solar Power Project Sites – Dodge Center & Waseca Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Bodovinitz:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Dodge	SE ¼ of Sec 32, T107N, R17W
Waseca	NE ¼ of Sec 12, T107N, R23W

We would appreciate any comments you may have pertaining to construction stormwater compliance or other concerns regarding this project. Please review the project areas and provide recommendations you may have within 15 business days.

If you have questions, feel free to call me at (763)231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

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Alison Harwood Environmental Scientist



State Historic Preservation Office (SHPO) Correspondence to SHPO

Transmitted by Electronic Mail



June 30, 2014

Tom Cinadr Survey and Inventory Management Coordinator Minnesota State Historic Preservation Office, Minnesota Historical Society 345 Kellogg Blvd. W. St. Paul, MN 55102

RE: Aurora Distributed Solar Project – Montrose & Pine Island Facilities Request for Review

Dear Mr. Cinadr,

Your review was requested in January 2014 (for Montrose) then again in May 2014 (for Pine Island) by Aurora Distributed Solar, LLC (Geronimo Energy) via WSB & Associates (WSB) for the proposed Aurora Solar Project. However, during the development process Geronimo Energy encountered construction limitations and has since altered locations of two of the 24 previously reviewed potential solar facilities (Montrose and Pine Island). As you recall, the Aurora Solar Project includes up to 24 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet).

At this stage in project development, Geronimo is assessing the existing environmental conditions of each of the altered facility locations. Enclosed are the altered facility location maps. The Aurora Solar Project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence as well as an access road within the "Preliminary Development Area Boundary" of each facility. The locations for each of the altered areas addressed in this letter are:

Facility	County	PLSS
Montrose	Wright	NW ¼ & SW ¼ Sec 2 T118, R26
Pine Island	Goodhue	E ½ & NW ¼ Sec 31 T109N, R15W

Similar to the requests made by WSB earlier this year, Geronimo requests an inventory of any historical, cultural, archaeological, and architectural resources that may be present in the projects areas shown on the maps. Additionally, I have attached any previously received information pertaining to the sites of concern. Please review the project areas and provide recommendations you may have within 30 business days. If you have questions, feel free to call me at (952) 988-9000 or ingrid@geronimoenergy.com.

Sincerely,

Ingrid Schwingler Permitting Specialist

Attachments cc: Tena Rytel, Geronimo Energy

The Office is closed on Mondays.

Tom Cinadr

Survey and Information Management Coordinator Minnesota State Historic Preservation Office Minnesota Historical Society 345 Kellogg Blvd. West St. Paul, MN 55102

651-259-3453

On Fri, May 9, 2014 at 3:06 PM, Carli Ewert <<u>CEwert@wsbeng.com</u>> wrote:

Tom,

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed Aurora Solar Project. Initially, correspondence was requested in January for most project areas; however, two areas were mistakenly omitted: Brooten and Pine Island. As you recall, the Aurora Solar Project includes up to 25 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). On behalf of Geronimo Energy, we request that the Brooten and Pine Island project areas be analyzed for their potential environmental impacts, similar to the analysis that occurred for the project areas identified in January.

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Attached are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this message are:

County PLSS

Stearns	NW ¹ / ₄ of Sec 31, T124N, R35W
Goodhue	NE ¼ of Sec 31, T109N, R15W

I would like to request an inventory of any historical, cultural, archaeological, and architectural resources that may be present in the projects areas shown on the maps. Please review the project areas and provide recommendations you may have within 30 business days.

Please let me know if you have any questions.

Thanks,

Carli Ewert Intern d: 763-270-3474 WSB & Associates, Inc. | 701 Xenia Avenue South, Suite 300 | Minneapolis, MN 55416

WSB and McGhie & Betts, Inc. have joined forces! McGhie & Betts is now a Division of WSB, providing a presence in Rochester and Northfield, MN.





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701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Tom Cinadr Survey and Inventory Management Coordinator Minnesota State Historic Preservation Office Minnesota Historical Society 345 Kellogg Blvd. W. St. Paul, MN 55102

RE: Aurora Solar Power Project Sites - Dodge Center, Waseca, Fiesta City, Chisago, Lawrence Creek, Scandia, Wyoming, Albany, Mayhew, Paynesville, Eastwood, Lake Emily, Pipestone, West Faribault, Zumbrota, Annandale, Atwater, Hastings, Lake Pulaski, Montrose, Lester Prairie & West Waconia Solar Cultural Resources Request WSB Project No. 02045-020

Dear Mr. Cinadr:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Benton	36	31	12
Pipestone	106	46	11
Kandiyohi	119	33	1
Chippewa	117	40	9

0	445	0.6	4
Carver	115	26	1
Goodhue	110	16	25
Wright	120	25	15
Wright	121	27	32
Wright	118	26	2
Stearns	125	31	8
Stearns	122	32	4, 8, 9
Waseca	107	23	12
Rice	109	21	2
Dodge	107	17	32
McLeod	117	27	25
Blue Earth	108	26	14
Le Sueur	110	26	24
Chisago	34	21	12
Chisago	34	19	27
Chisago	33	21	32
Chisago	33	20	35
Washington	26	20	8

I would like to request an inventory of any historical, cultural, archaeological, and architectural resources that may be present in the projects areas shown on the maps.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist



State Historic Preservation Office (SHPO) Responses from SHPO

Ingrid M. Schwingler

From:	Thomas Cinadr <thomas.cinadr@mnhs.org></thomas.cinadr@mnhs.org>
Sent:	Tuesday, July 01, 2014 7:42 AM
To:	Ingrid M. Schwingler
Subject:	Re: Aurora Solar Project - SHPO Review - Montrose and Pine Island Locations Altered
Attachments:	Archaeology.rtf; Historic.rtf
Follow Up Flag:	Flag for follow up
Flag Status:	Completed

THIS EMAIL IS NOT A PROJECT CLEARANCE.

This message simply reports the results of the cultural resources database search you requested. The database search produced results for only previously known archaeological sites and historic properties. Please read the note below carefully.

Archaeological sites and historic properties were identified in a search of the Minnesota Archaeological Inventory and Historic Structures Inventory for the search area requested. **Reports containing the results of the search are attached.**

The result of this database search provides a listing of recorded archaeological sites and historic architectural properties that are included in the current SHPO databases. Because the majority of archaeological sites in the state and many historic architectural properties have not been recorded, important sites or structures may exist within the search area and may be affected by development projects within that area. Additional research, including field survey, may be necessary to adequately assess the area's potential to contain historic properties.

If you require a comprehensive assessment of a project's potential to impact archaeological sites or historic architectural properties, you may need to hire a qualified archaeologist and/or historian. If you need assistance with a project review, please contact Kelly Gragg-Johnson in Review and Compliance @ 651-259-3455 or by email at <u>kelly.graggjohnson@mnhs.org</u>.

The Minnesota SHPO Survey Manuals and Database Metadata and Contractor Lists can be found at http://www.mnhs.org/shpo/survey/inventories.htm

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The Office is closed on Mondays.

Tom Cinadr

Survey and Information Management Coordinator Minnesota State Historic Preservation Office Minnesota Historical Society 345 Kellogg Blvd. West St. Paul, MN 55102

651-259-3453

Archaeological Site Locations

Site Number	Site Name	Twp.	Range	Sec.	Quarter Sections	Acres Phase	Site Description	Tradition Context	Reports	NR	CEF	DOE
County:	Goodhue											
21GDs	Pine Island Mill	109	15	31	NE-NE-NE-SE	0	HD					

History/Architecture Inventory

PROPERTY NAME	ADDRESS	Twp	Range	Sec Quarters	USGS	Report	NRHP	CEF	DOE	Inventory Number
COUNTY: Goodhue CITY/TOWNSHIP: Pine Island										
Pine Island	off Co. Hwy. 11	109	15	31 NW-SE	Pine Island	xx-89-2H				GD-PIC-054
Bridge No. L2510	MUN 41 over N Br Zumbro River	109	15	31						GD-PIC-058
house	400 SW 2nd Ave.	109	15	31 NE-SE	Pine Island					GD-PIC-116
house	712 SW 3rd Ave.	109	15	31 SE-SE	Pine Island					GD-PIC-117
house	321 SW 5th Ave.	109	15	31 SE-SE	Pine Island					GD-PIC-120
CITY/TOWNSHIP: Pine Island T	wp.									
farmhouse	off Co. Hwy. 11	109	15	31 NE-NW-NW	Pine Island	GD-78-1H				GD-PIT-021
COUNTY: Wright CITY/TOWNSHIP: Montrose										
Montrose Creamery and Barn	xxx Buffalo St.	118	26	2 NE-NE-NE	Waverly	WR-94-1H				WR-MTC-004

Ingrid M. Schwingler

From:	Carli Ewert <cewert@wsbeng.com></cewert@wsbeng.com>
Sent:	Monday, June 30, 2014 9:14 AM
To:	Ingrid M. Schwingler; Tena Rytel
Subject:	FW: SHPO request
Attachments:	Historic.rtf
Follow Up Flag:	Follow up
Flag Status:	Completed

From: Thomas Cinadr [mailto:thomas.cinadr@mnhs.org] Sent: Tuesday, May 13, 2014 7:42 AM To: Carli Ewert Subject: Re: SHPO request

THIS EMAIL IS NOT A PROJECT CLEARANCE.

This message simply reports the results of the cultural resources database search you requested. The database search produced results for only previously known archaeological sites and historic properties. Please read the note below carefully.

No archaeological sites were identified in a search of the Minnesota Archaeological Inventory and Historic Structures Inventory for the search area requested. A report containing the historic properties identified is attached.

The result of this database search provides a listing of recorded archaeological sites and historic architectural properties that are included in the current SHPO databases. Because the majority of archaeological sites in the state and many historic architectural properties have not been recorded, important sites or structures may exist within the search area and may be affected by development projects within that area. Additional research, including field survey, may be necessary to adequately assess the area's potential to contain historic properties.

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Tom Cinadr

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Carli Ewert Intern d: 763-270-3474 WSB & Associates, Inc. | 701 Xenia Avenue South, Suite 300 | Minneapolis, MN 55416

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History/Architecture Inventory

PROPERTY NAME	ADDRESS	Twp	Range	Sec Quarters	USGS	Report	NRHP	CEF	DOE	Inventory Number
COUNTY: Stearns										
CITY/TOWNSHIP: Brooten										
commercial building	SW corner Central Ave. & 2nd St.	124	35	31 NW-SE-SW	Padua	SN-80-1H				SN-BRC-001
service station (former barn)	xxx 2nd St. E.	124	35	31 NE-SE-SW	Padua	SN-80-1H				SN-BRC-002
Soo Line Depot	xxx Central Ave.	124	35	31 SE-NE-SW	Padua	SN-80-1H				SN-BRC-003
commercial building	xxx Main St.	124	35	31 SW-NE-SW	Padua	SN-80-1H				SN-BRC-004
hotel	NW corner Central Ave. & Hatton St.	124	35	31 SW-SE-SW	Padua	SN-80-1H				SN-BRC-005
creamery	NW corner Pleasant Ave. & 1st St.	124	35	31 NE-SE-SW	Padua	SN-80-1H				SN-BRC-006
house	xxx Hatton St.	124	35	31 SW-SE-SW	Sedan	SN-80-1H				SN-BRC-007
Brooten Public School	NE corner Roe St. & Central Ave.	124	35	31 SE-SE-SW	Belgrade	SN-80-1H				SN-BRC-009
Trinity Lutheran Church	NW corner Pleasant Ave. & Hatton St.	124	35	31 SE-SE-SW	Padua	SN-80-1H				SN-BRC-010
Our Saviors Lutheran Church	NW corner Roe St. & Central Ave.	124	35	31 SW-SE-SW	Belgrade	SN-80-1H				SN-BRC-011

Ingrid M. Schwingler

From:	Alison Harwood <aharwood@wsbeng.com></aharwood@wsbeng.com>
Sent:	Thursday, February 20, 2014 1:31 PM
То:	Ingrid M. Schwingler; Tena Rytel
Subject:	FW: Cultural/Historical Resources Request - Aurora Solar Project
Attachments:	Historic.rtf; Archaeology.rtf

Ingrid & Tena,

Below is a response from SHPO and attached are documents that indicate the general location of historic and archaeological resources. For the site summaries, we will place these locations in GIS and determine their location relative to the project sites.

Please let me know if you have any questions.

Thanks,

From: Thomas Cinadr [mailto:thomas.cinadr@mnhs.org]
Sent: Wednesday, February 19, 2014 8:23 AM
To: Alison Harwood
Subject: Re: Cultural/Historical Resources Request - Aurora Solar Project

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651-259-3453

On Tue, Feb 18, 2014 at 11:55 AM, Alison Harwood <<u>aharwood@wsbeng.com</u>> wrote:

Tom,

I just wanted to follow up with you regarding this project. Have you been able to perform an inventory search for these areas yet? Again, the link to the documents that include all of the project figures is here: https://wsbeng.securevdr.com/d/sd5a01d1d7d6408b8

The specific sections we are interested in are listed below:

County	Township	Range	Section
Benton	36	31	12
Pipestone	106	46	11
Kandiyohi	119	33	1
Chippewa	117	40	9
Carver	115	26	1
Goodhue	110	16	25
Wright	120	25	15
Wright	121	27	32
Wright	118	26	2
Stearns	125	31	8
Stearns	122	32	4, 8, 9
Waseca	107	23	12
Rice	109	21	2
Dodge	107	17	32
McLeod	117	27	25
Blue Earth	108	26	14
Le Sueur	110	26	24
Chisago	34	21	12

Chisago	34	19	27
Chisago	33	21	32
Chisago	33	20	35
Washington	26	20	8

Please let me know if you need any additional information to complete this review.

Thank you,

Alison Harwood Environmental Planning & Natural Resources Scientist d: 763-231-4847 | c: 612-360-1320 WSB & Associates, Inc. | 701 Xenia Avenue South, Suite 300 | Minneapolis, MN 55416

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Alison Harwood

Environmental Planning & Natural Resources Scientist d: 763-231-4847 | c: 612-360-1320 WSB & Associates, Inc. | 701 Xenia Avenue South, Suite 300 | Minneapolis, MN 55416

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From: Alison Harwood Sent: Monday, January 20, 2014 3:24 PM

Archaeological Site Locations

Site Number	Site Name	Twp.	Range	Sec.	Quarter Sections	Acres Phase	Site Description	Tradition	Context	Reports	NR	CEF	DOE
County:	Dodge												
21DO0004	Dodge Center Creek East	107	17	32	SW-SW-SE	2 1	AS	W-1				Yes	
21DO0005	Dodge Center Creek West	107	17	32	C-N-S	4 1	AS	W-1					
21DOn	Hallowell	107	17	32		0 7	HD		EA-1				
County:	Goodhue												
21GD0185	Zumbro River	110	16	25	NW-NE-NW-SE, NE-NW-NW-SE	1 1	AS	W-1				Yes	
21GD0186	Zumbrota Covered Bridge Park	110	16	25	C-E-NW-SE-SE, C- W-NE-SE-SE	1 1	LS						
21GDab	Halbert Mill	110	16	25	SE-SE	1	HD						
County:	Rice												
21RC0049		109	21	2	SW-NW-SW	0.5 1	LS			MULT-97-09			
County:	Stearns												
21SN0153	Crow Spring	122	32	9	S-N-NE-SE	1.5 1	LS						
21SN0154	Kennedy North	122	32	9	N-SE-NW-SE	0.1 1	LS						
21SN0155	Kennedy South	122	32	9	NW-SE-NW-SE	0.1 1	AS						
21SN0159	Spring View I. F.	122	32	9	NE-NW-NE-SE	0.1 1	SA						
County:	Washington												
21WA0006	5	26	20	8	NW-SW-NW	5 1	EW	W-2		WA-85-01			
21WA0007		26	20	8	N-N-SE, SE-SE-NE	25 2	EW, CEM	W-1		WA-85-01			
21WA0054	Point Douglas Townsite	26	20	8	S-S-NE-SE,NE-NE- SE,SE-NW-SE	35 8	AS	W-1, O-	EA-1,RA- 1	WA-85-01			

Wednesday, February 19, 2014

Page 1 of 2

Site Number	Site Name	Twp.	Range	Sec.	Quarter Sections	Acres	Phase	Site Description	Tradition	Context	Reports	NR	CEF	DOE
County:	Washington													
21WA0054	Point Douglas Townsite	26	20	8	S-S-NE-SE,NE-NE- SE,SE-NW-SE	35	8	AS	W-1, O-	EA-1,RA- 1	THY-73-01			
	Point Douglas Townsite	26	20	8	NE-SE	35	8	AS	W-1, O-	EA-1,RA- 1	WA-98-02			
	Point Douglas Townsite	26	20	8	NE-SE	35	8	AS	W-1, O-	EA-1,RA- 1	WA-85-01			
	Point Douglas Townsite	26	20	8	NE-SE	35	8	AS	W-1, O-	EA-1,RA- 1	THY-73-01			
	Point Douglas Townsite	26	20	8	S-S-NE-SE,NE-NE- SE,SE-NW-SE	35	8	AS	W-1, O-	EA-1,RA- 1	WA-98-02			
History/Architecture Inventory

PROPERTY NAME		ADDRESS	Twp	Range	Sec Quarters	USGS	Report	NRHP	CEF DO	E Inventory Number
COUNTY: CITY/TOWNSHIP:	Benton Sauk Rapids T	wp.								
barn		NE corner Co. Hwy. 29 & Co. Hwy. 57	36	31	12 NE-SW-SW	St. Cloud	BN-81-1H			BN-SRT-003
COUNTY:	Chisago									
CITY/TOWNSHIP:	Franconia Twj).								
farmhouse		off Co. Rd. 86	33	20	25 SW-SW-SE	Scandia	CH-80-1H			CH-FRN-004
farmhouse		xxx Quinlan Ave.	33	20	25 SE-NE-NE	Scandia	CH-80-1H			CH-FRN-005
CITY/TOWNSHIP:	Lent Twp.									
farmstead		9187 Lent Trail	34	21	12 NW-NW-	Stacy	CH-2007-2H			CH-LEN-004
CITY/TOWNSHIP:	Wyoming Twp									
Northern Pacific Railroad	l: Lower St.	off U.S. Hwy. 61 & I-35	33	21	32	Forest Lake			Y	CH-WYT-003
Croix Segment										
COUNTY:	Dodge									
CITY/TOWNSHIP:	Wasioja Twp.									
Taylor Farmstead		off Co. Rd. H	107	17	32 W-NW-SW	Claremont	DO-80-1H			DO-WAS-012
Bridge No. 1842		CNTY OH over Dodge Center Creek	107	17	32					DO-WAS-020
Jensen Farmstead		17310 635th St.	107	17	32 SE-NW	Claremont	XX-2007-9H			DO-WAS-042

PROPERTY NAME		ADDRESS	Twp	Range	Sec Quarters	USGS	Report	NRHP	CEF	DOE	Inventory Number
COUNTY:	Dodge										
COUNTY:	Goodhue										
CITY/TOWNSHIP:	Minneola Twp										
Barton House		off U.S. Hwy. 52	110	16	25 SW-NE-SW	Zumbrota	GD-78-1H				GD-MNO-016
Zumbrota Watertower			110	16	25 SE-NE-SW	Zumbrota	GD-78-1H				GD-MNO-017
fair grounds		off Co. Rd. 6	110	16	25 N-SE-NE	Zumbrota	GD-78-1H				GD-MNO-018
CITY/TOWNSHIP:	Wanamingo										
Wanamingo Lutheran Chu	urch	xxx High Ave.	110	16	25 SE-NE-SE	Wanamingo	GD-78-1H				GD-WMC-009
CITY/TOWNSHIP:	Zumbrota										
mill dam ruins		xxx Mill St.	110	16	25 SE-SE-SE	Zumbrota	GD-78-1H				GD-ZBC-023
Bevers House and Carriag	ge House		110	16	25 SE-SE-SE	Zumbrota	GD-78-1H				GD-ZBC-024
windmill and pump house	e	off Mn. Hwy. 52	110	16	25 NW-SW-SE	Zumbrota	GD-78-1H				GD-ZBC-032
gas station		xxx Jefferson Dr.	110	16	25 SE-SW-SE	Zumbrota	GD-78-1H				GD-ZBC-033
Sidney B. Barteau House			110	16	25 NE-SW	Zumbrota					GD-ZBC-063
Bridge No. L5901		unpaved municipal road over the North Fork of the Zumbro River	110	16	25 NE-SW-SE	Zumbrota					GD-ZBC-065

COUNTY: Kandiyohi

CITY/TOWNSHIP: Atwater

house	301 Main St. N.	119	33	1 SW-SW-SW Atwater	KH-87-1H	KH-AWC-019
house	411 Main St. N.	119	33	1 NW-SW-SW Atwater	KH-87-1H	KH-AWC-021

PROPERTY NAME		ADDRESS	Twp	Range	Sec Quarters	USGS	Report	NRHP	CEF	DOE	Inventory Number
COUNTY:	Kandiyohi										
COUNTY: CITY/TOWNSHIP: P G.E. Sellers	Pipestone ² ipestone	818 5th St. SW	106	46	11 SE-SE-SE	Pipestone South	PP-88-1H				PP-PPC-102
COUNTY:	Stearns										
CITY/TOWNSHIP: P	aynesville Tw	р.									
Great Northern Depot		off Co. Hwy. 130	122	32	8	Paynesville	SN-80-1H				SN-PVT-003
Great Northern Hotel			122	32	8	Paynesville	SN-80-1H				SN-PVT-004
St. Cloud, Makato, and Aus Great Northern Railroad	stin Railroad;		122	32	4	Paynesville			Y		SN-PVT-008
St. Cloud, Makato, and Aus Great Northern Railroad	stin Railroad;		122	32	8	Paynesville			Y		SN-PVT-008
St. Cloud, Makato, and Aus Great Northern Railroad	stin Railroad;		122	32	9	Paynesville			Y		SN-PVT-008
farmstead		18572 CR 130	122	32	8 SE-SW-NW	Paynesville					SN-PVT-010
farmstead		xxxxx 185th St.	122	32	9 E-SW-NW	Paynesville					SN-PVT-011
barn		18102 Lake Ave. N	122	32	9 NE-SW-SE	Paynesville					SN-PVT-012
COUNTY:	Washingto	n									
CITY/TOWNSHIP: D	enmark Twp.										
Point Douglas Historic Dist	trict	U.S. Hwy. 10	26	20	8 NE-SE	Prescott			Y		WA-DMK-014

Wednesday, February 19, 2014

PROPERTY NAME	ADDRESS	Тwp	Range	Sec Quarters	USGS	Report	NRHP CEF DOE	Inventory Number
COUNTY: Wright								
CITY/TOWNSHIP: Montrose								
Montrose Creamery and Barn	xxx Buffalo St.	118	26	2 NE-NE-NE	Waverly	WR-94-1H		WR-MTC-004



US Army Corps of Engineers (USACE) Correspondence to USACE

Transmitted by Electronic Mail



June 30, 2014

Mr. Chad Konickson U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Distributed Solar Project – Montrose & Pine Island Facilities Request for Comments

Dear Mr. Konickson:

Your review was requested in January 2014 (for Montrose) then again in May 2014 (for Pine Island) by Aurora Distributed Solar, LLC (Geronimo Energy) via WSB & Associates (WSB) for the proposed Aurora Distributed Solar Project. However, during the development process Geronimo Energy encountered construction limitations and has since altered of two of the 24 Aurora facilities (Montrose and Pine Island). As you recall, the Aurora Solar Project includes up to 24 distributed solar facilities totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet).

At this stage in project development, Geronimo Energy is assessing the existing environmental conditions of each of the altered facilities. Enclosed are the altered facility location maps. The Aurora Solar Project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence as well as an access road within the "Preliminary Development Area Boundary" of each facility. The locations for each of the altered areas addressed in this letter are:

Facility	County	PLSS
Montrose	Wright	NW ¼ & SW ¼ Sec 2 T118, R26
Pine Island	Goodhue	E ½ & NW ¼ Sec 31 T109N, R15W

Similar to the requests made by WSB earlier this year, Geronimo Energy would appreciate any comments you may have regarding the scope of these altered projects pertaining to the U.S. Army Corps of Engineers (USACE) jurisdiction within 30 days. If you have questions, you may reach me at (952) 988-9000 or <u>ingrid@geronimoenergy.com</u>.

Sincerely,

Geronimo Energy, LLC Ingrid Schwingler Permitting Specialist

Attachments

cc: Tena Rytel, Geronimo Energy



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

May 9th, 2014

Mr. Chad Konickson U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – Pine Island & Brooten Request for Comments WSB Project No. 02045-020

Dear Mr. Konickson:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed Aurora Solar Project. Initially, correspondence was requested in January for most project areas; however, two areas were mistakenly omitted: Brooten and Pine Island. As you recall, the Aurora Solar Project includes up to 25 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). On behalf of Geronimo Energy, we request that the Brooten and Pine Island project areas be analyzed for their potential environmental impacts, similar to the analysis that occurred for the project areas identified in January.

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Stearns	NW ¼ of Sec 31, T124N, R35W
Goodhue	NE ¼ of Sec 31, T109N, R15W

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions within 30 days.

If you have questions, feel free to call me at (763) 541-4800 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist

Attachments

cc: Ingrid Schwingler, Geronimo Energy Tena Rytel, Geronimo Energy Marissa Vine, USACE



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 22, 2014

Mr. Chad Konickson U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – Dodge Center, Waseca, Fiesta City, Chisago, Lawrence Creek, Scandia, Wyoming, Albany, Mayhew, Paynesville, Eastwood, Lake Emily, Pipestone, West Faribault, Zumbrota, Annandale, Atwater, Hastings, Lake Pulaski, Montrose, Lester Prairie & West Waconia Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Konickson:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Benton	36	31	12
Pipestone	106	46	11
Kandiyohi	119	33	1
Chippewa	117	40	9
Carver	115	26	1

	[
Goodhue	110	16	25
Wright	120	25	15
Wright	121	27	32
Wright	118	26	2
Stearns	125	31	8
Stearns	122	32	4, 8, 9
Waseca	107	23	12
Rice	109	21	2
Dodge	107	17	32
McLeod	117	27	25
Blue Earth	108	26	14
Le Sueur	110	26	24
Chisago	34	21	12
Chisago	34	19	27
Chisago	33	21	32
Chisago	33	20	35
Washington	26	20	8

Early coordination letters have also been distributed to the Project Managers identified for each of the counties listed above, including:

- Ben Orne
- Eric Hanson
- Jessie Diaz
- Marissa Vine
- Melissa Jenny
- Ryan Malterud
- Tom Hingsberger

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Thomas Hingsberger U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – Chisago, Lawrence Creek, Wyoming, Scandia & Hastings Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Hingsberger:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Chisago	34	21	12
Chisago	34	19	27
Chisago	33	21	32
Chisago	33	20	35
Washington	26	20	8

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions. Please review the project areas and provide recommendations pertaining to USACE jurisdictions within 15 business days upon receipt of this information.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Ryan Malterud U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – Mayhew Lake, Albany & Paynesville Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Malterud:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Benton	36	31	12
Stearns	125	31	8
Stearns	122	32	4,8,9

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions. Please review the project areas and provide recommendations pertaining to USACE jurisdictions within 15 business days upon receipt of this information.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Ms. Marissa Vine U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – Fiesta City, Zumbrota, Waseca, West Faribault, Dodge Center & Lake Emily Solar Request for Comments WSB Project No. 02045-020

Dear Ms. Vine:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Chippewa	117	40	9
Goodhue	110	16	25
Waseca	107	23	12
Rice	109	21	2
Dodge	107	17	32
Le Sueur	110	26	24

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions. Please review the project areas and provide recommendations pertaining to USACE jurisdictions within 15 business days upon receipt of this information.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Ms. Melissa Jenny U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – West Waconia Solar Request for Comments WSB Project No. 02045-020

Dear Ms. Jenny:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Carver	115	26	1

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions. Please review the project areas and provide recommendations pertaining to USACE jurisdictions within 15 business days upon receipt of this information.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi the

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Ms. Jessie Diaz U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – Atwater, Lake Pulaski, Annandale & Montrose Solar Request for Comments WSB Project No. 02045-020

Dear Ms. Diaz:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Kandiyohi	119	33	1
Wright	120	25	15
Wright	121	27	32
Wright	118	26	2

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions. Please review the project areas and provide recommendations pertaining to USACE jurisdictions within 15 business days upon receipt of this information.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Eric Hanson U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – Eastwood & Lester Prairie Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Hanson:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
McLeod	117	27	25
Blue Earth	108	26	14

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions. Please review the project areas and provide recommendations pertaining to USACE jurisdictions within 15 business days upon receipt of this information.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the He

Alison Harwood Environmental Scientist



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Benjamin Orne U.S. Army Corps of Engineers Attn: Regulatory Branch 180 5th Street East, Suite 700 Saint Paul, MN 55101

RE: Aurora Solar Power Project Sites – Pipestone Solar Request for Comments WSB Project No. 02045-020

Dear Mr. Orne:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Pipestone	106	46	11

We would appreciate any comments you may have regarding the scope of the proposed project pertaining to the U.S. Army Corps of Engineers (USACE) jurisdictions. Please review the project areas and provide recommendations pertaining to USACE jurisdictions within 15 business days upon receipt of this information.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

the He

Alison Harwood Environmental Scientist



US Fish and Wildlife Service (USFWS) Correspondence to USFWS



June 30, 2014

Transmitted by Electronic Mail

Andrew Horton, Fish and Wildlife Biologist U.S. Fish and Wildlife Service, Twin Cities ES Field Office 4101 American Blvd East Bloomington, MN 55425-1665

RE: Aurora Distributed Solar Project – Montrose & Pine Island Facilities Request for Comments

Dear Mr. Horton,

Your review was requested in January 2014 (Montrose) then again in May 2014 (Pine Island) by Aurora Distributed Solar, LLC (Geronimo Energy) via WSB & Associates (WSB) for the proposed Aurora Distributed Solar Project. However, during the development process Geronimo Energy encountered construction limitations and has since altered locations of the previously reviewed facilities, Montrose and Pine Island. As you recall, the Aurora Solar Project includes up to 24 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet).

At this stage in development, Geronimo Energy is assessing the existing environmental conditions of each of the altered facilities. Enclosed are the altered facility location maps. The Aurora Solar Project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence as well as an access road within the "Preliminary Development Area Boundary" of each facility. The locations for each of the altered facility areas addressed in this letter are:

Facility	County	PLSS
Montrose	Wright	NW ¼ & SW ¼ Sec 2 T118, R26
Pine Island	Goodhue	E ½ & NW ¼ Sec 31 T109N, R15W

Similar to the requests made by WSB earlier this year, Geronimo Energy would appreciate any additional comments you may have about federal threatened or endangered species potentially affected by these facilities. Please review the altered facility areas and provide recommendations within 30 days. If you have questions, please reach me at (952) 988-9000 or ingrid@geronimoenergy.com.

Sincerely,

Geronimo Energy, LLC Ingrid Schwingler Permitting Specialist

Attachments cc: Tena Rytel, Geronimo Energy



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

May 9th, 2014

Andrew Horton Fish and Wildlife Biologist U.S. Fish and Wildlife Service Twin Cities ES Field Office 4101 American Blvd East Bloomington, MN 55425-1665

RE: Aurora Solar Power Project Sites – Pine Island & Brooten Endangered Species Review WSB Project No. 02045-020

Dear Mr. Horton:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed Aurora Solar Project. Initially, correspondence was requested in January for most project areas; however, two areas were mistakenly omitted: Brooten and Pine Island. As you recall, the Aurora Solar Project includes up to 25 distributed solar projects totaling 100 megawatts and is located across 16 Minnesota Counties (see attached fact sheet). On behalf of Geronimo Energy, we request that the Brooten and Pine Island project areas be analyzed for their potential environmental impacts, similar to the analysis that occurred for the project areas identified in January.

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	PLSS
Goodhue	NE ¼ of Sec 31, T109N, R15W
Stearns	NW ¼ of Sec 31, T124N, R35W

We would appreciate any comments you may have about federal threatened or endangered species potentially affected by the project. Please review the project areas and provide recommendations related to the presence of federal threatened or endangered species that may be affected within 30 days.

If you have questions, feel free to call me at (763) 541-4800 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist

Attachments

cc: Ingrid Schwingler, Geronimo Energy Tena Rytel, Geronimo Energy



701 Xenia Avenue South Suite 300 Minneapolis, MN 55416 Tel: 763-541-4800 Fax: 763-541-1700

January 17th, 2014

Mr. Phil Delphey Endangered Species Biologist U.S. Fish & Wildlife Service Twin Cities Ecological Field Office 4101 East 80th Street Bloomington, MN 55425

RE: Aurora Solar Power Project Sites – Dodge Center, Waseca, Fiesta City, Chisago, Lawrence Creek, Scandia, Wyoming, Albany, Mayhew, Paynesville, Eastwood, Lake Emily, Pipestone, West Faribault, Zumbrota, Annandale, Atwater, Hastings, Lake Pulaski, Montrose, Lester Prairie & West Waconia Solar Endangered Species Review WSB Project No. 02045-020

Dear Mr. Delphey:

WSB & Associates (WSB) was retained by Geronimo Energy, LLC (Geronimo) to provide environmental services for the proposed installation of multiple photovoltaic solar facilities throughout Minnesota. The project is collectively called the Aurora Solar Project and includes up to 25 distributed solar projects totaling 100 megawatts (see attached fact sheet).

At this stage in project development, WSB and Geronimo are assessing the existing environmental conditions for each potential site. Enclosed are project location maps and detailed site maps for each of the potential sites.

The proposed project will include grading and the installation of linear arrays of photovoltaic power panels and associated equipment enclosed within a chain link fence within the "Solar Project Boundary" of each site. An access road will also be provided to each site. Maps showing the location of each of the project sites are attached. The locations for each of the potential project areas addressed in this letter are:

County	Township	Range	Section
Benton	36	31	12
Pipestone	106	46	11
Kandiyohi	119	33	1
Chippewa	117	40	9

Carver	115	26	1
Goodhue	110	16	25
Wright	120	25	15
Wright	121	27	32
Wright	118	26	2
Stearns	125	31	8
Stearns	122	32	4, 8, 9
Waseca	107	23	12
Rice	109	21	2
Dodge	107	17	32
McLeod	117	27	25
Blue Earth	108	26	14
Le Sueur	110	26	24
Chisago	34	21	12
Chisago	34	19	27
Chisago	33	21	32
Chisago	33	20	35
Washington	26	20	8

We would appreciate any comments you may have about federal threatened or endangered species potentially affected by the project. Please review the project areas and provide recommendations related to the presence of federal threatened or endangered species that may be affected within 15 business days.

If you have questions, feel free to call me at (763) 231-4847 or aharwood@wsbeng.com

Sincerely,

WSB & Associates, Inc.

thi He

Alison Harwood Environmental Scientist



US Fish and Wildlife Service (USFWS) Responses from USFWS

Ingrid M. Schwingler

From:	Alison Harwood <aharwood@wsbeng.com></aharwood@wsbeng.com>
Sent:	Thursday, February 27, 2014 7:35 AM
To:	Ingrid M. Schwingler; Tena Rytel
Subject:	FW: Aurora Solar Power Project Sites
Follow Up Flag:	Follow up
Flag Status:	Flagged

For your records, see below for comments from Fish & Wildlife Service regarding the Aurora Solar project.

From: Horton, Andrew [mailto:andrew horton@fws.gov]
Sent: Wednesday, February 26, 2014 2:55 PM
To: Alison Harwood
Cc: Lisa Mandell
Subject: Aurora Solar Power Project Sites

Ms. Harwood,

I have reviewed the proposed Aurora Solar Power Project Sites (03E19000-2014-SL-0043) located in Benton, Blue Earth, Carver, Chippewa, Chisago, Dodge, Goodhue, Kandiyohi, Le Sueur, Mcleod, Pipestone, Rice, Stearns, Waseca, Washington and Wright Counties.

The northern long-eared bat (*Myotis septentrionalis*) is Proposed as Endangered and located in all 16 Minnesota Counties listed. We anticipate final listing of the species in November 2014. In regard to these projects, we recommend that any tree removal that must be done, be completed outside of the summer maternity roosting season for the species (April 1 - Sept 30). If this cannot be accomplished, please contact our office.

All other federally listed species for these counties can be identified on

OUr website <u>http://www.fws.gov/midwest/endangered/lists/minnesot-cty.html</u>, however,our records indicate there are no federally listed or proposed species and/or designated or proposed critical habitat within the action area of these proposed projects.

Many of these project sites are in close proximity to USFWS easement property and may warrant further discussion as project details become available. Pipestone and Annandale Solar Sites are within one mile of Wildlife Production Areas. Atwater, Albany, Paynesville and Eastwood Solar Sites are within two miles of Wildlife Production Areas. Albany and Paynesville Solar Sites also stand out as having a much larger footprint, 230 and 294 acres respectively. It would be useful for our office to see information on density and actual acreage taken up by solar panels to determine it there would be any indirect effects to migratory birds from collision or confusion related to the reflective surfaces of photovoltaic panels.

If project plans change, additional information on listed or proposed species becomes available, or new species are listed that may be affected by the project, consultation should be reinitiated. If you have any further endangered species questions or as new information becomes available, please contact me at (612) 725-3548 x2208. Thank you.

- Andrew

Andrew Horton

Fish and Wildlife Biologist U.S. Fish and Wildlife Service Twin Cities ES Field Office 4101 American Blvd East Bloomington, MN 55425-1665 (612) 725-3548 ext. 2208

Alison Harwood Environmental Planning & Natural Resources Scientist d: 763-231-4847 | c: 612-360-1320 WSB & Associates, Inc. | 701 Xenia Avenue South, Suite 300 | Minneapolis, MN 55416

WSB and McGhie & Betts, Inc. have joined forces! McGhie & Betts is now a Division of WSB, providing a presence in Rochester and Northfield, MN.



constructio

We're proud to be a Top 100 Workplace.

This email, and any files transmitted with it, is confidential and is intended solely for the use of the addressee. If you are not the addressee, please delete this email from your system. Any use of this email by unintended recipients is strictly prohibited. WSB & Associates, Inc. does not accept liability for any errors or omissions which arise as a result of electronic transmission. If verification is required, please request a hard copy.

Ingrid M. Schwingler

From:	Horton, Andrew <andrew_horton@fws.gov></andrew_horton@fws.gov>
Sent:	Thursday, May 29, 2014 2:09 PM
To:	Ingrid M. Schwingler; Tena Rytel; Carli Ewert
Subject:	Fwd: Aurora Solar Project
Follow Up Flag:	Follow up
Flag Status:	Flagged

Please see our response for the two additional Aurora Solar Project sites in case my response back to Alison did not get bounced to you in her absence. Thank you.

Andrew Horton Twin Cities Ecological Services Field Office U.S. Fish and Wildlife Service 4101 American Blvd East Bloomington, MN 55425-1665 (612) 725-3548 ext. 2208

----- Forwarded message ------From: **Horton, Andrew** <<u>andrew_horton@fws.gov</u>> Date: Thu, May 29, 2014 at 2:04 PM Subject: Re: Aurora Solar Project To: Alison Harwood <<u>aharwood@wsbeng.com</u>>

Thank you for the updated information. I have reviewed the two project areas and did not see any listed species records or federal properties of concern. Both proposed project areas appeared to be mainly agricultural fields, but I will refer you back to our February 26, 2014 response regarding northern long-eared bat and our recommendation of clearing trees outside of the summer roost season, if tree clearing is necessary. Let me know if you need any additional assistance.

- Andrew Horton

Andrew Horton Twin Cities Ecological Services Field Office U.S. Fish and Wildlife Service 4101 American Blvd East Bloomington, MN 55425-1665 (612) 725-3548 ext. 2208 Andrew,

As you recall, we requested comments from you back in January for the Aurora Solar Project. While letters were sent out for most project areas, two areas were mistakenly omitted: Brooten and Pine Island.

Below is a link where you can view and download the location information for these two sites. We appreciate your review of and comments for these additional project areas within 30 days. If you have any questions or need additional information to complete your review, please let me know.

Link to documents (expires after 30 days): https://wsbeng.securevdr.com/d/sbff5003f200446ba

Thank you,

Alison Harwood Environmental Planning & Natural Resources Scientist d: 763-231-4847 | c: 612-360-1320 WSB & Associates, Inc. | 701 Xenia Avenue South, Suite 300 | Minneapolis, MN 55416

WSB and McGhie & Betts, Inc. have joined forces! McGhie & Betts is now a Division of WSB, providing a presence in Rochester and Northfield, MN.





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Brooten



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- your structure will exceed 200ft above ground level
- your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
- your structure will emit frequencies, and does not meet the conditions of the FAA Co-location Policy
- your structure will be in an instrument approach area and might exceed part 77 Subpart C
- your proposed structure will be in proximity to a navigation facility and may impact the assurance of navigation signal reception
- your structure will be on an airport or heliport
- filing has been requested by the FAA

If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the <u>Air Traffic Areas of Responsibility map</u> for Off Airport construction, or contact the <u>FAA Airports Region / District Office</u> for On Airport construction.

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Latitude:	45 Deg 30 M 30 N -
Longitude:	95 Deg 07 M 30 S W -
Horizontal Datum:	NAD83 -
Site Elevation (SE):	1305 (nearest foot)
Structure Height (AGL):	10 (nearest foot)
Traverseway:	No Traversew ay
Is structure on airport:	(Additional height is added to certain structures under 77.9(c)) No Yes
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You must file with the FAA at least 45 days prior to construction if:

- your structure will exceed 200ft above ground level
- · your structure will be in proximity to an airport and will exceed the slope ratio
- your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and once adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (b)
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Latitude:	44 Deg 01 M 34 S N -	
Longitude:	92 Deg 52 M 54 S W -	
Horizontal Datum:	NAD83 -	
Site Elevation (SE):	1270 (nearest foot)	
Structure Height (AGL):	10 (nearest foot)	
Traverseway:	No Traversew ay (Additional height is added to certain structures under 77.9(c))	
Is structure on airport:	No Yes	
	Submit	



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You must file with the FAA at least 45 days prior to construction if:

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If you require additional information regarding the filing requirements for your structure, please identify and contact the appropriate FAA representative using the Air Traffic Areas of Responsibility map for Off Airport construction, or contact the FAA Airports Region / District Office for On Airport construction.

The tool below will assist in applying Part 77 Notice Criteria.

Latitude:	44 _{Deg} 57 _M 19 _S N -
Longitude:	95 Deg 41 M 19 S W -
Horizontal Datum:	NAD83 -
Site Elevation (SE):	1030 (nearest foot)
Structure Height (AGL):	10 (nearest foot)
Traverseway:	No Traversew ay (Additional height is added to certain structures under 77.9(c))
Is structure on airport:	No Yes
	Submit

You exceed the following Notice Criteria:

Your proposed structure exceeds an instrument approach area by 19 feet and aeronautical study is needed to determine if it will exceed a standard of subpart C of 14CFR Part 77. The FAA, in accordance with 77.9, requests that you file.

Your proposed structure is in proximity to a navigation facility and may impact the assurance of navigation signal reception. The FAA, in accordance with 77.9, requests that you file.

The FAA requests that you file



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View Proposed Cases

View Supplemental Notices (Form 7460-2)

View Circularized Cases

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Circle Search for Airports

General FAQs

Wind Turbine FAQs

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Notice Criteria Tool

DoD Preliminary Screening Tool

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OE/AAA Account

Login

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Instructions

Information Resources

FAA Acronyms

Forms

Regulatory Policy

Relevant Advisory Circulars

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Notice Criteria Tool

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Latitude:	45 Deg 11 M 45 S N -	
Longitude:	93 Deg 48 M 46 S W -	
Horizontal Datum:	NAD83 -	
Site Elevation (SE):	1008 (nearest foot)	
Structure Height (AGL):	10 (nearest foot)	
Traverseway:	No Traversew ay (Additional height is added to certain structures under 77.9(c))	
Is structure on airport:	No Yes Submit	



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Obstruction Evaluation Version 2014.2.3

Home

FAA OE/AAA Offices

View Determined Cases

View Interim Cases

View Proposed Cases

View Supplemental Notices (Form 7460-2)

View Circularized Cases

Search Archives

Download Archives

Circle Search for Cases

Circle Search for Airports

General FAQs

Wind Turbine FAQs

Discretionary Review FAQs

Notice Criteria Tool

DoD Preliminary Screening Tool

Wind Turbine Build Out

Distance Calculation Tool

OE/AAA Account

Login

New User Registration

Instructions

Information Resources

FAA Acronyms

Forms

Regulatory Policy

Relevant Advisory Circulars

Survey Accuracy

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Latitude:	44 Deg 54 M 31 S N V
Longitude:	94 Deg 01 M 40 S W -
Horizontal Datum:	NAD83 -
Site Elevation (SE):	1000 (nearest foot)
Structure Height (AGL):	10 (nearest foot)
Traverseway:	No Traversew ay (Additional height is added to certain structures under 77.9(c))
Is structure on airport:	No Yes
	<u>S</u> ubmit

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your structure will be in proximity to an airport and will exceed the slope ratio your structure involves construction of a traverseway (i.e. highway, railroad, waterway etc...) and adjusted upward with the appropriate vertical distance would exceed a standard of 77.9(a) or (

number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, e

- your structure will emit frequencies, and does not meet the conditions of the FAA Co-location Po
- your structure will be in an instrument approach area and might exceed part 77 Subpart C •
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construction, or contact the FAA Airports Region / District Office for On Airport construction.

You must file with the FAA at least 45 days prior to construction if:

your structure will exceed 200ft above ground level

The requirements for filing with the Federal Aviation Administration for proposed structures vary based of

more details, please reference CFR Title 14 Part 77.9.



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Home

FAA OE/AAA Offices

View Determined Cases

View Interim Cases

View Proposed Cases

View Supplemental Notices (Form 7460-2)

View Circularized Cases

Search Archives

Download Archives

Circle Search for Cases

Circle Search for Airports

General FAQs

Wind Turbine FAQs

Discretionary Review FAQs

Notice Criteria Tool

DoD Preliminary Screening Tool

Wind Turbine Build Out

Distance Calculation Tool

OE/AAA Account

Login

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Instructions

Information Resources

FAA Acronyms

Forms

Regulatory Policy

Relevant Advisory Circulars

Survey Accuracy

Notice Criteria Tool

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Latitude:	44 Deg 00 M 13 S N -
Longitude:	96 Deg 20 M 06 S W -
Horizontal Datum:	NAD83 -
Site Elevation (SE):	1684 (nearest foot)
Structure Height (AGL):	10 (nearest foot)
Traverseway:	No Traversew ay (Additional height is added to certain structures under 77.9(c))
Is structure on airport:	No Yes Submit

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Obstruction Evaluation Version 2014.2.3

Home

FAA OE/AAA Offices

View Determined Cases

View Interim Cases

View Proposed Cases

View Supplemental Notices (Form 7460-2)

View Circularized Cases

Search Archives

Download Archives

Circle Search for Cases

Circle Search for Airports

General FAQs

Wind Turbine FAOs

Discretionary Review FAQs

Notice Criteria Tool

DoD Preliminary Screening Tool

Wind Turbine Build Out

Distance Calculation Tool

OE/AAA Account

Login

New User Registration

Instructions

Information Resources

FAA Acronyms

Forms

Regulatory Policy

Relevant Advisory Circulars

Survey Accuracy

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The tool below will assist in applying Part 77 Notice Criteria.

44 Deg 05 M 33 S N -
93 Deg 31 M 52 S W -
NAD83 -
1135 (nearest foot)
10 (nearest foot)
No Traversew ay (Additional height is added to certain structures under 77.9(c))
No Yes Submit



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Home

FAA OE/AAA Offices

View Determined Cases

View Interim Cases

View Proposed Cases

View Supplemental Notices (Form 7460-2)

View Circularized Cases

Search Archives

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Circle Search for Cases

Circle Search for Airports

General FAQs

Wind Turbine FAOs

Discretionary Review FAQs

Notice Criteria Tool

DoD Preliminary Screening Tool

Wind Turbine Build Out

Distance Calculation Tool

OE/AAA Account

Login

New User Registration

Instructions

Information Resources

FAA Acronyms

Forms

Regulatory Policy

Relevant Advisory Circulars

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The tool below will assist in applying Part 77 Notice Criteria.

44 Deg 16 M 28 S N -
93 Deg 18 M 37 S W -
NAD83 -
1088 (nearest foot)
10 (nearest foot)
No Traversew ay (Additional height is added to certain structures under 77.9(c))
No Yes Submit



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Other Stakeholders



June 27, 2014

Ms. Deborah R. Pile Minnesota Department of Commerce Energy Environmental Review and Analysis 85 Seventh Place East, Suite 500 St. Paul MN 55101-3165

Re: Request for a Size Determination for the 100 MW Aurora Distributed Solar Project

Dear Ms. Pile:

Enclosed please find Aurora Distributed Solar, LLC's ("Aurora") request for a size determination from the Minnesota Department of Commerce ("Department") for Aurora's up to 100 MW-alternating current ("AC") ("100 MW") nameplate capacity distributed solar project (the "Project"). The Project consists of up to 24 different solar facilities sized between 1.5 MW and 10 MW located throughout Xcel Energy's Minnesota service territory. Because the distributed facilities share common characteristics of a single project that exceeds 50 MW, Aurora plans to seek a site permit for the Project from the MPUC.

Aurora appreciates the Department's consideration of this size determination request for the Aurora Project and looks forward to working with interested stakeholders throughout the site permit process. Please let us know if you have any questions or need any additional information to make a determination.

Sincerely,

challe, Betsy Engelking (

Vice President Geronimo Energy betsy@geronimoenergy.com 952.358.5684

David Post VP Business Development Enel Green Power North America David.Post@enel.com (858) 568 - 8119

Encl: Size Determination Request Form and Exhibit A (Maps)

50862037_1.DOCX

Solar Energy Generating Systems Size Determination



Request Form

This form has been developed by Minnesota Department of Commerce, Energy Environmental Review and Analysis staff, pursuant to Minnesota Statute § 216E.021, to gather information that will assist the Department in determining whether a combination of proposed Solar Energy Generating Systems meets the definition of a large electric power generating plant and is subject of the Minnesota Public Utilities Commission's siting authority.

Instructions: Please answer each question as completely as possible. Maps and supporting information should be provided on separate pages and attached.

This form can be made available electronically, and can be completed and submitted as an electronic document.

Please complete the form, sign it, date it, and return the completed form to:

Deborah Pile Minnesota Department of Commerce Office of Energy Security 85 7th Place East, Suite 500 St. Paul, MN 55101-2198

Phone: 651-539-1837 Fax: 651-539-0109 Email: deborah.pile@state.mn.us

A. Project Description

Please describe the project, including project name, number of Solar Energy Generating Systems in the project, combined nameplate capacity of the Solar Energy Generating Systems in the project and purpose.

Aurora Distributed Solar, LLC ("Aurora") requests that the Minnesota Department of Commerce ("Department") provide a size determination for Aurora's up to 100 MWalternating current ("AC") ("100 MW") nameplate capacity distributed solar project (the "Project"). The Project consists of up to 24 different solar energy generating systems sized between 1.5 MW and 10 MW located throughout Xcel Energy's Minnesota service territory.

Geronimo Energy, LLC ("Geronimo") proposed the Project as a distributed, renewable alternative to natural gas and market capacity bids submitted through a competitive resource acquisition process to meet Xcel's needs for additional capacity resources. Through the competitive resource process, the Minnesota Public Utilities Commission ("MPUC") evaluated the benefits and impacts of the Project as a whole, noting its positive attributes as a distributed, renewable resource for meeting Xcel's needs. The Project was selected by the MPUC in its May 23, 2014 Order Directing

Xcel to Negotiate Agreements in Docket No. E002/CN-12-1240 ("PPA Order") to negotiate a power purchase agreement with Xcel Energy. Aurora is currently negotiating a single 100 MW power purchase agreement with Xcel pursuant to the PPA Order.

Because the distributed facilities share common characteristics of a single project that exceeds 50 MW, Aurora plans to seek a site permit for the Project from the MPUC. Aurora is requesting a size determination from the Department pursuant to Minnesota Statutes Section 21E.021 so that it can proceed with the permitting process and meet the schedules established in Docket No. E002/CN-12-1240.

B. Project Design and Location

Please provide the following information regarding the design and location of the proposed project:

B.1 Please describe each proposed Solar Energy Generating System including: (1) solar generating equipment and associated facilities, (2) location of the facilities comprising the project (county, township, and sections), (3) the area within the project boundary (acres), and (4) area within the project boundary that will be developed for the solar project (acres).

1) Solar Generating Equipment and Associated Facilities

a) Photovoltaic Arrays and Solar Field

The solar field at each facility will consist of the following equipment:

- PV modules mounted on a ground mounted tracker system;
- Indoor and/or outdoor solar inverters mounted on metal pad skids;
- Outdoor LV/MV transformers mounted on metal pad skids;
- Electrical cabin(s);
- Solar inverters;
- Security fence;
- Weather station;
- Balance of plant equipment and facilities; and
- Operations and maintenance areas, as applicable.

b) Interconnection Facilities

The solar energy generating systems are planned to connect directly to the electrical distribution system. The utility will provide a service line (through an aboveground or below-ground distribution feeder) to the points of interconnection, which are located within the facility control boundaries. See maps provided in Exhibit A.

2) Location

Aurora is proposing to build up to 24 solar energy generating systems within 16 counties in southern Minnesota. Table B.1.2 lists the locations of each of the proposed facilities:

Facility	County	Township/Range/Section	Coordinates
Albany	Stearns	Sections 8 & 17, T 125N, R	N45.641536,
5		31W	W94.599465
Annandale	Wright	Section 32, T 121N, R 27W	N45.250813,
	-		W94.111136
Atwater	Kandiyohi	Section 1, T 119N, R 33W	N45.140809,
	-		W94.769319
Brooten	Stearns	Section 31, T 124N, R 35W	N45.508304,
			W95.125572
Chisago	Chisago	Section 12, T 34N, R 21W	N45.452567,
County			W92.902101
Dodge Center	Dodge	Section 32, T 107N, R 17W	N44.026, W92.882
Eastwood	Blue Earth	Section 14, T 108N, R 66W	N44.154883,
			W93.916250
Fiesta City	Chippewa	Section 9, T 117N, R 40 W	N44.955163,
			W95.688693
Hastings	Washingto	Section 8, T 26N, R 20W	N44.759294,
-	n		W92.824906
Lake Emily	Le Sueur	Section 24, T 110N, R 26W	N44.322, W93.903
Lake Pulaski	Wright	Section 15, T 120N, R 25W	N45.196, W93.812
Lawrence	Chisago	Section 27, T 34N, R 19W	N45.401744,
Creek	Ū		W92.693699
Lester Prairie	McLeod	Section 25, T 117N, R 27W	N44.908663,
			W94.028319
Mayhew Lake	Benton	Section 12, T 36N, R 31W	N45.619, W94.152
Montrose	Wright	Section 2, T 118N, R 26W	45.056128, -
	_		93.922565
Paynesville	Stearns	Section 4, 8 & 9, T 122N, R	N45.391063,
		32W	W94.721433
Pine Island	Goodhue	Section 31, T109N, R 15W	44.205082, -
			92.663968
Pipestone	Pipestone	Section 11, T106N, R 46W	N44.003685,
			W96.335801
Scandia	Chisago	Section 35, T 33N, R 20W	N45.3019,
			W92.7995
Waseca	Waseca	Section 12, T 17N, R 23W	N44.092142,
			W93.530960
West	Rice	Section 2, T 109N, R 21W	N44.274971,
Faribault			W93.310803
West	Carver	Section 1, T 115N, R 26W	N 44.793445,
Waconia			W93.901329
Wyoming	Chisago	Section 32, T 33N, R 21W	N45.309594,
			W92.980591
Zumbrota	Goodhue	Section 25, T 110N, R 16W	N44.299, W92.69

 Table B.1.2
 Location of Distributed Facilities

3) Area within Project Boundary

The solar facilities range in size from 13 to 294 acres, and will have nominal generation capacities (MW-AC) ranging from approximately 1.5 MW to 10.0 MW. Table B.1.3 summarizes the nameplate capacity, number of acres within the land control boundary and preliminary number of acres expected to be developed for each facility. While the aggregate capacity of the Project will not exceed 100 MW, the aggregate nameplate capacity of the facilities listed in Table B.1.3 exceeds 100 MW because the table includes all facilities under consideration. The final list of facilities to be constructed will be determined based on environmental, permitting, interconnection, economic and other considerations.

Facility	MW-AC*	Land Control boundary (acres)	Preliminary Development Area (acres)
Albany	10	230.6	107.4
Annandale	6	70.6	70.6
Atwater	4	40.1	36.3
Brooten	1.5	13.0	13.0
Chisago County	7.5	62.4	60.6
Dodge Center	6.5	68.5	60.0
Eastwood	5.5	49.7	49.7
Fiesta City	2.5	25.6	25.6
Hastings	5	40.6	40.6
Lake Emily	5	46.9	42.4
Lake Pulaski	8.5	75.8	63.2
Lawrence Creek	4	74.3	39.4
Lester Prairie	3.5	29.9	26.0
Mayhew Lake	4	36.0	21.8
Montrose	4	37.7	34.8
Paynesville	10	261.9	108.4
Pine Island	4	45.9	39.6
Pipestone	2	15.8	14.7
Scandia	2.5	24.4	23.3

 Table B.1.3
 Capacity and Area of Distributed Facilities

Facility	MW-AC*	Land Control boundary (acres)	Preliminary Development Area (acres)
Waseca	10	89.2	85.2
West Faribault	5.5	85.5	59.4
West Waconia**	8.5	75.7	78.1
Wyoming	7	67.3	62.0
Zumbrota	3.5	35.6	31.9

* The final MW-AC nameplate capacity of each solar energy generating system may vary based on the technology selected and final design.

** Preliminary Development Area boundary is larger than the Facility Land Control boundary in this particular instance to accommodate possible interconnection in the public right-of-way on the north side of Highway 5/25.

B.2 Please describe the anticipated point of electrical interconnection for each Solar Energy Generating System. If the interconnect is anticipated to be at a transmission level, please describe the status of the proposed Solar Energy Generating System within the Midwest Independent Transmission System Operator (MISO) interconnection queue. If any Solar Energy Generating System has been given a MISO project number, please include it.

The anticipated point of interconnection for each solar energy generating system is shown on Exhibit A. Aurora has submitted distribution interconnection requests to Xcel Energy for each of its planned facilities. Each of the requests has been accepted as complete by Xcel Energy, and engineering analysis for each facility is either pending or complete. All engineering studies are expected to be complete mid-summer 2014.

B.3 A map of each Solar Energy Generating System showing the proposed facility boundary, the interconnection site, anticipated solar module layout, and associated facilities. "Associated facilities" includes access roads, collector and feeder lines, and substations.

The map should be a USGS survey map or current aerial photography or similar. The map must include a scale.

Exhibit A includes maps of the Project, including an overview map and maps of each facility showing the facility control boundary (area under purchase, easement or lease), the preliminary planned point of interconnection, current anticipated solar module layout and associated facilities are also depicted on the maps; however, they may be modified based on environmental, permitting, interconnection, economic and other considerations.

C. Applicant Information

C.1 Please provide the name, address, e-mail, and telephone number of the applicant and any authorized representative.

Name:	Aurora Distributed Solar, LLC
Address:	One Tech Drive, Suite 220 Andover MA 01810
Telephone:	(858) 568 - 8119
Authorized Representative:	David Post

C.2 Please provide the name, address, e-mail, and telephone number of the person or persons who would prepare the application to the Minnesota Public Utilities Commission or to a Minnesota county or local unit of government, if such an application would be prepared by an agent or consultant of the applicant.

Nathan Franzen	Joan Heredia, Director,	Joyce Pickle
Director of Solar	Environmental Compliance	WEST, Inc.
Geronimo Energy	Enel Green Power	1710 Douglas Drive,
7650 Edinborough Way,	North America, Inc.	Suite 283
Suite 725	3636 Nobel Drive #475	Golden Valley, MN 55422
Edina, MN 55435	San Diego, CA 92122	jpickle@west-inc.com
nathan@geronimoenergy.com	Joan.Heredia@enel.com	(612) 875-6457
(952) 988-9000	(619) 507-4130	

C.3 Please briefly describe the applicant's business entity including its ownership and financial structure.

Aurora Distributed Solar, LLC is a Delaware limited liability company authorized to do business in Minnesota. Aurora is a wholly-owned subsidiary of Enel Kansas, LLC. Enel Kansas, LLC is a wholly-owned subsidiary of Enel Green Power North America, Inc. ("EGPNA"). As discussed in Section 3.2 of Geronimo's April 15, 2013 Distributed Solar Energy Proposal in Docket No. E002,CN/12-1240, Geronimo Energy and EGPNA are strategic partners, and EGPNA has significant experience owning and operating renewable projects throughout North America. EGPNA recently acquired the Project from Geronimo to facilitate the next stages of project development and financing.

Responses to Questions C.4 and D.3 provide a list of the special purpose vehicles and ownership structure that will be utilized for the Project.

C.4 Please provide the Minnesota Secretary of State organizational ID number for the applicant business entity, all subordinate entities, and all solar developer entities involved with the project.

Permittee: Aurora Distributed Solar, LLC: 5509672(DE); MN 764332000021 Developer: Geronimo Energy, LLC: 2361733-3

Special Purpose Vehicles (wholly-owned subsidiaries of Aurora Distributed Solar, LLC):

NAME	MINNESOTA ORGANIZATIONAL ID #
Albany Solar, LLC	764276700088
Annandale Solar, LLC	764276700076
Atwater Solar, LLC	764276700064
Brooten Solar, LLC	764431400022
Chisago Solar, LLC	764276700052
Dodge Center Distributed Solar, LLC	764276700040
Eastwood Solar, LLC	764276700038
Fiesta City Solar, LLC	764276700033
Hastings Solar, LLC	764275500045
Lake Emily Solar, LLC	764276700026
Lake Pulaski Solar, LLC	764275500110
Lawrence Creek Solar, LLC	764275500108
Lester Prairie Solar, LLC	764275500095
Mayhew Lake Solar, LLC	764275500083
Montrose Solar, LLC	764275500071
Paynesville Solar, LLC	764275500069
Pine Island Distributed Solar, LLC	764275500057
Pipestone Solar, LLC	764275500021
Scandia Solar, LLC	764431400034
Waseca Solar, LLC	764431400046
West Faribault Solar, LLC	764431400058
West Waconia Solar, LLC	764431400072
Wyoming Solar, LLC	764431400060
Zumbrota Solar, LLC	764431400084

C.5 Please identify and provide contact information for the person or persons who would be the permittees, if different than the applicant, if the Solar Energy Generating Systems were permitted by the Minnesota Public Utilities Commission, and, alternately, if they were permitted by a Minnesota county.

Aurora Distributed Solar, LLC will be the permittee if the Project is permitted by the MPUC. Each of the underlying SPVs and associated facilities will be covered by a

single site permit, and Aurora will remain the permittee with ultimate responsibility for complying with all permit conditions.

D. Project Characteristics

D.1 Please describe who will be constructing the project.

Aurora has not yet selected a contractor to build the project. Aurora anticipates it will use one or more experienced contractors to build the entire Project.

D.2 Please describe who will be operating and maintaining the project.

Aurora has not yet selected a contractor to operate and maintain the Project. Operations and maintenance activities will be conducted in conformance with prudent industry standards and most likely through a combination of affiliate employees and one or more qualified third party contractors. Aurora will continue to oversee all operations and maintenance activities.

D.3 Please describe the ownership structure, sales agreement(s), interconnection(s), revenue sharing, common debt or equity financing, and any other shared characteristics of the project's Solar Energy Generating Systems.

<u>Overall</u>: The Project was proposed as a 100 MW nameplate capacity project as part of Xcel Energy's competitive resource acquisition process in Docket No. E002/CN-12-1240. In that docket, the MPUC evaluated the benefits and impacts of the 100 MW distributed project comprised of the facilities proposed herein as compared to other bid proposals and determined that the Project was the most reasonable and prudent alternative to meet Xcel's needs. The MPUC's evaluation considered the entire 100 MW Project, recognizing its unique benefits as a distributed solar project.

Ownership Structure: Aurora holds the real property rights of each of the facilities and has commenced negotiations with Xcel Energy for a PPA. In order to utilize the Investment Tax Credit, a Federal tax credit available to taxpayers pursuant to the Internal Revenue Code, Aurora has determined that it is necessary to organize a separate limited liability company (commonly referred to as "special purpose vehicle" or "SPV") for each facility. Each of the SPVs listed in C.4 are 100% owned by Aurora Distributed Solar, LLC. Prior to the start of construction of a facility, Aurora will likely transfer all land rights and other assets required to construct and operate the respective facility to a facility SPV to support tax equity financing. Each SPV will remain a wholly-owned subsidiary of Aurora until the date the SPV accepts the tax equity financing, which will likely be just prior to the facility's in-service date but may vary depending upon the tax investor and the final tax structure employed. Aurora anticipates that each SPV will have a substantially identical ownership structure. Aurora has determined that it must utilize the SPVs in order to satisfy the legal and logistical issues related to the different in-service dates (as determined for Federal tax purposes) of each facility in the Project as such relates to how Aurora will monetize the applicable tax credits and net operating losses related to each facility under current tax regulations.

<u>Umbrella Sales Agreement</u>: Pursuant to the PPA Order, Aurora is negotiating a power purchase agreement with Xcel under which Aurora will sell the full energy output of the 100 MW Project to Xcel. Under the PPA Order, Aurora and Xcel have up to four months to complete negotiations, and then the PPA will be presented to the MPUC for approval.

<u>Interconnection</u>: Each facility will be separately interconnected to Xcel distribution facilities located throughout Xcel's Minnesota service territory.

<u>Revenue Sharing</u>: Aurora, likely through the respective SPVs, will earn revenue from the sale of energy and other attributes pursuant to the PPA. Revenue will be used to pay all applicable expenses, including land lease payments, taxes and operation and maintenance expenses. In addition, revenue will be used to pay the lenders, if any, tax equity investors and Project owner in accordance with any loan and investment agreements entered into to finance the development, acquisition of equipment and construction of the Project in the most economic and tax efficient manner available for the Project, as determined by Aurora.

<u>Common Debt or Equity Financing</u>: As discussed above, Aurora anticipates securing one or more tax equity investors for the Project. Tax equity is expected to invest in each SPV at the appropriate time to meet ITC eligibility requirements. Aurora intends to seek out a single tax investor or one single tax investor group to invest in all of the facilities comprising the Project.

D.4 Please identify any existing Solar Energy Generating Systems in Minnesota in which the applicant, or a principal, partner, or affiliate of the applicant, has an ownership or other financial interest.

None.

D.5 Please identify any Solar Energy Generating Systems in Minnesota which share any of the following with the proposed project: power purchase agreement, interconnection, revenues, debt or equity financing.

Each of the solar energy generating systems listed in B.1 above are part of the Project and share common characteristics as described in D.3. There are no other solar energy generating systems in Minnesota that share a PPA, interconnection, revenues or debt or equity financing with the Project.

E. Project Construction

E.1 Please provide the anticipated schedule for completing each proposed Solar Energy Generating System, including dates for permitting, construction (start and end dates), and commercial operation.

Aurora plans to submit its site permit application under the MPUC's alternative review process in July 2014. Aurora anticipates the site permit process will take 6 – 9 months to complete, in accordance with Minnesota Statutes and Rules. Aurora plans to begin construction approximately within 90 to 120 days after a site permit is

issued and anticipates construction will take approximately 12 months to complete. The Project's in-service date for all facilities is expected to be no later than December 31, 2016.

E.2 Please identify any additional Solar Energy Generating Systems in Minnesota in which the applicant (or a principal, partner, or affiliate of the applicant) has an ownership or other financial interest and plans to construct within 12 months of the proposed project.

> Geronimo is currently developing the following solar energy generating systems in Minnesota.

- Lindy Solar, LLC, Lindy Solar, Morrison County, 10 MW, Early Stage Development, Unknown Construction
- Sunrise Solar, LLC, Sunrise Solar, Chisago County, 50 MW, Early Stage Development, Unknown Construction
- Mapleton Solar, Blue Earth County, 25 MW, Early Stage Development, Unknown Construction
- Rosemont Solar, Dakota County, 25 MW, Early Stage Development, Unknown Construction

While it is possible that one or more of these projects could be constructed within 12 months of the Aurora Project, the timing of construction of these other projects is unknown at this time and will depend on a number of commercial and environmental considerations.

Signature:

David Post

Title: VP Business Development, Enel Green Power North America

Date: June 27, 2014

Signature:

mailly: Betsy Engelking (

Title: Vice President, Geronimo Energy

Date: June 27, 2014



REGARDING:	Sno-Go Trail Intersection with the Aurora Solar Project – West Faribault Facility
MEETING:	Phone Conversation
DATE:	6-12-2014
ATTENDEES:	Petros Paulos (Geronimo Energy Solar Intern), Richard Larson (Sno-Go Trail Administrator)
NOTES BY:	Petros Paulos

- Mr. Richard Larson, the Sno-Go Trail Administrator¹, was contacted via a phone call (contact information below) on Thursday June 12, 2014 with an inquiry on the protocol that Sno-Go would require to relocate a trail that intersected the West Faribault facility for the Aurora Solar Project.
- Mr. Larson stated, that Geronimo Energy would only be required to provide the Sno-Go trail Administrator (Mr. Larson), with a map of where the solar farm will be located and Sno-Go would move the trail a safe distance around the solar facility. Mr. Larson also stated, that this should be done with any potential construction that may impede a Sno-Go trail by early fall at the latest so Sno-Go would have ample time to adjust the trail for the upcoming winter snowmobilers.
- As a result of the phone conversation, Mr. Paulos emailed Mr. Larson a map of the outline of the solar farm. It should be noted that this map only showed the development area boundary, not including: the details on the arrays, grading or any other construction notes.

Contact information Richard Larson, Sno-Go Trail Administrator 507-323-0174

¹ http://sno-go.org/club-info/club-officers/







Maps Sent to Agencies



PROJECT OVERVIEW

The Aurora Solar Project is a 100 megawatt (MW) peaking resource proposal for Xcel Energy. The project is being developed by Geronimo Energy. Aurora utilizes solar arrays ranging in size from 2 MW to 10 MW across Xcel's service territory. With arrays located throughout 16 counties in Minnesota, the Aurora Solar Project will bring energy to the grid efficiently and cost-effectively while protecting the environment.

PROJECT DETAILS

The project will interconnect to multiple Xcel Energy substations across Minnesota, providing energy and capacity for the local distribution network. This unique design will deliver many benefits including a reduction in line loss, elimination of transmission costs, and geographic diversification of generation assets. As a peaking resource, the Aurora Solar Project will provide a cost effective alternative to fossil fuel resources.

ABOUT GERONIMO ENERGY

Geronimo Energy is a utility-scale wind and solar energy developer based in Edina, Minnesota. Geronimo has developed approximately 1,000 megawatts of operating and contracted wind farms and solar projects throughout the United States, and has a pipeline of projects that boast an aggregate nameplate capacity exceeding 3,000 megawatts of clean energy - roughly enough to power one million American homes. Geronimo solar projects provide clean electricity to utilities and other large energy consumers.





Location: 16 Minnesota counties, including: Benton, Blue Earth, Carver, Chippewa, Chisago, Dodge, Goodhue, Kandiyohi, Le Sueur, McLeod, Pipestone, Rice, Stearns, Waseca, Washington, and Wright

Project Developer: Geronimo Energy

Number of Sites: ~25

Construction Timeline: 2015 - 2016, or 4-9 months for each site (estimated)

Project Cost: ~\$250 million

Local Tax Revenue: up to \$240,000 annually*

Expected COD: December 1, 2016

*Based on MN Production Tax for large wind-energy electricity generating systems (80% to counties and 20% to cities and townships)



7650 EDINBOROUGH WAY, SUITE 725 | EDINA, MN 55435 | PHONE: 952.988.9000

www.geronimoenergy.com







Albany Solar Site - 1/2 Mile Buffer AURORA Stearns County, Minnesota Aurora Solar Project n Geronimo Energy

2,500 Feet









Annandale Solar Site - 1/2 Mile Buffer AURORA SOLAR Wright County, Minnesota Aurora Solar Project Aurora Solar Project n Geronimo Energy

2,000 Feet








Atwater Solar Site - 1/2 Mile Buffer AURORA SOLAR Kandiyohi County, Minnesota Aurora Solar Project Aurora Solar Project 0 Geronimo Energy

2,000 Feet









Brooten Solar Site - 1/2 Mile Buffer AURORA Stearns County, Minnesota Aurora Solar Project 0 Geronimo Energy

1,780 Feet

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& Associates, Inc

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Chisago County Solar Site - 1/2 Mile Buffer AURORA SOLAR Chisago County, Minnesota Aurora Solar Project n Geronimo Energy

2,000 Feet









Dodge Center Solar Site - 1/2 Mile Buffer AURORA SOLAR Dodge County, Minnesota Aurora Solar Project Aurora Solar Project 0 Geronimo Energy

2,500 Feet







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Eastwood Solar Site - 1/2 Mile Buffer AURORA SOLAR Blue Earth County, Minnesota Aurora Solar Project Aurora Solar Project 0 Geronimo Energy

2,500 Feet



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Fiesta City Solar Site - 1/2 Mile Buffer AURORA Chippewa County, Minnesota Solar Aurora Solar Project Aurora Solar Project 0 Geronimo Energy

2,500 Feet



Ν







Hastings Solar Site - 1/2 Mile Buffer AURORA SOLAR Washington County, Minnesota Aurora Solar Project 0 Geronimo Energy

2,000 Feet

