



Avian Best Management Practices

For the Center to Grand Forks Project, Minnkota will follow design guidelines and use bird flight diverters, where required, to minimize potential impacts to avian species. The CGF Project team will work with federal and state agencies to identify areas of critical habitat for sensitive species including the whooping crane where bird flight diverters may be required.

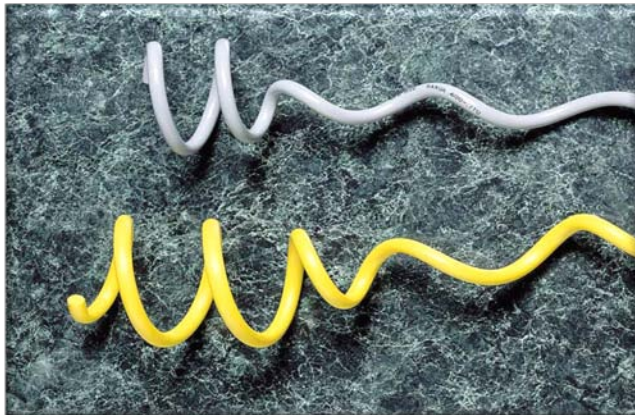
Design guidelines

- ▶ The Project will follow design guidelines set in *Suggested Practices for Avian Protection on Power Lines* and *Mitigating Bird Collisions with Power Lines*. In addition, this Project will utilize bird flight diverters to help protect all species of birds that are in the area.
- ▶ The transmission line is designed with large enough conductor spacing that the electrocution risk of birds is eliminated.

Bird flight diverters

- ▶ Bird flight diverters are used to make the line appear larger to flying birds, thus helping them to avoid collisions with the wires.
- ▶ When properly installed, bird flight diverters have proven to significantly reduce bird collisions and injury.
- ▶ Below are examples of typical flight diverters used on transmission lines.

Spiral type diverters



Firefly type diverters

