



AN ALLETE COMPANY

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January 9, 2017

**VIA EMAIL and US MAIL**

Mr. Darrell Nitschke  
Executive Secretary  
North Dakota Public Service Commission  
600 E. Boulevard Ave., Dept. 408  
Bismarck, ND 58505-0480

RE:	Bison 1 Wind Project Oliver/Morton Counties Siting Application Case No. PU-09-151	Bison 2 Wind Project Oliver/Morton Counties Siting Application Case No. PU-11-57	Bison 3 Wind Project Oliver/Morton Counties Siting Application Case No. PU-11-162	Bison 4 Wind Project Oliver/Morton Counties Siting Application Case No. PU-13-127
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Dear Mr. Nitschke:

Please find copies of Minnesota Power's 2016 Wildlife Incident Report for filing in the above-referenced cases.

Please let us know if you have any questions.

Yours truly,

David R. Moeller

DRM:sr

Attachments

c: Benjamin Reister, ALLETE Renewable Resources  
Jim Atkinson, Minnesota Power  
Barry Gartner, Minnesota Power  
Todd Simmons, Minnesota Power  
Dan McCourtney, Minnesota Power

# **Minnesota Power 2016 Wildlife Impact Report** **For the Bison 1, 2, 3 & 4 Wind Facilities**

Bison 1 (PU-09-151), Bison 2 (PU-11-57), Bison 3 (PU-11-162), Bison 4 (PU-13-127)



A WIND ENERGY INITIATIVE OF MINNESOTA POWER IN NORTH DAKOTA



**Minnesota Power 2016 Wildlife Impact Report- Not For Public Disclosure**

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## **Introduction**

Throughout 2016 Minnesota Power (an operating division of ALLETE, Inc.) has been operating wind energy conversion facilities (Facilities) in west central North Dakota. As part of Minnesota Power's commitment to environmental stewardship and continual evaluation of facility impacts, regular wildlife inspections are performed at its Facilities throughout the year. The following is Minnesota Power's 2016 Annual Wildlife Impact Report which reviews the wildlife inspection results for the Bison 1, 2, 3 and 4 Facilities in North Dakota.

In 2016 Minnesota Power's Bison 1 (81.8 MW), Bison 2 (105 MW), Bison 3 (105 MW) and Bison 4 (204.8 MW) Facilities were all operational. All four Facilities combine for a total of 165 turbines. A Bison 1, 2, 3 & 4 Facility (Bison) map is included as Figure 1. This 2016 Annual Wildlife Impact Report covers all Bison turbines and associated infrastructure.

This report has been developed for Minnesota Power's use and is distributed to personnel or agencies outlined in this report. The Minnesota Power 2016 Wildlife Impact Report is reviewed by Minnesota Power environmental staff, Bison Facility personnel and management. It is used to analyze potential avian or bat impacts to determine if adaptive management measures are required for either the entire Facility or individual Facility structures.

Minnesota Power distributes copies of this report to the North Dakota Public Service Commission to be incorporated into their records/research. A Wildlife Impact Report is generated every year for the operational life of Minnesota Power's Bison Facilities and will be distributed by January 15<sup>th</sup> of each year.

## **Inspections/Data Collection**

This 2016 Wildlife Impact Report includes data collected from all 165 operational turbines at the Bison Facility, as well as data collected from the Bison Operations and Maintenance (O&M) facility, the Bison and Tri-County Substations (substations) and four permanent meteorological (met) towers. Each turbine, O&M facility and substation are inspected for avian and bat mortality, by ALLETE personnel or contractors, at a frequency of at least once per month. Some structures, such as the substations and O&M facility, were inspected at a much higher frequency. When a carcass is found it is left at its location, photographed and a Bison Wildlife Impact Form is completed.

Carcass photos and the associated Bison Wildlife Impact Report Form were entered into Minnesota Power's 2016 Wildlife Incident Database. Individual fatality information can be found in the Bison Wildlife Impact Report Forms located in Appendix A. In addition, monthly inspection cycle results for 2016 are included in the Wildlife Inspection Table (Appendix B).

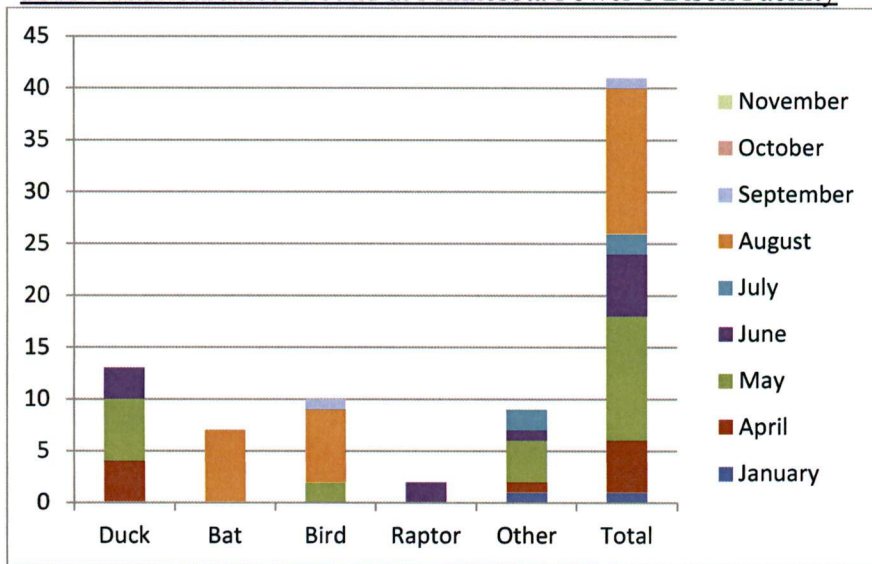
The total wildlife fatalities for 2016 were 41, 34 of which were avian fatalities and 7 were bat fatalities. Specific data for each incident and species can be found in the Bison Wildlife Impact Reports (Appendix A).

Minnesota Power 2016 Wildlife Impact Report- Not For Public Disclosure

**Results**

After reviewing the inspection records and fatalities, no turbine, structure or location showed an elevated risk for avian or bat mortality when compared to surrounding Bison Facility structures. Mortality appears to be dispersed throughout the Bison Facility. Bat carcasses appeared to be most prevalent in August compared to other months throughout the year. Duck carcasses appeared to be more prevalent during spring migration however, an increase was not observed during fall migration, when avian species are typically most vulnerable to collision. The 2016 results are as shown in Table 1-1 below.

**Table 1-1:**  
2016 Avian Carcasses Found at Minnesota Power’s Bison Facility

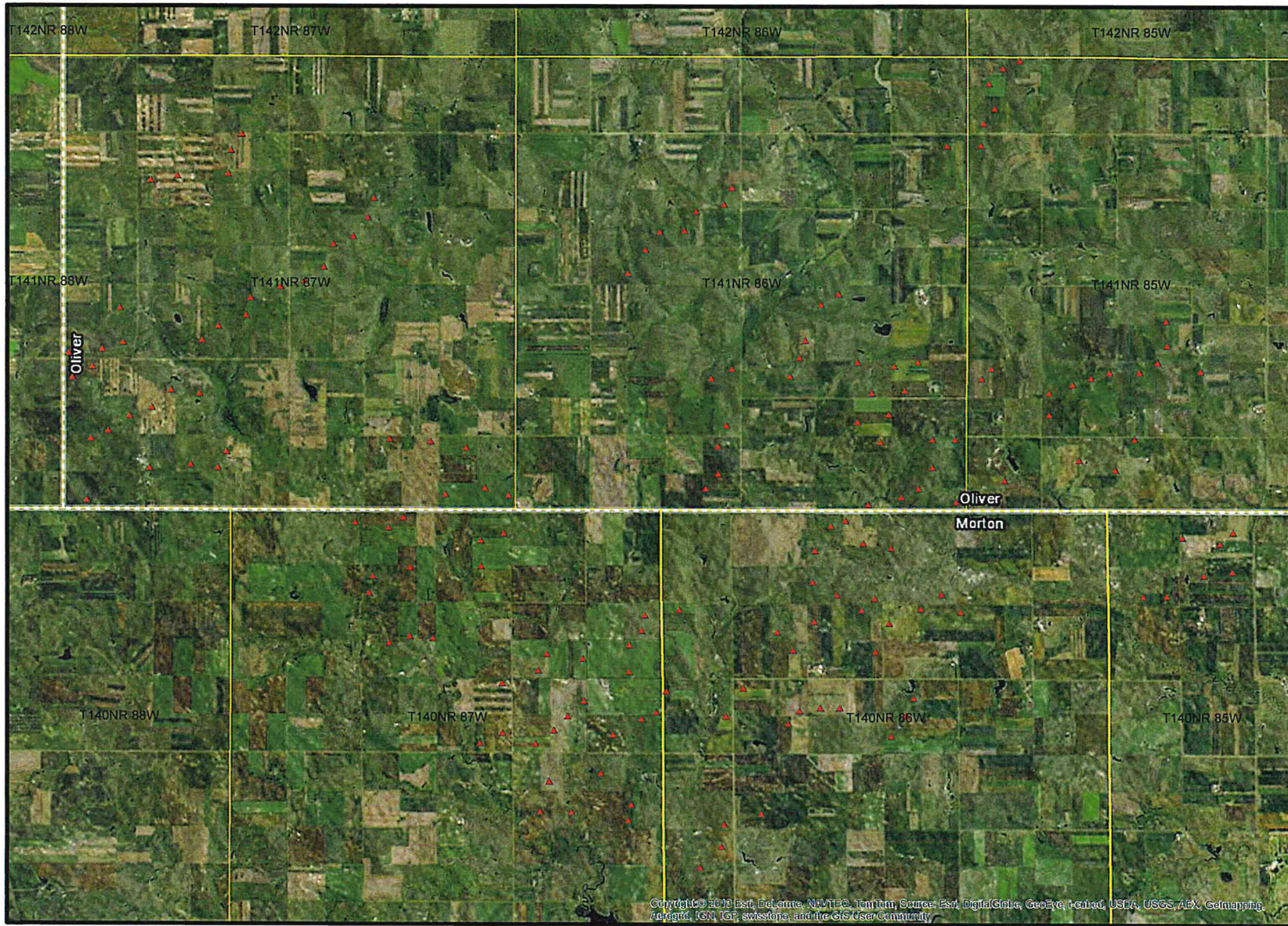


Based on the data available for Minnesota Power’s Bison Facilities, there is no conclusive evidence that would indicate additional adaptive management activities should occur. It appears, from the data provided, that the Bison Facility poses a low risk to surrounding and migrating avian and bat populations.

**Figure 1**

- Bison 1, 2, 3 & 4 Project Area

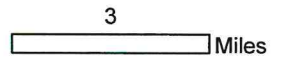
# Minnesota Power Bison 1, 2, 3 & 4 Project Area



**Figure 1**

**Legend**

- ▲ MP Bison Wind Turbines
- Townships



**Appendix A**  
**- Wildlife Impact Reports**



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
1-2016(1)	4-Jan-16	15:20	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	4-Jan-16	435	46.989829	-101.728719
<u>Location Remarks:</u> Ten feet North of tower 435				
<u>Species</u> Pheasant				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	1-2 days	January 2nd or 3rd	Mitchell Bettenhausen	
<u>Other Notes:</u> The pheasant looked very fresh. No tracks around animal that were seen.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
4-2016(1)	7-Apr-16	13:30	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Alex Gilbert	7-Apr-16	T4	46.961932	-101.540265
<u>Location Remarks:</u> Located on stairs to tower 4				
<u>Species</u> Pheasant				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Dead	UnKnown	Unknown	R Kumerow	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u> 4-2016(2)	<u>Date</u> 20-Apr-16	<u>Time of Day</u> 16:00	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 20-Apr-16	<u>Structure #</u> 19	<u>Latitude/Longitude</u> 46.973866      -101.532074	
<u>Location Remarks:</u> The carcass was approximately 25 ft from the base of the Tower.				
<u>Species</u> Duck				
<u>Physical Condition</u> Dead	<u>Estimated Time Since Death</u> About 2 Days	<u>Estimated Date of Injury</u> 18-Apr-16	<u>Name of Respondent</u> B. Nettleton	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
4-2016(3)	27-Apr-16	11:00AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	27-Apr-16	Tower 327	
<u>Location Remarks:</u> Located N of the tower approximately 75feet			
<u>Species</u> duck			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
deceased	2-3days	25-Apr-16	Andrew Horst
<u>Other Notes:</u> It was fresh, looked like it had been there about two or three days.			



### Bison Wildlife Impact Report

<u>Entry Number</u> 4-2016(4)	<u>Date</u> 27-Apr-16	<u>Time of Day</u> 11:00AM	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 27-Apr-16	<u>Structure #</u> Tower 327	<u>Latitude/Longitude</u> 45.019715521007, 101.100010000000
<u>Location Remarks:</u> Located N of the tower approximately 75feet			
<u>Species</u> duck			
<u>Physical Condition</u> deceased	<u>Estimated Time Since Death</u> 2-3days	<u>Estimated Date of Injury</u> 25-Apr-16	<u>Name of Respondent</u> Andrew Horst
<u>Other Notes:</u> It was fresh, looked like it had been there about two or three days.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
4-2016(5)	27-Apr-16	11:00	death	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	27-Apr-16	327	46.979706	-101.669101
<u>Location Remarks:</u> 75ft west of the tower.				
<u>Species</u> Duck				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	2-3 days	25-Apr-16	Alex Bamberg	
<u>Other Notes:</u>				





### Bison Wildlife Impact Report

<u>Entry Number</u> 5-2016 (2)	<u>Date</u> 16-May-16	<u>Time of Day</u> 0:00	<u>Injury/Fatality</u> Fatal	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 16-May-16	<u>Structure #</u> 410	<u>Latitude/Longitude</u> 47.055308      -101.506012	
<u>Location Remarks:</u> 100ft south west of tower base				
<u>Species</u> Unknown				
<u>Physical Condition</u> Decayed	<u>Estimated Time Since Death</u> 3 weeks	<u>Estimated Date of Injury</u> Coot	<u>Name of Respondent</u> Dittus, J.	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u> 5-2016 (2)	<u>Date</u> 16-May-16	<u>Time of Day</u> 14:30	<u>Injury/Fatality</u> Fatal	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 16-May-16	<u>Structure #</u> 415	<u>Latitude/Longitude</u> 46.985366      -101.584090	
<u>Location Remarks:</u> 200ft west of tower base				
<u>Species</u> Coot				
<u>Physical Condition</u> Intact	<u>Estimated Time Since Death</u> 4 Days	<u>Estimated Date of Injury</u> 4 days	<u>Name of Respondent</u> Dittus, J.	
<u>Other Notes:</u> Bird had no physical signs of trauma and may have died of natural causes.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016(4)	20-May-16	10:30	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	20-May-16	T18	46.982303	101.538523
<u>Location Remarks:</u> The pheasant was laying on the North side of the turbine up against the base bolts.				
<u>Species</u> Female Pheasant				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decapitated	1 day	19-May-16	Mitchell Bettenhausen	
<u>Other Notes:</u> The pheasant was decapitated.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016(5)	20-May-16	16:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	20-May-15	T217	46.941431	101.578477
<u>Location Remarks:</u> The duck was located about 30 feet south of the turbine.				
<u>Species</u> Duck				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	8 days	8 days	Mitchell Bettenhausen	
<u>Other Notes:</u> The duck looked to have been there for awhile.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016(6)	23-May-16	8:30	fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	23-May-16	T14	46.974774	-101.539835
<u>Location Remarks:</u> The bird was laying about 5 feet on the North side of tower 14.				
<u>Species</u> Female Pheasant				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	2 days	2 days	Mitchell Bettenhausen	
<u>Other Notes:</u> The bird was deceased by the tower.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016(7)	24-May-16	15:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	25-May-16	329	46.994326	-101.661530
<u>Location Remarks:</u> Located about 5 feet south east of tower base				
<u>Species</u> pheasant				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
deceased	2 days	22-May-16	alex gilbert	
<u>Other Notes:</u> painted with orange paint				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016(8)	24-May-16	15:15 PM	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	25-May-16	330	46.993126	-101.651511
<u>Location Remarks:</u> Located about 20 feet south east of tower base. It was only a wing				
<u>Species</u> pheasant wing				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
deceased	longer than a week	??	alex gilbert	
<u>Other Notes:</u> painted with orange paint				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016(9)	24-May-16	16:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	25-May-16	442	47.033561	-101.683281
<u>Location Remarks:</u> Located about 25 feet north of tower base				
<u>Species</u> bird				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
deceased	2 days	22-May-16	alex gilbert	
<u>Other Notes:</u> painted with orange paint				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016 (10)	27-May-16	9:00	Fatal	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	27-Mar-16	329	46.994326	-101.661530
<u>Location Remarks:</u> dove was located next to tower pad				
<u>Species</u> Dove				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
fresh	3 days	3 days	Dittus, Jason	
<u>Other Notes:</u> A pheasant was reported at this tower 3 days ago and it was in close proximity so we know that the death was recent.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016 (11)	27-May-16	0:00	Fatal	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	27-Mar-16	26	47.009584	-101.541459
<u>Location Remarks:</u> Mallard was located 50 feet to the north of the tower base				
<u>Species</u> Mallard				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decomposing	2 weeks	2 weeks	Dittus, Jason	
<u>Other Notes:</u> Body began to decompose, no signs of serious trauma to the superficial parts of the body.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2016 (12)	27-May-16	1:00	Fatal	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	27-Mar-16	26	47.009584	-101.541459
<u>Location Remarks:</u> Mallard was located 100 feet to the north east of the tower base				
<u>Species</u> Mallard				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decomposing	1 weeks	1 weeks	Dittus, Jason	
<u>Other Notes:</u> Body began to decompose, no signs of serious trauma to the superficial parts of the body. Body had a significant amount of flies present leading me to believe that the time of death was somewhat recent.				



### Bison Wildlife Impact Report

<u>Entry Number</u> 6-2016(1)	<u>Date</u> 7-Jun-16	<u>Time of Day</u> 10:35	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 7-Jun-16	<u>Structure #</u> 14	<u>Latitude/Longitude</u> 46.9747743214/ -101.539835	
<u>Location Remarks:</u> Bird was found approximately 125-150ft SW of the tower. Bird is decaying pretty good, Could not visually see the head or feet.				
<u>Species</u> Unknown				
<u>Physical Condition</u> deceased/decaying	<u>Estimated Time Since Death</u> ~1 week	<u>Estimated Date of Injury</u> 31-May-16	<u>Name of Respondent</u> Andrew Horst	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
06-2016(2)	21-Jun-16	10:30	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	22-Jun-16	421	47.006767	-101.560441
<u>Location Remarks:</u> 30 feet from base on gravel. North.				
<u>Species</u> Duck				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
deceased	3 weeks +	1-Jun-16	Andrew Horst	
<u>Other Notes:</u> Just head was found. No other parts were nearby.				



### Bison Wildlife Impact Report

<u>Entry Number</u> 06-2016(3)	<u>Date</u> 21-Jun-16	<u>Time of Day</u> 14:30	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 22-Jun-16	<u>Structure #</u> 209	<u>Latitude/Longitude</u> 46.941507      -101.527732	
<u>Location Remarks:</u> 75-100 feet from base on gravel, South.				
<u>Species</u> Red Tailed Hawk				
<u>Physical Condition</u> deceased	<u>Estimated Time Since Death</u> A week	<u>Estimated Date of Injury</u> 15-Jun-16	<u>Name of Respondent</u> Andrew Horst	
<u>Other Notes:</u> Pretty fresh. Not decaying too much.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
06-2016(4)	21-Jun-16	16:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	22-Jun-16	226	46.930508	-101.613631
<u>Location Remarks:</u> 20 feet from base on gravel, East.				
<u>Species</u> Duck				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
deceased	3 weeks	1-Jun-16	Andrew Horst	
<u>Other Notes:</u> Duck decaying pretty good, rotting going on.				



### Bison Wildlife Impact Report

<u>Entry Number</u> 06-2016(5)	<u>Date</u> 22-Jun-16	<u>Time of Day</u> 10:00	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 22-Jun-16	<u>Structure #</u> 332	<u>Latitude/Longitude</u> 46.984056      -101.639549	
<u>Location Remarks:</u> About 50 feet from base on gravel, West.				
<u>Species</u> Duck				
<u>Physical Condition</u> deceased	<u>Estimated Time Since Death</u> 2 weeks	<u>Estimated Date of Injury</u> 8-Jun-16	<u>Name of Respondent</u> Andrew Horst	
<u>Other Notes:</u> Fresher, not decaying to good yet.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
06-2016(6)	30-Jun-16	13:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	30-Jun-16	321	46.955460	-101.673107
<u>Location Remarks:</u> Tail was located north east of tower in grass just beyond gravel pad 135 feet from base of tower. Body was located south east of the tower on the edge of the				
<u>Species</u> Pelican				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
deceased	1 day	29-Jun-16	Alex Gilbert	
<u>Other Notes:</u> Siemens said it wasn't there yesterday morning and they left early due to bad weather. When they arrived at their tower this morning they notified us				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
7-2016(1)	22-Jul-16	10:15	FATAL	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	22-Jul-16	229	46.940833	-101.602133
<u>Location Remarks:</u> Pelican was located approximately 150 feet to the east of the turbine.				
<u>Species</u> Pelican was located approximately 150 feet to the east of the turbine.				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	less than a week	18-Jul-16	J. Dittus	
<u>Other Notes:</u> Head was not attached to animal and was not able to locate it. The body had begun to accumulate maggots leading me to believe the time of death was more than 3 days and less than 7.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
7-2016(2)	25-Jul-16	16:00:00 PM	FATAL	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	25-Jul-16	T28	46.999510	-101.602133
<u>Location Remarks:</u> Pheasant was lokated right next to turbine foundation.				
<u>Species</u> Pheasant was lokated right next to turbine foundation.				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	less than a week	22-Jul-16	Ryan Kumerow	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u> 8-2016(1)	<u>Date</u> 15-Aug-16	<u>Time of Day</u> 11:00	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 15-Aug-16	<u>Structure #</u> O&M Barn	<u>Latitude/Longitude</u>	
<u>Location Remarks:</u> North East corner of the cold storage building.				
<u>Species</u> Sparrow				
<u>Physical Condition</u> Deceased	<u>Estimated Time Since Death</u> 10 days	<u>Estimated Date of Injury</u> 10 days	<u>Name of Respondent</u> Mitchell Bettenhausen	
<u>Other Notes:</u> Seems to have died from natural causes in the cold storage building.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(2)	15-Aug-16	11:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	15-Aug-16	O&M Barn		
<u>Location Remarks:</u> 5ft in front of door on west side of barn.				
<u>Species</u> sparrow				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	10 days	5-Aug-16	Alex Bamberg	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u> 8-2016(3)	<u>Date</u> 15-Aug-16	<u>Time of Day</u> 11:00	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 15-Aug-16	<u>Structure #</u> O&M Barn	<u>Latitude/Longitude</u>	
<u>Location Remarks:</u> 10 ft in front of door on the west side of barn.				
<u>Species</u> sparrow				
<u>Physical Condition</u> deceased	<u>Estimated Time Since Death</u> 10 days	<u>Estimated Date of Injury</u> 5-Aug-16	<u>Name of Respondent</u> Alex Bamberg	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(4)	15-Aug-16	11:10	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	15-Aug-16	O&M Barn		
<u>Location Remarks:</u> South East corner of the cold storage building.				
<u>Species</u> Sparrow				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	10 days	10 days	Mitchell Bettenhausen	
<u>Other Notes:</u> Seems to have died from natural causes in the cold storage building.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(5)	15-Aug-16	11:20	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	15-Aug-16	O&M Barn		
<u>Location Remarks:</u> South west corner of the cold storage building.				
<u>Species</u> Sparrow				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	10 days	10 days	Mitchell Bettenhausen	
<u>Other Notes:</u> Seems to have died from natural causes in the cold storage building.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(6)	15-Aug-16	11:10	fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	15-Aug-16	O&M Barn		
<u>Location Remarks:</u> Next to post by the door on the west side of the barn.				
<u>Species</u> sparrow				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	10 days	5-Aug-16	Alex Bamberg	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u> 8-2016(7)	<u>Date</u> 15-Aug-16	<u>Time of Day</u> 11:20	<u>Injury/Fatality</u> fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 15-Aug-16	<u>Structure #</u> O&M Barn	<u>Latitude/Longitude</u>	
<u>Location Remarks:</u> On the north side of the barn, next to a pallet.				
<u>Species</u> sparrow				
<u>Physical Condition</u> Deceased	<u>Estimated Time Since Death</u> 10 days	<u>Estimated Date of Injury</u> 5-Aug-16	<u>Name of Respondent</u> Alex Bamberg	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(8)	16-Aug-16	13:00	fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	16-Aug-16	T-327	46.979706	-101.669101
<u>Location Remarks:</u> Around 75 feet from tower base.				
<u>Species</u> bat				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	2 Days	14-Aug-16	Brant Nettleton	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(9)	16-Aug-16	13:05	fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	16-Aug-16	T-327	46.979706	-101.669101
<u>Location Remarks:</u> Around 50 feet from tower base.				
<u>Species</u> bat				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	2 Days	14-Aug-16	Brant Nettleton	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(10)	18-Aug-16	11:00	fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	18-Aug-16	T-1	46.985280	-101.524236
<u>Location Remarks:</u> Around 50 feet from tower base.				
<u>Species</u> bat				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Deceased	6 Hours	18-Aug-16	Brant Nettleton	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(11)	22-Aug-16	12:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	22-Aug-16	206	46.990833	-101.479152
<u>Location Remarks:</u> Located about 55 feet North west of turbine base on pad				
<u>Species</u> Bat				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
decaying	1 week	16-Aug-16	Alex Gilbert	
<u>Other Notes:</u> Painted with red paint				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(11)	22-Aug-16	12:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	22-Aug-16	206	46.990833	-101.479152
<u>Location Remarks:</u> Located about 50 feet North of turbine base on the pad				
<u>Species</u> Bat				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
decaying	1 week	16-Aug-16	Alex Gilbert	
<u>Other Notes:</u> Painted with red paint				



### Bison Wildlife Impact Report

<u>Entry Number</u> 8-2016(11)	<u>Date</u> 22-Aug-16	<u>Time of Day</u> 12:00	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 22-Aug-16	<u>Structure #</u> 206	<u>Latitude/Longitude</u> 46.990833      -101.479152	
<u>Location Remarks:</u> Located about 3 feet North of turbine base on the cement under the steps				
<u>Species</u> Bat				
<u>Physical Condition</u> decaying	<u>Estimated Time Since Death</u> 1 day	<u>Estimated Date of Injury</u> 21-Aug-16	<u>Name of Respondent</u> Alex Gilbert	
<u>Other Notes:</u> Painted with red paint				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
8-2016(14)	25-Aug-16	15:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	25-Aug-16	417	46.993498	-101.580628
<u>Location Remarks:</u> Located about 10 feet North of turbine base just past rocks around foundation				
<u>Species</u> Bat				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
decaying	1 week	18-Aug-16	Alex Gilbert	
<u>Other Notes:</u> Painted with red paint				



### Bison Wildlife Impact Report

<u>Entry Number</u> 9-2016(1)	<u>Date</u> 20-Sep-16	<u>Time of Day</u> 10:00	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 20-Sep-16	<u>Structure #</u> Tower 323	<u>Latitude/Longitude</u> 46.968369      -101.677575	
<u>Location Remarks:</u> Pelican was located 35 feet west of tower 323				
<u>Species</u> Pelican				
<u>Physical Condition</u> Severly decayed	<u>Estimated Time Since Death</u> 4+ weeks	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u> Philip Miller	
<u>Other Notes:</u>				

**Appendix B**  
**- Wildlife Inspection Table**





