



David R. Moeller
Senior Attorney
218-723-3963
dmoeller@allete.com

December 12, 2014

VIA EMAIL

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 3 Wind Project Oliver/Morton Counties Siting Application Case No. PU-11-162
	Bison 2 Wind Project Oliver/Morton Counties Siting Application Case No. PU-11-57	

Dear Mr. Nitschke:

Please find attached Minnesota Power's 2014 Wild Life Impact Report for the above-referenced cases. Additionally, the original and 10 copies were mail on today's date.

Please let us know if you have any questions.

Yours truly,

David R. Moeller

DRM:sr
Attach.

cc: Daniel McCartney, Minnesota Power

108 PU-11-162 Filed 12/12/2014 Pages: 51
Wild life impact report
Allete, Inc.
David Moeller

124 PU-11-57 Filed 12/12/2014 Pages: 51
Wild life impact report
Allete, Inc.
David Moeller

185 PU-09-151 Filed 12/12/2014 Pages: 51
Wild life impact report
Allete, Inc.
David Moeller

Minnesota Power 2014 Wildlife Impact Report **For the Bison 1, 2 & 3 Wind Facilities**

For Bison 1 (PU-09-151), Bison 2 (PU-11-57), Bison 3 (PU-11-162)



A WIND ENERGY INITIATIVE OF MINNESOTA POWER IN NORTH DAKOTA



Minnesota Power 2014 Wildlife Impact Report- Not For Public Disclosure

Contents

Minnesota Power 2014 Wildlife Incident Report. Pages 2-3

Figure 1- Bison 1, 2, & 3 Project Area

Appendix A- Wildlife Impact Reports

Appendix B- Wildlife Inspection Table



Introduction

Throughout 2014 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 2014 Annual Wildlife Impact Report which reviews the wildlife inspection results for the Bison 1, 2, and 3 Facilities in North Dakota.

In 2012 Minnesota Power completed construction of its Bison 1 (81.8 MW), Bison 2 (105 MW) and Bison 3 (105 MW) Facilities. All 102 turbines were in operation throughout 2014. A Bison 1, 2 & 3 Facility map is included as Figure 1. This 2014 Annual Wildlife Impact Report covers all Facility 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 2014 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 at Minnesota Power Facilities and determine if adaptive management measures are required for either an entire Facility or an individual Facility structure.

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

Inspections/Data Collection

This 2014 Wildlife Impact Report includes data collected from 102 operational turbines at the Bison 1, 2 & 3 Facilities, as well as data collected from the Bison Operations and Maintenance (O&M) facility, the Bison Substation (substation) and three permanent meteorological (met) towers. Each turbine, O&M facility, substation and met tower was 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 substation and O&M facility, were inspected at a much higher frequency. When a carcass was found at a Facility it was left at its location, photographed and a Bison Wildlife Impact Form was completed.

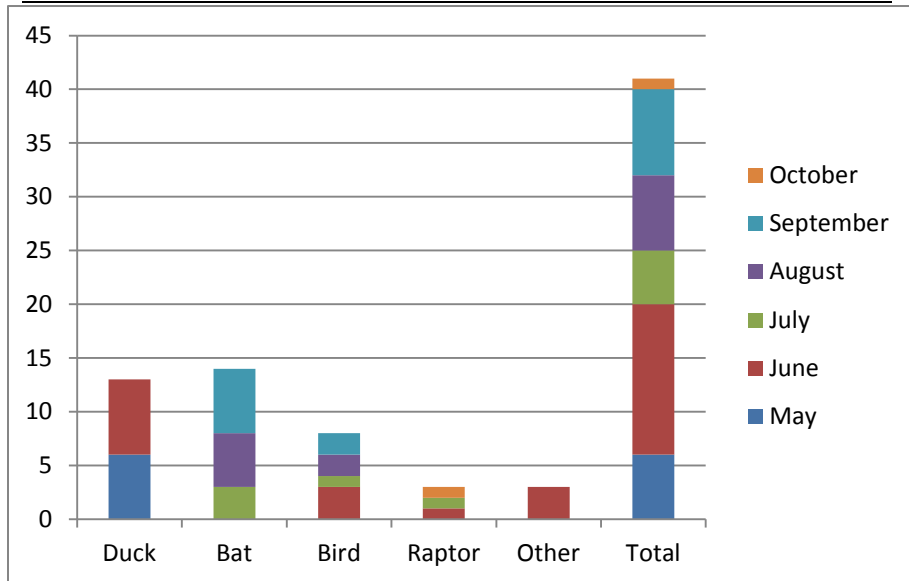
Carcass photos and the associated Bison Wildlife Impact Report Form were entered into Minnesota Power's 2014 Wildlife Incident Database. Individual fatality information can be found in the Bison Wildlife Impact Report Forms located in Appendix A. In addition, the monthly inspection cycle results for 2014 are included in the Wildlife Inspection Table (Appendix B).

The total wildlife fatalities for 2014 were 41, 27 of which were avian fatalities and 14 were bat fatalities. Specific data for each incident and species can be found in the Bison Wildlife Impact Reports (Appendix A).

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 Facility structures. Mortality appears to be dispersed evenly throughout the Bison Facilities. Bat collisions appeared to be more prevalent in the months of August and September than in other months throughout the year. Duck carcasses appeared to be more prevalent May and June than in other months throughout the year. A slight increase in avian carcasses was observed during June, possibly coinciding with late spring migration however, an increase was not observed during fall migration when avian species are typically most vulnerable to collision. These results are as shown in Table 1-1 below.

Table 1-1:
2014 Avian Carcasses Found at Minnesota Power’s Bison Facilities



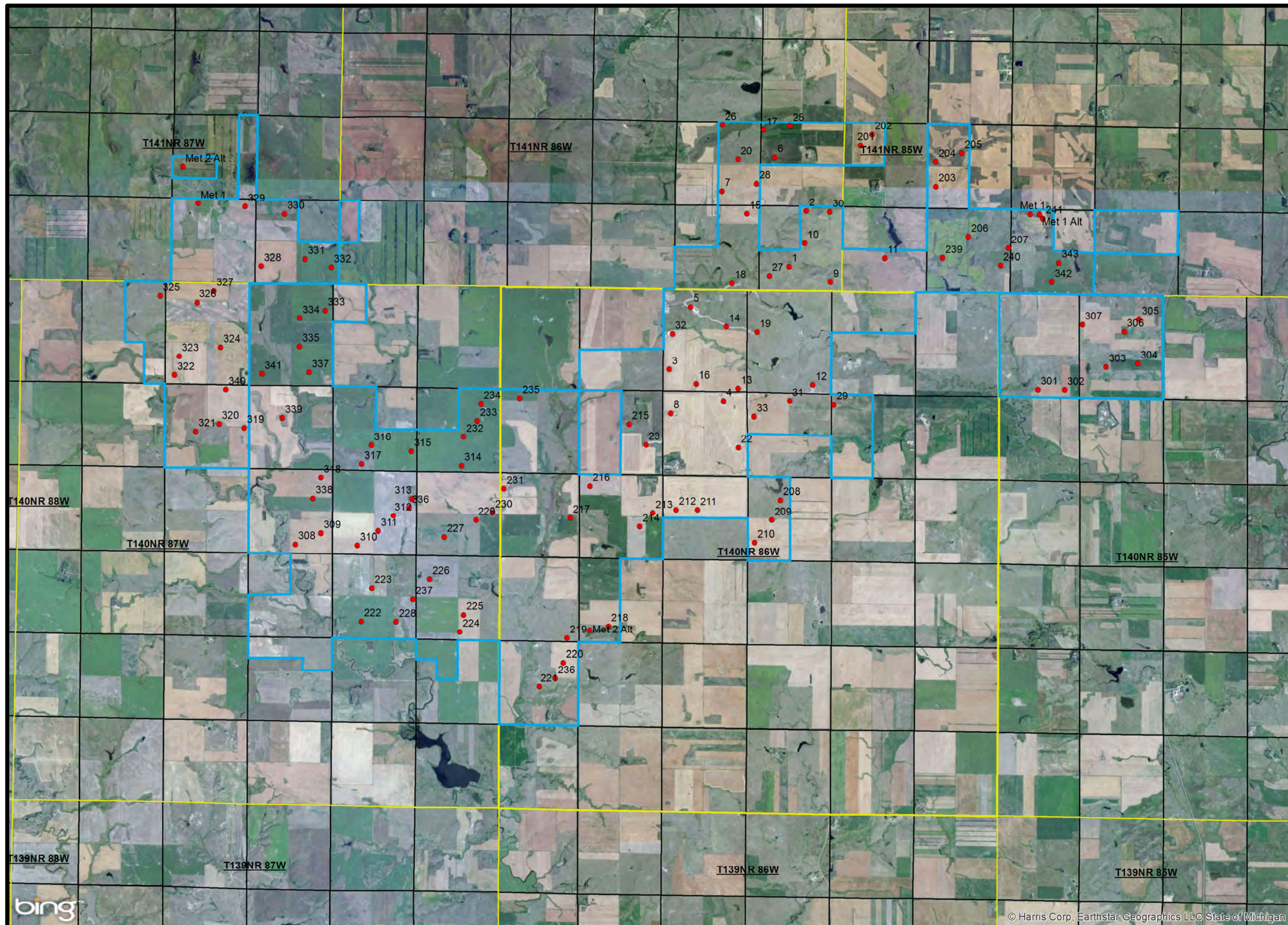
Based on the data available for Minnesota Power’s Bison Facilities, no conclusive data has been collected that would indicate any additional adaptive management activities should occur. It appears that the Facilities pose low risk to surrounding and migrating avian and bat populations.

Figure 1

Bison 1, 2 & 3 Project Area

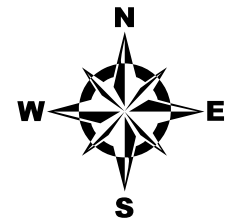
Minnesota Power- Bison 1, 2 & 3 Project Area

Figure 1



Legend

- Bison 1, 2 & 3 Turbine Layout
- ▭ Bison 1, 2 & 3 Project Boundary
- ▭ PLSS_townships
- ▭ PLSS_sections



1.5 Miles



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>
5-2014 (1)	13-May-14	0:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	14-May-14	10	46.989370419, -101.520338938
<u>Location Remarks:</u> Bird was located 200' North East of Wind Tower 10			
<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>
Dead, mangled, eatening up.	1 Week	7-May-14	Philip Miller
<u>Other Notes:</u> Bird appeared to have been there for over a week, insides where gone with rib cage showing, most of its feathers were still on its body but ruffled a lot.			



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2014 (2)	16-May-14	13:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	16-May-14	208	46.944962	-101.525641
<u>Location Remarks:</u> located north east of tower about 60 feet from base of tower				
<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>	
Decaying	5-7 days	10-May-14	Alex Gilbert	
<u>Other Notes:</u>				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
5-2014 (3)	16-May-14	13:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	16-May-14	208	46.944962	-101.525641
<u>Location Remarks:</u> located north east of tower about 30 feet from base of tower				
<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>	
Decaying	5-7 days	10-May-14	Alex Gilbert	
<u>Other Notes:</u>				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
05-2014 (4)	19-May-14	9:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	19-May-14	306	46.974745	-101.439573
<u>Location Remarks:</u> Duck was about 60 feet south west from base of tower				
<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>	
Decaying/ flesh was gone	2 weeks	6-May-14	Alex Gilbert	
<u>Other Notes:</u> Marked duck with pink paint.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
05-2014 (5)	19-May-14	9:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	19-May-14	306	46.974745	-101.439573
<u>Location Remarks:</u> Duck was on the steps going into the tower about a foot away from the tower door				
<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>	
Decaying/ flesh was gone	2 weeks	6-May-14	Alex Gilbert	
<u>Other Notes:</u> Duck was in pieces mostly feathers and bone. The head and wings were separated from body it looks like duck was found by a predator before we found it. Marked duck with pink paint.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
05-2014(6)	23-May-14	12:00	fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	23-May-14	25	47.009553	-101.524428
<u>Location Remarks:</u> located about 40 feet west of tower on the turbine pad				
<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>	
partial of bird leg thigh	1 week or better	May 12-16	Alex Gilbert	
<u>Other Notes:</u> there was only a leg of the bird on the pad siemens noted that there wasent a bird there last Monday when they were at that tower				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(1)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-16	46.964854	-101.547239
<u>Location Remarks:</u> duck at tower 16 is south southwest of tower approximately 45 feet				
<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>	
decaying	7-10 days	1-Jun-14	Alex Gilbert	
<u>Other Notes:</u> Marked with paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(2)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-31	46.962110	-101.523645
<u>Location Remarks:</u> bird is approximately 6 feet north 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>	
Decaying	1 week	3-Jun-14	Alex Gilbert	
<u>Other Notes:</u> Marked with paint. Bird may have flew into tower.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(3)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-235	46.961933	-101.591583
<u>Location Remarks:</u> There is a pheasant about three feet west of tower base with a partial pice about 6 feet south west of 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>	
decaying	2 Weeks	28-May-14	Alex Gilbert	
<u>Other Notes:</u> marked bird with paint. Bird possibly flew into tower. There was large flies around carcass				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(4)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-230	46.942152	-101.598070
<u>Location Remarks:</u> duck is north of base approximately 66 feet				
<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>	
decaying, slightly deformed	1-2 Weeks	1-Jun-14	Alex Gilbert	
<u>Other Notes:</u> marked bird with paint, there was flies around carcasse				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(5)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-227	46.937821	-101.610117
<u>Location Remarks:</u> hawk about 182feet south west from the base of the tower.				
<u>Species</u> Hawk Red Tailed				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
decaying No flies or maggots present	3 weeks	21-May-14	Alex Gilbert	
<u>Other Notes:</u> Marked bird with paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(6)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-318	46.947766	-101.641383
<u>Location Remarks:</u> duck south west of tower about 33 feet				
<u>Species</u> Black Duck				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decaying with a few flies present	3 Weeks	21-May-14	Alex Gilbert	
<u>Other Notes:</u> marked bird with paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(7)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-329	46.994326	-101.661530
<u>Location Remarks:</u> there was two pieces of one duck about 90 feet from the base of tower to the head and 90 feet from the base of the tower to the body and the body and head				
<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>	
Decaying No flies or maggots present	3 Weeks	28-May-14	Alex Gilbert	
<u>Other Notes:</u> Marked bird with paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(8)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-7	46.998130	-101.541363
<u>Location Remarks:</u> duck about 150 feet west of tower at edge of pad				
<u>Species</u> Black Duck				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
decaying, no flies or maggots present	3-Weeks	28-May-14	Alex Gilbert	
<u>Other Notes:</u> Marked with paint.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(9)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-314	46.950159	-101.606020
<u>Location Remarks:</u> Duck was about 70 feet from base of 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>	
Decaying	3 weeks	28-May-14	Alex Gilbert	
<u>Other Notes:</u>				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(10)	11-Jun-14	12:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-14	WTG-31	46.962110	-101.523645
<u>Location Remarks:</u> located about 6 feet south west from base of tower				
<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>	
decaying	1 Week	4-Jun-14	Alex Gilbert	
<u>Other Notes:</u> Marked with paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(11)	30-Jun-14	13:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	3-Jul-14	11	46.986943	-101.500143
<u>Location Remarks:</u> Bird was Found North West of Tower about 60Feet from base of tower				
<u>Species</u> Unknown- Song bird				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decaying	3-4 Weeks	2-Jun-14	Alex Gilbert	
<u>Other Notes:</u> Marked with Paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(12)	30-Jun-14	13:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	3-Jul-14	11	46.986943	-101.500143
<u>Location Remarks:</u> Bird was Found North West of Tower about 45 Feet from base of tower				
<u>Species</u> Unknown- Song bird				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decaying	3-4 Weeks	2-Jun-14	Alex Gilbert	
<u>Other Notes:</u> Marked with Paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
6-2014(13)	30-Jun-14	13:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	3-Jul-14	11	46.986943	-101.500143
<u>Location Remarks:</u> Bird was Found West of Tower about 10 Feet from base of tower				
<u>Species</u> Unknown- Song bird				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
bones	Unknown	Unknown	Alex Gilbert	
<u>Other Notes:</u> Marked with Paint				



Bison Wildlife Impact Report

<u>Entry Number</u> 6-2014(14)	<u>Date</u> 30-Jun-14	<u>Time of Day</u> 13:20	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 3-Jul-14	<u>Structure #</u> 202	<u>Latitude/Longitude</u> 47.008219 -101.503740	
<u>Location Remarks:</u> Duck was located bout 60 Feet North East of tower base on pad				
<u>Species</u> Mallard				
<u>Physical Condition</u> Decaying	<u>Estimated Time Since Death</u> 2 Weeks	<u>Estimated Date of Injury</u> 16-Jun-14	<u>Name of Respondent</u> Alex Gilbert	
<u>Other Notes:</u> Marked with Paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
7-2014(1)	18-Jul-14	13:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	18-Jul-14	WTG-26	47.009584	-101.541459
<u>Location Remarks:</u> located about 110 feet NW of turbine base on gravel pad				
<u>Species</u> Hawk				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Freshly Deceased	1 Day	17-Jul-14	Alex Gilbert	
<u>Other Notes:</u> Marked with pink paint				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
7-2014(2)	30-Jul-14	10:30	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Andrew Horst	30-Jul-14	220	46.916435/-101.579727
<u>Location Remarks:</u> 60 Feet East of tower door.			
<u>Species</u> Black bird with red/yellow on wing			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Slight Decomposed	1 week	23-Jul-14	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>
7-2014(3)	30-Jul-14	10:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	31-Jul-14	301	46.964601 101.461102
<u>Location Remarks:</u> Bat was found roughly 30 ft from the edge of the turbine pad. It was found in the southwest corner of 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>
just starting to decay	one week	25-Jul-14	Dylan Monroe
<u>Other Notes:</u>			



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
7-2014(4)	30-Jul-14	4:30PM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	31-Jul-14	Tower 33	46.959349, -101.532559
<u>Location Remarks:</u> Bat was located on the top step at the base of the turbine.			
<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	24-48 hours	27-Jul-14	Dylan Monroe
<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>
7-2014(5)	29-Jul-14	16:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	31-Jul-14	Tower 5	46.967302/-101.554113
<u>Location Remarks:</u> 60 feet east of tower 5.			
<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	24-48 hours	27-Jul-14	Chris Gustin
<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>
8-2014(1)	8-Aug-14	10:00AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	8-Aug-14	Tower 32	
<u>Location Remarks:</u> Song bird was located southwest corner of the rock pad. Roughly eight ft. from the base of the turbine. Not decaying yet only been dead for 1-2 days			
<u>Species</u> Song Bird			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
deceased	24-48 hours	7-Aug-14	Dylan Monroe
<u>Other Notes:</u> 			



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
8-2014(2)	12-Aug-14	8:30AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	12-Aug-14	Tower 29	40.551555 -101.912117
<u>Location Remarks:</u> Located west corner of turbine pad. Roughly fifty ft from the base of the turbine			
<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	two to three weeks	20-Jul-14	Dylan Monroe
<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>
8-2014(3)	13-Aug-14	8:30AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	13-Aug-14	O&M Shop	
<u>Location Remarks:</u> Bat was located in the work shop on top of a pallet.			
<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	One Day	12-Aug-14	Dylan Monroe
<u>Other Notes:</u> bat looked like it had just died probably only been dead for a day or two at most.			



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
8-2014(4)	14-Aug-14	8:53AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	14-Aug-14	O&M Shop	
<u>Location Remarks:</u> Located on the cement pad thirty ft. from the first door.			
<u>Species</u> unknown Bird			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
deceased	couple days	10-Aug-14	Dylan Monroe
<u>Other Notes:</u> It was fresh, looked like it had been there about two or three days. The bird was missing its head.			



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
8-2014(5)	28-Aug-14	10:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	28-Aug-14	334	46.9752525755-101.647338225
<u>Location Remarks:</u> Located 40' North of tower 334			
<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	2 weeks	14-Aug-14	Philip/Andrew
<u>Other Notes:</u> I could see its spine protruding			



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
8-2014(6)	28-Aug-14	10:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	28-Aug-14	334	46.976610, -101.640956
<u>Location Remarks:</u> Bat located 30 North of tower 334			
<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	8/28/2014	14-Aug-14	Philip/Andrew
<u>Other Notes:</u> Could not determine exact cause of death.			



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
8-2014(7)	28-Aug-14	9:00 a.m.	fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	28-Aug-14	334	46.975253/-101.647338
<u>Location Remarks:</u> Approxiamtely 30ft North West of Tower.			
<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>
Greatly Decayed	2 weeks	14-Aug-14	Andrew Horst
<u>Other Notes:</u>			



Bison Wildlife Impact Report

<u>Entry Number</u> 9-2014(1)	<u>Date</u> 8-Sep-14	<u>Time of Day</u> 8:00AM	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 8-Sep-14	<u>Structure #</u> Turbine 11	<u>Latitude/Longitude</u>
<u>Location Remarks:</u> Located in the northwest corner of the turbine pad roughly 50 ft away.			
<u>Species</u> Bat			
<u>Physical Condition</u> deceased	<u>Estimated Time Since Death</u> Week	<u>Estimated Date of Injury</u> 29-Aug-14	<u>Name of Respondent</u> Dylan Monroe
<u>Other Notes:</u> It was fresh, looked like it had been there about a week tops.			



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
9-2014(2)	8-Sep-14	8:00AM	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	8-Sep-14	Turbine 310	46.936169	-101.632030
<u>Location Remarks:</u> Located about 20ft southwest of the turbine 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	1 week	26-Aug-14	Thomas Friesz	
<u>Other Notes:</u> Fresh, looked to be about a week or less old.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
9-2014(3)	8-Sep-14	8:30AM	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	8-Sep-14	Turbine 228	46.923084	
<u>Location Remarks:</u> Located 5 ft from the base of tower on opposite side of steps.				
<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	1 week	26-Aug-14	Thomas Friesz	
<u>Other Notes:</u> Looked to be about a week or less old.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
9-2014(4)	8-Sep-14	8:30AM	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	8-Sep-14	Turbine 311	46.938681	-101.626798
<u>Location Remarks:</u> Located 4ft from the base of the tower, a quarter of the way around the tower from the opposite side of the steps.				
<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	1 week	26-Aug-14	Thomas Friesz	
<u>Other Notes:</u> It was fresh, week or less old.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
9-2014(5)	8-Sep-14	8:30AM	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	8-Sep-14	Turbine 220	46.916435	-101.579727
<u>Location Remarks:</u> Located 5ft from base of tower, next to a yellow pillar by the transformer and GSU.				
<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	1 week	26-Aug-14	Thomas Friesz	
<u>Other Notes:</u> It was fresh, looked like it was a week or less old.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
9-2014(6)	8-Sep-14	8:30AM	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	8-Sep-14	Turbine 25	47.009553	-101.524428
<u>Location Remarks:</u> Located about 5ft from turbine base next to the GSU right off the front corner of the GSU cement 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>	
deceased	1 week	26-Aug-14	Thomas Friesz	
<u>Other Notes:</u> It was fresh, looked to be about a week or less old. Was brown in color.				



Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
9-26-2014(8)	26-Sep-14	2:20PM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	26-Sep-14	15	46.964136/-101.536636
<u>Location Remarks:</u> Bird was found on the north side of the tower about two feet away from the base.			
<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>
Lightly Decayed	One Week	19-Sep-14	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>
9-26-2014(9)	26-Sep-14	2:25PM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	26-Sep-14	15	46.994275/-101.535012
<u>Location Remarks:</u> Bird was found on the south side of the tower about two and a half feet away from the base.			
<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>
Lightly Decayed	One Week	19-Sep-14	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>	
10-2014(1)	17-Oct-14	1:00PM	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	17-Oct-14	Tower 17	47.008807	-101.531055
<u>Location Remarks:</u> Located 100' NW of Tower 17				
<u>Species</u> Rough Legged Buzzard				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
deceased	two to three days	15-Oct-14	Brant Nettleton	
<u>Other Notes:</u> It was fresh, looked like it had been there about two or three days.				

Appendix B

Wildlife Inspection Table

**Minnesota Power
2014 Wildlife Impact Table**

APPENDIX B

Bison 1, 2, 3 and Associated Facilities

Turbine #	January	February	March	April	May	June	July	August	September	October	November	December
1												
2												
3												
4												
5							7-2014-5					
6												
7						6-2014-8						
8									9-2014-8 9-2014-9			
9												
10					5-2014 -1							
11						6-2014-11 6-2014-12 6-2014-13			9-2014-1			
12												
13												
14												
15												
16						6-2014-1						
17										10-2014-1		
18												
19												
20												
21												
22												
23												
24												
25					5-2014-6		7-2014-1		9-2014-6			
26												
27												
28												
29								8-2014-2				
30												
31						6-2014-10 6- 2014-2						
32								8-2014-1				
33							7-2014-4					
201												
202						6-2014-14						
203												
204												
205												
206												
207												
208					5-2014-2 5-2014-3							
209												
210												
211												
212												
213												
214												
215												
216												
217												
218												
219												
220							7-2014-2		9-2014-5			
221												
222												
223												
224												
225												
226												
227						6-2014-5						
228									9-2014-3			
229												
230						6-2014-4						
231												
232												
233												
234												
235						6-2014-3						
301							7-2014-3					
302												
303												
304												
305												
306					5-2014-4 5-2014-5							
307												
308												
309												
310									9-2014-2			
311									9-2014-4			
312												
313												
314						6-2014-9						
315												
316												
317												
318						6-2014-6						
319												
320												
321												
322												
323												
324												
325												
326												
327												
328												
329						6-2014-7						
330												
331												
332												
333												
334									8-2014-5 8-2014-6 8-2014-7			
335												
O&M Met Tower								8-2014-3 8- 2014-4				