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December 6, 2013

**VIA EMAIL & OVERNIGHT DELIVERY**

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

<b>RE:</b>	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
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Dear Mr. Nitschke:

Enclosed, please find an original and 10 copies of Minnesota Power's 2013 Wildlife Incident Report in the above-referenced cases.

Please let us know if you have any questions.

Yours truly,

David R. Moeller

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Attachments

- c: Todd Simmons, Minnesota Power
- Dan McCourtney, Minnesota Power
- Jim Atkinson, Minnesota Power
- Tim Mork, Minnesota Power

# **Minnesota Power 2013 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



30 west superior street / Duluth, Minnesota 55802-2093 / fax: 218-723-3916 /www.allete.com

**Minnesota Power 2013 Wildlife Incident Report- Not For Public Disclosure**

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## **Minnesota Power 2013 Wildlife Incident Report**



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## **Introduction**

Throughout 2013 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 all of its Facilities throughout the year. The following is Minnesota Power's 2013 Annual Wildlife Incident Report which reviews those 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 2013. A Bison 1, 2 & 3 Facility map is included as Figure 1. This 2013 Annual Wildlife Incident 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 2013 Wildlife Incident Report will be reviewed by Minnesota Power environmental staff, Bison Facility personnel and management. It is to be used to analyze potential avian or bat impacts at Minnesota Power Facilities and to determine if adaptive management measures are required for either a Facility or individual Facility structures.

Minnesota Power will distribute 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 Incident Report will be generated every year for the life of Minnesota Power's Bison Facilities and will be distributed by January 15<sup>th</sup> of each year.

## **Inspections/Data Collection**

This 2013 Wildlife Incident 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 their associated Bison Wildlife Impact Report Form were entered into Minnesota Power's 2013 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 2013 are included in the Wildlife Inspection Table (Appendix B).



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The total wildlife fatalities for 2013 were 44, 28 of which were avian fatalities and 16 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 recorded fatalities, no turbine, structure or location showed an elevated risk for avian or bat mortality when compared to surrounding Facility structures. Bat species appeared to be more susceptible to collision in the months of August and September than in other months throughout the year. Also, a slight increase in both avian and bat carcasses were observed during fall migration however, no increase was observed during spring migration. Mortality appeared to be dispersed throughout the site.

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 Minnesota Power's Bison Facilities pose low risk to surrounding and migrating avian and bat populations.

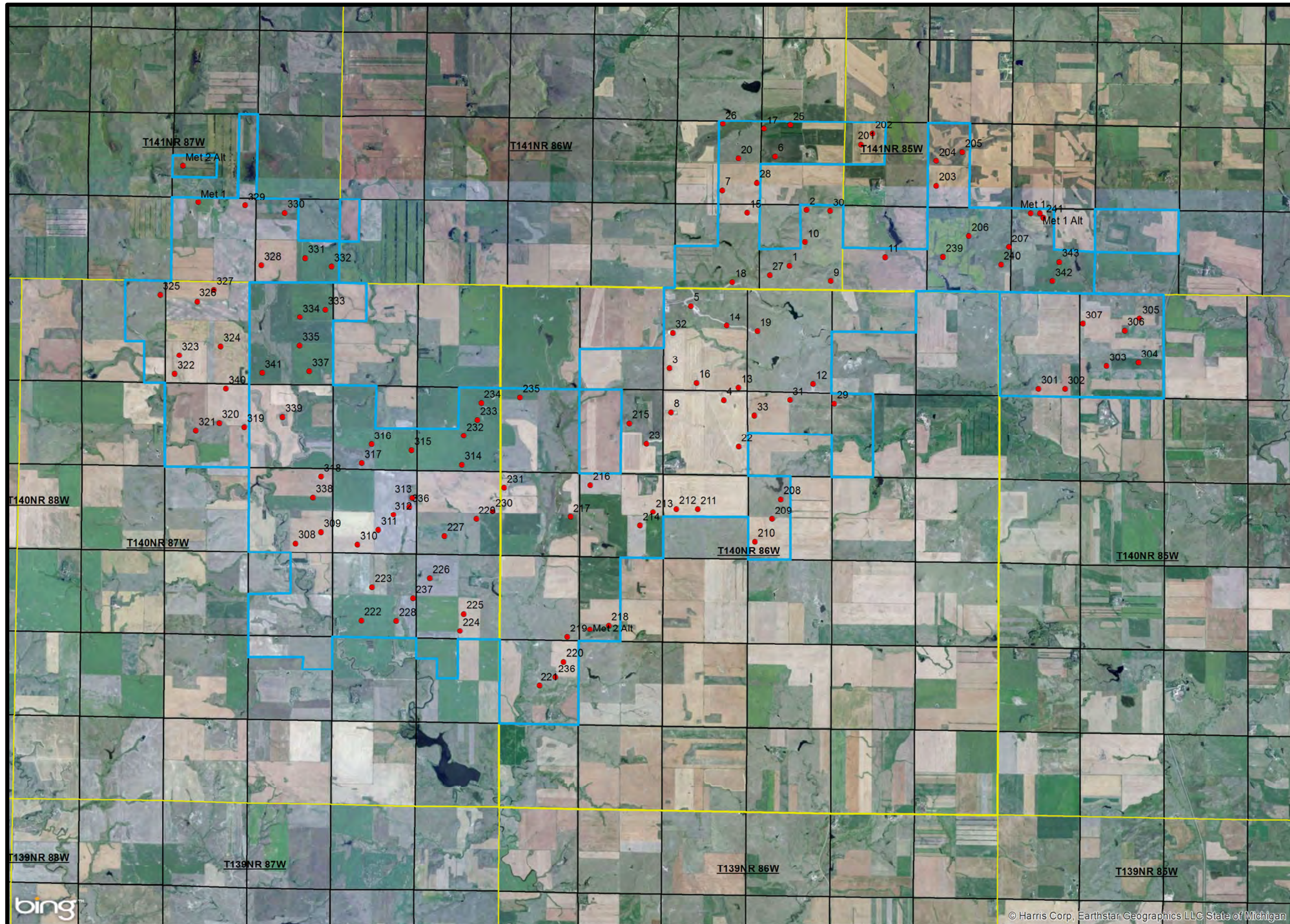
In 2013 Minnesota Power performed one year of extensive post construction monitoring for both avian and bat species. The results from this post construction monitoring program will be combined with Minnesota Power's regular site inspection data to further Minnesota Power's continual effects analysis. Minnesota Power will continue to monitor its Facilities throughout their operation. As the duration for data collection increases, the information collected could be applied to Facility operations.

**Figure 1**

Bison 1, 2 & 3 Project Area

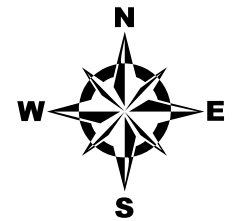
# Minnesota Power- Bison 1, 2 & 3 Project Area

## 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 Report



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
10-2013(8)	9-Oct-13	15:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	9-Oct-13	WTG 15	46.9942749641, -101.535011594
<u>Location Remarks:</u> Bird Was located 70' North of Tower.			
<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	24hrs	8-Oct-13	Philip Miller
<u>Other Notes:</u> Long Neck Bird, Long Needle like bill, grey color on top and white on bottom. Bird was in really good condition, Cause of death is unknown.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
10-2013(7)	3-Oct-13	11:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	3-Oct-13	233	46.9579390167, -101.602232035
<u>Location Remarks:</u> Bird was located 60' east of tower.			
<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	Month	3-Sep-13	Philip Miller
<u>Other Notes:</u> Bird has been there for least a month, was decayed quite a bit, cause of death unknown.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
10-2013(6)	3-Oct-13	9:25	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	3-Oct-13	217	46.941431	-101.578477
<u>Location Remarks:</u> located on west south-west side of tower about sevety five feet from base of tower on the gravel 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 for sometime	weeks	Unknown	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>	
10-2013(5)	2-Oct-13	13:30	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	3-Oct-13	235	46.961933	-101.591583
<u>Location Remarks:</u> located west south-west of tower on tower road				
<u>Species</u> Bat/Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Fully intact/ freshly deceased	two days	30-Sep-13	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>	
10-2013(4)	3-Oct-13	11:30	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	3-Oct-13	314	46.950159	-101.606020
<u>Location Remarks:</u> North of tower about 3 feet from base of tower laying on the rock /cement base line				
<u>Species</u> Bird/Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decaying/bloated	a week	25-Sep-13	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>
10-2013(3)	3-Oct-13	13:00:00 pm	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	3-Oct-13	333	46.9766100357, -101.640955969
<u>Location Remarks:</u> Located 50' South East			
<u>Species</u> Bird/unknown			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Deceased	unknown	unknown	Philip Miller
<u>Other Notes:</u> Found bird was marked by the people that are doing the Avian reporting. Because it was marked by paint I can not determine cause of death or time of death.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
10-2013(2)	3-Oct-13	1130 AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	3-Oct-13	314	46.9501589865, -101.606019951
<u>Location Remarks:</u> Located 10' East of tower			
<u>Species</u> Bird/unknown			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Deceased	month	3-Sep-13	Philip Miller
<u>Other Notes:</u> Bird appeared to have no feathers on its body, local wild life has been eating this bird. Cause of death unknown.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
10-2013(1)	3-Oct-13	0:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	3-Oct-13	33	46.9593486148, -101.532558643
<u>Location Remarks:</u> Bird was located 60' East			
<u>Species</u> Bird/unknown			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Deceased	2 weeks	Sept-19-2013	Philip Miller
<u>Other Notes:</u> Bird was heavily decayed and dried up, body of bird has been eating by other wild life.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
09-2013-(12)	19-Sep-13	13:15	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	20-Sep-13	306	46.974745	-101.439573
<u>Location Remarks:</u> located south west of tower about 65 feet on gravel pad				
<u>Species</u> Pigeon				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Fully intact/ freshly deceased	1 day or less	18-Sep-13	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>	
09-2013(11)	19-Sep-13	13:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	20-Sep-13	304	46.969312	-101.436030
<u>Location Remarks:</u> located south east of tower about five feet from base laying on the crushed rock				
<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>	
Fully Intact/ freshly deceased	1 day at the most	18-Sep-13	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>	
09-2013(10)	4-Sep-13	11:33	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Sep-13	22	46.953940	-101.536386
<u>Location Remarks:</u> Located north Northeast of tower about 102 feet				
<u>Species</u> Bat / Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Fully intact Fresh	couple days	2-Sep-13	Alex Gilbert	
<u>Other Notes:</u> Bat has a odd hole in chest				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
09-2013(9)	4-Sep-13	11:21	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Sep-13	29	46.961600	-101.512474
<u>Location Remarks:</u> Located directly west of tower about 225 feet on tower access road				
<u>Species</u> Bat Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Fully intact fresh	1 day	3-Sep-13	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>	
09-2013(8)	4-Sep-13	11:06	2 Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Sep-13	16	46.964854	-101.547239
<u>Location Remarks:</u> 1st bat located directly north of tower on pad. 2nd bat located North Northwest of tower about 105 feet laying on pad				
<u>Species</u> Bats Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Both Decaying	couple weeks	Unknown	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>	
09-2013(7)	4-Sep-13	10:59	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Sep-13	215	46.957743	-101.564008
<u>Location Remarks:</u> located directly West of tower about 70 feet laying on pad				
<u>Species</u> Bat / Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decaying	couple of weeks	unknown	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>	
09-2013(6)	4-Sep-13	8:27	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Sep-13	234	46.960882	-101.601328
<u>Location Remarks:</u> Located east North east of tower about 10 feet from tower				
<u>Species</u> Bird / Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decaying	couple weeks	unknown	Alex Gilbert	
<u>Other Notes:</u> Bird was previously spray painted				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
09-2013(5)	3-Sep-13	15:02	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Sep-13	232	46.955181	-101.605661
<u>Location Remarks:</u> located Directly north of tower about 100 feet away				
<u>Species</u> Bat / Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Fully intact	previous couple days	unkown	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>	
09-2013(4)	3-Sep-13	14:58	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Sep-13	314	46.950159	-101.606020
<u>Location Remarks:</u> Located west south-west of tower about 8 feet laying on the crushed Rock, also about 5 feet from the south side of transformer				
<u>Species</u> Bird /Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Decaying	A couple of weeks	Unknown	Alex Gilbert	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u> 09-2013(3)	<u>Date</u> 3-Sep-13	<u>Time of Day</u> 14:21	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 5-Sep-13	<u>Structure #</u> 309	<u>Latitude/Longitude</u> 46.938171      -101.641227	
<u>Location Remarks:</u> Located south east of tower about 15 feet				
<u>Species</u> Bat /Unknown				
<u>Physical Condition</u> Decaying	<u>Estimated Time Since Death</u> Couple weeks	<u>Estimated Date of Injury</u> Unknown	<u>Name of Respondent</u> Alex Gilbert	
<u>Other Notes:</u>  				



### Bison Wildlife Impact Report

<u>Entry Number</u> 09-2013(2)	<u>Date</u> 3-Sep-13	<u>Time of Day</u> 10:47	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 5-Sep-13	<u>Structure #</u> 307	<u>Latitude/Longitude</u> 46.938171      -101.641227	
<u>Location Remarks:</u> bat was located south east of tower about 60 feet away				
<u>Species</u> Bat /Unknown				
<u>Physical Condition</u> Decaying	<u>Estimated Time Since Death</u> couple weeks	<u>Estimated Date of Injury</u> unknown	<u>Name of Respondent</u> 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>	
9-2013(1)	3-Sep-13	10:16	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Sep-13	205	47.005239	-101.481052
<u>Location Remarks:</u> Located about 60 feet on the North west side of tower				
<u>Species</u> BAT/Unknown				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Bat is fully intact not decaying	within the last week	Unknown	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>
08-2013 (8)	9-Aug-13	11:25	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	9-Aug-13	WTG 330	46.993126/-101.651511
<u>Location Remarks:</u> Located about 100feet North East of tower end of pad where bat was, was lining a acess road			
<u>Species</u> Bat/Undetermined			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Decaying fully intact	4 Days	5-Aug-13	Alex Gilbert
<u>Other Notes:</u> Cause of death unkown as it was fully intact and about 100 feet from tower. Could have been hit by a car as it was about 3 feet off the road.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
08-2013 (7)	9-Aug-13	11:15	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	9-Aug-13	329	46.994326/-101.661530
<u>Location Remarks:</u> Located about 3 feet from east side of tower on the crushed rock			
<u>Species</u> Bat/Undetermined			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Decaying fully intact	4 days	5-Aug-13	Alex Gilbert
<u>Other Notes:</u> Cause of death probably flew into the tower as it was in such close proximity			



### Bison Wildlife Impact Report

<u>Entry Number</u> 8-2013 (5)	<u>Date</u> 8-Aug-13	<u>Time of Day</u> 9:00am	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> Phil Miller and Tim Mork	<u>Date Notification Was Given</u> 8-Aug-13	<u>Structure #</u> WTG 315	<u>Latitude/Longitude</u> 46.9525040294,101.618702004
<u>Location Remarks:</u> Bat was found dead about three feet from the tower.			
<u>Species</u> species undetermined			
<u>Physical Condition</u> intact	<u>Estimated Time Since Death</u> two weeks	<u>Estimated Date of Injury</u> 27-Jul-13	<u>Name of Respondent</u> Dylan Monroe
<u>Other Notes:</u> bat was found at tower 315 intact but deceased.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
8-2013 (4)	6-Aug-13	10:00	fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	7-Aug-13	308	46.936198965,-101.647599017
<u>Location Remarks:</u> Dead bat was found 40 feet east at WTG 308			
<u>Species</u> undetermind			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
intacked	7 days	1-Aug-13	Philip Miller
<u>Other Notes:</u> Hard to determined cause of death, Bat has been there for minimum a week,			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
8-2013(3)	6-Aug-13	10:00	fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	7-Aug-13	308	46.936198965,-101.647599017
<u>Location Remarks:</u> Dead bat was found at WTG 308			
<u>Species</u> undetermind			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
intacked	48 hours	6-Aug-13	Patrick Weninger
<u>Other Notes:</u> Dead bat was found at WTG 308.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
08-2013 (2)	1-Aug-13	10:30 AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	1-Aug-13	228	46.9230840037 -101.621927048
<u>Location Remarks:</u> Bat was located 5ft east of WTG			
<u>Species</u> Brown Bat			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Deceased	48hours	30-Jul-13	Philip Miller
<u>Other Notes:</u> Bat did not have any notable damage to indicate whether a WTG was the cause of its death or not. Bats body was well intact.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
08-2013(1)	1-Aug-13	10:30	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	1-Aug-13	11	46.9827303027, -101.513727765
<u>Location Remarks:</u> Bird was found two to three feet west of turbine 11.			
<u>Species</u> Rooster (MALE) pheasant			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
dead	48 hours	30-Jul-13	Pat Weninger
<u>Other Notes:</u> Cause of death undetermind. Nothing indicated that it was hit by the turbine. Body was well intacked			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
07-2013 (6)	30-Jul-13	10:30:00 AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	30-Jul-13	WTG 217	46.9414310223 -101.578476969
<u>Location Remarks:</u> Bat was located 35' North East of WTG 217			
<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, left wing damaged	24hrs	29-Jul-13	Philip Miller
<u>Other Notes:</u> Bats physical being was intacted other then the small damage to its wing, which could have been from a fall. There was nothing to indicate that a wind turbine blade hit him.			



### Bison Wildlife Impact Report

<u>Entry Number</u> 07-2013 (5)	<u>Date</u> 17-Jul-13	<u>Time of Day</u> 18:00	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> Tim Mork	<u>Date Notification Was Given</u> 17-17-2013	<u>Structure #</u> 217	<u>Latitude/Longitude</u> 46.9414310223 -101.578476969
<u>Location Remarks:</u> Bird located 110' South East of WTG 217			
<u>Species</u> Hawk			
<u>Physical Condition</u> shriveled.	<u>Estimated Time Since Death</u> 6-7 days	<u>Estimated Date of Injury</u> 7-10-2013, 7-11-2013	<u>Name of Respondent</u> Philip Miller
<u>Other Notes:</u> There was no severe damage to the bird that would indicate it was hit by a turbine blade. Bird was intact and was on the edge of a corn field. Bird appeared to have at least a weeks worth of decay, maggots and flies were present.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
07-2013 (4)	15-Jul-13	17:30	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	15-Jul-13	WTG 312	46.941371 -101.623026
<u>Location Remarks:</u> Bird A was located 82' North West of WTG 312.			
<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	48-72 hours	7-12-2013 thru 7-14-2013	Philip Miller
<u>Other Notes:</u> Bird A body was appeared to have multiple fractors to both wings due to blunt force.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
07-2013 (3)	15-Jul-13	17:30:00 pm	FATALITY
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
TIM MORK	15-Jul-13	317	46.9502188834 -101.631211573
<u>Location Remarks:</u> Bird B was located 72' West of WTG 312			
<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, BLUNT TRAUMA	48-72 HRS	7-12-2013 thru 7-14-2013	PHILIP MILLER
<u>Other Notes:</u> Bird B seemed to have most of the damaged done to its chest, wings feet head were intacted.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
07-2013 (2)	15-Jul-13	17:30	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	15-Jul-13	WTG 312	46.941371 -101.623026
<u>Location Remarks:</u> The Hawk was located 70 ' straight west of WTG 312. Bird A was located 82' North West of WTG 312.			
<u>Species</u> Hawk and 2 birds. (The two birds are of the same species)			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
All 3 Deceased.	48-72 hours	7-12-2013 thru 7-14-2013	Philip Miller
<u>Other Notes:</u> The Hawk's wings appeared to be damaged the most, rest of its body appeared to be intact. Bird A body was appeared to have multiple fractures to both wings.			



### Bison Wildlife Impact Report

<u>Entry Number</u> 07-2013 (1)	<u>Date</u> 15-Jul-13	<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> 15-Jul-13	<u>Structure #</u> WTG 332	<u>Latitude/Longitude</u> 46.98400559734 -101.639549026
<u>Location Remarks:</u> 100' south of Wind Turbine 332, located on the crane pad.			
<u>Species</u> Hawk,			
<u>Physical Condition</u> rest of the body appeared to be intact.	<u>Estimated Time Since Death</u> 48-72 hrs	<u>Estimated Date of Injury</u> 7-12-2013 thru 7-14-2013	<u>Name of Respondent</u> Philip Miller
<u>Other Notes:</u> Siemens Technician found the deceased Hawk.			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
06-2013 (5)	11-Jun-13	8:00	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	11-Jun-13	22	46.953940	-101.536386
<u>Location Remarks:</u> Animal located on west side of pad bordering grass about 100 feet from tower(1st half) bird was in two sections about 20 feet closer to tower(section 2)				
<u>Species</u> Malard- Drake				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>		<u>Name of Respondent</u>
Split in two halves	5 days	6-Jun-13		
<u>Other Notes:</u> Bird was more than likely split in half by the blade of tower and struck mid air.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
06-2013 (4)	06/11/2013	7:30	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Tim Mork	11-Jun-13	16	
<u>Location Remarks:</u> North side of pad in field about 130 feet from tower animal was split in half other half was within 20 feet in field.			
<u>Species</u> malard -drake			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Split in half	5 days	6-Jun-13	
<u>Other Notes:</u> Bird was more than likely struck mid air by the blade of the tower and consequently divided into two halves			



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
06-2013 (3)	10-Jun-13	12:30	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	10-Jun-13	18	46.979973	-101.554693
<u>Location Remarks:</u> outer edge of tower 18 on south side				
<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>	
Intact/ Deceased	2-3 weeks	middle to end of may	shannon	
<u>Other Notes:</u> duck looks like it has been there for a while. Starting to decompose				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
06-2013 (2)	10-Jun-13	12:30	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	10-Jun-13	314	46.979973	-101.554693
<u>Location Remarks:</u> 2 ducks were found on opposite sides of the tower 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>	
Intact/ Deceased	1 or 2 days	9-Jun-13	Shannon	
<u>Other Notes:</u>				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
06-2013 (1)	4-Jun-13	14:30	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim Mork	5-Jun-13	O&M yard	46.979973	-101.554693
<u>Location Remarks:</u> Looks like Bird hit O&M building on south side and deceased on impact, More than likely during a heavy rain storm, previous night. Bird was aproximatly 5.5 feet				
<u>Species</u> Barn swallow				
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>	
Intact/ Deceased	8 hours	6-4-2013 early morning Aproximatly 02:30		
<u>Other Notes:</u> Moved out of walking path to O&M fence North West Corner.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>	
05-2013 (4)	22-May-13	1300 pm	Fatality	
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>	
Tim/Todd	22-May-13	207	46.988950	-101.468987
<u>Location Remarks:</u> Animal was located 30 ft west of the Wind Turbine 207				
<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	48 hrs	20-May-13	Philip Miller	
<u>Other Notes:</u> Duck was found deceased with gravel on its sides indicating it was deceased during the previous days rain fall.				



### Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
005-2013	7-May-13	11:00:00 AM	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Todd Simmons	7-May-13	208	46.9449620385/-101.525641022
<u>Location Remarks:</u> 60 feet north 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>
Dead	with in 24hrs of discovery		Philip Miller
<u>Other Notes:</u> Small dirt impact, seemed to indicate duck was hit from above. Wing was broken.			



## Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
05-2013 (2)	6-May-13	13:30	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Dan McCourtney	7-May-13	WTG-10	46.98937/-101.52033
<u>Location Remarks:</u> Bird located approximately 5 feet SE of WTG-10.			
<u>Species</u> Ringneck Pheasant rooster			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Early stages of decomposition	1 week	30-Apr-13	Ben Reister
<u>Other Notes:</u> Weather has been dry, with lows 25-30F, highs 50-65F for at least two weeks. Possible broken neck, indicating impact with tower structure.			



## Bison Wildlife Impact Report

<u>Entry Number</u>	<u>Date</u>	<u>Time of Day</u>	<u>Injury/Fatality</u>
05-2013 (1)	6-May-13	13:00	Fatality
<u>Notification Given to</u>	<u>Date Notification Was Given</u>	<u>Structure #</u>	<u>Latitude/Longitude</u>
Dan McCourtney	7-May-13	WTG-31	46.96211/-101.52364
<u>Location Remarks:</u> Bird located approximately 40 yards NNE of WTG-31.			
<u>Species</u> Mallard Drake			
<u>Physical Condition</u>	<u>Estimated Time Since Death</u>	<u>Estimated Date of Injury</u>	<u>Name of Respondent</u>
Early stages of decomposition	1 week	30-Apr-13	Ben Reister
<u>Other Notes:</u> Weather has been dry, with lows 25-30F, highs 50-65F for at least two weeks. Cause of death not evident, no apparent injuries.			



### Bison Monthly Wildlife Impact Report

<u>Entry Number</u> 04-2013	<u>Date</u> 04-25-2013	<u>Time</u> 1045	<u>Injury/Fatality</u> Fatality	
<u>Notification Given to</u> Dan McCourtney	<u>Date Notification Was Given</u> 04-25-2013	<u>Structure #</u> 227	<u>Latitude &amp; Longitude</u> WTG227	
<u>Location Remarks:</u> Found on stairs under door. Wind may have blown bird underneath.				
<u>Species</u> Sparrow				
<u>Physical Condition</u> Dead	<u>Estimated Time Since Death</u> Few days	<u>Estimated Date of Injury</u>	<u>Respondent</u> Shannon Doll	
<u>Other Notes</u>				

## **Appendix B**

Wildlife Inspection Table

