



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 |
|-----|--|---|--|--|

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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Minnesota Power 2016 Wildlife Impact Report- Not For Public Disclosure

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 15th 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).

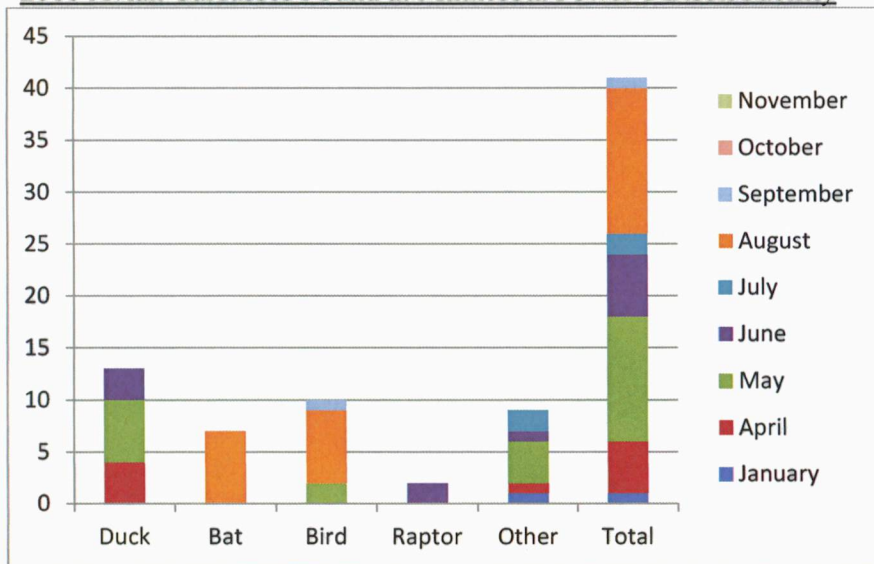
The total wildlife fatalities for 2016 were 41, 34 of which were avian fatalities and 7 were bat fatalities. Specific data for each incident and species can be found in the Bison Wildlife Impact Reports (Appendix A).

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

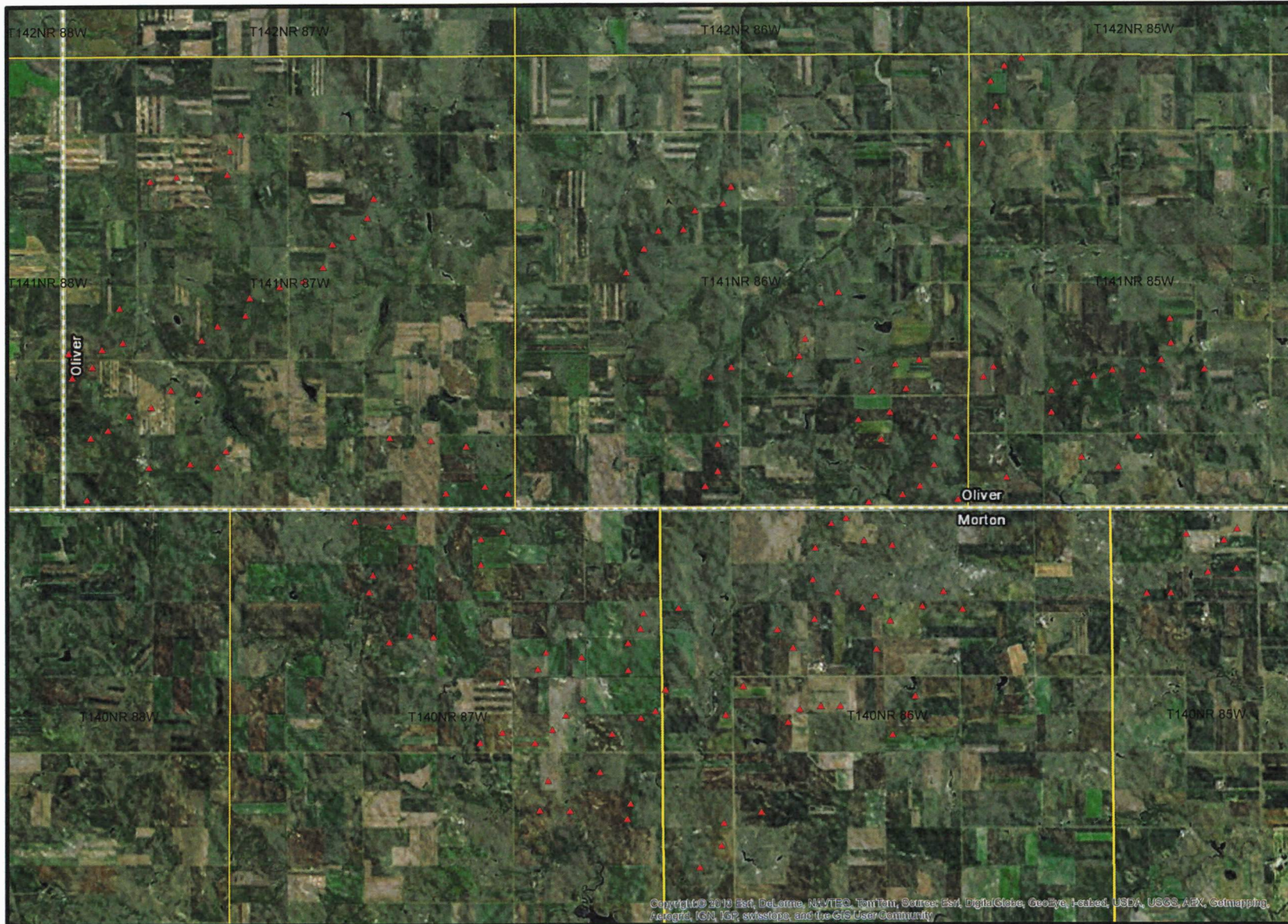


Figure 1

Legend

- ▲ MP Bison Wind Turbines
- Townships



3

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> | |
| 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

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|--|------------------------------------|---------------------------------|---------------------------|-------------|
| <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

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|---|------------------------------------|---------------------------------|---------------------------|-------------|
| <u>Entry Number</u> | <u>Date</u> | <u>Time of Day</u> | <u>Injury/Fatality</u> | |
| 4-2016(2) | 20-Apr-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-Apr-16 | 19 | 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> | <u>Estimated Time Since Death</u> | <u>Estimated Date of Injury</u> | <u>Name of Respondent</u> | |
| Dead | About 2 Days | 18-Apr-16 | B. Nettleton | |
| <u>Other Notes:</u> | | | | |



Bison Wildlife Impact Report

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|---|------------------------------------|---------------------------------|---------------------------|
| <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

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|---|---|--|---|
| <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> 43.8197332100, -101.1300100000 |
| <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

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|---|------------------------------------|---------------------------------|---------------------------|-------------|
| <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

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|--|------------------------------------|---------------------------------|---------------------------|---------------------------|
| <u>Entry Number</u> | <u>Date</u> | <u>Time of Day</u> | <u>Injury/Fatality</u> | |
| 5-2016 (2) | 16-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 | 16-May-16 | 410 | 47.055308 | -101.506012 |
| <u>Location Remarks:</u> 100ft south west of tower base | | | | |
| <u>Species</u> Unknown | | | | |
| <u>Physical Condition</u> | <u>Estimated Time Since Death</u> | <u>Estimated Date of Injury</u> | | <u>Name of Respondent</u> |
| Decayed | 3 weeks | Coot | | Dittus, J. |
| <u>Other Notes:</u> | | | | |



Bison Wildlife Impact Report

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



Bison Wildlife Impact Report

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|---|------------------------------------|---------------------------------|---------------------------|------------|
| <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

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|--|------------------------------------|---------------------------------|---------------------------|------------|
| <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

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|---|------------------------------------|---------------------------------|---------------------------|-------------|
| <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

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| <u>Entry Number</u> 5-2016(7) | <u>Date</u> 24-May-16 | <u>Time of Day</u> 15:00 | <u>Injury/Fatality</u> Fatality | |
| <u>Notification Given to</u> Tim Mork | <u>Date Notification Was Given</u> 25-May-16 | <u>Structure #</u> 329 | <u>Latitude/Longitude</u> 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> deceased | <u>Estimated Time Since Death</u> 2 days | <u>Estimated Date of Injury</u> 22-May-16 | <u>Name of Respondent</u> alex gilbert | |
| <u>Other Notes:</u> painted with orange paint | | | | |



Bison Wildlife Impact Report

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|--|------------------------------------|---------------------------------|---------------------------|-------------|
| <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

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



Bison Wildlife Impact Report

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|---|------------------------------------|---------------------------------|---------------------------|-------------|
| <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

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|--|------------------------------------|---------------------------------|---------------------------|-------------|
| <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

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|--|------------------------------------|---------------------------------|---------------------------|-------------|
| <u>Entry Number</u> | <u>Date</u> | <u>Time of Day</u> | <u>Injury/Fatality</u> | |
| 6-2016(1) | 7-Jun-16 | 10:35 | Fatality | |
| <u>Notification Given to</u> | <u>Date Notification Was Given</u> | <u>Structure #</u> | <u>Latitude/Longitude</u> | |
| Tim Mork | 7-Jun-16 | 14 | 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> | <u>Estimated Time Since Death</u> | <u>Estimated Date of Injury</u> | <u>Name of Respondent</u> | |
| deceased/decaying | ~1 week | 31-May-16 | Andrew Horst | |
| <u>Other Notes:</u> | | | | |



Bison Wildlife Impact Report

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



Bison Wildlife Impact Report

| | | | | |
|---|------------------------------------|---------------------------------|---------------------------|-------------|
| <u>Entry Number</u> | <u>Date</u> | <u>Time of Day</u> | <u>Injury/Fatality</u> | |
| 06-2016(3) | 21-Jun-16 | 14:30 | Fatality | |
| <u>Notification Given to</u> | <u>Date Notification Was Given</u> | <u>Structure #</u> | <u>Latitude/Longitude</u> | |
| Tim Mork | 22-Jun-16 | 209 | 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> | <u>Estimated Time Since Death</u> | <u>Estimated Date of Injury</u> | <u>Name of Respondent</u> | |
| deceased | A week | 15-Jun-16 | 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> | <u>Date</u> | <u>Time of Day</u> | <u>Injury/Fatality</u> | |
| 06-2016(5) | 22-Jun-16 | 10:00 | Fatality | |
| <u>Notification Given to</u> | <u>Date Notification Was Given</u> | <u>Structure #</u> | <u>Latitude/Longitude</u> | |
| Tim Mork | 22-Jun-16 | 332 | 46.984056 | -101.639549 |
| <u>Location Remarks:</u> About 50 feet from base on gravel, West. | | | | |
| <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 weeks | 8-Jun-16 | 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

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|--|---|---|---|--|
| <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> 8-2016(5) | <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> South west 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(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> | <u>Date</u> | <u>Time of Day</u> | <u>Injury/Fatality</u> | |
| 8-2016(7) | 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> On the north side of the barn, next to a pallet. | | | | |
| <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> | <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> | <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 3 feet North of turbine base on the cement under 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> | |
| decaying | 1 day | 21-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(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

