

Minnesota Power 2020 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

158	PU-13-127	Filed 01/15/2021	Pages: 27
	2020 Wildlife Impact Report		
	Allete, Inc.		
119	PU-11-162	Filed 01/15/2021	Pages: 27
	2020 Wildlife Impact Report		
	Allete, Inc.		
133	PU-11-57	Filed 01/15/2021	Pages: 27
	2020 Wildlife Impact Report		
	Allete, Inc.		
195	PU-09-151	Filed 01/15/2021	Pages: 27
	2020 Wildlife Impact Report		
	Allete, Inc.		



Minnesota Power 2020 Wildlife Impact Report

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Minnesota Power 2020 Wildlife Impact Report

Introduction

Throughout 2020 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 2020 Annual Wildlife Impact Report which reviews the wildlife inspection results for the Bison 1, 2, 3 and 4 Facilities in North Dakota.

In 2020 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. The four Facilities combine for a total of 165 turbines. A Bison 1, 2, 3 & 4 Facility (Bison) map is included as Figure 1. This annual Wildlife Impact Report covers all Bison 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 2020 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 provides copies of this report to the North Dakota Public Service Commission under each project Docket Number to be incorporated into their records. A Wildlife Impact Report is generated by January 15th of each year for the operational life of Minnesota Power's Bison Facilities.

Inspections/Data Collection

This 2020 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 higher frequency. When a carcass is found it is left at its location, photographed and a Bison Wildlife Impact Form is completed.

Each carcass's completed Bison Wildlife Impact Report Form and associated photos were entered into Minnesota Power's 2020 Wildlife Incident Database. Those results are summarized in this report. Individual fatality information can be found in the Bison Wildlife Impact Report Forms located in Appendix A. In addition, monthly inspection cycle results for 2020 are included in the Wildlife Inspection Table (Appendix B).

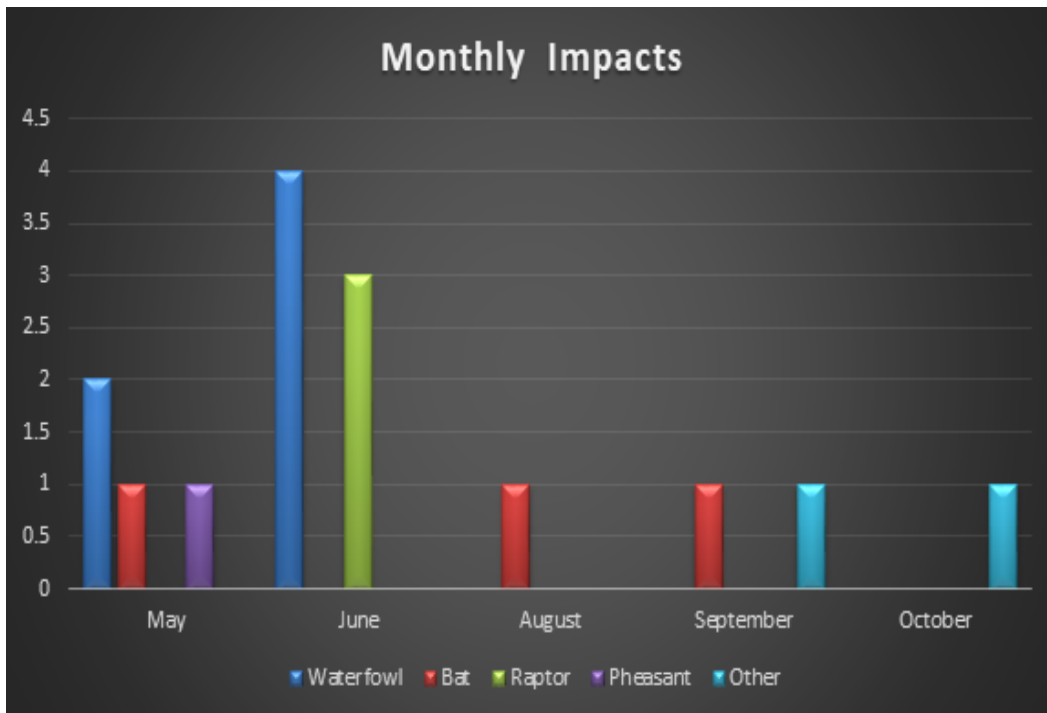
Minnesota Power 2020 Wildlife Impact Report

The total wildlife fatalities for 2020, totaled 15. Three bat fatalities recorded and 12 avian fatalities recorded. Specific data for each incident and species can be found in the Bison Wildlife Impact Reports (Appendix A).

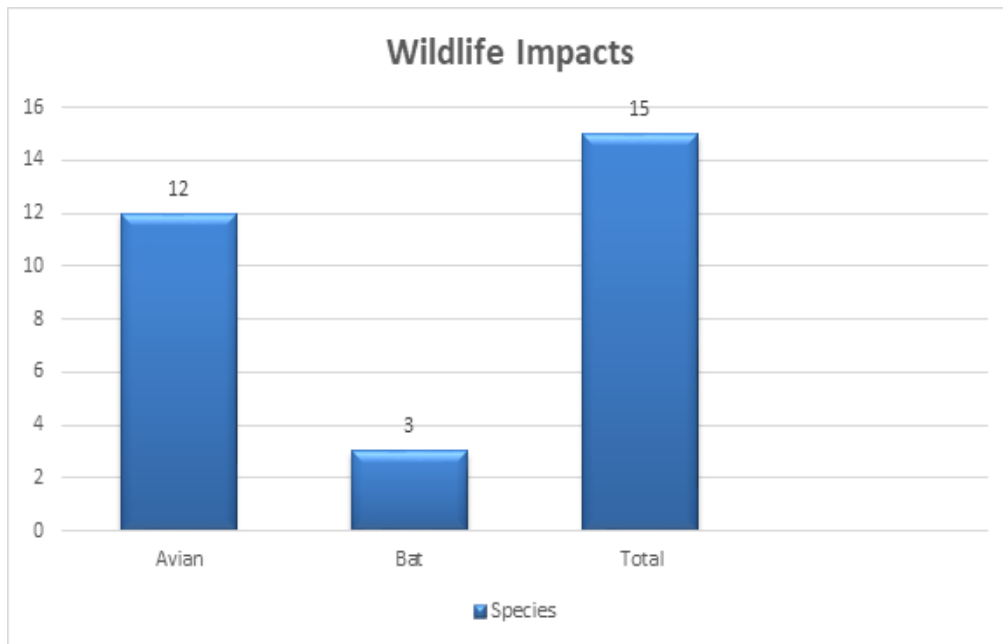
Results

After reviewing the inspection/fatalities records, 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. Three bat carcasses were found; one in May, one in August and one in September 2020 which coincides with spring and fall migratory activity. Duck carcasses were more prevalent during spring migration, however an increase was not observed during fall migration when avian species are typically most vulnerable to collision. The 2020 results are as shown in Table 1-1 below.

Table 1-1:
2020 Avian and bat Carcasses Found at Minnesota Power’s Bison Facility



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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

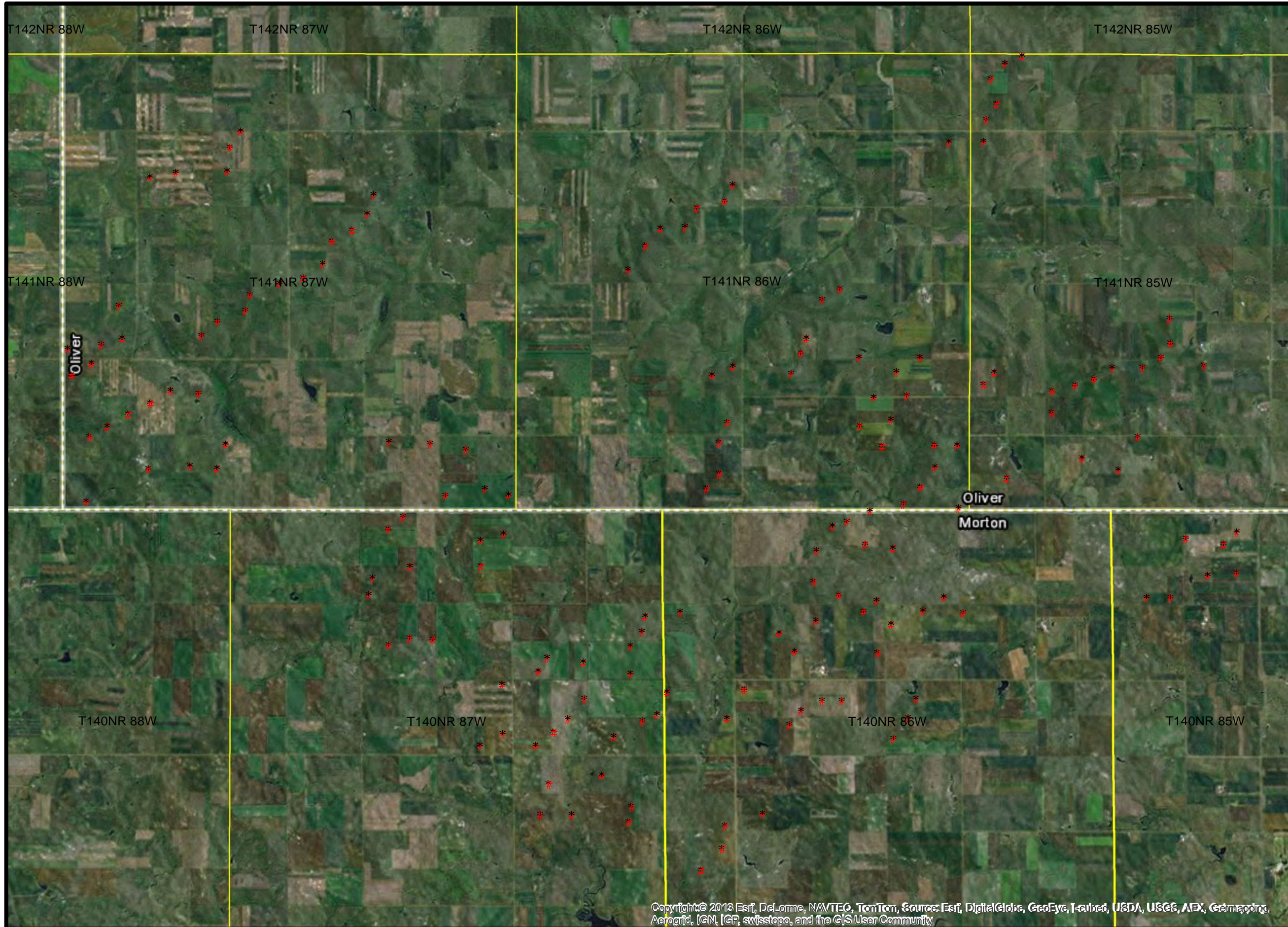


Figure 1

Legend

- * MP Bison Wind Turbines
- Townships

4

3

_____ Miles



Appendix A

-Wildlife Impact Reports



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 5-2020(1)	<u>Date:</u> 5-12-2020	<u>Time of Day</u> 1700	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 3/6/2020	<u>Structure #</u> 326	<u>Latitude/Longitude</u> 46.9892728987 / -101.721069953
<u>Location Remarks:</u> Bat found on top of the stairs in front of the door.			
<u>Physical Condition:</u> Decaying	<u>Estimated Time Since Death:</u> 4 weeks	<u>Estimated Date of Injury:</u> Unknown	<u>Name of Respondent:</u> Elliot Wilkens
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 05-12-2020	<u>Perillon Entry Date:</u> 05-13-2020	<u>Responding ELM staff:</u> Drew Janke
<u>Species Confirmation:</u> Unable to identify species; carcass is too decomposed.	<u>Threatened or Endangered:</u> N/A	<u>Agencies contacted:</u> None
<u>Action Items:</u> None	<u>Carcass Preservation actions:</u> None	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 5-2020(2)	<u>Date:</u> 5-19-2020	<u>Time of Day</u> 1500	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 3/19/2020	<u>Structure #</u> 318	<u>Latitude/Longitude</u> 46.9477659686 / -101.641382998
<u>Location Remarks:</u> Bird found on the ground near the tower.			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> 2 days	<u>Estimated Date of Injury:</u> Unknown	<u>Name of Respondent:</u> Elliot Wilkens
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 5-21-2020	<u>Perillon Entry Date:</u> 5-21-2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Hen pheasant	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> None
<u>Action Items:</u> None	<u>Carcass Preservation actions:</u> Leave carcass as it lay	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 5-2020(3)	<u>Date:</u> 5-20-2020	<u>Time of Day</u> 1600	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 5/5/2020	<u>Structure #</u> 308	<u>Latitude/Longitude</u> 46.936199 -101.647599
<u>Location Remarks:</u> Bird found on the ground 20ft east of the tower.			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> <u>unknown</u>	<u>Estimated Date of Injury:</u> Unknown	<u>Name of Respondent:</u> <u>Thomas Friesz</u>
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 5-21-2020	<u>Perillon Entry Date:</u> 5-21-2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Hen Mallard	<u>Threatened or Endangered:</u> NO	<u>Agencies contacted:</u> None
<u>Action Items:</u> None	<u>Carcass Preservation actions:</u> Leave carcass where it lay	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 5-2020(4)	<u>Date:</u> 5/26/2020	<u>Time of Day</u> 1:40 P.M.	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 5/26/2020	<u>Structure #</u> 308	<u>Latitude/Longitude</u>
<u>Location Remarks:</u>			
<u>Physical Condition:</u> Died recently, hasn't started to decay yet.	<u>Estimated Time Since Death:</u> 3-4 days	<u>Estimated Date of Injury:</u> 5/22-5/23	<u>Name of Respondent:</u> Andrew Horst
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 5-27-2020	<u>Perillon Entry Date:</u> 5-27-2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Drake Mallard	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> None
<u>Action Items:</u> Leave carcass as it lays. No further action required	<u>Carcass Preservation actions:</u> None	<u>Other Notes:</u>

**ALLETE Wildlife Impact Report Form**

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 6-2020(1)	<u>Date:</u> 6/01/2020	<u>Time of Day</u> 6:00 P.M.	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 6/2/2020	<u>Structure #</u> 445	<u>Latitude/Longitude</u> 47.000772 -101.739663
<u>Location Remarks:</u> Mallard located 50ft NW of tower base.			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> Within a week.	<u>Estimated Date of Injury:</u> 5/25-6/01	<u>Name of Respondent:</u> Thomas Friesz
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 6-4-2020	<u>Perillon Entry Date:</u> 6-4-2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Mallard Duck	<u>Threatened or Endangered:</u> no	<u>Agencies contacted:</u> none
<u>Action Items:</u> none	<u>Carcass Preservation actions:</u> none	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 6-2020(2)	<u>Date:</u> 6/01/2020	<u>Time of Day</u> 6:00 P.M.	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 6/2/2020	<u>Structure #</u> 464	<u>Latitude/Longitude</u> 47.019800 -101.748532
<u>Location Remarks:</u> Hawk located 100ft NE of tower base.			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> Within a month.	<u>Estimated Date of Injury:</u> 5/01-6/01	<u>Name of Respondent:</u> Thomas Friesz
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 6-4-2020	<u>Perillon Entry Date:</u> 6-4-2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Hawk	<u>Threatened or Endangered:</u> no	<u>Agencies contacted:</u> none
<u>Action Items:</u> none	<u>Carcass Preservation actions:</u> none	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 6-2020(3)	<u>Date:</u> 6/8/2020	<u>Time of Day</u> 1100	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 6/9/2020	<u>Structure #</u> 12	<u>Latitude/Longitude</u> 46.964956 -101.517850
<u>Location Remarks:</u> 100ft south of tower base.			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> Within 5 days	<u>Estimated Date of Injury:</u> Within 5 days	<u>Name of Respondent:</u> Thomas Friesz
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 6-9-2020	<u>Perillon Entry Date:</u>	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Hen Mallard	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> None
<u>Action Items:</u> No further action items	<u>Carcass Preservation actions:</u> Leave carcass as it lay unless a threat to human health or environment	<u>Other Notes:</u>



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 6-2020(4)	<u>Date:</u> 6/8/2020	<u>Time of Day</u> 1100	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 6/9/2020	<u>Structure #</u> 12	<u>Latitude/Longitude</u> 46.964956 -101.517850
<u>Location Remarks:</u> 80ft south of tower base.			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> Within 5 days	<u>Estimated Date of Injury:</u> Within 5 days	<u>Name of Respondent:</u> Thomas Friesz
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 6-9-2020	<u>Perillon Entry Date:</u> 6-9-2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Drake Mallard	<u>Threatened or Endangered:</u> NO	<u>Agencies contacted:</u> None
<u>Action Items:</u> No further action items	<u>Carcass Preservation actions:</u> Leave carcass unless threat to human health or environment	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 6-2020(5)	<u>Date:</u> 6/9/2020	<u>Time of Day</u> 1600	<u>Injury/Fatality</u> fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 6/11/2020	<u>Structure #</u> T2	<u>Latitude/Longitude</u> 46.994858 -101.520348
<u>Location Remarks:</u> South west of the tower 25ft			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> Within month	<u>Estimated Date of Injury:</u> 05/01/2020	<u>Name of Respondent:</u> Michael thompson
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 6/22/2020	<u>Perillon Entry Date:</u> 6/22/2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Hawk or Harrier (unidentifiable)	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> none
<u>Action Items:</u> None	<u>Carcass Preservation actions:</u> none	<u>Other Notes:</u>



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 6-2020(6)	<u>Date:</u> 6/11/2020	<u>Time of Day</u> 1400	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 6/19/2020	<u>Structure #</u> 22	<u>Latitude/Longitude</u> 46.953940 -101.536386
<u>Location Remarks:</u> 150 feet east of T22			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> Within a day	<u>Estimated Date of Injury:</u> Within a day	<u>Name of Respondent:</u> Devan Schell
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 6-11-2020	<u>Perillon Entry Date:</u> 6-11-2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Swainsons Hawk	<u>Threatened or Endangered:</u> NO	<u>Agencies contacted:</u> None
<u>Action Items:</u> No further action items	<u>Carcass Preservation actions:</u> Leave carcass as it be unless threat to human health or environment	<u>Other Notes:</u>



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 6-2020(7)	<u>Date:</u> 6/23/2020	<u>Time of Day</u> 1300	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 6/23/2020	<u>Structure #</u> 330	<u>Latitude/Longitude</u> 46.993126 -101.651511
<u>Location Remarks:</u> 20 feet north of T330			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> More than 1 week	<u>Estimated Date of Injury:</u> More than 1 week	<u>Name of Respondent:</u> Ben Reister
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 6/23/2020	<u>Perillon Entry Date:</u> 10/19/2020	<u>Responding ELM staff:</u> Drew Janke
<u>Species Confirmation:</u> Mallard (Hen)	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> None
<u>Action Items:</u> None	<u>Carcass Preservation actions:</u> None	<u>Other Notes:</u>

Pictures and attachments

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ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 8-2020(1)	<u>Date:</u> 8/3/2020	<u>Time of Day</u> 1100	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 8/3/2020	<u>Structure #</u> 334	<u>Latitude/Longitude</u> 46.975253 -101.647338
<u>Location Remarks:</u> Right at the tower base on west side of tower.			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> Within 5 days	<u>Estimated Date of Injury:</u> Within 5 days	<u>Name of Respondent:</u> Thomas Friesz
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 08/18/2020	<u>Perillon Entry Date:</u> 08/18/20	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Hoary Bat	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> None
<u>Action Items:</u> None	<u>Carcass Preservation actions:</u> Leave carcass in its location unless it is interfering with operations	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 9-2020(1)	<u>Date:</u> 9/1/2020	<u>Time of Day</u> 1045	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 9/2/2020	<u>Structure #</u> 16	<u>Latitude/Longitude</u> 46.964854 -101.547239
<u>Location Remarks:</u> 50 Feet N of the tower			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> 5 days	<u>Estimated Date of Injury:</u> 8/26/2020	<u>Name of Respondent:</u> Brant Nettleton
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 9-3-2020	<u>Perillon Entry Date:</u> 9-3-2020	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Hoary bat	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> None
<u>Action Items:</u> Leave carcass as it lay	<u>Carcass Preservation actions:</u> None	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 9-2020(2)	<u>Date:</u> 9/22/2020	<u>Time of Day</u> 1600	<u>Injury/Fatality</u> fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 9/22/2020	<u>Structure #</u> T-425	<u>Latitude/Longitude</u> 47.022612 -101.546842
<u>Location Remarks:</u> At Tower Base on south side			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> 2 days	<u>Estimated Date of Injury:</u> 9/20/2020	<u>Name of Respondent:</u> Brant Nettleton
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 1-12-2021	<u>Perillon Entry Date:</u> 1-12-2021	<u>Responding ELM staff:</u> Zach Golkowski
<u>Species Confirmation:</u> Grouse	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> none
<u>Action Items:</u> none	<u>Carcass Preservation actions:</u> Leave carcass unless threat to human health or environment	<u>Other Notes:</u>

Pictures and attachments



ALLETE Wildlife Impact Report Form

<u>ALLETE Wind Facility Name</u>			
<u>Entry Number</u> 10-2020(1)	<u>Date:</u> 10/1/2020	<u>Time of Day</u> 1400	<u>Injury/Fatality</u> Fatality
<u>Notification Given to</u> 3200	<u>Date Notification Was Given</u> 10/9/2020	<u>Structure #</u> T228	<u>Latitude/Longitude</u> 46.923084 -101.621927
<u>Location Remarks:</u> Southeast of the tower 15ft			
<u>Physical Condition:</u> Deceased	<u>Estimated Time Since Death:</u> Within month	<u>Estimated Date of Injury:</u> 9/20/2020	<u>Name of Respondent:</u> Devan Schell (ARR)
<u>Other Notes:</u>			

ELM Follow up/Confirmation

<u>Date:</u> 10-9-2020	<u>Perillon Entry Date:</u> 10-9-2020	<u>Responding ELM staff:</u> Drew Janke
<u>Species Confirmation:</u> Young Ruffed Grouse	<u>Threatened or Endangered:</u> No	<u>Agencies contacted:</u> No
<u>Action Items:</u> None	<u>Carcass Preservation actions:</u> None	<u>Other Notes:</u>

Appendix B

-Wildlife Inspection Table

Minnesota Power 2020 Wildlife Impact Table

Bison 1, 2, 3, 4 and Associated Facilities

Turbine #	January	February	March	April	May	June	July	August	September	October	November	December
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318						5-19-2020						

Appendix B

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326					5-12-2020								
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330						6-23-2020							
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