



UTILITIES CO.

A Subsidiary of MDU Resources Group, Inc.

400 North Fourth Street  
Bismarck, ND 58501  
(701) 222-7900

October 1, 2019

Executive Secretary  
North Dakota Public Service Commission  
State Capitol Building  
600 E. Boulevard, Dept. 408  
Bismarck, ND 58505

Re: Heskett 88 MW Simple Cycle Combustion  
Turbine & Natural Gas Pipeline -  
Case Nos. PU-11-631 and PU-11-680

Montana-Dakota Utilities Co. (Montana-Dakota), herewith submits an electronic copy of its 2019 annual tree and shrub replacement inspection report in compliance with the Commission's Orders in Case Nos. PU-11-631 and PU-11-680. The inspection was performed by the Morton County Soil Conservation District.

This report represents the fifth year of inspections since the original trees and shrubs were planted in 2014. Following is a summary of the trees and shrubs removed, trees and shrubs planted and the survival percentage for each year. 2019 represents the last year for this report, the inspections and additional tree plantings, unless otherwise ordered by the Commission.

	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>
Trees Removed	329					
Shrubs Removed	616					
Trees/Shrubs Planted	2,291		1,003	911	976	904
Trees/Shrubs Survival		1,288	1,380	1,315	1,387	1,994
Required	1,890					
% of Survival vs Required		68%	73%	70%	73%	106%

The detail by landowner and tree/shrub species is provided as Attachment A. Please contact me at 701.222.7856 or [tamie.aberle@mdu.com](mailto:tamie.aberle@mdu.com) with any questions.

Sincerely,



Tamie A. Aberle  
Director of Regulatory Affairs

Attachments

## Tree Mitigation Plan

Landowner

Kuhn	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival	Tree	Shrub
Green Ash	37											x	
Bur Oak	23											x	
Juneberry	30												x
Chokecherry		46	37	9	43	3	43	3	42	4	43		x
Rocky Mountain Juniper		130	94	36	105	25	79	51	90	40	132	x	
Silver Buffaloberry	16	46	18	28	17	29	22	24	26	20	43		x
<b>Total</b>	<b>106</b>	<b>222</b>	<b>149</b>	<b>73</b>	<b>165</b>	<b>57</b>	<b>144</b>	<b>78</b>	<b>158</b>	<b>64</b>	<b>218</b>		

Plant Trees where removed

Seeman	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival	Tree	Shrub
Red Pine	1	2	0	2	0	2	0	2	0	2	0	x	

Plant @ Farmstead at 4647 24th Ave

Kary	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival	Tree	Shrub
Bur Oak	15											x	
Green Ash	42											x	
Juneberry	4												x
Common Buckthorn	2												x
Rocky Mountain Juniper		44	33	11	33	11	35	9	38	6	45	x	
Golden Currant		85	61	24	62	23	69	16	67	18	81		x
Silver Buffaloberry		95	13	82	8	87	23	72	56	39	49		x
<b>Total</b>	<b>63</b>	<b>224</b>	<b>107</b>	<b>117</b>	<b>103</b>	<b>121</b>	<b>127</b>	<b>97</b>	<b>161</b>	<b>63</b>	<b>175</b>		

Plant Trees where removed

Schock	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival	
Green Ash	10	22	14	8	15	7	18	4	16	6	22	x
Bur Oak	3	72	22	50	21	51	16	56	22	50	68	x
Juneberry	8											
Silver Buffaloberry	23											
Total	44	94	36	58	36	58	34	60	38	56	90	

x  
x

Plant Trees at location identified by owner

Marmot	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival	
Green Ash	1	2	0	2	0	2	0	2	1	1	2	x

Plant Trees where removed

Plummer	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival	Tree	Shrub
Bur Oak	9	18	15	3	11	7	8	10	11	7	18	x	
Silver Buffaloberry	21	103	5	98	2	101	0	103	0	103	26		x
Redosier Dogwood	9	96	84	12	63	33	85	11	71	25	125		x
Total	39	217	104	113	76	141	93	124	82	135	169		

Plant Bur Oak where trees removed. Plant Trees at location identified by owner

Vogel	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival	
Green Ash	2	65	58	7	62	3	63	2	63	2	65	x
Juneberry	75											x
Silver Buffaloberry	244											x
Box Elder	8											x
Round Leaf Hawthorn	2											x
Midwest Man. Crabapple		78	73	5	77	1	77	1	78	0	78	x
Golden Current		163	136	27	155	8	148	15	152	11	154	x
BH Spruce		30	30	0	30	0	30	0	30	0	51	x
CO Blue Spruce		21	15	6	20	1	20	1	21	0	0	x
Cranberry		182	138	44	144	38	130	52	170	12	173	x
Schubert Chokecherry		124	108	16	110	14	117	7	123	1	122	x
<b>Total</b>	<b>331</b>	<b>663</b>	<b>558</b>	<b>105</b>	<b>598</b>	<b>65</b>	<b>585</b>	<b>78</b>	<b>637</b>	<b>26</b>	<b>643</b>	

Plant Trees at location identified by owner

Norton	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival 1/	
Common Buckthorn	25											x
Round Leaf Hawthorn	67											x
Silver Buffaloberry		40	4	36	3	37	12	28	14	26	31	x
Redosier Dogwood		110	31	79	40	70	43	67	85	25	94	x
Nannyberry		34	3	31	3	31	17	17	18	16	33	x
<b>Total</b>	<b>92</b>	<b>184</b>	<b>38</b>	<b>146</b>	<b>46</b>	<b>138</b>	<b>72</b>	<b>112</b>	<b>117</b>	<b>67</b>	<b>158</b>	

Plant Trees at location identified by owner

1/ Nannyberry alive, remainder replaced with Dogwood. Two Buffaloberry alive, remainder replaced with chokecherry.

Heskett	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival		
Chinese Elm	18												x
Russian Olive	6												x
Silver Buffaloberry	12	152	53	99	44	108	14	138	4	148	118		x
Common Buckthorn	12												x
Redosier Dogwood		102	24	78	45	57	13	89	0	102	62		x
CO Blue Spruce		41	12	29	30	11	28	13	26	15	32	x	
Chokecherry		150	106	44	99	51	81	69	59	91	123		x
Round Leaf Hawthorn		76	20	56	15	61	17	59	6	70	48		x
Rocky Mountain Juniper	<u>18</u>	<u>162</u>	<u>81</u>	<u>81</u>	<u>123</u>	<u>39</u>	<u>107</u>	<u>55</u>	<u>98</u>	<u>64</u>	<u>156</u>	x	
Total	66	683	296	387	356	327	260	423	193	490	539		

Trees from Landowners Irwin, Trauger and Mitzel added to trees removed from plant site

Irwin	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival	Tree	Shrub
Green Ash	33												x
Chinese Elm	8												x
Russian Olive	<u>2</u>												x
Total	43												

Landowner does not want trees replanted. Replacement trees planted at Heskett Station

Trauger	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival		
Green Ash	39												x
Silver Buffaloberry	23												x
Common Buckthorn	11												x
Eastern Cottonwood	34												x
Box Elder	19												x
American Elm	<u>1</u>												x
Total	127												

Landowner does not want trees replanted. Replacement trees planted at Heskett Station

Mitzel	Removed	Replanted	2015 survival	2016 replanted	2016 survival	2017 replanted	2017 survival	2018 replanted	2018 survival	2019 replanted	2019 survival
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Silver Buffaloberry	12										
Common Buckthorn	<u>20</u>										
Total	32										

x  
x

Landowner does not want trees replanted. Replacement trees planted at Heskett Station

<b>Total Trees Removed</b>	<b>329</b>										
<b>Total Trees Replanted</b>	<b>687</b>										
<b>Total Shrubs Removed</b>	<b>616</b>										
<b>Total Shrubs Replanted</b>	<b>1604</b>										
<b>Total Survival of Trees &amp; Shrubs Planted</b>		<b>1288</b>		<b>1380</b>		<b>911</b>	<b>1315</b>		<b>1387</b>		<b>1994</b>
<b>Total Trees &amp; Shrubs Replanted</b>			<b>1003</b>					<b>976</b>		<b>904</b>	