

Memorandum

To	North Dakota Public Service Commission	Pages	3
Subject	Case Number PU-18-280 Emmons-Logan Wind Energy Center Tree and Shrub Mitigation Specifications Expedited Request for Approval to Clear Cut Trees and Shrubs >50 Feet Wide		
From	Emmons-Logan Wind, LLC		
Date	July 17, 2019		

Introduction

Pursuant to the Emmons-Logan Wind Energy Center Tree and Shrub Mitigation Specifications (Docket No. 101) No. 8, Emmons-Logan Wind, LLC (Emmons-Logan Wind) submits to the North Dakota Public Service Commission (Commission) this request for approval to clear cut a width of greater than 50 feet through a shelterbelt (Attachment 1) for construction of an access road. The construction easement for the access road within the shelterbelt measures approximately 2,510 feet long by 95 feet wide along the north-south access road and 255 feet long by 250 feet wide along the east-west access road.

The landowner requested that the access road be routed through this area and has no objections to tree and shrub removal. The access road and construction easement area has been inventoried for trees and shrubs anticipated to be cleared per the Tree and Shrub Mitigation Specifications. The inventory of trees and shrubs includes the location, number, and species of trees and shrubs (Table 1). Emmons-Logan Wind will replace all removed trees and shrubs at a 2:1 ratio per the Tree and Shrub Mitigation Specifications.

Table 1. Tree and Shrub Inventory

ID	Approximate Location*		Species		Count
	Latitude	Longitude	Common Name	Scientific Name	
EL-171-TS	46.386973	-100.095531	Caragana	<i>Caragana arborescens</i>	203
EL-172-TS	46.388200	-100.095685	Green ash	<i>Fraxinus pennsylvanica</i>	2
EL-173-TS	46.388057	-100.095704	Chokecherry	<i>Prunus virginiana</i>	20
EL-174-TS	46.387669	-100.095690	Chokecherry	<i>Prunus virginiana</i>	3
EL-175-TS	46.386937	-100.095476	Nannyberry viburnum	<i>Viburnum lentago</i>	147
			Siberian elm	<i>Ulmus pumila</i>	1
EL-176-TS	46.385792	-100.095395	Siberian elm	<i>Ulmus pumila</i>	2
EL-177-TS	46.386998	-100.095406	Flowering crabapple	<i>Malus hybrids</i>	84
EL-178-TS	46.386961	-100.095300	Chokecherry	<i>Prunus virginiana</i>	239
			Siberian elm	<i>Ulmus pumila</i>	1
EL-179-TS	46.387899	-100.095247	Silverberry	<i>Elaeagnus commutata</i>	19
EL-180-TS	46.387189	-100.095243	Silverberry	<i>Elaeagnus commutata</i>	34
EL-181-TS	46.386591	-100.095233	Silverberry	<i>Elaeagnus commutata</i>	9
EL-182-TS	46.386439	-100.095234	Cottonwood	<i>Populus deltoides</i>	1
EL-183-TS	46.386299	-100.095228	Silverberry	<i>Elaeagnus commutata</i>	6
			Green ash	<i>Fraxinus pennsylvanica</i>	1

ID	Approximate Location*		Species		Count
	Latitude	Longitude	Common Name	Scientific Name	
EL-184-TS	46.385921	-100.095231	Silverberry	<i>Elaeagnus commutata</i>	10
			Siberian elm	<i>Ulmus pumila</i>	10
EL-185-TS	46.385888	-100.095580	Siberian elm	<i>Ulmus pumila</i>	1
EL-186-TS	46.386029	-100.095584	Siberian elm	<i>Ulmus pumila</i>	1
EL-187-TS	46.390617	-100.095540	Caragana	<i>Caragana arborescens</i>	312
EL-188-TS	46.390640	-100.095484	Nannyberry viburnum	<i>Viburnum lentago</i>	149
EL-189-TS	46.390587	-100.095418	Flowering crabapple	<i>Malus hybrids</i>	137
			Green ash	<i>Fraxinus pennsylvanica</i>	1
			Cottonwood	<i>Populus deltoides</i>	1
EL-190-TS	46.390657	-100.095314	Chokecherry	<i>Prunus virginiana</i>	202
			Cottonwood	<i>Populus deltoides</i>	1
EL-191-TS	46.389363	-100.095244	Silverberry	<i>Elaeagnus commutata</i>	24
EL-192-TS	46.390462	-100.095252	Silverberry	<i>Elaeagnus commutata</i>	76
EL-193-TS	46.391601	-100.095247	Silverberry	<i>Elaeagnus commutata</i>	25
EL-194-TS	46.392130	-100.095245	Silverberry	<i>Elaeagnus commutata</i>	15
EL-195-TS	46.392411	-100.095224	Green ash	<i>Fraxinus pennsylvanica</i>	4
EL-196-TS	46.392352	-100.095656	Nannyberry viburnum	<i>Viburnum lentago</i>	15
EL-197-TS	46.390845	-100.095686	Chokecherry	<i>Prunus virginiana</i>	9
EL-198-TS	46.392229	-100.095193	Green ash	<i>Fraxinus pennsylvanica</i>	16
			Golden currant	<i>Ribes odoratum</i>	3
EL-199-TS	46.391877	-100.095198	Golden currant	<i>Ribes odoratum</i>	8
			Boxelder	<i>Acer negundo</i>	2
EL-200-TS	46.390438	-100.095206	Golden currant	<i>Ribes odoratum</i>	77
EL-201-TS	46.388862	-100.095201	Golden currant	<i>Ribes odoratum</i>	13
EL-202-TS	46.388475	-100.095544	Caragana	<i>Caragana arborescens</i>	34
EL-203-TS	46.388189	-100.095541	Caragana	<i>Caragana arborescens</i>	8
EL-204-TS	46.388411	-100.095483	Nannyberry viburnum	<i>Viburnum lentago</i>	30
EL-205-TS	46.388499	-100.095418	Siberian crabapple	<i>Malus baccata</i>	13
EL-206-TS	46.388190	-100.095419	Siberian crabapple	<i>Malus baccata</i>	7
EL-207-TS	46.388392	-100.095306	Chokecherry	<i>Prunus virginiana</i>	38
EL-208-TS	46.392158	-100.095368	Ponderosa pine	<i>Pinus ponderosa</i>	7
EL-209-TS	46.391885	-100.095364	Ponderosa pine	<i>Pinus ponderosa</i>	2
EL-210-TS	46.391675	-100.095373	Ponderosa pine	<i>Pinus ponderosa</i>	6
EL-211-TS	46.391454	-100.095382	Ponderosa pine	<i>Pinus ponderosa</i>	1
EL-212-TS	46.391159	-100.095373	Ponderosa pine	<i>Pinus ponderosa</i>	1
EL-213-TS	46.389028	-100.095653	Nannyberry viburnum	<i>Viburnum lentago</i>	8
EL-214-TS	46.388398	-100.095199	Golden currant	<i>Ribes odoratum</i>	2
EL-215-TS	46.388618	-100.095196	Golden currant	<i>Ribes odoratum</i>	6
			Green ash	<i>Fraxinus pennsylvanica</i>	2

ID	Approximate Location*		Species		Count
	Latitude	Longitude	Common Name	Scientific Name	
EL-216-TS	46.388183	-100.095196	Golden currant	<i>Ribes odoratum</i>	10
			Green ash	<i>Fraxinus pennsylvanica</i>	2
EL-217-TS	46.388397	-100.095118	Flowering crabapple	<i>Malus hybrids</i>	23
EL-218-TS	46.388315	-100.095016	Russian olive	<i>Elaeagnus angustifolia</i>	8
EL-219-TS	46.388677	-100.095019	Russian olive	<i>Elaeagnus angustifolia</i>	2
EL-220-TS	46.388620	-100.094957	Siberian crabapple	<i>Malus baccata</i>	5
EL-221-TS	46.388250	-100.094966	Siberian crabapple	<i>Malus baccata</i>	6
EL-222-TS	46.388400	-100.094908	Hybrid polar	<i>Populus hybrids</i>	13
EL-223-TS	46.388297	-100.094836	Flowering crabapple	<i>Malus hybrids</i>	12
EL-224-TS	46.388238	-100.094784	Nanking cherry	<i>Prunus tomentosa</i>	1
EL-225-TS	46.388377	-100.094785	Nanking cherry	<i>Prunus tomentosa</i>	2
EL-226-TS	46.388417	-100.094727	Common lilac	<i>Syringa vulgaris</i>	24
EL-227-TS	46.388408	-100.094551	Silver buffaloberry	<i>Shepherdia argentea</i>	37
EL-228-TS	46.388351	-100.094480	Russian olive	<i>Elaeagnus angustifolia</i>	19
EL-229-TS	46.388409	-100.094427	Green ash	<i>Fraxinus pennsylvanica</i>	24
EL-230-TS	46.388390	-100.094366	Flowering crabapple	<i>Malus hybrids</i>	22
EL-231-TS	46.388418	-100.094318	Chokecherry	<i>Prunus virginiana</i>	22
EL-232-TS	46.388200	-100.094255	Chokecherry	<i>Prunus virginiana</i>	1
EL-233-TS	46.388339	-100.094201	Caragana	<i>Caragana arborescens</i>	28
EL-234-TS	46.388208	-100.094124	Chokecherry	<i>Prunus virginiana</i>	2
EL-235-TS	46.388679	-100.094139	Chokecherry	<i>Prunus virginiana</i>	6
EL-236-TS	46.388318	-100.094134	Chokecherry	<i>Prunus virginiana</i>	1
EL-237-TS	46.388592	-100.094789	Nanking cherry	<i>Prunus tomentosa</i>	2
EL-238-TS	46.388786	-100.095128	Flowering crabapple	<i>Malus hybrids</i>	5
EL-239-TS	46.388770	-100.095056	Silver buffaloberry	<i>Shepherdia argentea</i>	1
EL-240-TS	46.388783	-100.095018	Russian olive	<i>Elaeagnus angustifolia</i>	1
EL-241-TS	46.388779	-100.094957	Siberian crabapple	<i>Malus baccata</i>	5
EL-242-TS	46.388780	-100.094896	Hybrid poplar	<i>Populus hybrids</i>	1
EL-243-TS	46.388710	-100.094894	Hybrid poplar	<i>Populus hybrids</i>	1
EL-244-TS	46.388769	-100.094838	Flowering crabapple	<i>Malus hybrids</i>	6
EL-245-TS	46.388801	-100.094778	Green ash	<i>Fraxinus pennsylvanica</i>	1
EL-246-TS	46.388725	-100.094722	Common lilac	<i>Syringa vulgaris</i>	7
EL-247-TS	46.388721	-100.094493	Russian olive	<i>Elaeagnus angustifolia</i>	2
EL-248-TS	46.388762	-100.094440	Green ash	<i>Fraxinus pennsylvanica</i>	6
EL-249-TS	46.388768	-100.094383	Flowering crabapple	<i>Malus hybrids</i>	6
EL-250-TS	46.388769	-100.094325	Chokecherry	<i>Prunus virginiana</i>	12





*The location is based on the center point of the field collected GIS polygon.

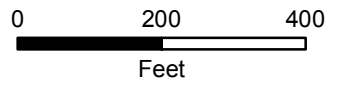
Attachments:

1. Clear Cut Request Area Overview Map

**EMMONS-LOGAN
WIND ENERGY CENTER
EMMONS AND LOGAN
COUNTIES, ND**

LEGEND

-  Potential Trees to be Removed
-  Turbine
-  Service Road
-  Emmons-Logan Wind Energy Center Project Area



**Attachment 1
Clear Cut Request
Area Overview**