



North Dakota Geological Survey

Edward C. Murphy - State Geologist

Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

www.state.nd.us/ndgs

February 1, 2017

Mr. Darrell Nitschke
Executive Director
N.D. Public Service Commission
600 East Boulevard Ave, Dept. 408
Bismarck, ND 58505-0480



Re: Glacier Ridge Wind Farm, LLC (PU-16-539) – Phase II Project Area Comments

The North Dakota Geological Survey appreciates the notification and opportunity to review and provide comment on the proposed wind energy development project. The Motion to Lift Stay Decision on Phase II was reviewed on January 31, 2017 which prompted an additional review of the Phase II Project Area and recently completed landslide mapping work in the area.

Regarding the Phase II Project Area and locations of proposed turbines, it should be noted that subdued landslide features have been mapped near the proposed location of Turbine 40. Although the proposed turbine location is not located directly on a mapped landslide feature, it is within such proximity as to warrant comment.

During site selection and location engineering design it is important to be aware that these types of features have been mapped in the region. A map which combines the proposed project boundaries and turbine locations with recently completed landslide mapping work for the area is included with this letter. Also, a LiDAR elevation map graphic is also included (Attachment 1) that depicts the surface morphology of the mapped weathered landslide feature noted above.

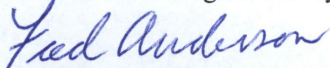
Downloadable areas of landslide maps and detailed LiDAR elevation mapping data for the 1:24,000 scale quadrangles in the project area can be found on our website at:

<https://www.dmr.nd.gov/ndgs/SurfaceMap/SurfaceMap.asp?source=landslide24k>

You may also contact our offices directly, with any additional questions or comments, at (701) 328-8000.

Sincerely,

North Dakota Geological Survey:


Fred Anderson
Geologist

105 PU-16-539 Filed: 2/2/2017 Pages: 3
Landslide map (oversized - paper copy only) and
LiDAR elevation map

North Dakota Geological Survey

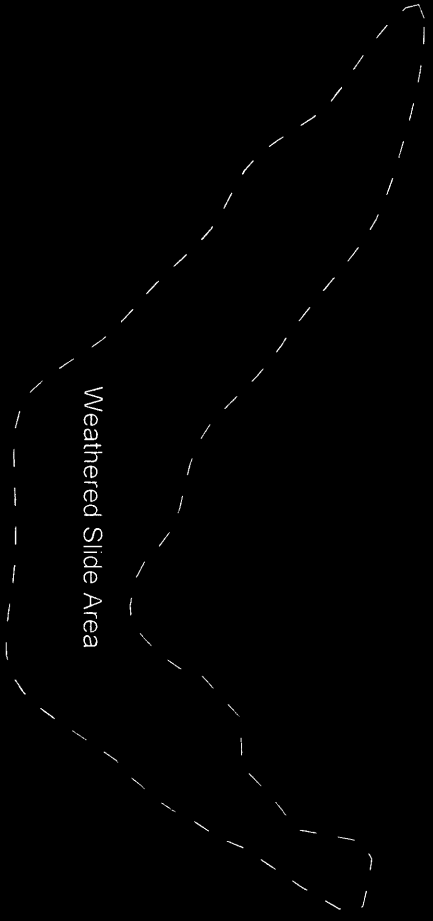
Fred Anderson, Geologist

FJA\Map, Attachment 1.

Attachment 1

141-56-17 SE1/4

Approximate Proposed
Turbine Location



Weathered Slide Area

