Date: 5/20/2024

Radio North Group

Attn: To Whom It May Concern

SUBJECT: Project Number: 536792-05
Site Name: Williston PD, VT
Structure: 180 ft self-supporting tower
Designed with a theoretical zero fall zone radius

Communication structures designed by Valmont are sized in accordance with the latest governing revision of the ANSI/TIA 222 standard unless otherwise requested by our customer or the governing jurisdiction. This standard has been approved by ANSI/ASCE, which has dealt with the design of antenna support structures since the late 1950s. The TIA standard, based on provisions of this nationally known specification, has a long history of reliability. Its core philosophy is first and foremost to safeguard and maintain the health and welfare of the public.

Valmont's communication structures have proven to be very reliable products. We use the latest standards, wind speed information, and sophisticated analytical tools to ensure that we continue providing high quality structures.

This structure is designed to the following criteria:

- Exposure category: C
- Topographical category: 1
- Risk category: III/IV (ANSI/TIA-222-G), IV (ANSI/TIA-222-H)
- Site elevation: 685 ft
- 120 MPH Ultimate wind speed (no ice) per ASCE 7-16
- 40 MPH with 1.0 inches ice per ANSI/TIA-222-G

The theoretical failure point is at the structure midpoint or above by purposely overdesigning the structural components below this point. The predicted mode of wind induced failure would be local buckling of the tower legs at or above the midpoint with the upper tower legs folding over onto the intact lower tower legs.

I hope these comments address any questions or concerns relative to the anticipated performance of this structure; please reach out directly should you have any questions or comments.

Sincerely,

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