

From: Casey.Willis@engie.com
To: [Thurber, Jon](#)
Cc: [Edwards, Kristen](#); brett@mayadam.net
Subject: FW: [EXT] GE Safety Manual Question
Date: Friday, June 14, 2019 3:35:40 PM

Jon, forgot to forward this to you from a couple days ago.

Casey

From: Amirault, Tom (GE Renewable Energy) <tom.amirault@ge.com>
Sent: Tuesday, June 11, 2019 6:01 AM
To: WILLIS Casey (ENGIE North America) <Casey.Willis@engie.com>
Subject: RE: GE Safety Manual Question

Hi Casey,

Thank you for your email.

GE confirms that the WIOM system functions as an ice detector pursuant to the references in section 8.4.1 of GE's safety manual, *Operating_Manual_1-2MW_Safety_EN_r02*.

With the WIOM system, GE recommends a setback distance of $1.1 * \text{tip_height}$ with a 170 m minimum to address ice throw away from the following example objects of concern: Public use areas, residences, office buildings, public buildings, parking lots, public roads, and railroads.

Property lines are not considered an object of concern subject to ice throw setback recommendations. GE recommends that turbines are set back a distance of $1.1 * \text{blade_length}$ from property lines, provided there is remote chance of future development or inhabitancy during the life of the wind farm.

Let me know if this suffices.

Regards,

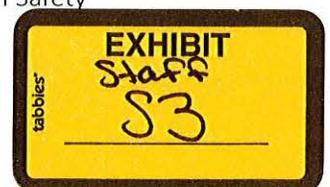
Tom

Tom Amirault
Wind Technical Leader
GE Renewables
(518) 389-8197

From: Casey.Willis@engie.com <Casey.Willis@engie.com>
Sent: Friday, June 7, 2019 3:14 PM
To: Amirault, Tom (GE Renewable Energy) <tom.amirault@ge.com>
Subject: EXT: GE Safety Manual Question

Hi Tom,

In the GE Technical Documentation Wind Turbine Generation System 1&2 MW Platform Safety



Manual, GE recommends the use of an ice detector to detect ice buildup. Triple H Wind Project, LLC is intending to use GE's Winter Ice Operation Mode (WIOMs) product as a method to detect ice buildup for the Triple H Wind Project. Can you confirm that this is considered an "ice detector" pursuant to the references in Section 8.4.1 of the GE's safety manual?

Second, will you please confirm that with the use of the WIOMs system, the GE recommended setback from roads, residences, and buildings to address ice throw is 1.1 times tip height?

Finally, can you please confirm that GE does not recommend a 1.1 times the tip height setback from property lines for ice throw?

Casey

Casey Willis
Senior Project Developer



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