

# Safety Question #3

2 messages

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**Joe <joesantolucito@gmail.com>**

**Tue, Oct 4, 2011 at 7:15 PM**

To: kemery2011@gmail.com

Cc: Susan Runes <sumnerme@megalink.net>, normordi@megalink.net, JIM longacre <jelongacre@comcast.net>, Mark Pappalardo <mapappal@gmail.com>

Hi Kathy, hope is all well with you . I apologize for the delayed response to safety question 3 .

Although turbine fires are a very rare occurrence, turbines do contain a "total lightning protection" system which complies with promulgated by the International Electromechanical Commission (IEC). The system conducts lightning from both sides of the blade tip down to the root joint into the nacelle, tower and earthing system. Additionally, the turbine's blade monitoring system provides documentation of all critical lightning events. These operational safety features ensure that the risk of lightning is addressed.

Wind turbines manufactures today incorporate the highest quality in safety standards, which includes, fire detection and extinguishing systems, which should reduce the severity of the fire.

The turbine's contain relatively few flammable components, however a turbine fire, though extremely rare, is possible. Potential causes of fire such as lightning strikes, short circuits, or other internal malfunctions are sensed by the turbine monitoring system, which can shut down the turbine and alert maintenance personal.

A turbine fire could conceivably occur at extreme height, in which case the only available emergency response may be to monitor the fire until it has burned itself out. Under such circumstance, it is necessary to ensure that the fire remains under control and does not spread to structure on the ground or to the forested areas. This requires a prompt response by both the employees of Clear Sky and the local emergency responders. This calls for the establishment of protocols that will provide emergency response access to the turbines alarm or call for emergency responses. Clear Sky would cooperate with the Town of Sumner in determining the need for, and the purchase of, adequate response equipment and Clear Sky will pay and provide for any training needed by local fire department personal. Furthermore, Clear Sky would work with the town to ensure that there would be no unreasonable adverse effects to public health and safety due to fire and lightning concerns.

I will forward you the answers regarding the questions that you addressed to Cianbro regarding construction safety and the onsite maintenance equipment storage shed. Cianbro as you saw in their presentation has an outstanding safety record and is I am sure they address all safety concerns during the construction and on going maintenance .

Regards,  
Joe

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