

A-Core Container

Wind power generation fire control system



Overview

What is active fire protection in a wind turbine?

In the case of a wind turbine fire (as with many other industrial fires), active fire protection involves: The most widely used and most effective fire suppression systems in wind turbines are aerosol systems.

Do wind turbines need fire protection?

Some fire protection systems are recommended for wind turbines, but each case must follow even more specific safety recommendations. The systems mentioned in NFPA 850 include gas systems, water mist, compressed air foams, and aerosols.

How does a wind turbine fire suppression system work?

The most widely used and most effective fire suppression systems in wind turbines are aerosol systems. A connected smoke/heat detector sends a signal to the aerosol system which immediately activates a discharge of the fire extinguishing agent.

Should wind farms retrofit fire suppression systems?

As wind farms prep for eventual replacements, retrofitting fire suppression systems remains a viable interim opportunity to both safeguard existing turbines and increase the ability of operators to coordinate fire protection across their facility's footprint, which typically extends over thousands of acres.

What are the best practices for wind turbine fire protection?

When addressing fire protection for wind turbines (prevention as well as suppression), the best practices include both passive and active fire protection measures. Passive fire protection is fire protection which, once implemented, does not require additional action. Some examples of passive fire protection of wind turbines are:

How to prevent fire at wind turbines?

5.2.1 Fire detection In order to effectively limit fire and consequential loss, fires at wind turbines shall also be detected early on by automatic fire detection systems, in particular, since wind turbines are usually operated without any on-site staff. Distinction is basically made between room and installation monitoring.

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