

Confidential Release

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DOCKETING DIVISION

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Technician Date Processed 9-27-21

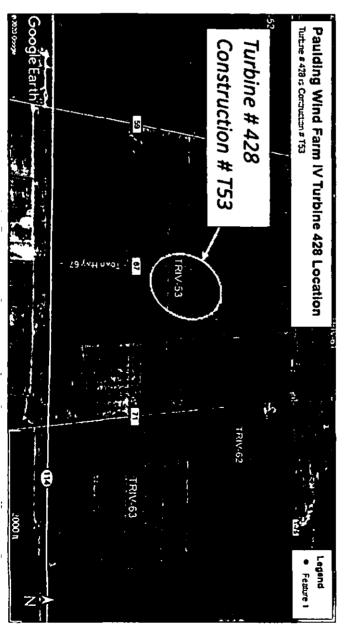
Public and Site Personnel Safety Precautions

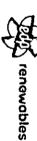
fallen to the crane pad and within an approximate 90-meter radius around the turbine Wind Farm IV ("Timber Road IV") in Paulding County experienced a blade failure. Damaged blade debris has On September 3, 2020 at approximately 22:36 hours local time, a Vestas V150 4.2MW wind turbine at Paulding

3.6MW turbines. Timber Road IV is a 126MW generating facility that consists of 24 Vestas V150 4.2MW and 7 Vestas V136

The Timber Road IV operations team mobilized to the turbine at 06:45 to ensure no additional hazards were present. After initial visual inspection of the turbine and surroundings, the operations team implemented actions to secure the area around the turbine. Those actions included notifying landowners and closing access roads leading to the affected turbine 428.

No injuries to personnel or the public occurred. No property damage was sustained beyond the turbine equipment.





Weather Conditions & Turbine Operation

The review of weather conditions based on the information available does not indicate severe weather conditions in the area around the time of failure.

- While lightning cannot be ruled out, no immediate evidence is available showing lightning in the area since July 28, 2020
- No evidence of sudden wind speed or wind direction change
- No evidence of high wind or overspeed condition.

potential contributors to the failure. A more complete analysis is underway and will necessitate a Initial review of the turbine operation data, alarm logs and environmental data has not revealed and causes field engineering investigation of the damaged blade to identify, confirm or rule out contributors

of the onsite investigation. Shell rework is common practice as part of the blade manufacturing blade during manufacturing was noted, and the condition of this rework will be inspected as part blade received Vestas' Statement of Quality. Factory rework completed in the root section of the The failed blade manufacturing records did not reveal any identified deviations in quality and the



Activities and Next Step

Timber Road IV will continue to monitor and control the area around turbine 428

were completed prior to the first climb to ensure safety and develop a plan for Safe Approach A thorough inspection of turbine 428 was completed during the first climb on September 22. Multiple drone flights

there are no meaningful nor immediate concerns related to the blade integrity and operability. continued operation. Two blades have been noted for a follow-up inspection to collect additional measurements, but September 29. Vestas Engineering has reviewed the inspection material and all blades have been cleared for Vestas and Timber Road IV executed internal blade inspections on all V150 blades between September 17 and All blades have gone through external inspections on September 5-6. As an additional step to ensure safe operation,

analysis is completed and the report becomes available. several weeks after the field investigation. Timber Road IV intends to submit the same to OPSB once the full root cause incorporated into Vestas' root cause analysis. This root cause analysis and final incident report is expected to take removed, Vestas and Timber Road IV Engineering will be on site to perform the field investigation. This material will be failed blade. This work is currently scheduled during the week of October 5. Once the remaining blade section is safely Preparations are underway to ready a crane and necessary equipment to remove the damaged root section of the

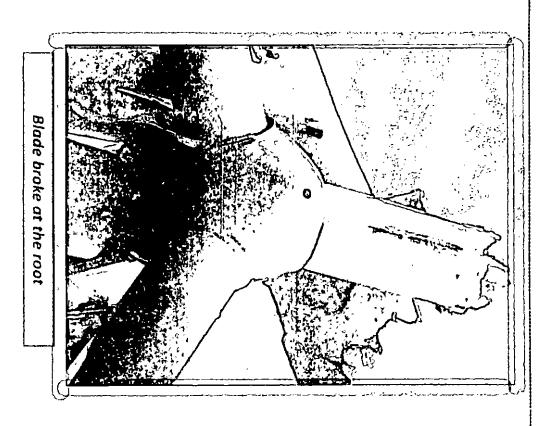
Return to service activity summary:

- Deliver replacement blade to site (currently scheduled for December)
- Deliver all other parts, tooling and equipment to site
- Re-install new blade

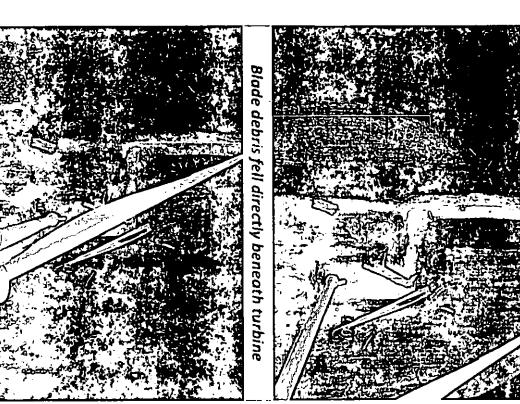


Incident Description – Photos

<< CONFIDENTIAL - CONTAINS PROPRIETARY AND/OR TRADE SECRET INFORMATION >>







renewables

Incident Description - Initial Photos

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