

Blade inspection report WBS-2026-031

Quellmoor Ridge Wind Farm - May 2026

Field	Value
Client	Contoso Renewables
Site	Quellmoor Ridge Wind Farm, 12 x Litware LT-32, 36 blades of 57.5 m
Inspection dates	2026-05-18 to 2026-05-22
Method	Drone visual inspection (three passes per blade) and ground photography
Report date	2026-06-03
Lead inspector	Leilani Hartfield

1. Summary

36 blades were inspected. One finding is category 4 (WTG-04 blade B), four findings are category 3 and eleven blades show category 2 damage. All other blades are category 0 or 1.

Category	Meaning	Required action
0	No damage	none
1	Cosmetic	none
2	Minor	monitor at the next inspection
3	Significant	repair within 6 months
4	Serious	repair or replace within 3 months; monthly drone check
5	Critical	stop the turbine

Turbine	Blade A	Blade B	Blade C	Highest
WTG-01	1	1	2	2
WTG-02	1	2	1	2
WTG-03	2	1	1	2
WTG-04	2	4	2	4
WTG-05	1	1	1	1
WTG-06	2	1	1	2
WTG-07	1	2	1	2
WTG-08	3	1	2	3
WTG-09	1	1	3	3
WTG-10	1	2	1	2
WTG-11	2	1	3	3
WTG-12	1	1	2	2

2. Detailed findings

F-01 - WTG-04 blade B - trailing-edge crack - category 4

Blade serial LB575-19-1187. A trailing-edge crack 0.9 m long runs along the bond line between radius 37.6 m and 38.5 m, close to the spar cap. Repair is not recommended at this location. Replace blade B before 2026-09-30. Until the replacement, check the crack by drone every month and stop the turbine immediately if the crack exceeds 1.2 m.

F-02 - WTG-04 blade B - leading-edge erosion - category 3

Coating loss between radius 52 m and 57 m; laminate not exposed.

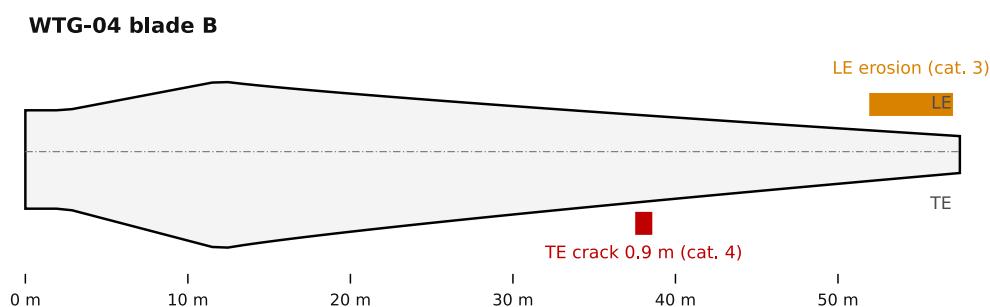


Figure 1 - Findings F-01 and F-02 on WTG-04 blade B

F-03 - WTG-08 blade A - lightning receptor damage - category 3

The tip receptor is burnt. Replace the receptor within 6 months and check the continuity of the down conductor.

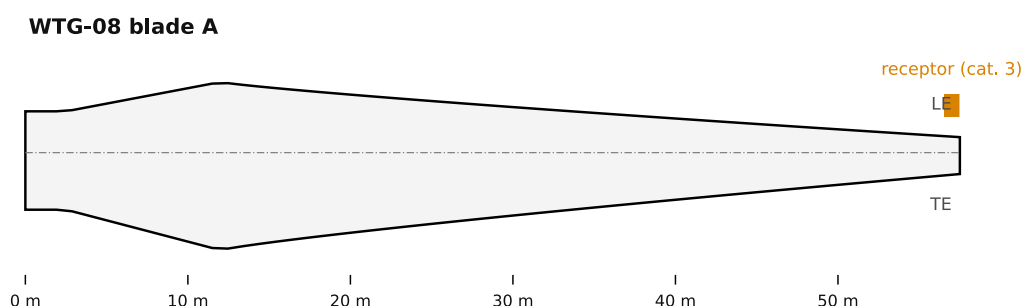


Figure 2 - Finding F-03 on WTG-08 blade A

F-04 - WTG-09 blade C - leading-edge erosion - category 3

Erosion between radius 50 m and 57 m with laminate exposed over 0.3 m. Leading-edge repair within 6 months.

F-05 - WTG-11 blade C - root gelcoat crack - category 3

Gelcoat crack at radius 3.2 m. Repair within 6 months and check at the next inspection.

3. Recommendations

- Replace WTG-04 blade B before 2026-09-30 (crane lift required).
- Repair the category 3 findings within 6 months (rope access).
- Next full inspection: May 2027.

Report prepared by Leilani Hartfield, Lead Blade Inspector, Wingtip Blade Services.