



**ENERGY
SERVICES**

Your Premier Blade Service Company



Prevent Wind Blade Failure and Increase Revenue With Scheduled Blade Maintenance

- **Minimize downtime**
- **Reduce/eliminate large repairs and replacements**
- **Increase productivity**

Leading-Edge Erosion Reduces Energy Capture or Leads to Tip Failure



Failure to Test Lightning Protection Systems Leads to Severe Tip Damage



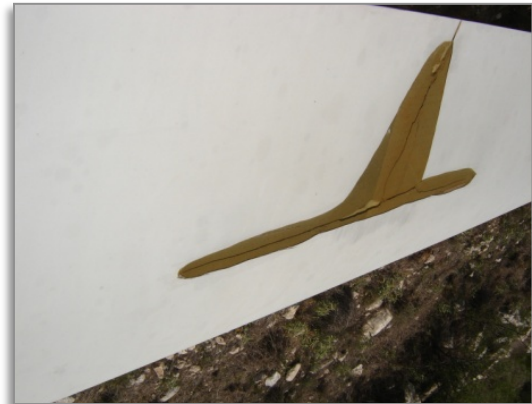


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Trailing-Edge Cracks Lead to Structural Damage



Process Overview

- Service is scheduled months in advance to take advantage of low-production time of year, good weather and availability of crane and/or suspended platform.
- Technicians prepared with equipment, tools and repair materials
- Initial meeting confirms list of suspect turbines
- Inspection schedule confirmed with site manager
- Technicians follow safety practices locking down turbine & inspecting blades
- Report is discussed with site manager
- Repairs take place immediately
- Documentation is given to site manager

Inspection Techniques

- Visual Inspection/scope/up-tower
- Tap test
- Infrared Imaging of suspect areas
- Photography
- Lightning system continuity check
- Inspection documents produced

Overview

- Inspect blades during lowest production month
- Document and report damage
- Written repair plan with estimate
- Repair all damage found
- Repair leading-edge erosion

**For a Maintenance Plan
that Saves You \$\$\$\$**

**Call the Experts at
MFG Energy Services**