

FPAW 2024 SPRING MEETING

THE AVIATION WEATHER COMMUNITY

Understanding weather impacts on aviation to enable safe, efficient and reliable operations

Vertical Flight and Low Altitude Operator Perspectives on Gaps in Aviation Weather Information and Education





Low Altitude Weather Reality





2-Key Questions

What is the impact of the aircraft on the environment.

What is the impact of the environment on the aircraft.



Aircraft Shutdown & Rotor Slowdown



Retreating blade tip sailing up and advancing blade tip sailing down.



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Retreating Blade Reaches Peak Upward Deflection



Retreating Blade Begins Decent, Advancing Blade Reaches Max Downward Deflection



Retreating Blade Continues to Flex Downward



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Blade Continues Down



Blade Impacts Vertical Stabilizer



Broken Fin Departs Aircraft



Broken Fin Departs Aircraft

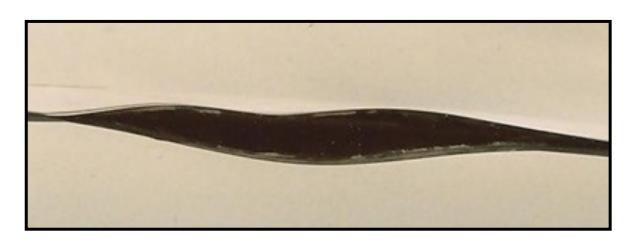


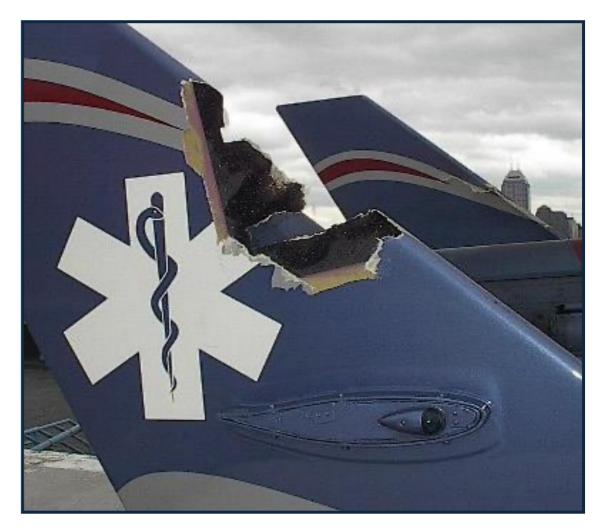
Broken Fin Departs Aircraft



Main rotor and vertical fin damage from two other separate incidents at the same location





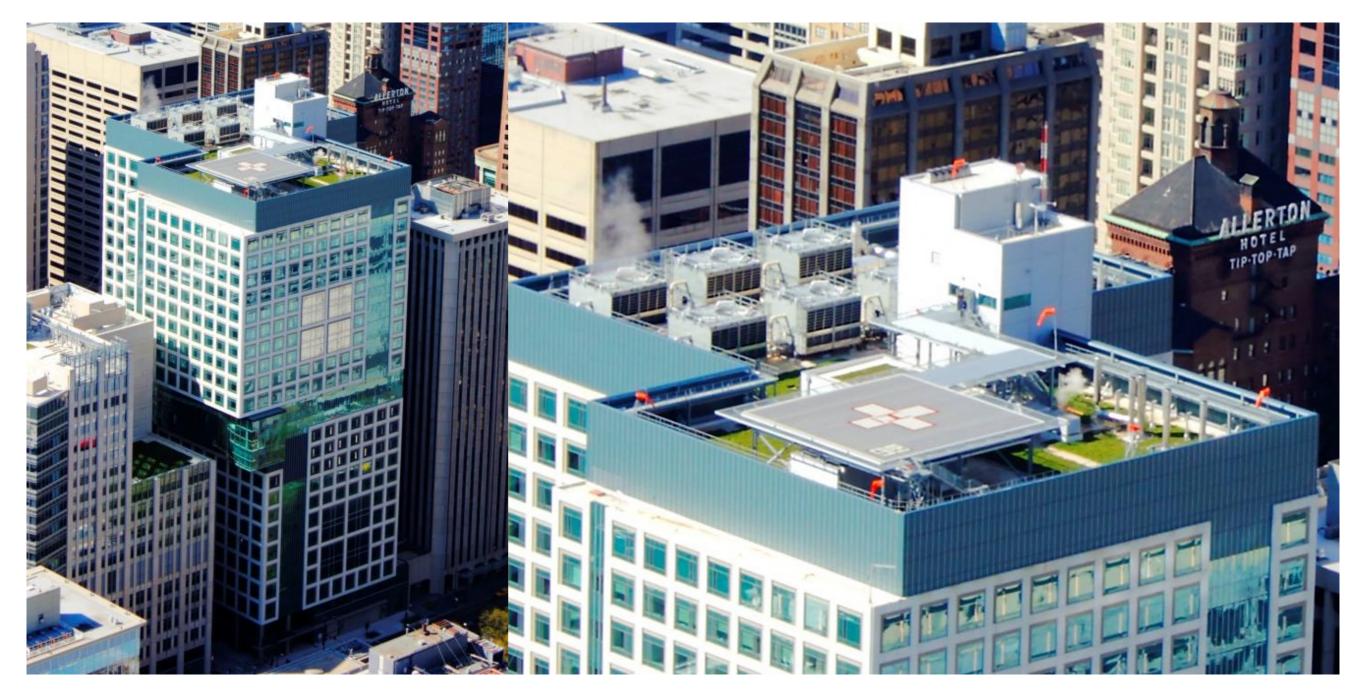


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A Weather Juxtaposition





FAA Reutilization Bill

Sec. 958. Infrastructure supporting vertical flight
This section requires the FAA to update the Vertiport
Design Engineering Brief, publish a performance-based
vertiport design advisory circular, and begin
performing the work necessary to update the Heliport
Design Advisory Circular in order to provide
performance-based design guidance.

What's Next?

