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Epic Aircraft Announces FIKI Certification

The award-winning E1000 GX receives FAA approval for flight into known icing

Bend, ORE (Dec. 5, 2023) — [Epic Aircraft](#) announced today that the Federal Aviation Administration has granted Flight Into Known Icing (FIKI) certification for the single-engine, high-performance E1000 GX turboprop.

"This certification process is one of the most challenging," said Doug King, CEO of Epic Aircraft, LLC. "We began testing several years ago, flying the E1000 GX in all of the FAA-specified natural icing conditions."

"This FAA certification establishes that the E1000 GX can withstand known icing conditions in a real-world operating environment with minimal changes required of the airplane," King added.

The first test flight began with artificial ice shapes which were 3D printed at the Epic factory in Bend, Oregon. Since that time, more than 450 flight hours on three test aircraft have been recorded, many of which were conducted in natural icing conditions in several locations in the United States. Epic Aircraft also performed extensive tests with the E1000 GX in normal operation and ice protection system failure conditions in icing tunnels and with artificial ice shapes to simulate ice build up attached to the aircraft's airfoils. Over 18 different icing configurations in two different icing wind tunnels were executed, for a total of 280 hours of icing wind tunnel test.

The E1000 GX's de-icing system includes an optical ice detector, de-ice boots on the wings, horizontal stabilizer leading edges, engine inlet, as well as bleed air heated windshield and electrically heated propeller, air data probes, and AOA sensors.

"Beginning with our first aircraft delivery in 2024, the E1000 GX will incorporate the minimal changes required for FIKI. Previously delivered certified airplanes, including

the E1000, will require modifications and will be retrofitted at our factory service center in Bend, Oregon,” said King. “Our goal is to have the existing fleet completed no later than early 2025.”

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About Epic Aircraft

Epic Aircraft, LLC specializes in the design and manufacture of high-performance, all-composite, single-engine turboprop aircraft. Epic's award-winning E1000 GX is the fastest and most fuel-efficient aircraft in its class. Privately held, the design-driven aviation company conducts all of its engineering, manufacturing, and administrative operations at its headquarters in Bend, Oregon. For more information about Epic Aircraft, please visit www.epicaircraft.com.

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