GE AVIATION ROLLS OUT ITS 1,000TH GENX ENGINE

News / Manufacturer



GE Aviation assembled the 1,000th GEnx engine, just a mere five years after the first production engine was built at GE's Durham, North Carolina.

"The GEnx was the fastest selling engine in GE's history, and now it is the fastest production ramp up of a GE widebody engine program," said Tom Levin, general manager of the GEnx/CF6 engine product lines at GE Aviation. "GEnx engines are powering the Boeing 787 Dreamliner and 747-8 aircraft for more than 40 customers, and more orders are anticipated for many years to come. The GEnx engine has proven itself with outstanding performance and reliability."

The first GEnx engine entered service on a Boeing 747-8 aircraft in 2011, and the engine program

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has accumulated five million flight hours and 900,000 cycles.

Of the engines that currently power the Boeing 787 Dreamliner, the GEnx-1B engine has set itself apart in the following areas:

Leading engine of choice for Boeing 787 with more than a 60 percent win rate.

Best fuel burn: The GEnx-1B engine has a 2.3 percent fuel burn advantage for typical Boeing 787 stage lengths, and this advantage increases further for longer range missions.

Highest reliability with a 99.96 percent dispatch reliability rate and a 25 percent lower engine removal rate than the competition.

Fewer NOx emissions: NOx emissions are as much as 55 percent below today's regulatory limit and other regulated gases are as much as 90 percent below today's limit.

GE is also looking at possible technology enhancements to ensure the GEnx engine remains a leader in its class. This year, testing took place on a GEnx demonstrator engine that contained lightweight, heat-resistant ceramic matrix composite (CMC) components along with next-generation high pressure turbine blades with advance cooling technology. The demonstrator engine is part of the technology maturation program for the GE9x engine and successfully completed 2,800 cycles.

"As we look to the future, we are committed to making sure the GEnx retains its leadership position and continues its exceptional performance," said Levin.

The GEnx engine family is the fastest-selling engine in GE Aviation history with about 1,600 engines on order. GEnx revenue-sharing participants are IHI Corporation of Japan, GKN Aerospace Engine Systems of the United Kingdom, MTU of Germany, TechSpace Aero of Belgium, Snecma (SAFRAN Group) of France and Hanwha Techwin Inc. of Korea.

The GEnx engine is part of GE's "ecomagination" product portfolio - GE's commitment to implementing innovative, cost-effective technologies that enhance the customers' environmental and operating performance.

GE Aviation is an operating unit of GE, and a world-leading provider of jet engines, components, avionics, digital and integrated systems for commercial and military aircraft. GE Aviation has a global service network to support these offerings. GE's fuel management and RNP services are ecomagination qualified products.

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