LEAP engine testing continues on schedule

- 20 LEAP engines planned to be on test by year-end
- Program on track for LEAP-1A/-1C engine certification in 2015

SINGAPORE — 10 February 2014 — CFM International’s LEAP engine certification program is proceeding on schedule, with 20 total engines to be on test by year end.

“This is the most extensive development and certification program in our history,” said Chaker Chahrour, executive vice president of CFM. “The tests we are performing are designed to push the limits of this engine, in addition to certifying it for commercial service.”

The first full LEAP engine began ground testing in September, two days ahead of schedule, logging a total of 310 hours and more than 400 cycles during approximately five weeks of testing. This engine launched the most extensive ground and flight test certification program in the company’s history and will encompass 60 engine builds over the next three years and will accumulate approximately 40,000 cycles before entry into service.

The engine recently successfully completed a series of early icing tests, one year ahead of required certification testing. The engine behaved very well in extremely harsh conditions, validating pre-test predictions and reinforcing the company’s confidence that the engine will certify on time and meet the performance and reliability promises made to its customers.

In the next few months, CFM will complete early endurance testing and is on track to begin flight testing both the LEAP-1A and LEAP-1C configurations at GE facilities in California.

The next big milestone will come in June when the first full LEAP-1B engine will begin ground testing at Snecma facilities in Villaroche, France.

“We are in the engine build-up phase right now,” said Cédric Goubet, CFM executive vice president. “Like the LEAP-1A, this engine will have extensive instrumentation and will track more than 1,500 instinct engine parameters. The hardware is coming together smoothly and we look forward to putting the engine through its paces beginning in mid-June.”
The foundation of the LEAP engine is heavily rooted in advanced aerodynamics, environmental, and materials technology development programs. It will provide 15 percent better fuel consumption and an equivalent reduction in CO2 emissions compared to today’s best CFM engine, along with dramatic reductions in engine noise and emissions. All this technology brings with it CFM’s legendary reliability and low maintenance costs.

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About CFM International
The CFM56 and LEAP engines are products of CFM International, a 50/50 joint company between SNECMA (Safran) and GE. CFM is the world’s leading supplier of commercial aircraft engines, with approximately 26,000 delivered to 530 operators around the globe. The company CFM officially launched the LEAP engine, which is its first all-new centerline engine in nearly 40 years, in 2008. The LEAP engine promises to bring double-digit improvements in fuel efficiency, emissions and noise, while the legendary reliability and low cost of ownership of its predecessor, the ubiquitous maintaining CFM56 engine family. The LEAP-1A is an engine as an option on the A320neo family; and the LEAP-1C engine is the sole Western powerplant for the COMAC C919; and the LEAP-1B is the sole powerplant for Boeing’s new 737 MAX. For more information, visit us at www.cfmaeroengines.com or follow us on Twitter @CFM engines.

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