

# 15C.64A3 Activity: Mature Quiet Aircraft Technology

## Description

Mature quieter aircraft technologies via the Continuous Lower Energy Emissions and Noise (CLEEN) Program.

Special Designations: OSI

## Commentary (March 2015)

"Boeing continues work on a second design cycle of their ceramic matrix composite acoustic engine exhaust nozzle. This design is taking lessons learned from the previous design and successful testing to see what additional benefits can be derived. Detailed design review is planned for Q3 2015 and final reporting is expected Q4 2015.

Pratt & Whitney is close to completing installation of hardware for the scaled model wind tunnel test of their CLEEN demonstrator engine. This test is planned to begin running in early April 2015 and will include noise measurements with the advanced high bypass ratio geared turbofan model. The engine test of CLEEN technologies is scheduled for early 2016. Hardware fabrication for that test is in progress and on track."

## Commentary (February 2015)

"Boeing continues work on a second design cycle of their ceramic matrix composite acoustic engine exhaust nozzle. This design is taking lessons learned from the previous design and successful testing to see what additional benefits can be derived. Detailed design review is planned for late March 2015. Final reporting is expected Q2 2015.

Pratt & Whitney is beginning installation of hardware for the scaled model wind tunnel test of their CLEEN demonstrator engine. This test is planned to begin running in late March 2015 and will include noise measurements with the advanced high bypass ratio geared turbofan model. The engine test of CLEEN technologies is scheduled for early 2016. Hardware fabrication for that test is in progress and on track."

## Status Table (Qualitative Metric)

Period	Actual
10/2014	Green
11/2014	Green
12/2014	Green
01/2015	Green
02/2015	Green
03/2015	Green

✓ Indicates that the item is complete.