



Powerplant Oil Burner Fire Penetration Testing

Experience

In recent years, CTA's fire laboratory has participated in different fire test campaigns for major aircraft and helicopter models:

- AIRBUS A380 (S19.1 Exhaust muffler)
- AIRBUS A400M (TP400 FBS fire test)
- AIRBUS A350XWB (S19.1 Loaded firewall panel and APU Fuel line certification fire tests)
- EMBRAER KC390 (Flap development fire tests)
- BOMBARDIER C Series (CWB and tail cone development & certification fire tests)

Know-How

CTA has developed its own facilities and test rigs in order to simulate the real functional conditions to which aeronautical components can be exposed in designated fire zones.

CTA can perform a wide range of complex fire resistance tests in combination with:

- Load application.
- Vibration conditions.
- Fluids (pressure, temperature...)

Fire testing according to AC 20.135, ISO 2685 and/or customer requirements.

Capacities

20m testing area with extraction system

Park model DPL 3400 oil burners

NEXT GEN sonic oil burner

Special test rig for fire resistance tests in combination with load application

Vibration test bench for fire resistance + vibration conditions testing

Instrumentation: temperature sensors, IR camera, load cells, pressure transducers, accelerometers, strain gages...