

Talks Tech 10 – Fire Protection

Q1: How many fire extinguishing bottles are there for the engines and APU combined?

A: 3

Q2: How many smoke detectors do we have in the FWD and AFT cargo compartments?

A: FWD:4 AFT:6

Q3: What are the limit speeds for gear extension?

A: 270kts/ 0.82M

Q4: What is the power source for our extinguishers?

A: Hot Battery Bus

Q5: What powers the smoke detection in the cargo compartments?

A: DC bus 1 and DC bus 2

Q6: What is tested when you push the cargo fire TEST switch

A: FWD and AFT cargo fire loops and a continuity check of the bottle squib circuit

Q7: What does holding the TEST switch to the FAULT/INOP position check?

A: Tests the APU and engines fault detection circuits

Q8: Define final reserve fuel for jets?

A: Fuel to fly for 30 mins at 1500ft above aerodrome elevation in standard conditions

Q9: Where will a swept wing stall first and why is this a disadvantage?

A: Wing Tips and it causes a nose up pitch moment

Q10: What is the required climb gradient in the second segment for two engine aircraft?

A: 2.4%