

## Mission Specification

Purpose: Competitive alternative to the Boeing 747-8 or Airbus A380 high capacity, long range commercial jet transport

Payload: 495 passengers at 175 lb. each, plus baggage at 30 lb. each in 3-class seating

Crew: 4 flight crew at 175 lb. each plus baggage at 30 lb. each  
10 cabin attendants at 130 lb. each plus baggage at 30 lb. each

Range with design payload: 8200 n.mi.

Reserve Fuel: FAR 121 International Reserves with 100 n. mi. alternate

Cruise altitude: 37,000 ft.

Long range cruise speed: Mach number 0.85

Climb direct to 35,000 ft. at maximum takeoff gross weight

Takeoff Field Length: 10,500 ft at Sea Level, standard day conditions, at maximum takeoff weight

Landing Field Length: 7,500 ft. at Sea Level, standard day conditions, at maximum landing weight

Powerplants: 4 BPR 8.0 turbofans

Pressurization: 5,000 ft. cabin altitude at 37,000 ft. cruise altitude

Certification basis: FAR 25 and 121

Mission profile: FAR 121 International Operations (see document "Mission Profiles")