
THE 808Z

An Ultra-Large Body Long Haul Dual-Use Oscillating Propeller Aircraft

Jason L. Lind, USAF (Sep.)

Coalition Lead / MultiPlex.studio

+1 414.788.2820 / lind@multiplex.studio

14 September 2020

The future of Air Logistics and Passenger is not in rapid delivery of people or goods, but rather safe and energy efficient. A difference of several hours in many logistical scenarios is not mission critical – managing the nation’s strategic stock pile of jet fuel however is a priority that will only accelerate in importance.

From an industry perspective the current demand curve for air travel has reduced sales significantly as, with COVID-19, seat density has become even more of a turn-off to consumers. Long haul flights that offer not just expanded leg room, but rather work and play spaces that maintain social distancing is the future. I would anticipate significant demand signals for aircraft that are 5x the size of a 787 and fly 15x slower at a similar prize point to a Business Class fare on a traditional long haul flight.

Logistically this aircraft could be a dream, providing a massive hub to hub supply chain that is currently a mission fulfilled by C-130’s – and is in fact the primary revenue driver for this craft. The 808Z could be owned privately with space on the craft leased by .mil and .gov.

As an ultra-large body aircraft the 808Z would be capable of moving vast numbers of people, at extreme comfort/social distancing, as well as large amounts of cargo between hub airports – new run ways would need to be constructed to support this plane - in the US: LAX, NYC, CHI, DFW, MIA, HNL. Powered by electricity with extensive solar panels, electric engines power propellers – however they oscillate not spin for increased performance: power and efficiency.

This technology has been proven in wind turbine arrays for generating power – leveraging artificial intelligence/deep learning to increase efficiency in power generation via control of the turbines gearbox. What I propose is flipping this equation and developing an electric engine whose gears can be controlled to oscillate and produce more efficient thrust.

Bottom line is the 808Z is an exciting proposition for the future of air travel and aerial logistics.

