

Single Channel Ground and Airborne Radio System New Zealand International Heads of State

The Boeing Company

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by

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Description

This license is required to perform Single Channel Ground and Airborne Radio System (SINCGARS) equipment checks for the New Zealand International Heads of State aircraft. The Boeing Company has a Foreign Military Sales case number NZ-P-LAP. Operations will be in the Wichita Kansas area. Boeing is required to perform operational checks on equipment.

Why an Experimental License is Necessary

An informal inquiry was made to the Air Force for assistance. The Air Force stated they were unable to assist as The Boeing Company did not have a contract directly with the Air Force. Edward Pitts from the Air Force Frequency Management Agency (AFFMA) stated that we should submit a request to the FCC to support this requirement.

Purpose of Operation

Perform Single Channel Ground and Airborne Radio System (SINCGARS) equipment checks for the New Zealand International Heads of State aircraft prior to delivering the aircraft.

Test Description

This operation will involve the use of the Rockwell Collins AN/ARC-210 radio to perform operational checks in the Single Channel Ground and Airborne Radio System (SINCGARS) mode for both single channel and frequency hopping operations. Six frequencies are requested for use. The single channel operation will be conducted with these six frequencies and a frequency hop set will be created from the same six frequencies for the frequency hopping mode. The operations will include altitudes from ground to 38,000 feet with a radius of 200 miles. The AN/ARC-210 radio operating parameters are listed in Table 1. The timeframe will begin in March 01, 2008, and continue through May, 2010. Flights will be conducted periodically as required to support objectives.

AN/ARC-210 Parameters	
Frequency Band	30 MHz to 87.9875 MHz
Emission	37K3F1E
Antenna Type	Blade
Antenna Gain	2 dB
Antenna Horizontal Beam Width	360 degrees
Antenna Polarization	Non Directional
EIRP	45.6 dBm or 36.3 Watts
Transmitter Mean Power	23 W

Table 1

Frequencies, Power and Emission

Frequency	Emission	RF Power	Station Class
30 to 87.9875 MHz	37K3F1E	23 Watts	MO

Schedule for Development Work

March 1, 2008 to May, 2010
Intermittently

Location

Wichita Kansas
373721N 0971558W
Surface to 38,000 Feet

Stop Buzzer Contact Information

The "Stop Buzzer" point of contact is:

Keith Banks, (316) 209--6242