

Exhibit 2. Section 2.1033(c) Technical Report

- (1) Name and Address (2.1033 (c) (1))
The name and address of the manufacturer of the RTA-8XX Receiver/Transmitter/Antenna and applicant for certification is Rockwell Collins, Inc., 1300 Wilson Boulevard, Arlington, Virginia 22209.
- (2) FCC Identifier (2.1033 (c) (2))
The FCC Identifier for the RTA-8XX Receiver/Transmitter/Antenna is AJL6228439.
- (3) Installation and Operation Manuals (2.1033 (c) (2))
Rockwell Collins does not supply operating instructions with the RTA-8XX Receiver/Transmitter/Antenna which is designed to meet the requirements of DO-160B and DO-178A and is operated by trained pilots as part of the TWR-850 and WXR-840 Weather Radar System. Rockwell Collins does produce the TWR-850 and WXR-840 Weather Radar System Installation Manual, a comprehensive installation manual, which, pursuant to an agreement with the FCC staff, is available upon request but is not included in this electronic exhibit.
- (4) Type Or Types Of Emission

Table 4. Type of Emission

Range	Emission Type
5 Nautical Mile Range/Map Mode	1M18P0
50 Nautical Mile Range	104KP0
300 Nautical Mile Range	69K0P0

- (5) Frequency Range
The RTA-8XX frequency range is 9343 ± 5 MHz. The radar band is 9.3 to 9.5 GHz.
- (6) Range of Operating Power Values
Output power is fixed and can be changed on the bench only. The expected range of output power is from 20 to 40 Watts peak. See Exhibit 7, Required Measurements, for measured value.
- (7) Maximum Power Rating As Defined In Part 87
No maximum power output is specified for radar in 9.3 to 9.5 GHz frequency band. Nominal power output is 30 Watts peak and 200 mW average delivered to the antenna.
- (8) Final Amplifier DC Voltages and Currents (2.1033 (c) (8))
The RTA-8XX final power amplifier dc voltage and dc current are as follows:

Table 5. Final Amplifier DC Voltage and Current.

Pulse Voltage	10.0 V peak
Pulse Current	16 A max

- (9) Tune Up Procedures (2.1033 (c) (9))
See Exhibit 3 for a copy of the factory test procedures for the RTA-8XX.
- (10) Schematics and Circuit Descriptions (2.1033 (c) (10))
See Exhibit 4 for schematics and descriptions of circuitry and devices for determining and stabilizing frequency, for suppression of radiation, for limiting modulation and for limiting power.
- (11) Drawing of Equipment Name Plate Bearing the FCC Identifier. (2.1033 (c) (11))
See Exhibit 5.
- (12) Equipment Photographs (2.1033 (c) (12))
See Exhibit 6.
- (13) Description of Digital Modulation (2.1033 (c) (13))
The RTA-8XX does not use digital modulation.
- (14) Required Measurements (2.1033 (c) (14))
See Exhibit 7.