

FCC CERTIFICATION REPORT

FOR VDL-2000

VHF COMMUNICATIONS TRANSCEIVER

CPN 815-2940-001

ORIGINAL ON FILE IN

MELBOURNE DESIGN CENTER VAULT

OCTOBER, 2001

Rockwell Collins, Inc.

Cedar Rapids, Iowa 52904

----- Proprietary -----

This information Shall Only Be Disseminated Outside the Company When a Proprietary Information Exchange is Signed and Specifies This Information to be Exchanged.

PREPARED BY _____

Joseph M. Blaha

VDL-2000 PROJECT ENGINEER

Joseph M. Blaha

Project Engineer, VDL-2000

Melbourne Design Center

Rockwell Collins, Inc.

APPROVED BY _____

F.J. STUDENBERG

VHF COMM / NAV GROUP MANAGER

Signatures on Original Page On File in Melbourne Design Center Vault

1. SCOPE.....4

2. EQUIPMENT DESCRIPTION.....4

3. CERTIFICATION BASED ON SIMILARITY.....4

4. ATTACHMENTS4

5. NAME OF APPLICANT5

1. SCOPE

This report and its exhibits provide the information required by parts 2 and 87 of the FCC Rules and Regulations for Certification of the transmitter portion of the VDL-2000 VHF Communications Transceiver. The Collins part number for the VDL-2000 is 822-1603-001.

The units tested were engineering units representative of production configurations of the VDL-2000, Collins part number 822-1603-001. Unless otherwise noted, all tests were conducted at the Rockwell Collins Melbourne Design Center in Melbourne, FL.

2. EQUIPMENT DESCRIPTION

The VDL-2000 VHF Transceiver is a solid state, 2280 channel AM transceiver designed to provide air-to-air or air-to-ground AM voice or analog data communications in the 118.000 to 137.000 MHz Aeronautical communications band. It operates in communications systems having 25 kHz or 8.33 kHz channel spacing.

In addition to AM operation voice or analog data operation, the VDL-2000 will provide air-to-ground packet digital data communications (VDL Mode 2) in the 118.000 to 136.975 MHz band in communications systems having 25 kHz channel spacing.

The unit operates on 27.5 VDC.

3. CERTIFICATION BASED ON SIMILARITY

None

4. ATTACHMENTS

This document contains the following attachments:

ID Label/ Location Information – Exhibit A

Attestation Statement – Exhibit B

External Photos – Exhibit C

Block Diagrams – Exhibit D

Schematics – Exhibit E

Test Report – Exhibit F

Test Setup Photos – Exhibit G

User's Manuals – Exhibit H

Internal Photos – Exhibit I

Parts List/Tune-Up Information – Exhibit J

RF Exposure Information – Exhibit K

Operational Description – Exhibit L

Cover Letters – Exhibit M

Production Test Requirement – Exhibit N

5. NAME OF APPLICANT

Rockwell Collins, Inc

400 Collins Road NW

Cedar Rapids, Iowa 52904

Applicant is manufacturer of the equipment