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FEDERAL COMMUNICATIONS COMMISSION

7435 Oakland Mills Road
Columbia, MD 21046
U.S.A.

Subject: Radio tune up procedures and duty cycle information

Applicant: Microwave Data Systems Inc.
Product: MDS ROR 220 Data Transceiver
Model: MDS-ROR220
FCC ID: E5MDS-ROR220

We, **Microwave Data Systems Inc.**, would like to submit the below information pertaining to the Radio tune up and duty cycle with our grant application.

Tune up Procedure:

This radio is controlled by a A to D converter and microporcessor. All the calibration is done in the factory and the only user adjustable part is the Receiver front end Helical filter. There are no transmitter adjustable parts to the end user, if a tune up is required the unit must be returned to the factory to be recalibrated on an automatic software controlled test bench.

Duty Cycle:

Duty cycle was derived from the fact that there are 45 possible transmitter time slots per second. For standard operation only 1 of the 45 time slots will be used by a remote (OCU) that corresponds to a duty cycle of 2.2%. Theoretical worst case "special diagnostic operation" would be 15 of the 45 time slots which is 33%

If you have any queries, please do not hesitate to contact me at 585 242-8440:

Yours truly,

Signed:  Name: Dennis McCarthy

Dennis McCarthy

Agency Compliance Engineer

Microwave Data Systems

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