

5-2735-EX-96



December 10, 1996

FEDERAL COMMUNICATIONS COMMISSION
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

Dear Sir or Madam,

*Granted 5599-EX-ML-97
instead. Dtg 3/18/97*

The purpose of this letter is to request a Special Temporary Authority (STA) for to be used by Harris Corporation for radio testing. As specified by the instructions for requesting an STA, the following pertinent data is hereby provided:

1. Name and address

Harris Corporation, Transcomm Division
P.O. Box 5100
Melbourne, FL 32902-5100

2. Need for special action

Harris Corporation currently has an existing FCC license, file number 5410-EX-PL-96, call sign WA2XDK, for testing an experimental radio at 4 watts. This license is due to expire March 11, 1997. Harris has filed form 442 for a modification to this license to extend the license for two years and allow higher radiated power and additional emissions. Testing at the currently-granted 4 watts is nearly complete. Special authorization to allow Harris to begin testing at higher power levels beginning January 1997 is requested.

3. Type of operation to be conducted

The VDL Test Program will demonstrate, on a real world ground-to-air link, the performance of the planned future VDL waveform. Three 25 KHz VHF channels within the 118-137 MHz frequency band have been approved and selected by the Federal Aviation Administration (FAA). Two of these channels (136.400 MHz and 136.425 MHz) will be adjacent and the third (136.00 MHz) will be in another part of the band. The two adjacent channels will allow realistic testing of the industry-proposed VDL waveform as well as testing the impact of adjacent and co-channel interference between a VDL channel and a standard (as currently utilized by civil aviation) DSB-AM channel. The third channel will be used as a control channel for the test program.

4. Purpose of operation

See #3 above.

5. Time and date of proposed operation

Testing is scheduled to begin January 1, 1997, and continue for a period of approximately two years. This STA is to request authorization for the period from January 1, 1997 to July 1, 1997. Authorization to extend this time period for two years has been requested by Harris Corporation under a separate form 442.

6. Class of station, call sign of station

Call sign of station is WA2XDK.



7. Nature of service

See #3 above.

8. Location of proposed operation

Fixed station - N28° 01' 59", W80° 35' 43"
Mobile station - within 370 km of base

9. Equipment to be used

Manufacturer	Model Number	No. of Units
Digital Radio Technology	VDR-2120	3
ITT	3201-S	1
Cushcraft	ARX-2B	1
Antenna Specialists	AVP-4	2

10. Frequencies to be used

Frequency	Effective Radiated Power	Emission
136.000 MHz	20 watts	25K0A3EJN
136.400 MHz	20 watts	25K0A3EJN
136.400 MHz	20 watts	8K33G1DEF
136.425 MHz	20 watts	25K0A3EJN
136.425 MHz	20 watts	8K33G1DEF

11. Effective radiated power

See #10 above.

12. Emission type

See #10 above.

13. Overall height above ground of antenna structure

Tower structure is 25.4 meters above ground level.

Any questions regarding this request may be directed to the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Ron Mouring".

Ron Mouring, Systems Engineer
Harris Corporation, Transcomm Division
P.O Box 5100, Mail Stop 3A/3871
Melbourne, FL 32902-5100

phone: (407) 727-4610
e-mail: rmouring@harris.com

FAX

Transcomm - A Division of Harris Corporation
PO Box 5100
Melbourne, FL 32902-5100

Date 12/10/96To Doug YoungFax 202-418-1918Phone 202-418-2440Pages to Follow 3From Ron MouringFax 407-727-6888Phone 407-727-4610**Message - Please Deliver Immediately**Doug,

Attached is a preliminary copy of
the STA Harris is filing, as we discussed
on the phone this morning. If there are any
questions, please give me a call.

ThanksRon Mouring