

July 10, 1998

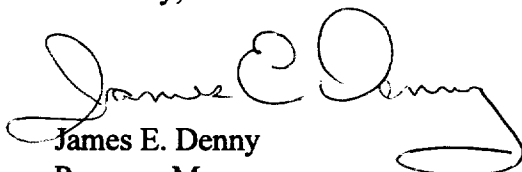
Federal Communications Commission  
Experimental Licensing Branch  
Suite 230  
2000 M Street  
MS1300E1  
Washington, D.C. 20554

Re: Experimental License to Harris Corporation  
Call Sign: WA2XHK  
File Number: 5515-EX-PL-96

Dear Sir:

Attached is a progress report for the period covering January 1, 1998 to June 30, 1998, as required by the above referenced Experimental License. As stated in the initial progress report Harris contends that the provisions of 47 CFR 0.457 (Records Not Routinely Available For Public Inspection), subsection (D) applies to this submittal and respectfully requests that the Federal Communications Commission withhold this information from public inspection or disclosure.

Sincerely,

  
James E. Denny  
Program Manager

Confidential/Proprietary/Trade Secret

PROGRESS REPORT

to the

Federal Communications Commission

on

Experimental License  
(5515-EX-PL-96)

Covering the Period from 1 January 98 to 30 June 98

James E. Denny

July 10, 1998

Harris Corporation  
Government Communication Systems Division  
P.O. Box 91000  
Melbourne, Florida 32902-9100

Confidential/Proprietary/Trade Secret

## SECTION 1.0 - INTRODUCTION

This report summarizes the development status and preliminary test results of the mobile transmitters and the receive site equipment associated with our wide area tracking and location prototype system development. For details of the system design/configuration please reference the previous progress report dated July 15, 1997. During this period the focus was on completing the receive site equipment assembly and lab testing, installation of the equipment into our 3 receive sites in the Melbourne area and initiation of System Integration and Testing.

## SECTION 2.0 - MOBILE TRANSMITTER STATUS

30 prototype mobile transmitter units have been built, 4 of which are being used for the FCC testing. Harris has hired an outside lab to perform several FCC tests including 15.249, 15.247, and Part 90. Testing is complete with respect to Part 90 and 15.249. The documentation is currently being completed and the packages will soon be submitted to the FCC for approval. With respect to 15.247, most of the testing is complete with the exception of a processing gain test soon to be conducted and some issues with out of band emissions which are being worked.

## SECTION 3.0 - RECEIVE SITE EQUIPMENT STATUS

During this period the Antenna and RF equipment was installed into our 3 receive sites in the Melbourne area and initiation of System Integration and Testing. The processing equipment Integration and Test is not yet complete and continues to be the critical path. This delay was initially caused by late delivery of our custom correlator ASICs. After delivery of these ASICs a severe temperature problem in these devices was uncovered causing a further delay. This has required that a work around be put in place to compensate for the temperature problem while new ASICs are being procured. The workaround is currently in place, processing testing is underway, and new correlator ASICs are on order (expected to be received late July 98).

## SECTION 4.0 - PLANNED EFFORT DURING NEXT REPORTING PERIOD

During the next reporting period (July 1, 1998 - December 31, 1998) the emphasis will be on installing the new correlator ASICs into the processing equipment, completing Lab testing of the processing equipment, installation of this equipment into the receive sites and completing System Integration and Testing.