

From: Jesse Ellisor

To: Jose Trevino

Date: July 27, 2009

Subject: FCC file number 0355-EX-ST-2009

Message:

Raytheon
Network Centric Systems
Attn: Jesse Ellisor
5959 Spring Bow Rd
San Antonio, TX 78247

July 27, 2009

Federal Communications Commission
Attn: Universal Licensing system
445 12th Street SW
Washington, DC 20554

SUBJECT: Agilent Network Analyzer - Application for Special Temporary
Authorization File Number 0355-EX-ST-2009 (replaces File Number
0312-EX-ST-2009)

SUBJECT: Agilent Network Analyzer - Application for Special Temporary Authorization, File Number
0355-EX-ST-2009 (replaces File Number 0312-EX-ST-2009)

Purpose of Operation. Raytheon NCS requests special temporary authorization to operate a radio frequency emitter at Towson, MD, and Largo, FL. As systems integrator for the DDG 1000 Zumwalt IFF system, Raytheon Towson and Raytheon Largo will use the authorization to meet the requirement of Department of the Navy Contract Number N00024-05-C-5346.

STA Explanation. Raytheon will be conducting evaluation and Factory Acceptance Testing (FAT) for deliverable IFF electronic Scan Antennas, ensuring through the FAT process that new antennas are capable of performing to specifications outlined in the contract. Evaluation and FAT testing will include antenna pattern and antenna gain measurements.

FAA Coordination. There are seven specific frequencies required for the tests: 600 MHz, 800 MHz, 1030 MHz, 1090 MHz, 1200 MHz, 1400 MHz and 1600 MHz. Since three of these frequencies fall within the aeronautical radionavigation services band, FAA coordination was accomplished under the following technical parameters:

Frequencies:	1030 MHz/1090 MHz/1200 MHz
Power: (PEP)	1 Watt
Emission:	NON
Antenna:	Fixed Beam Linear Array
Antenna Gain:	-1 dBi net gain (+17 dBi gain-18 dB attenuation)
Terrain Elevation:	Towson, MD - 150 Meters Largo, FL - 17 Meters
Antenna Height:	Towson, MD - 23 Meters Largo, FL - 14 Meters
Antenna Polarization:	Towson, MD - Vertical Largo, FL - Vertical
Antenna Azimuth:	Towson, MD - 223 Degrees relative to True North

Pulse Repetition Rate: Largo, FL - 200 Degrees relative to True North
N/A (CW)
Pulse Width: N/A (CW)
Equipment Nomen: Agilent Network Analyzer, Model E8363
Blanking Capable: No
Location: Towson, MD - 392345N0763433W
Largo, FL - 275219N0824359W
Operating Radius: Fixed
Description of Operation: Perform antenna pattern tests and conduct antenna gain measurements in support of evaluation and Factory Acceptance Testing of IFF Electronic Scan Antennas.

In response to coordination requests for Towson and Largo, FAA issued the following NGT numbers:

Towson - M1030/NG T090415 M1090/NG T090416 M1200/NG T090414
Largo - M1030/NG T090417 M1090/NG T090418 M1200/NG T090419

ERP. The ERP for the Towson operation is -11dBW/100 milliWatts; and the ERP for Largo is -5dBW/300 milliWatts.

Your favorable and expeditious response to this STA request would be greatly appreciated.

Jesse Ellisor
Raytheon NCS
714-204-5585

and

