



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

**OCT 17 2014**

800 Independence Ave., S.W.  
Washington, DC 20591

Mr. Andy Leimer  
Federal Communications Commission  
7435 Oakland Mills Road  
Columbia, MD 21046

Dear Mr. Leimer:

The Federal Aviation Administration, Spectrum Engineering Services received the Aviation Communication & Surveillance Systems (ACSS) letter dated October 09, 2014 regarding application for Federal Communications Commission (FCC) certification of a Multi Link Transceiver part 9022500-1000 (Models NGT-2000 and NGT-2500), FCC ID: 2ACTZMSS25. The ACSS equipment has a 40 watts rated power UAT transmission and .00032 watts Mode A interrogation, with frequency range of 1030 MHz plus/ minus 1 MHz.

The Spectrum Planning and International Group has reviewed the data presented by ACSS and has found no objection to the FCC granting certification to this equipment.

If you require any additional information, please contact Ms. Annette Allender, Electronics Engineer, Spectrum Planning and International Group, at (202) 267-3893 or via e-mail [annette.allender@faa.gov](mailto:annette.allender@faa.gov).

Sincerely,

Robert A. Frazier  
Manager, Spectrum Planning  
and International Group

cc:  
[Phil.Heinicke@l-3com.com](mailto:Phil.Heinicke@l-3com.com)



Aviation Communication & Surveillance Systems  
19810 North 7<sup>th</sup> Ave  
Phoenix, AZ 85027-4400  
(623) 445-7000 Fax: (623) 445-7001

09 October 2014

Ms. Annette Allender  
Federal Aviation Administration  
Spectrum Engineering Services, AJW-1C  
800 Independence Avenue, S.W.  
Room 507  
Washington, D.C. 20591

202.267.3893

Subject: Notification of FCC Equipment Certification Application for ACSS Multi Link Transceiver part number 9022500-10000 (Models NGT-2000 and NGT-2500).

FCC ID #: 2ACTZMSS25

ACSS FRN: 0004999231

Dear Ms. Allender,

In accordance with FCC Rules and Regulations, CFR Title 47, Part 87, Subpart D, Paragraph 87.147(d), Paragraph 87.147(d)(1), and Paragraph 87.147(d)(3), notification is hereby given from ACSS to file for FCC Equipment Certification for the ACSS Multi Link Transceiver part number 9022500-10000 (Models NGT-2000 and NGT-2500).

The ACSS Multi Link Transponders will be applying for FAA TSO Authorization for the following TSOs:

- TSO-C154c - Universal Access Transceiver (UAT) Automatic Dependent Surveillance-Broadcast (ADS-B) Equipment Operating on Frequency of 978 MHz
- TSO-C145c - Airborne Navigation Sensors Using The Global Positioning System Augmented By The Satellite Based Augmentation System
- TSO-C157a - Aircraft Flight Information Services-Broadcast (FIS-B) Data Link Systems and Equipment
- TSO-C195a - Avionics Supporting Automatic Dependent Surveillance-Broadcast (ADS-B) Aircraft Surveillance Applications (ASA)

The equipment is a Multi Link Transceiver with a rated power of 40 watts for the UAT transmission and .00032 watts for the Mode A interrogation. The UAT transmission emission type is 1M30F1D and has a frequency range of 978 MHz  $\pm$  19.56 kHz. The Mode A interrogation emission type is 18M0P1D and has a frequency range of 1030 MHz  $\pm$  0.1 MHz. Additional detailed characteristic information is included in the documentation on the enclosed CD that supports this Notification. The enclosed CD is labeled 'ACSS MSS25 Multilink Surveillance System FCC Documentation', and its contents are as listed in ATTACHMENT A.

Subject: Notification of FCC Equipment Certification Application for ACSS Multi Link Transceiver part number 9022500-10000  
(Models NGT-2000 and NGT-2500)

If you have any questions or concerns or feel additional documentation is necessary, please contact me by one of the methods below.

Sincerely,

A handwritten signature in blue ink, appearing to read "Philip D. Heinicke", is written over a horizontal line.

Philip D. Heinicke  
Technical Staff Engineer  
FAA DER

e-mail: [phil.heinicke@L-3com.com](mailto:phil.heinicke@L-3com.com)

phone: 623 445-6665

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Subject: Notification of FCC Equipment Certification Application for ACSS Multi Link Transceiver part number 9022500-10000 (Models NGT-2000 and NGT-2500)

## **ATTACHMENT A**

### **Included Support Documentation**

1. NGT-2500 FCC Compliance Plan and Results, ACSS Document 8021005-001, Rev -.
2. NGT-2000/2500 End Item Assembly Drawing, ACSS Drawing No. 9022500-10000, Rev C.
3. Parts List, MLT Assembly, NGT-2000/2500, ACSS Drawing No. PL9022500-10000, Rev C
4. Circuit Card Assembly GPS UAT – NGT-2000/2500, ACSS Drawing No. 9022010-002, Rev B.
5. Circuit Card Assembly Power Supply – NGT-1000/2000/2500, ACSS Drawing No. 9021030-001, Rev E.
6. Circuit Card Assembly Power Amplifier - NGT-1000/2000/2500, ACSS Drawing No. 9021020-001, Rev F.
7. Installation Manual, LYNX Multilink Surveillance System, NGT-2000/2500 Part Number 9022500-10000, Document Number 0040-17011-01, Revision A.
8. NGT-2000/2500 End Item Label Drawing, ACSS Drawing No. 9022502-001 Rev C.