

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WD9XUB

(Call Sign)

XD FX MO

(Class of Station)

0293-EX-ST-2009

(File Number)

NAME L3 COMMUNICATION, Geneva Aerospace, Inc.

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

To demonstrate wireless technologies for ground to air communications.

Station Locations

- (1) Denison (GRAYSON), TX - NL 33-42-41; WL 96-40-04; MOBILE: Aircraft will operate within a 50 mile radius of the airport; at a maximum altitude of 20,000 feet., within 80.5 km
- (2) FT. Rucker (DALE), AL - NL 31-16-33; WL 85-42-48; MOBILE: Aircraft will operate within a 50 mile radius of the airport; at a maximum altitude of 20,000 feet., within 80.5 km
- (3) Huntsville (LAWRENCE), AL - NL 34-40-43; WL 86-41-05; MOBILE: Aircraft will operate within a 50 mile radius of the airport; at a maximum altitude of 20,000 feet., within 80.5 km

Frequency Information

Denison (GRAYSON), TX - NL 33-42-41; WL 96-40-04; MOBILE: Aircraft will operate within a 50 mile radius of the airport; at

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.5-14.71 GHz	MO	8M00G1D 21M4G1D 42M8G1D 64M0G1D	3981 W (ERP)	

This authorization effective July 26, 2009 and
will expire 3:00 A.M. EST October 02, 2009

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Denison (GRAYSON), TX - NL 33-42-41; WL 96-40-04; MOBILE: Aircraft will operate within a 50 mile radius of the airport; at

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.5-14.71 GHz	MO	89M5G1D	3981 W (ERP)	
14.5-14.71 GHz	MO	8M00G1D 21M4G1D 42M8G1D 64M0G1D 89M5G1D	3981 W (ERP)	
14.5-14.71 GHz	FX	8M00G1D 21M4G1D 42M8G1D 64M0G1D 89M5G1D	3981 W (ERP)	
14.5-14.71 GHz	FX	8M00G1D 21M4G1D 42M8G1D 64M0G1D 89M5G1D	3981 W (ERP)	

FT. Rucker (DALE), AL - NL 31-16-33; WL 85-42-48; MOBILE: Aircraft will operate within a 50 mile radius of the airport; at a m

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1850 MHz	FX	18M5F9W	2 W (ERP)	

Frequency Information

FT. Rucker (DALE), AL - NL 31-16-33; WL 85-42-48; MOBILE: Aircraft will operate within a 50 mile radius of the airport; at a m

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1850 MHz	MO	18M5F9W	2 W (ERP)	
2290-2500 MHz	FX	18M5F9W	2 W (ERP)	
2290-2500 MHz	MO	18M5F9W	2 W (ERP)	
14.5-14.71 GHz	MO	64M0G1D 8M00G1D 21M4G1D 89M5G1D 42M8G1D	3981 W (ERP)	
14.5-14.71 GHz	FX	64M0G1D 8M00G1D 21M4G1D 42M8G1D 89M5G1D	3981 W (ERP)	

Huntsville (LAWRENCE), AL - NL 34-40-43; WL 86-41-05; MOBILE: Aircraft will operate within a 50 mile radius of the airport;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1850 MHz	FX	18M5F9W	2 W (ERP)	

Frequency Information

Huntsville (LAWRENCE), AL - NL 34-40-43; WL 86-41-05; MOBILE: Aircraft will operate within a 50 mile radius of the airport;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1755-1850 MHz	MO	18M5F9W	2 W (ERP)	
2200-2500 MHz	FX	18M5F9W	2 W (ERP)	
2200-2500 MHz	MO	18M5F9W	2 W (ERP)	
14.5-14.71 GHz	MO	8M00G1D 64M0G1D 21M4G1D 42M8G1D 89M5G1D	3981 W (ERP)	
14.5-14.71 GHz	FX	8M00G1D 64M0G1D 21M4G1D 42M8G1D 89M5G1D	3981 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (2) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (5) To protect Radio Astronomy per US 342, no operations overlapping 14.47-14.5 GHz.

Special Conditions:

- (6) Operation in the 2450-2500 MHz band requires prior frequency coordination with microwave users to avoid interference.
- (7) Location Ft. Rucker, AL, NTIA request the following frequency notching to protect government operations in the area:
 - 1. Notch 1775 MHz +/- 9 MHz