

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

EXPERIMENTAL

(Nature of Service)

WE9XPD

(Call Sign)

XT MO

(Class of Station)

0536-EX-ST-2010

(File Number)

NAME BAE Systems Information and Electronic Systems Integration 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:

This experiment will involve an in flight calibration and verification of radio direction finding system on an unmanned aircraft at and around the Southern California Logidtics Airport (SCLA).

Station Locations

- (1) MOBILE: Temporary Fixed, Ground location 1, Victorville, CA, within 1 km, centered around NL 34-39-40; WL 117-24-03
- (2) MOBILE: Airborne Operations, Location 1, Victorville, CA, within 2 km, centered around NL 34-39-40; WL 117-24-03
- (3) MOBILE: Temporary Fixed, Ground Location 2, Victorville, CA, within 1 km, centered around NL 34-39-09; WL 117-22-24
- (4) MOBILE: Airborne Operations, Location 2, Victorville, CA, within 1.5 km, centered around NL 34-39-09; WL 117-22-24

Frequency Information

MOBILE: Temporary Fixed, Ground location 1, Victorville, CA, within 1 km, centered around NL 34-39-40; WL 117-24-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-915 MHz	MO	NON	0.63 W (ERP)	

This authorization effective January 01, 2011 and
will expire 3:00 A.M. EST July 02, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed, Ground location 1, Victorville, CA, within 1 km, centered around NL 34-39-40; WL 117-24-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1785 MHz	MO	N0N	4 W (ERP)	
15.15-15.35 GHz	MO	8M10F1D	2 W (ERP)	
15.15-15.35 GHz	MO	21M4G1D	4 W (ERP)	

MOBILE: Airborne Operations, Location 1, Victorville, CA, within 2 km, centered around NL 34-39-40; WL 117-24-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-915 MHz	MO	200KG7W 200KGXW	100 mW (ERP)	
925-960 MHz	MO	200KG7W 200KGXW	30 W (ERP)	
1710-1785 MHz	MO	200KG7W 200KGXW	100 mW (ERP)	
1805-1880 MHz	MO	200KG7W 200KGXW	30 W (ERP)	
14.4-14.83 GHz	MO	21M4G1D	4.5 W (ERP)	

Frequency Information

MOBILE: Airborne Operations, Location 1, Victorville, CA, within 2 km, centered around NL 34-39-40; WL 117-24-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.4-14.83 GHz	MO	295MG1D	25 W (ERP)	

MOBILE: Temporary Fixed, Ground Location 2, Victorville, CA, within 1 km, centered around NL 34-39-09; WL 117-22-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-915 MHz	MO	N0N	0.63 W (ERP)	
1710-1785 MHz	MO	N0N	4 W (ERP)	
15.15-15.35 GHz	MO	8M10F1D	2 W (ERP)	
15.15-15.35 GHz	MO	21M4G1D	4 W (ERP)	

MOBILE: Airborne Operations, Location 2, Victorville, CA, within 1.5 km, centered around NL 34-39-09; WL 117-22-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-915 MHz	MO	200KG7W 200KGXW	100 mW (ERP)	
925-960 MHz	MO	200KG7W 200KGXW	30 W (ERP)	

Frequency Information

MOBILE: Airborne Operations, Location 2, Victorville, CA, within 1.5 km, centered around NL 34-39-09; WL 117-22-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1785 MHz	MO	200KG7W 200KGXW	100 mW (ERP)	
1805-1880 MHz	MO	200KG7W 200KGXW	30 W (ERP)	
14.4-14.83 GHz	MO	21M4G1D	4.5 W (ERP)	
14.4-14.83 GHz	MO	295MG1D	25 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) 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.
- (4) Operation is subject to prior coordination with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d)
- (5) Operation is NOT permitted within +/- 2.5 MHz of the following frequencies: 1760 MHz, 1779 MHz, 1815 MHz, 1830 MHz and 1847 MHz.
- (6) Operation is subject to prior coordination with Western Area Frequency Coordinator, Mr. J. Richardson, 760-939-6948/6832.
- (7) Operation is NOT permitted on the frequency band 14670-14700 MHz.
- (8) Licensee must get consent from the Advance Wireless Service existing and future licensees.

Special Conditions:

- (9) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Government contract number FA8650-10-C-7044. The use of this radio station in any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (10) The designated point-of-contact to terminate transmissions if interference occurs is Neil King (603) 566-3869, Mike Silence (949) 496-6468 and Dan Wells (760) 246-3952.