

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WD2XIE

(Call Sign)

0058-EX-RR-2008

(File Number)

NAME BAE SYSTEMS Information and Electronic Systems Integration Inc.,

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(b) of the Commission's Rules

Station Locations

- (1) MOBILE: Wayne, New Jersey, within 800 km, centered around NL 40-54-38; WL 74-14-30
- (2) MOBILE: Wayne, New Jersey, centered around NL 40-54-38; WL 74-14-30
- (3) MOBILE: Wayne, New Jersey, centered around NL 40-54-38; WL 74-14-30
- (4) MOBILE: Wayne, New Jersey, within 100 km, centered around NL 40-54-38; WL 74-14-30
- (5) MOBILE: Wayne, New Jersey, within 48 km, centered around NL 40-54-38; WL 74-14-30
- (6) MOBILE: Wayne, New Jersey, centered around NL 40-54-38; WL 74-14-30

Frequency Information

MOBILE: Wayne, New Jersey, within 800 km, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.2755 MHz	MO	5K00A2D	4 W (ERP)	0.001 %
4.8715 MHz	MO	5K00A2D	6 W (ERP)	0.001 %

This authorization effective June 01, 2008 and
will expire 3:00 A.M. EST June 01, 2010

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Wayne, New Jersey, within 800 km, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.8815 MHz	MO	5K00A2D	7.5 W (ERP)	0.001 %
11.574 MHz	MO	5K00A2D	17 W (ERP)	0.001 %

MOBILE: Wayne, New Jersey, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.525 GHz	FX	45M0F2D	10 kW (ERP)	0.001 %
14.615 GHz	FX	45M0F2D	10 kW (ERP)	0.001 %
14.705 GHz	FX	45M0F2D	10 kW (ERP)	0.001 %
14.795 GHz	FX	45M0F2D	10 kW (ERP)	0.001 %
15.245 GHz	FX	45M0F2D	10 kW (ERP)	0.001 %
15.335 GHz	FX	45M0F2D	10 kW (ERP)	0.001 %

Frequency Information

MOBILE: Wayne, New Jersey, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30.125 GHz	MO	2M00F2D	158 kW (ERP)	0.001 %
30.215 GHz	MO	2M00F2D	158 kW (ERP)	0.001 %
30.305 GHz	MO	2M00F2D	158 kW (ERP)	0.001 %
30.395 GHz	MO	2M00F2D	158 kW (ERP)	0.001 %
30.845 GHz	MO	2M00F2D	158 kW (ERP)	0.001 %
30.935 GHz	MO	2M00F2D	158 kW (ERP)	0.001 %

MOBILE: Wayne, New Jersey, within 100 km, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
34.45 MHz	MO	25K0F2D	10 W (ERP)	0.001 %
38.325 MHz	MO	25K0F2D	12.5 W (ERP)	0.001 %
40.65 MHz	MO	25K0F2D	14 W (ERP)	0.001 %

Frequency Information

MOBILE: Wayne, New Jersey, within 100 km, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
49.775 MHz	MO	25K0F2D	20 W (ERP)	0.001 %

MOBILE: Wayne, New Jersey, within 48 km, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.772 GHz	MO	20M0F2D	32 W (ERP)	
1.78 GHz	MO	20M0F2D	32 W (ERP)	
1.804 GHz	MO	20M0F2D	32 W (ERP)	
1.812 GHz	MO	20M0F2D	32 W (ERP)	

MOBILE: Wayne, New Jersey, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.525 GHz	FX	10M7F2D	40 W (ERP)	
14.615 GHz	FX	10M7F2D	40 W (ERP)	

Frequency Information

MOBILE: Wayne, New Jersey, centered around NL 40-54-38; WL 74-14-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.705 GHz	FX	10M7F2D	40 W (ERP)	
14.795 GHz	FX	10M7F2D	40 W (ERP)	
15.245 GHz	FX	10M7F2D	40 W (ERP)	
15.335 GHz	FX	10M7F2D	40 W (ERP)	

Special Conditions:

- (1) 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.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the US Army contract number DBAAB07-02-C-F404. The use of this radio station in any other manner or for 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 Exhibit 1.
- (4) Operations of 1772 MHz shall prevent interference to existing operations of 1780.5 MHz. Licensee shall coordinate with Joe Allocca at 732-532-5999 prior to use of this frequency.