

# Engineers for the Integrity of Broadcast Auxiliary Services Spectrum

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BY E-MAIL: [NEIL.D.KING@BAESYSTEMS.COM](mailto:NEIL.D.KING@BAESYSTEMS.COM)

August 5, 2011

Mr. Neil King  
Engineering Manager II- Systems  
BAE Systems Information and  
Electronics Systems Integration Inc.  
63 Spit Brook Road  
Nashua, NH 03060

Dear Mr. King:

We are writing you to express our appreciation of BAE Systems Information and Electronics Systems Integration Inc. (BAE) doing things “right” for its recently granted WF2XUI experimental license. That license authorizes operation between 925–960 MHz (and other frequencies); this would therefore include the Part 74, Subpart E, 944–952 MHz Aural Broadcast Auxiliary Services (BAS) band. This band is used for studio-to-transmitter links (STLs) by AM and FM radio stations, and so any interference to those frequencies could result in program interruptions, or even cause a radio station to go off the air.

Thus, your complying with Special Condition 4, to coordinate in advance with the local Society of Broadcast Engineers, Inc. (SBE) affiliated BAS frequency coordinator, is appreciated. Unfortunately, in the past many experimental licensees receiving a similar requirement have ignored that obligation, resulting in unnecessary difficulty identifying and tracking down the resulting interference.

Therefore, EIBASS gives a “well done” to BAE, and hopes that BAE’s conduct will become a model for other licensees receiving an experimental authorization that includes operation on broadcast or BAS frequencies. Since experimental operations are always on a secondary, non-interference

**EIBASS letter to Mr. Neil King, BAE, Regarding Experimental Station WF2XUI  
August 5, 2011, Page 2 of 2**

basis (NIB), EIBASS does not get too concerned about such operations so long as the local BAS coordinator has been contacted, and is accordingly aware of the possible interference. In the event of actual interference, this allows quickly contacting the experimental licensee and promptly conducting on-off tests to confirm the interference.

Respectfully,

**/s/ Dane E. Ericksen**

**/s/ Richard A. Rudman**

Dane E. Ericksen

Richard A. Rudman

- cc1: Mr. James Burtle, Chief, Experimental Licensing Branch, OET, FCC  
BY E-MAIL: JAMES.BURTLE@FCC.GOV
- cc2: *Ex parte* filing to the ET Docket 10-236 record
- cc3: Mr. Howard Fine, Southern California Frequency Coordination Committee (SCFCC)  
BY E-MAIL: HOWARD@PACTV.COM
- cc4: Mr. Joseph Snelson, Chairman, SBE Frequency Coordination Committee  
BY E-MAIL: JOE.SNELSON@MEREDITH.COM  
Mr. John Poray, SBE Executive Director BY E-MAIL: JPORAY@SBE.ORG  
Mr. Vinny Lopez, SBE President BY E-MAIL: VLOPEZ@SBE.ORG  
Christopher D. Imlay, Esq., SBE General Counsel BY E-MAIL: CIMLAY@SBE.ORG

Enclosure: Copy of August 4, 2011, BAE e-mail

**From:** Howard Fine <howard@pactv.com>  
**Subject:** Example of a OET licensee that did it correctly.  
**Date:** August 4, 2011 7:50:30 AM PDT  
**To:** Dane Ericksen <dericksen@h-e.com>, John Poray <jporay@sbe.org>  
▶ 1 Attachment, 22.1 KB

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**From:** "King, Neil D (US SSA)" <neil.d.king@baesystems.com>  
**Date:** Thu, 4 Aug 2011 10:31:58 -0400  
**To:** Howard Fine <howard@pactv.com>  
**Cc:** "Morrell, Sean (US SSA)" <sean.morrell@baesystems.com>, "Phillips, Franklin E (US SSA)" <franklin.e.phillips@baesystems.com>, "Rummel, Jeffrey" <Rummel.Jeffrey@ARENTFOX.COM>, "Seidel, Eric (US SSA)" <eric.seidel@baesystems.com>  
**Subject:** RE:

Mr. Howard Fine,

I am sending this email to inform you that the FCC has granted BAE Systems a 2 year license of operation in the Victorville, Ca. area (See attached 0223-EX-PL-2011). This single license consolidates the requests from STA 0536-EX-ST-2010, STA 0061-EX-ST-2011 and STA0118-EX-ST-2011, which you have previously reviewed and provided consent of operation with the caveat that we not operate on 944.1 MHz through 951.875 MHz. I want to assure you that per your request, BAE Systems will continue to avoid frequency operation on 944.1 MHz through 951.875 MHz under the license 0223-EX-PL-2011. Our current schedule shows that we plan to begin flight testing in September and should continue 2-3 weeks. Can you confirm through email that this will constitute completion of SBE coordination for this license?

Neil King  
**BAE SYSTEMS**  
Engineering Manager II - Systems  
Desk: 603 885-8097  
Cell: 603 566-3869

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**From:** Howard Fine [<mailto:howard@pactv.com>]  
**Sent:** Monday, July 18, 2011 8:22 AM  
**To:** King, Neil D (US SSA)  
**Cc:** Morrell, Sean (US SSA); Phillips, Franklin E (US SSA); Rummel, Jeffrey  
**Subject:** Re:

Yes this does constitute completion of the requirement for coordination.

Thank you for coordinating.

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**From:** "King, Neil D (US SSA)" <neil.d.king@baesystems.com>  
**Date:** Mon, 18 Jul 2011 06:13:39 -0400  
**To:** Howard Fine <howard@pactv.com>  
**Cc:** "Morrell, Sean (US SSA)" <sean.morrell@baesystems.com>, "Phillips, Franklin E (US SSA)" <franklin.e.phillips@baesystems.com>, "Rummel, Jeffrey" <Rummel.Jeffrey@ARENTFOX.COM>

Mr. Howard Fine

I am sending this email to update you on the test schedule associated with STA 0536-EX-ST-2010 and STA 0061-EX-ST-2011 (scans of these STA grants attached) . Our current schedule remains dynamic, however, we plan to begin flight testing in August and should continue 2-3 weeks. I also wanted to assure you that per your request, BAE Systems has agreed to avoid frequency operation on 944.1 MHz through 951.875 MHz under STA 0536-EX-ST-2010 and 0061-EX-ST-2011. Can you confirm through email that this will constitute completion of SBE coordination for both of these STA grants?

Regards,

Neil King

**BAE SYSTEMS**

Engineering Manager II - Systems

Desk: 603 885-8097

Cell: 603 566-3869



[AAAconsolid...pdf \(22.1 KB\)](#)

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

EXPERIMENTAL  
(Nature of Service)

WF2XUI  
(Call Sign)

XT MO  
(Class of Station)

0223-EX-PL-2011  
(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(i) of the Commission's Rules

Station Locations

- (1) MOBILE: Temporary Fixed Locations (Ground Location #1), Victorville, CA, within 1 km, centered around NL 34-39-40; WL 117-24-03
- (2) MOBILE: Airborne Operations, Victorville, CA, within 2 km, centered around NL 34-39-40; WL 117-24-03
- (3) MOBILE: Temporary Fixed Locations (Ground Location #2), Victorville, CA, within 1 km, centered around NL 34-39-09; WL 117-22-24
- (4) MOBILE: Airborne Operations, Victorville, CA, within 1.5 km, centered around NL 34-39-09; WL 117-22-24
- (5) MOBILE: Airborne Operations, Victorville, CA, within 30 km, centered around NL 34-35-51; WL 117-22-59

Frequency Information

MOBILE: Temporary Fixed Locations (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	N0N	0.63 W (ERP)	
880-915 MHz	MO	N0N	4 W (ERP)	

This authorization effective August 03, 2011 and will expire 3:00 A.M. EST August 01, 2013

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Temporary Fixed Locations (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, 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	100 mW (ERP)	
925-960 MHz	MO	200KG7W	30 W (ERP)	
1710-1785 MHz	MO	200KG7W	100 mW (ERP)	
1805-1880 MHz	MO	200KG7W	30 W (ERP)	
14.4-14.83 GHz	MO	21M4G1D	4.5 W (ERP)	
14.4-14.83 GHz	MO	295MG1D	25 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Locations (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	4 W (ERP)	
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, 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	100 mW (ERP)	
925-960 MHz	MO	200KG7W	30 W (ERP)	
1710-1785 MHz	MO	200KG7W	100 mW (ERP)	
1805-1880 MHz	MO	200KG7W	30 W (ERP)	

## Frequency Information

MOBILE: Airborne Operations, 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 (+/-)
14.4-14.83 GHz	MO	295MG1D	25 W (ERP)	
14.4-14.83 GHz	MO	21M4G1D	4.5 W (ERP)	

MOBILE: Airborne Operations, Victorville, CA, within 30 km, centered around NL 34-35-51; WL 117-22-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
880-915 MHz	MO	200KG7W	100 mW (ERP)	
925-960 MHz	MO	200KG7W	30 W (ERP)	
1710-1785 MHz	MO	200KG7W	100 mW (ERP)	
1824-1827.5 MHz	MO	200KG7W	30 W (ERP)	
1850-1880 MHz	MO	200KG7W	30 W (ERP)	
14.4-14.83 GHz	MO	2M14G1D	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) Licensee must get consent from the Advanced Wireless Service licensees prior to operation on 1710-1785 MHz.
- (4) Operation is subject to coordinate with local Society of Broadcast Engineers coordinator prior to operation on 925-960 MHz.
- (5) Operation is subject to coordinate with the existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) prior to operation on 925-960 MHz and 1850-1880 MHz.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USAF/AFMC FA8650-10-C-7044. 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 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.
- (7) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Rick Ball at (603) 318-6913.
- (8) Operation is subject to prior coordination with Western Area Frequency Coordinator at (760) 939-0384.