

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

EXPERIMENTAL

(Nature of Service)

WH2XGV

(Call Sign)

XT FX MO

(Class of Station)

0366-EX-PL-2014

(File Number)

NAME Booz Allen Hamilton Engineering Services, LLC

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) Linthicum (ANNE ARUNDEL), MD - NL 39-12-09; WL 76-41-16
- (2) MOBILE: Itinerant, Linthicum, MD, within 10 km, centered around NL 39-12-09; WL 76-41-16
- (3) MOBILE: Mobile, Linthicum, MD, within 10 km, centered around NL 39-12-09; WL 76-41-16
- (4) MOBILE: Itinerant, Linthicum, MD, within 10 km, centered around NL 39-12-09; WL 76-41-16

Frequency Information

Linthicum (ANNE ARUNDEL), MD - NL 39-12-09; WL 76-41-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	FX	10M0F9W 5M00F9W 3M00F9W	1 W (ERP)	

This authorization effective June 06, 2014 and
will expire 3:00 A.M. EST June 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Itinerant, Linthicum, MD, within 10 km, centered around NL 39-12-09; WL 76-41-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	MO	10M0F9W 5M00F9W 3M00F9W	160 W (ERP)	

MOBILE: Mobile, Linthicum, MD, within 10 km, centered around NL 39-12-09; WL 76-41-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
788-798 MHz	MO	10M0F9W 5M00F9W 3M00F9W	500 mW (ERP)	

MOBILE: Itinerant, Linthicum, MD, within 10 km, centered around NL 39-12-09; WL 76-41-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	MO	10M0F9W 5M00F9W 3M00F9W	600 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.

Special Conditions:

- (3) Indoor, low-power testing will evaluate commercial and experimental network hardware, as well as the compatibility, interoperability and public safety applications of various end-user devices. In the field, within a ten-kilometer radius of its linthicum facility, Booz Allen E.S. will test deployable L TE systems from multiple vendors as well as experimental hardware using satellite backhaul and point-to-point unlicensed links. The experiment will test both single and multiple sites, in rural, suburban, urban and maritime settings, at various bandwidths permitted under the L TE standard. Booz Allen proposes to test a maximum of ten eNodeB's and 20 end-user devices.
- (4) Booz Allen E.S. requests authority from the Federal Communications Commission ("Commission") to operate over the 758-768/788-798 MHz bands, which are currently licensed on a nationwide basis to FirstNet.
- (5) Operation will begin when the Commission grants the requested license and will continue for no longer than two years.
- (6) Booz Allen E.S. has analyzed information in the FCC's license databases and states that the proposed operation would not interfere or create a significant potential for harmful interference with any public safety operations in the 700 MHz band.
- (7) Operation of the experiment will not be used in mission-critical operations or in the delivery of live transmissions in duties to protect life, property, or safety.
- (8) Booz Allen E.S. has provided an overall project manager and in case of interference issues. "Stop-buzzer" contact for these experiments: Michael W Jacobs, Chief Engineer-Advanced Systems. Tel. 410-865-3806; Cell: 443-758-5788. E-mail tacobs_mrchael@bah.com
- (9) Booz Allen E.S. understands that an experimental license only permits shared use of the subject radio frequencies and that it may have to coordinate with other entities licensed for experimental purposes. Booz Allen E.S. further understands that a separate concurrence from FirstNet will be required for renewal of this license.
- (10) All experimental operations by Booz Allen E.S. will be secondary, meaning that they must not cause interference to narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet Narrowband or broadband operations authorized on a primary basis, including in the spectrum licensed to FirstNet, have no obligation to mitigate any interference that such primary operations may present to the Booz Allen experimental operations.
- (11) FirstNet has not yet deployed in the geographic area covered by this application. Booz Allen E.S. understands that if, during the term of this license, FirstNet or its assigns or lessees, plans to deploy in this area, Booz Allen E.S. may have to reduce the coverage or power levels of its experimental transmissions or cease them entirely.