

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WA2XFZ

(Call Sign)

0103-EX-RR-2016

(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) GREENLAWN (SUFFOLK), NY - NL 40-51-50; WL 73-22-31
- (2) GREENLAWN (SUFFOLK), NY - NL 40-51-48; WL 73-22-27

Frequency Information

GREENLAWN (SUFFOLK), NY - NL 40-51-50; WL 73-22-31

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1090 MHz  | FX            | 12M0P0N             | 1 W (ERP)        | 0.002 %                   |

GREENLAWN (SUFFOLK), NY - NL 40-51-48; WL 73-22-27

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 1030 MHz  | FX            | 12M0P0N             | 10 kW (ERP)      | 0.002 %                   |

This authorization effective May 01, 2016 and  
will expire 3:00 A.M. EST May 01, 2018

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**Special Conditions:**

- (1) Assignment on 1030 MHz or in one of the bands 1215-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Eastern Coordinator, New York, NY. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Eastern Coordinator, New York, NY, as necessary to ensure compatibility with existing uses.
- (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) The PRR used by all equipment operating under the authority of this license shall be an average of 375 interrogations per second. The pulse repetition interval (PRI) shall be between 2400 and 2930 microseconds.
- (5) All equipment operated under the authority of this license are limited to interrogation Modes 1, 2, 3A and 3C. No Mode 4 interrogations are authorized.
- (6) The antenna of all equipment operating on 1030 MHz under the authority of this license (antenna at 405148N/0732227W) shall be oriented towards the 1090 MHz transmitter (located at 405150N/0732231W) that is also authorized on this license.
- (7) The Mode 3A code for all equipment operating on 1090 MHz shall be 5117 and the Mode 3C response shall be 600 feet below ground level or greater than 60,000 feet above mean sea level.
- (8) The antenna of all equipment operating on 1090 MHz under the authority of this license (antenna at 405150N/0732231W) shall be oriented towards the 1030 MHz transmitter (at 405148N/0732227W) that is also authorized on this license.
- (9) All equipment used under the authority of this license will be in conformance with ICAO Aeronautical Telecommunications Annex 10.