

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

EXPERIMENTAL

(Nature of Service)

WA2XFZ

(Call Sign)

XC FX

(Class of Station)

0001-EX-AL-1999

(File Number)

NAME Marconi Aerospace Systems Inc., Advanced Systems Division

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. 5.202(b) of the Commission's Rules

Station Locations

- (1) GREENLAWN (SUFFOLK), NY - NL 40-51-54; WL 73-24-36
- (2) GREENLAWN (SUFFOLK), NY - NL 40-52-00; WL 73-22-10

Frequency Information

GREENLAWN (SUFFOLK), NY - NL 40-51-54; WL 73-24-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1090 MHz	FX	12M0M1D	1 W (ERP)	0.002 %

GREENLAWN (SUFFOLK), NY - NL 40-52-00; WL 73-22-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	12M0M1D	20000 W (ERP)	0.002 %

Special Conditions:

- (1) Assignment in frequency bands 960-1400, 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) The station identification requirements of Section 5.152 of the Commission's Rules are waived.
- (3) The PRR used by the AN/APX-113(V) shall be an average of 375 interrogations per second. The pulse (interrogation) repetition interval (PRI) for the AN/APX-113(V) will be between 2400 and 2930 microseconds.
- (4) The interrogation modes of the AN/APX-113(V) are limited to Modes 1, 2, 3A and 3C. No Mode 4 interrogations are authorized.

This authorization effective JUL 08, 1999 and
 will expire 3:00 A.M. EST APR 01, 2001

FEDERAL
COMMUNICATIONS
COMMISSION



Special Conditions:

- (5) The AN/APX-113(V) antenna (at 405200N/0732210W) shall be oriented towards the KT-76A (1090 MHz parrot) transmitter (at 405154N/0732436W) also authorized on this license.
- (6) The Mode 3A code for the KT-76A shall be 5117 and the Mode 3C response shall be 600 feet below ground level or above 60,000 feet AMSL.
- (7) The KT-76A antenna (at 405154N/0732436W) shall be oriented towards the AN/APX-113(V) transmitter (at 405200N/0732210W) also authorized on this license.
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USAF Contract F33657-90-C-2233. 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 the related application and enumerated above.
- (9) This license supersedes any previous license granted to Hazeltine Corporation for callsign WA2XFZ.