

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

EXPERIMENTAL

(Nature of Service)

WE2XZU

(Call Sign)

XC FX MO

(Class of Station)

0021-EX-TC-2011

(File Number)

NAME Sensis Corporation

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) East Syracuse (ONONDAGA), NY - NL 43-03-17; WL 76-03-36; MOBILE: East Syracuse (ONONDAGA), NY, within 10 km

Frequency Information

East Syracuse (ONONDAGA), NY - NL 43-03-17; WL 76-03-36; MOBILE: East Syracuse (ONONDAGA), NY, within 10 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
978 MHz	MO	2M16F1D	100 W (ERP)	
1030 MHz	MO	27M7V1D	500 W (ERP)	
1090 MHz	MO	13M5M1D	325 W (ERP)	

This authorization effective August 10, 2011 and
will expire 3:00 A.M. EST January 30, 2013

**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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Operation is subject to prior coordination with FAA Eastern Regional Office, JFK International Airport, New York 11430, Attn: Frequency Management Office, Phone 718-712-8343.
- (6) These frequencies are to be used to fulfill a contract for the FAA Capstone Program testing ground based transceivers (GBT) and ASDE-X. A series of multilateration surface surveillance experiments are to be performed in support of the FAA Runway Incursion Reduction Program. The power is the maximum authorized peak ERP, but shall be adjusted using whisper-shout techniques. The 26 sequences of the whisper-shout sequence are for testing only and will not be authorized in the system's final configuration. The power and interrogation rates shall be limited so that the aggregate effect of all systems that are part of this experiment do not exceed one-quarter of one percent of the most affected transponders occupancy. Additionally, the interrogation rate shall be limited such that the elicited FRUIT from the aircraft will be less than 10 FRUIT-per-second per aircraft. Any altitude setting will be either below sea level or above 90,000 feet.
- (7) The 1030 MHz pulse duration shall be 0.8 microseconds and the 1030 MHz pulse repetition rate shall be 1-52 pulses-per-second.
- (8) The 1090 MHz pulse duration shall be 0.45 microseconds.
- (9) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by FAA contract DTFA01-01-C-00011. 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.