

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

EXPERIMENTAL

(Nature of Service)

WJ2XIE

(Call Sign)

XT      FX MO

(Class of Station)

0155-EX-CN-2018

(File Number)

NAME Ericsson

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(J) of the Commission's Rules

Station Locations

- (1) Duluth (ST LOUIS), MN - NL 46-47-33; WL 92-05-26; MOBILE: within designated radius, within 1 km, centered around NL 46-47-33; WL 92-05-26

Frequency Information

Duluth (ST LOUIS), MN - NL 46-47-33; WL 92-05-26; MOBILE: within designated radius, within 1 km, centered around NL 46-

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 27.5-28.5 GHz | FX            | 800MW9W             | 630.957 W (ERP)  |                           |

Special Conditions:

- (1) Licensee shall coordinate with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).
- (2) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (3) Licensee must avoid pointing the main beam gain transmitting antenna within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 27.5-28.5 GHz band.
- (4) Licensee shall ensure that the transmitting fixed station antenna(s) tip down when possible and avoid pointing above the horizon to protect satellite stations.
- (5) No automatic renewal for operations in the 27.5-28.35 GHz band.

This authorization effective March 07, 2018 and  
will expire 3:00 A.M. EST April 01, 2019

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**Special Conditions:**

- (6) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (7) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.