

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WF2XPD

(Call Sign)

0033-EX-AL-2010

(File Number)

NAME Nokia Siemens Networks US 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(h, i) of the Commission's Rules

Station Locations

- (1) Nationwide; MOBILE: Nationwide
- (2) Ft. Worth, TX - NL 32-45-14; WL 97-20-10; MOBILE: Ft. Worth, TX, within 80 km, centered around NL 32-45-14; WL 97-20-10
- (3) Arlington Heights, IL - NL 42-05-42; WL 87-58-55; MOBILE: Arlington Heights, IL, within 80 km, centered around NL 42-05-42; WL 87-58-55

Frequency Information

Nationwide; MOBILE: Nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-851 MHz		XXX	500 W (ERP)	
851-894 MHz		XXX	500 W (ERP)	
896-902 MHz		XXX	500 W (ERP)	

This authorization effective December 21, 2010 and
will expire 3:00 A.M. EST September 01, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Nationwide; MOBILE: Nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz		XXX	200 W (ERP)	
929-932 MHz		XXX	3.5 kW (ERP)	
940-941 MHz		XXX	3.5 kW (ERP)	
1850-1910 MHz	MO	XXX	1.22 W (ERP)	
1850-1910 MHz	FX	XXX	1 kW (ERP)	
1910-1915 MHz	MO	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1.22 W (ERP)	
1910-1915 MHz	FX	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1 kW (ERP)	
1915-1920 MHz	MO	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1.22 W (ERP)	

Frequency Information

Nationwide; MOBILE: Nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1915-1920 MHz	FX	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1 kW (ERP)	
1920-1930 MHz	MO	30K0G1D 30K0G7D 30K0G7W 30K0D7D	3 W (ERP)	
1930-1990 MHz	MO	XXX	1.22 W (ERP)	
1930-1990 MHz	FX	XXX	1 kW (ERP)	
1990-2200 MHz		XXX	2 kW (ERP)	
2290-2500 MHz		XXX	2 kW (ERP)	
2500-2700 MHz		XXX	2 kW (ERP)	
5150-5250 MHz		XXX	10 W (ERP)	
5725-5825 MHz		XXX	10 W (ERP)	

Frequency Information

Nationwide; MOBILE: Nationwide

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27350-28350 MHz		XXX	2 kW (ERP)	
29100-29250 MHz		XXX	2 kW (ERP)	
31000-31300 MHz		XXX	2 kW (ERP)	

Ft. Worth, TX - NL 32-45-14; WL 97-20-10; MOBILE: Ft. Worth, TX, within 80 km, centered around NL 32-45-14; WL 97-20-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-851 MHz		XXX	500 W (ERP)	
851-894 MHz		XXX	500 W (ERP)	
896-902 MHz		XXX	500 W (ERP)	
902-928 MHz		XXX	200 W (ERP)	
929-932 MHz		XXX	3.5 kW (ERP)	
940-941 MHz		XXX	3.5 kW (ERP)	

Frequency Information

Ft. Worth, TX - NL 32-45-14; WL 97-20-10; MOBILE: Ft. Worth, TX, within 80 km, centered around NL 32-45-14; WL 97-20-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1910 MHz	MO	XXX	1.22 W (ERP)	
1850-1910 MHz	FX	XXX	1 kW (ERP)	
1910-1915 MHz	MO	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1.22 W (ERP)	
1910-1915 MHz	FX	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1 kW (ERP)	
1915-1920 MHz	MO	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1.22 W (ERP)	
1915-1920 MHz	FX	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1 kW (ERP)	
1920-1930 MHz	MO	30K0D7D 30K0G7W 30K0G7D	3 W (ERP)	

Frequency Information

Ft. Worth, TX - NL 32-45-14; WL 97-20-10; MOBILE: Ft. Worth, TX, within 80 km, centered around NL 32-45-14; WL 97-20-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1920-1930 MHz	MO	30K0G1D	3 W (ERP)	
1930-1990 MHz	MO	XXX	1.22 W (ERP)	
1930-1990 MHz	FX	XXX	1 kW (ERP)	
1990-2200 MHz		XXX	2 kW (ERP)	
2290-2500 MHz		XXX	2 kW (ERP)	
2500-2700 MHz		XXX	2 kW (ERP)	
5150-5250 MHz		XXX	10 W (ERP)	
5725-5825 MHz		XXX	10 W (ERP)	
27350-28350 MHz		XXX	2 kW (ERP)	
29100-29250 MHz		XXX	2 kW (ERP)	

Frequency Information

Ft. Worth, TX - NL 32-45-14; WL 97-20-10; MOBILE: Ft. Worth, TX, within 80 km, centered around NL 32-45-14; WL 97-20-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
31000-31300 MHz		XXX	2 kW (ERP)	

Arlington Heights, IL - NL 42-05-42; WL 87-58-55; MOBILE: Arlington Heights, IL, within 80 km, centered around NL 42-05-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
806-851 MHz		XXX	500 W (ERP)	
851-894 MHz		XXX	500 W (ERP)	
896-902 MHz		XXX	500 W (ERP)	
902-928 MHz		XXX	200 W (ERP)	
929-932 MHz		XXX	3.5 kW (ERP)	
940-941 MHz		XXX	3.5 kW (ERP)	
1850-1910 MHz	MO	XXX	1.22 W (ERP)	
1850-1910 MHz	FX	XXX	1 kW (ERP)	

Frequency Information

Arlington Heights, IL - NL 42-05-42; WL 87-58-55; MOBILE: Arlington Heights, IL, within 80 km, centered around NL 42-05-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1910-1915 MHz	MO	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1.22 W (ERP)	
1910-1915 MHz	FX	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1 kW (ERP)	
1915-1920 MHz	MO	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1.22 W (ERP)	
1915-1920 MHz	FX	5M00G2D 5M00G7D 5M00G7W 5M00D7D	1 kW (ERP)	
1920-1930 MHz	MO	30K0G1D 30K0G7D 30K0G7W 30K0D7D	3 W (ERP)	
1930-1990 MHz	MO	XXX	1.22 W (ERP)	

Frequency Information

Arlington Heights, IL - NL 42-05-42; WL 87-58-55; MOBILE: Arlington Heights, IL, within 80 km, centered around NL 42-05-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1930-1990 MHz	FX	XXX	1 kW (ERP)	
1990-2200 MHz		XXX	2 kW (ERP)	
2290-2500 MHz		XXX	2 kW (ERP)	
2500-2700 MHz		XXX	2 kW (ERP)	
5150-5250 MHz		XXX	10 W (ERP)	
5725-5825 MHz		XXX	10 W (ERP)	
27350-28350 MHz		XXX	2 kW (ERP)	
29100-29250 MHz		XXX	2 kW (ERP)	
31000-31300 MHz		XXX	2 kW (ERP)	

Special Conditions:

- (1) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."

Special Conditions:

- (2) Any operation in these bands must be coordinated with the existing and future users to avoid interference. Emission types may vary under the experiment.
- (3) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (4) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (5) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (6) Operation is subject to prior coordination with the Associated Public Safety Communications Officers, Inc. (APCO); ATTN: Director of Frequency Coordination; 351 North Williamson Blvd.; Daytona Beach, FL 32114-1112; Telephone: (386) 322-2500.
- (7) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (8) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (9) 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.
- (10) NO market studies may be conducted under this authorization without further approval.
- (11) Licensee is authorized to operate up to 10 base stations and 200 mobile units for each individual experiment. Licensee shall not operate more than 50 base stations and 750 mobiles for all experiments combined under this authorization. Operation of additional base stations and mobile units must be requested with sufficient justification.
- (12) Licensee is authorized under Section 5.75 to test, demonstrate and operate prototype products in the above frequency bands. Licensee is required to notify the Commission of the specific details of each individual experiment, including location, number of base and mobile units, power, emission designator, and any other pertinent technical information. No operation shall take place until the Commission has received the required notification. This notification should be uploaded electronically via the OET Experimental Licensing Branch's Electronic Filing Web Site at https://gulfoss2.fcc.gov/prod/oet/index_els.html using the "Add Attachments" feature.
- (13) Operation in the band 1910-1930 MHz is subject to prior coordination with existing and future fixed microwave service licensees in accordance with 47 CFR, Part 101.103(d).