

Exhibit 1

ATTN: RAYMOND L. STRASSBURGER, SUITE 700; 801 PENNSYLVANIA AVENUE, N.W., WASHINGTON, DC 20004

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

EXPERIMENTAL

(Nature of Service)

XD FX, MO

(Class of Station)

K12XAH

(Call Sign)

5596-EX-ML-96

(File Number)

NAME NORTHERN TELECOM, INC.

US

(Location of Station)

Area Of Operation: UNITED STATES AND POSSESSIONS

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.

Frequency	Class	Emission	Authorized
	Stn	Designator	Power watts

See Attached Page 3

Operation: In accordance with Sec. 5.202(d), (e), (f), (g) & (i) of the Commission's Rules.

Special Conditions:

See Attached Page 2

This authorization effective January 3, 1997 and
will expire 3:00 A.M. EST January 1, 1999

FEDERAL
COMMUNICATIONS
COMMISSION



NORTHERN TELECOM, INC.

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Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The station identification requirements of Section 5.152 of the Commission's Rules are waived.
- (3) Licensee is authorized to use various modes of modulation, bandwidth, and data rates. None of these modes of transmission shall extend beyond the band limits set forth above. Power and emission for the 902-928, 2400-2483.5 and 5725-5850 MHz bands must conform to Part 15 FCC Rules.
- (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 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.
- (6) Operation in the 1910-1930 MHz band requires coordination with UTAM, Inc. pursuant to Section 15.307 of the Commission's Rules.
- (7) Operation in the 824-849, 869-894, 930-931, or 940-941 MHz band requires consent of cellular and PCS licensees to avoid interference.
- (8) Equipment that has not received equipment authorization must be identified as "not approved by the Federal Communications Commission" and "this device is not, and may not be, offered for sale or lease, or sold or leased until the approval of the FCC has been obtained."

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Frequency MHz	Class Stn	Emission Designator	Authorized Power watts
824.00000-			
849.00000	MO	1M20F7W	100mW (ERP)
	MO	30K0F7W	100mW (ERP)
864.00000-			
868.00000	FX	100KF2W	10mW (ERP)
	MO	100KF2W	10mW (ERP)
869.00000-			
894.00000	FX	1M20F7W	250mW (ERP)
	FX	30K0F7W	250mW (ERP)
902.00000-			
928.00000	FX	100KF2W	1W (ERP)
	MO	100KF2W	1W (ERP)
930.00000-			
960.00000	FX	100KF2W	10mW (ERP)
	MO	100KF2W	10mW (ERP)
1850.00000-			
1910.00000	FX	XXX	1K (ERP)
	MO	XXX	1K (ERP)
1920.00000-			
1930.00000	MO	100KV7E	32mW (ERP)
1930.00000-			
1990.00000	FX	XXX	1K (ERP)
	MO	XXX	1K (ERP)
2400.00000-			
2483.50000	FX	XXX	1W (ERP)
	MO	XXX	1W (ERP)
5725.00000-			
5850.00000	FX	XXX	1W (ERP)
	MO	XXX	1W (ERP)

Modification
Experimental Radio License
Call Sign: KI2XAH
File Number: 5596-EX-ML-96
Effective: January 3, 1997
Expire: January 1, 1999

EXHIBIT #2

FCC FORM 442

This is a request for a **Modification** of the Experimental License issued to Northern Telecom, Inc. (hereinafter called "Nortel") authorization.

- §5.202(d) of the Regulations: Technical demonstrations of equipment or techniques, and;
- §5.202(f) of the Regulations: Demonstrations of equipment to prospective purchasers for proposed stations in existing services by persons engaged in the business of selling radio equipment.
- §5.202(i) of the Regulations: Development of radio technique, equipment, operational data or engineering data related to an existing or proposed radio service;

Modification consists of increasing maximum effective radiated power from the antenna (4c) for the frequency bands 1920-1930 MHz from 10mW to 32mW.