#### UNITED STATES OF AMERICA FEDERAL COMMUNICATIONS COMMISSION

## RADIO STATION AUTHORIZATION

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CALL SIGN: E960233

FILE NO.: 1208-DSE-MP/L-97

NAME: MINNESOTA PUBLIC RADIO

MODIFIED CONSTRUCTION PERMIT AND LICENSE

JUNE 20, 1997 DATE OF GRANT:

EXPIRATION DATE: JUNE 14, 2006

NATURE OF SERVICE: DOMESTIC FIXED SATELLITE SERVICE CLASS OF STATION: TEMPORARY FIXED EARTH STATION

LATITUDE LONGITUDE

LOCATION OF STATION:

STATION ADDRESS:

VARIOUS ( County),

SUBJECT TO THE PROVISIONS OF THE COMMUNICATIONS ACT OF 1934, THE COMMUNICATIONS SATELLITE ACT OF 1962, SUBSEQUENT ACTS AND TREATIES, AND ALL PRESENT AND FUTURE REGULATIONS MADE BY THIS COMMISSION, AND FURTHER SUBJECT TO THE CONDITIONS AND REQUIREMENTS SET FORTH IN THIS PERMIT AND LICENSE, THE GRANTEE IS AUTHORIZED TO CONSTRUCT, USE AND OPERATE THE RADIO FACILITIES DESCRIBED BELOW FOR RADIO COMMUNICATIONS FOR THE TERM BEGINNING JUNE 14, 1996 (3 A.M. EASTERN STANDARD TIME) AND ENDING JUNE 14, 2006 (3 A.M. EASTERN STANDARD TIME). THE REQUIRED DATE OF COMPLETION OF CONSTRUCTION IS JUNE 20, 1998. GRANTEE MUST FILE WITH THE COMMISSION A CERTIFICATION UPON COMPLETION OF CONSTRUCTION.

#### 1. PARTICULARS OF OPERATIONS

FREQUENCIES (MHz) AND POLARIZATION E	MISSION	EIRP	EIRP DENSITY (dBW/ 4kHz)	ASSOCIATED ANTENNA (S)	SPECIAL PROVISIONS (REFER TO FCC FORM 488-A)	
1.14000.000-14500.000 H,V ]	179KG7D	48.00			••••	
2.14000.000-14500.000 H,V 2	269KG7D	49.50	31.20		1900 1900	
3.14000.000-14500.000 H,V 3 4.11700.000-12200.000 H,V	358KG7D	49.50	30.00		1900 1010	

#### 2. FREQUENCY COORDINATION LIMITS

	Satellite Arc (Deg. Long.)		(Degrees)		(Degrees)		Max. EIRP Density to	
Frequency Limits (MHz)	East Limit	West Limit	East Lim.	West Lim.	East Limit	West Limit	Horizion (dBW/4kHz)	Associated

1.At 14 GHz

RECEIVING SYSTEM NOISE TEMP: (NOT APPLICABLE TO TRANSMIT-ONLY OPERATIONS



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3. POINTS OF COMMUNICATIONS -- THE FOLLOWING SPACE STATIONS LOCATED IN THE GEO-STATIONARY SATELLITE ORBIT CONSISTENT WITH SECTIONS 1 AND 2 OF THIS LICENSE: a. ALL AUTHORIZED U.S. DOMESTIC (ALSAT) satellite(s)

4. TRANSMITTING EQUIPMENT

UNITS MANUFACTURER

1. 1 SSE TECHNOLOGIES

MODEL NUMBER POWER-WATTS

OUTPUT

MODEL ASAT-S1214

5. ANTENNA FACILITIES

SITE/ELEVATION:

METERS AMSL

DIAMETER

UNITS (Meters) FEED MANUFACTURER

MODEL NUMBER

MAX. ANT. HT.

(Meters)

1. 1 1.80 OFST PRODELIN MODEL 1189 MAX. GAIN(S): 46.5 dBi at 14.000 GHz

AMSL AGL

- 6. REMOTE CONTROL POINT: NONE
- 7. ANTENNA STRUCTURE MARKING AND LIGHTING REQUIREMENTS: NONE

ATTACHED FCC FORMS 488-A AND 488-B (STANDARD PROVISIONS) ARE INCORPORATED INTO THIS AUTHORIZATION. SPECIAL PROVISION REFERENCE NUMBERS ARE LISTED IN SECTION 1 ABOVE; GENERAL PROVISION REFERENCE NUMBERS ARE AS FOLLOWS:

(6): 2916 (7): 2938

(1): 2010 (2): 2079 (3): 2087 (4): 2088 (5): 2810



## SPECIAL AND GENERAL PROVISIONS FOR RADIO STATION AUTHORIZATION

The radio station authorization granted on FCC Form 488 for File No. 1208-DSE-MP/L -97, CALL SIGN: E960233 is subject to additional terms and conditions specified by code numbers on that form. The text of these special and general provisions is given below:

- 1010 Receive frequency band. Emission designator indicates the maximum bandwidth of transmission received at this station.

  Maximum E.I.R.P. and maximum E.I.R.P. density are not applicable to receive operations.
- 1900 Authority is granted to transmit any number of r.f. carriers with the specified parameters on any discrete frequencies within this band in accordance with the other terms and conditions of this authorization, subject to any additional limitations that may be required to avoid unacceptable levels of inter-satellite interference.
- 2010 This authorization is issued pursuant to the Commission's Second Report and Order adopted June 16, 1972 (35 FCC 2d 844) and Memorandum, Opinion and Order adopted December 21, 1972 (38 FCC 2d 665) in Docket No. 16495 and is subject to the policies adopted in that proceeding.
- 2079 (a) Operation of this station is limited to locations within the territory of the United States.
  - (b) All operations shall be in accordance with the applicable provisions of Sections 21.707 & 21.708 of the Rules.
  - (c) Unless separate authorization is granted by the Commission for International communications, operations herein are limited to communication with earth stations within the United States via U.S. domestic satellites.
- 2087 The use of these small diameter facilities is authorized pursuant to the Commission's Declaratory Order in Routine Licensing of earth stations in the 6 GHz and 14 GHz bands using antennas less than 9 meters and 5 meters in diameter, respectively, for both full transponder and narrowband transmissions (DA 87-391) released April 13, 1987.
- 2088 The E.I.R.P. and E.I.R.P. Density numbers are the maximum permissable under the Commission's Declaratory Order (DA 87-391) noted in General Provision 2087.
- 2810 The grantee shall maintain on file with the Commission a current list or plan of the precise frequencies in actual use at this station, specifying for each such frequency: the r.f. center frequency, polarization, emission designator, EIRP (dBW), EIRP density (dBW/4 kHz), and receiving earth station(s). This list or plan may be submitted either on a station-by-station basis or on a system-wide basis, and shall be updated within seven days of any changes in

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frequency usage at this station. Temporary usage of frequencies for periods of less than seven days need not be notified to the Commission if accurate station records are maintained of the times and particulars of such temporary frequency usage.

- 2916 The transmitter(s) must be turned off during antenna maintenance so that the FCC-specified safety guidelines for human exposure to radiofrequency radiation are complied with in the region between the feed and the reflector.

  Appropriate measures must also be taken to restrict access to other regions in which the earth station's power flux density levels exceed the specified guidelines.
- 2938 Upon completion of construction, each licensee must file with the Commission a certification including the following information: name of the licensee, file number of the application, call sign of the antenna, date of the license and certification that the facility as authorized has been completed, that each antenna facility has been tested and is within 2 dB of the pattern specified in Section 25.209 and that the station is operational including the date of commencement of service and will remain operational during the license period unless the license is submitted for cancellation.

# THIS AUTHORIZATION IS SUBJECT TO THE FOLLOWING CONDITIONS:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303 (q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F. R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station:

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of construction permit for additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.