

PF/KRSW/SET

RADIO STATION AUTHORIZATION

LICENSE

NAME: MINNESOTA PUBLIC RADIO, INC.

CALL SIGN: KL53

FILE NO.: 001040-DSE-R -83

DOMESTIC FIXED SATELLITE SERVICE
FIXED EARTH STATION

DATE OF GRANT: MAY 27, 1983

LOCATION OF STATION: WORTHINGTON , NOBLES CO. , MINNESOTA

LATITUDE 43 37 19 N
LONGITUDE 95 37 42

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 LICENSE, THE LICENSEE IS AUTHORIZED TO USE AND OPERATE THE RADIO FACILITIES DESCRIBED BELOW FOR RADIO COMMUNICATIONS FOR THE TERM BEGINNING APRIL 1, 1983 (3 A.M. EASTERN STANDARD TIME) AND ENDING APRIL 1, 1988 (3 A.M. EASTERN STANDARD TIME).

1. PARTICULARS OF OPERATIONS

FREQUENCY (MHZ) AND POLARIZATION	EMISSION	MAXIMUM E.I.R.P.	MAXIMUM E.I.R.P. DENSITY	SPECIAL PROVISIONS (REFER TO FCC FORM 488-A.)
3700.000- 4200.000 H,V	200F9	---	---	1010 , 1104
3700.000- 4200.000 H,V	30F9	---	---	1010 , 1105

RANGE OF AZIMUTHS OF CENTER OF MAIN LOBE
OF RADIATION WITH RESPECT TO TRUE NORTH: 171.9 TO 229.9 DEGS. AT 4 GHZ

RANGE OF ANTENNA ELEVATION ANGLE: 39.4 TO 26.2 DEGS. AT 4 GHZ

MAXIMUM E.I.R.P. TOWARD THE HORIZON: (NOT APPLICABLE TO RECEIVE-ONLY OPERATIONS)

RANGE OF SATELLITE LONGITUDES: 90.0 TO 135.0 DEGS. AT 4 GHZ

RECEIVING SYSTEM NOISE TEMPERATURE: 171 DEGS. K AT 26.20 DEGS. ELEVATION AT 4000 MHZ



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
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2. POINTS OF COMMUNICATIONS

THE FOLLOWING SPACE STATIONS LOCATED IN THE GEOSTATIONARY SATELLITE ORBIT:

KS20 WESTAR I
KS21 WESTAR II
KS58
KS59

3. TRANSMITTING EQUIPMENT

(NOT APPLICABLE TO RECEIVE-ONLY OPERATIONS)

4. ANTENNA FACILITIES

NO. 1 4.5 METER PRIM ANTENNA ROCKWELL SPECIFIED STANDARD ANTENNA
GAIN: 43.5 DBI AT 4 GHZ MAXIMUM ANTENNA HEIGHT(AMSL): 497.7 METERS SITE/ELEVATION: 490.1 METERS

5. REMOTE CONTROL POINT: NONE

THIS AUTHORIZATION IS SUBJECT TO THE ADDITIONAL NUMBERED SPECIAL PROVISIONS AND
THE FOLLOWING NUMBERED GENERAL PROVISIONS SPECIFIED ON THE ATTACHED FCC FORM 488-A.

(1) 2000 (6) 2500
(2) 2013 (7) 2510
(3) 2019
(4) 2111
(5) 2200

