

FEDERAL COMMUNICATIONS COMMISSION
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MEDIA BUREAU
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NOV 10 2008

John R. Wilner, Esq.
Bryan Cave LLP
700 Thirteenth Street NW, Suite 600
Washington, DC 20005-3960

In re: Northwestern College
KTIS(AM), Minneapolis, Minnesota
Facility Identification Number: 49770
BP-20070227ABR (Construction Permit)
BL-20081008ANA (License Application)

Dear Mr. Wilner:

This is in reference to the above captioned license application and the request for program test authority for station, KTIS(AM), Minneapolis, Minnesota.

Authority is granted KTIS(AM) to conduct daytime and nighttime limited program tests in accordance with Construction Permits BP-20070227ABR and 47 C.F.R. § 73.1620 on 900 kHz with a daytime and nighttime nominal power of 50.0 kilowatts and 0.5 kilowatts respectively. Program tests are authorized with a daytime antenna input power of 52.65 kilowatts (common point current 32.45 amperes), and a nighttime antenna input power of 0.54 kilowatts (common point current 3.29 amperes).

A preliminary review of the application indicates that the description of the sample system does not include the type of coaxial cable.

Program tests should be conducted with the directional antenna system adjusted in accordance with the enclosed specifications. Please advise this office of any discrepancies noted in the enclosed specifications. Further action on the subject application will be withheld for a period of 30 days from the date of this letter to provide an opportunity to respond. Failure to respond within this time period will result in the dismissal of the application pursuant to 47 C.F.R. § 73.3568(b).

This authority expires on **February 10, 2009**.

Sincerely,



Son K. Nguyen
Supervisory Engineer
Audio Division
Media Bureau

cc: Wayne S. Reese
Northwestern College

Name of Licensee: NORTHWESTERN COLLEGE

Station Location: MINNEAPOLIS, MN

Frequency (kHz): 900

Station Class: B

Antenna Coordinates:

Day

Latitude: N 44 Deg 59 Min 24 Sec

Longitude: W 92 Deg 58 Min 52 Sec

Night

Latitude: N 44 Deg 59 Min 24 Sec

Longitude: W 92 Deg 58 Min 52 Sec

Transmitter(s): Type Accepted. See Sections 73.1660, 73.1665 and 73.1670 of the Commission's Rules.

Nominal Power (kW): Day: 50.0 Night: 0.50

Antenna Input Power (kW): Day: 52.7 Night: 0.54

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 32.45 Night: 3.29

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1023286	
2	1023287	
3	1023288	
4	1023289	

Night:

Tower No.	ASRN	Overall Height (m)
1	1023286	
2	1023287	
3	1023288	
4	1023289	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 2021.31 Night: 221.556

Standard RMS (mV/m/km): Day: 2123.68 Night: 232.871

Augmented RMS (mV/m/km):

Q Factor: Day: Night:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.8300	-7.100	0.0000	0.000	0	90.0
2	1.0000	0.000	180.0000	35.000	0	90.0
3	1.0000	87.500	90.0000	125.000	0	90.0
4	1.2050	94.600	180.0000	35.000	1	90.0

* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	0.5510	-114.000	0.0000	0.000	0	90.0
2	1.0000	0.000	180.0000	35.000	0	90.0
3	0.4570	5.200	90.0000	125.000	0	90.0
4	0.2290	171.600	180.0000	35.000	1	90.0

* Tower Reference Switch

- 0 = Spacing and orientation from reference tower
- 1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	3.5	0.995
2	0	1
3	99	1.038
4	95.8	1.239

Night Directional Operation:

Twr. No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-114.9	0.633
2	0	1
3	2.9	0.572

Night Directional Operation:

Twr. Phase No. (Deg.)	Antenna Monitor Sample Current Ratio
4 172.2	0.266

Antenna Monitor: POTOMAC INSTRUMENTS AM-1900

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
20.5	5.9	33.96
54	5.59	31.38
99	3.76	69.3
149	5.1	48.8
208	5.63	38

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
51.5	4.51	20.95
118	4.58	24.69
204.5	4.19	24.52
327.5	5.02	2.83

*** END OF AUTHORIZATION ***