Note:
Study cell size: 1.00 km
Profile point spacing: 0.10 km

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K40NO_Ch33_Hgt_Omni_Pre, Model: Longley-Rice
Start: 2019.04.17 17:47:15

Study created: 2019.04.17 16:55:04

Study build station data: LMS TV 2019-04-16

    Proposal: K40NO-D D33 LD APP GRAND FORKS, ND
 File number: K40NO_Ch33_Hgt_Omni
 Facility ID: 185744
Station data: User record
   Record ID: 825
     Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	K32MF-D	D32	LD	LIC	RED LAKE, MN	BLANK0000068190	150.0 km
No	K32KX-D	D32	LD	CP	FARGO, ND	BNPDTL20100902ABA	119.4
No	K32KI-D	D32	LD	CP	GRAND FORKS, ND	BNPDTL20100505ADF	4.6
No	K33MH-D	D33	LD	CP	ALBANY, MN	BNPDTL20100505AKI	311.9
No	K33DB-D	D33	LD	LIC	ALEXANDRIA, MN	BLANK0000063273	247.9
No	K33PL-D	D33	LD	LIC	BIRCHDALE, MN	BLANK0000068186	235.3
No	KDLH	D33	DT	LIC	DULUTH, MN	BLANK0000007407	390.8
No	K33OS-D	D33	LD	LIC	GRANITE FALLS, MN	BLANK0000063071	359.5
No	K33MM-D	D33	LD	CP	HEWITT, MN	BNPDTL20100505AKX	187.5
No	K33OG-D	D33	LD	LIC	MAX, MN	BLANK0000063811	223.1
No	K33OT-D	D33	LD	LIC	WILLMAR, MN	BLANK0000060751	338.0
No	K33ML-D	D33	LD	CP	FARGO, ND	BNPDTL20100518AEG	137.8
No	K33MQ-D	D33	LD	CP	MINOT, ND	BNPDTL20100609AGN	319.1
No	K33LK-D	D33	LD	CP	STEELE, ND	BNPDTL20100505AMB	254.4
No	K33MI-D	D33	LD	LIC	ABERDEEN, SD	BLANK0000016950	289.8
No	K34NP-D	D34	LD	LIC	RED LAKE, MN	BLANK0000068189	150.0
No	K34LV-D	D34	LD	CP	HORACE, ND	BNPDTL20100505ADL	137.7
No	K34MV-D	D34	LD	CP	VALLEY CITY, ND	BNPDTL20100505ALT	145.2

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
KGFK 1590 L DA2 D EAST GRAND FORKS, MN BL19800415AA
KGFK 1590 L DA2 N EAST GRAND FORKS, MN BL19800415AA

Record parameters as studied:

    Channel: D33
       Mask: Full Service
   Latitude: 47 52 34.90 N (NAD83)
  Longitude: 97 2 56.60 W
Height AMSL: 352.4 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	100.6 m	43.3 km
45.0	15.0	98.7	43.1
90.0	15.0	97.9	43.0
135.0	15.0	97.5	42.9
180.0	15.0	93.3	42.4

225.0	15.0	87.9	41.7
270.0	15.0	92.4	42.3
315.0	15.0	96.6	42.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 96 m

**Proposal 25.60 dBu contour crosses Canadian border, coordination required
Distance to Canadian border: 124.9 km

Distance to Mexican border: 1959.0 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 188.6 degrees Distance: 780.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 220.2 degrees Distance: 1077.6 km

Study cell size: 1.00 km
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K40NO-D	D33	LD	APP	GRAND FORKS, ND	K40NO_Ch33_Hgt_Omni	

Service area		Terrain-limited		IX-free		Percent IX	
5722.2	89,853	5722.2	89,853	5722.2	89,853	0.00	0.00