

[Exhibit 12]

Non-Interference Compliance

Regarding FCC File Number: BNPFT-20030317HFS

Description of Exhibit 12 Contents

This exhibit demonstrates that the proposed facility complies with contour overlap and interference protection provisions in all the applicable rule sections and that this application for a construction permit is in full compliance with 47 CFR 74.1204.

Page 2 of this exhibit is an explanation of the tabulated data, which is included as evidence on page 4 of this exhibit.

Page 3 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference protection provisions based on 47 CFR 74.1204(d), which states:

"an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable."

In addition, page 3 includes a tabulation of the second and third adjacent stations which this application is required to protect and the field strengths of those stations in the vicinity of the proposed translator. The field strengths given were based on contours predicted using FCC contour algorithms and 3 arc second terrain data.

Let it be noted that should any actual real world interference occur, the applicant certifies that it will promptly suspend operation of this translator in accordance with 47 CFR 74.1203.

Page 4 of this exhibit is the tabulated data from the interference analysis, which shows all stations that this application had to consider for contour protection. These tabulated values were generated using high resolution 3 arc second terrain data for the best possible accuracy.

Page 5 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 min quadrangle at full scale with the calculated area of interference overlayed. The sheet includes the quadrangle name and measurement scale at the bottom-left corner (note: "Mt" refers to meters). The area of interference was calculated using a free-space calculation (see FCC 98-117, Appendix A, pg. 41 for reference to the equation used).

Explanation of Frequency Finder Results

The interference analysis for this application was performed using the "Frequency Finder" module in RadioSoft's Comstudy, version 2.2.

Frequency Finder analyzes data taken directly from the FCC's FM database and looks for prohibited overlap with contours of adjacent stations and prohibited proximity to stations 53 or 54 channels from the proposed station (IF) using 3 arc second terrain data and the FCC's contour algorithms. The results tabulated are the stations returned from that analysis. (Note: Because Comstudy was looking at the FCC's FM database, it took into account the proposed translator when doing the analysis and returned it in the tabulated results. For the sake of simplicity, that record has been deleted from all tabulated results.)

The first several columns of the table are self-explanatory. They give various data on the stations in question. The column labeled "Clr" gives the proposed translator's "clearance" with respect to the tabulated station, either in dB or km. The values listed with no units are given in km and are for stations located on an IF to the proposed site's channel.

A negative value in the "Clr" column does NOT necessarily represent prohibited contour overlap, as explained below.

A negative value listed in the "Clr" column would indicate either overlap of interference and protected contours or prohibited proximity to an IF station except in the following situations:

- A second or third adjacent LP100 station cannot represent a violation of the CFR, as 47 CFR 74.1204(a)(4) requires protection of only co-channel and first adjacent LP100 stations.
- 47 CFR 74.1204(a) requires only the protection of "AUTHORIZED commercial or noncommercial educational FM broadcast stations, FM translators, ..." Any entry with a status listed as "RSV," "USE" or "APP" does not represent an authorized station and therefore is not protected under 47 CFR 74.1204. The one exception is the case of LP100 applications. The note to 47 CFR 74.1204(a)(4) states that "LPFM applications and permits that have not yet been licensed must be considered as operating with the maximum permitted facilities." Therefore, any first adjacent or co-channel LP100 station, no matter the status, is protected.
- Entries highlighted in red are those stations where there is overlap of predicted contours and lack of population has been demonstrated within the area of interference.

Compliance with 47 CFR 74.1204(d)

The proposed translator's Maximum Effective Radiated Power (ERP) is 0.17kW at 49 meters above ground level. According to 47 CFR, 74.1204(a), the desired to undesired ratio between 2nd/3rd adjacent stations is 40dB, making the proposed translator's interfering contour 126.6dBu F(50,10).

Using a free-space calculation (equation referenced in FCC 98-117, Appendix A, pg. 41), this proposed translator's F(50,10) interference contour was calculated and plotted on the pertinent portion of a USGS quadrangle (page 5 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the calculated area of interference (Note: FCC 02-244, II, A, 6 states that USGS quadrangles are sufficient for demonstrating lack of population). Hence, in accordance with 47 CFR 74.1204(d) and the clarification provided by the FCC in the decision Re: Living Way Ministries (FCC 02-244), a lack of population has been demonstrated within the area of interference and therefore this application is in full compliance with 47 CFR 74.1204.

CORAGL: 49m

Antenna Manufacturer: SWR

Maximum ERP: 0.17kW

Antenna Model: FM1

F(50,10) Interfering Contour: 126.6dBu

F(50,10) Max Distance: 42.8m

The F(50,50) signal strength of all relevant second and third adjacent stations have been examined, and are tabulated below. Column three shows the station's signal level at the proposed translator's tower site, and column four gives the minimum value within the entire proposed translator's standard F(50,10) contour (100 dBu for most classes, 94 dBu for class B's, 97 dBu for class B1's). For signal levels too great to determine, 999 was entered. The minimum F(50,50) contour within the proposed translator's standard F(50,10) contour was used to calculate the proposed translator's interference contour, thereby assuring a minimum undesired-to-desired ratio of 40dB for all relevant adjacent stations, as required in 47 CFR, 74.1204(a).

FCC File Number	Call Sign	F(50,50) Contour at Tower	Min. F(50,50) Contour
BLH19890313KB	KSEZ	87.5dBu	86.6dBu
Minimum F(50,50) Protected Contour of Adjacent Station Within Proposed Application's 100dBu F(50,10) Contour:			86.6dBu

Frequency Finder

Callsign	State	City	Channel	ERP_w	Licensee	ARN	Class	Status	Distance_km	Clr	Facility_id
KSEZ	IA	SIOUX CITY	250	100000	CLEVELAND RADIO LICENSES, LLC	BLH19890313KB	C1	LIC	16.87	-28.81 dB	10777
NEW	IA	SIOUX CITY	246	100	IOWA DEPARTMENT OF TRANSPORTA	BNPL20010615ADT	LP100	APP	4.01	-10.82 dB	133585
KBVU-FM	IA	ALTA	248	6000	BUENA VISTA UNIVERSITY	BLH19971128KE	A	LIC	107	15.09 dB	7758
NEW	NE	NORFOLK	248	100	NORFOLK EDUCATIONAL ASSOCIATIO	BNPL20010614ABW	LP100	APP	93.15	15.39 dB	133128
KSEZ	IA	SIOUX CITY	250	0	CLEVELAND RADIO LICENSES, LLC		C1	USE	16.87	16.99 dB	10777
	NE	PIERCE	248	0		RM10345	C2	APP	89.93	16.45 dB	0
KBLR-FM	NE	BLAIR	247	25000	WAITT RADIO, INC.	BLH20010830AAH	C3	LIC	98.55	17.05 dB	87840
NEW	IA	LE MARS	245	92	RADIO ASSIST MINISTRY INC.	BNPFT20030317DUT	D	APP	35.55	18.20 dB	152251
KBVU-FM	IA	ALTA	248	0	BUENA VISTA UNIVERSITY		A	USE	97.88	19.08 dB	7758
KDOU-LP	IA	SIBLEY	248	100	IOWA DEPARTMENT OF TRANSPORTA	BNPL20010615AJL	LP100	CP	120.35	22.13 dB	134043
KMXC	SD	SIOUX FALLS	247	100000	SOUTHERN MINNESOTA BROADCASTI	BLH20001220AAU	C1	LIC	145.1	22.09 dB	64711
KMXC	SD	SIOUX FALLS	247	100000	SOUTHERN MINNESOTA BROADCASTI	BMPH20001214AJF	C1	CP MOI	145.13	22.22 dB	64711
NEW	NE	ST. EDWARD	248	100	PALESTINE BAPTIST CHURCH	BNPL20010613AHE	LP100	APP	144.1	25.95 dB	134633
	IA	MOVILLE	246	0		RM9561	A	APP	37.14	26.95 dB	0
KBBX-FM	NE	NEBRASKA CITY	249	99000	JOURNAL BROADCAST CORPORATION	BMLH19970604KA	C1	LIC	181.13	28.56 dB	47957
DKMRV	NE	BLAIR	247	0	JOSEPH A. NUGENT		C3	USE	89.37	29.10 dB	32173
KZKX	NE	SEWARD	245	100000	CAPSTAR TX LIMITED PARTNERSHIP	BLH7204	C1	LIC	156.64	30.29 dB	53143
NEW	SD	BRANDON	249	205	EDUCATIONAL MEDIA FOUNDATION	BNPFT20030314BAC	D	APP	110.25	31.41 dB	144659
NEW	SD	ROWENA	249	23	EDUCATIONAL MEDIA FOUNDATION	BNPFT20030314ABM	D	APP	112.62	34.00 dB	140736
KFGE	NE	MILFORD	251	100000	MONTEREY LICENSES, LLC	BLH19960722KE	C1	LIC	194.41	34.49 dB	6490
KIAQ	IA	CLARION	245	100000	THREE EAGLES OF FT. DODGE, INC.	BLH19870120KA	C1	LIC	190.34	36.00 dB	54641
K249DL	IA	SPIRIT LAKE	249	250	LAKES AREA CHRISTIAN RADIO	BPFT20000405ACD	D	CP	138.28	36.54 dB	83434
NEW	IA	SPENCER	247	100	IOWA DEPARTMENT OF TRANSPORTA	BNPL20010615AIE	LP100	APP	130.15	37.15 dB	133827
KMXC	SD	SIOUX FALLS	247	0	SOUTHERN MINNESOTA BROADCASTING CO.		C1	USE	121.99	38.17 dB	64711

United States Geological Survey
NOS/NOAA

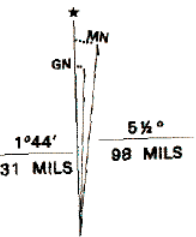
Grammetric methods from aerial photographs
stable surveys 1963. Revised from aerial
90-91. Field checked 1993. Map edited 1994

Projection and
of 1927 (NAD 27). Projection and
: Universal Transverse Mercator, zone 14
a coordinate system, north zone and
ate system, south zone

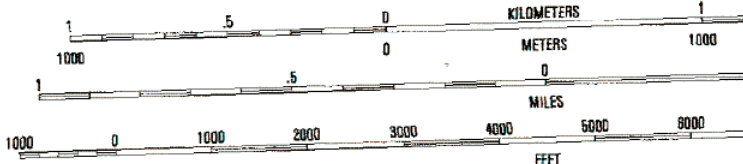
of 1983 (NAD 83) is shown by dashed
es of the shift between NAD 27 and NAD 83
ctions are obtainable from National Geodetic
ware

holdings within the boundaries of
: reservations shown on this map

rears in which only landmark buildings are shown
s indicate selected fence and field lines where
erial photographs. This information is unchecked



UTM GRID AND 1994 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 20 FEET
SUPPLEMENTARY CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1983

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 802
AND IOWA GEOLOGICAL SURVEY, IOWA CITY,
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE

Sioux City North: IA SD: Scale: 1" = 0.379Mi 610Mt 2,000Ft 1 Mi = 2,640' 1 cm = 240Mt