

[Exhibit 12]

Non-Interference Compliance

Regarding FCC File Number: BNPFT-20030317HQD

Channel: 285

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:

- Since the proposed station's Effective Radiated Power (ERP) is 13 watts, a negative value in km (no units listed in the table) does not represent a violation of the CFR, according to 47 CFR 1204(g), which states that "FM translator stations and booster stations operating with less than 100 watts ERP will be treated as class D stations and will not be subject to intermediate frequency separation requirements."

- 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 0.013kW 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 132.3dBu 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: 0.013kW

Antenna Model: FM1

F(50,10) Interfering Contour: 132.3dBu

F(50,10) Max Distance: 6.1m

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
BLH19811102AK	KSIT	92.7dBu	92.3dBu
Minimum F(50,50) Protected Contour of Adjacent Station Within Proposed Translator's standard F(50,10) Contour:			92.3dBu

Callsign	State	City	Channel	ERP_w	Licensee	ARN	Class	Status	Distance_km	Clr	Facility_id
KSIT	WY	ROCK SPRINGS	283	94000	BIG TICKET BROADCASTING COMPANY OF W	BLH19811102AK	C	LIC	20.17	-33.02 dB	63966
KSIT	WY	ROCK SPRINGS	283	0	BIG TICKET BROADCASTING COMPANY OF W		C	USE	20.17	-2.47 dB	63966
	WY	ROCK SPRINGS	283	0		RMspm112*	C	APP	20.17	-2.47 dB	0
	WY	ROCK SPRINGS	283	0		RMspm112*	C	APP	20.17	-2.47 dB	0
K232CU	WY	GREEN RIVER	232	209	WESTERN INSPIRATIONAL BROADCASTERS, INC	BLFT19940121TJ	D	LIC	11.44	11.4	71800
NEW	WY	ROCK SPRINGS	231	250	RADIO ASSIST MINISTRY, INC.	BNPFT20030317KAQ	D	APP	16.22	16.2	143321
NEW	WY	ROCK SPRINGS	232	250	RADIO ASSIST MINISTRY, INC	BNPFT20030317JZG	D	APP	16.22	16.2	154985
KDWY	WY	DIAMONDVILLE	287	67000	JERROLD T. LUNDQUIST	BPH20011018AGB	C1	CP	131.42	19.88 dB	77947
KDWY	WY	DIAMONDVILLE	287	16000	JERROLD T. LUNDQUIST	BLH20001204AIF	C2	LIC	103.78	19.64 dB	77947
K288AV	WY	MOUNT VIEW, E	288	218	HICKEY MOUNTAIN TELEVISION ASSOC.	BLFT101	D	LIC	85.85	29.32 dB	27134
K285BK	UT	TABIONA, ETC.	285	60	UNIVERSITY OF UTAH	BLFT19830516MQ	D	LIC	175.32	32.24 dB	68990
NEW	WY	RIVERTON	285	92	EDGEWATER BROADCASTING INC.	BNPFT20030317HPC	D	APP	188.29	34.74 dB	154285
KMXU-FI	UT	LEHI	286	6400	MILLCREEK BROADCASTING, L.L.C.	BPFTB20030709ABJ	D	APP	256.84	34.87 dB	136374
K285AZ	UT	LAKETOWN-GAF	285	14	RICH COUNTY	BLFT19830202MH	D	LIC	165.96	35.07 dB	56108
KMXU-2	UT	PROVO	286	4250	MILLCREEK BROADCASTING, L.L.C.	BNPFTB20011109ACT	D	APP	256.81	35.80 dB	136376
KBNZ	UT	TREMONTON	285	99000	3 POINT MEDIA - UTAH, LLC	BLH19990723KH	C	LIC	241.95	35.03 dB	20304
KMXU-2	UT	PROVO	286	4000	MILLCREEK BROADCASTING, L.L.C.	BNPFTB20011109ACT	D	APP	256.81	35.93 dB	136376
KLCY-FM	UT	VERNAL	288	3300	ASHLEY COMMUNICATIONS, INC.	BPH20010306ABN	C2	APP	110.68	36.75 dB	2935
KMXU	UT	MANTI	286	74000	MILLCREEK BROADCASTING, LLC	BLH20021223ABH	C	LIC	270.06	38.87 dB	59034
KSOP-FI	UT	SALT LAKE CITY	282	25000	KSOP, INC.	BPH20020227ABB	C	CP	257.59	39.94 dB	35629
K285ED	CO	CRAIG	285	20	RET BUTLER COMMUNICATIONS CORP.	BLFT19891016TG	D	LIC	184.43	39.82 dB	34432
K285DF	WY	AFTON	285	76	BRIGHAM YOUNG UNIVERSITY-IDAHO	BLFT19870820TA	D	LIC	186.06	39.69 dB	56349

[illegible]

Topographic map of Wilkins Peak, Wyoming. The map shows contour lines, elevation, and a grid. The map includes a red grid with labels 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The map also shows a red line labeled 'Wilkins Peak' and a blue line labeled 'Wilkins Peak'. The map includes a scale bar at the bottom: 'Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt'. The map also includes a north arrow at the top left.

Topographic map of Wilkins Peak, Wyoming, showing contour lines, elevation, and a grid. The map includes a red grid with labels 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100. The map also shows a red line labeled 'Wilkins Peak' and a blue line labeled 'Wilkins Peak'. The map includes a scale bar at the bottom: 'Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt'. The map also includes a north arrow at the top left.