

[Exhibit 12]

Non-Interference Compliance

Regarding FCC File Number: BNPFT-20030317DQS

Channel: 286

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 5 of this exhibit.

Pages 3 and 4 of this exhibit contain 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 4 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 5 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 6 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 19 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 0.019kW at 95 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 110.1dBu F(50,10). (See the next page for more discussion on the determination of the signal strength of the proposed translator's area of interference.)

Using a free-space calculation (equation referenced in FCC 98-117, Appendix A, pg. 41), the proposed translator's F(50,10) interference contour was calculated and the maximum horizontal plane was plotted on the pertinent portion of a USGS quadrangle (page 6 of this exhibit). However, the field strength of the proposed translator's antenna varies with angle of depression from horizontal. The antenna relative fields are tabulated below at 5 degree increments, starting at 5 degrees below horizontal. Antenna relative field strength data was provided and certified by the manufacturer of the proposed antenna. Using a free space calculation that neglects any loss due to reflection (equation referenced in FCC 98-117, Appendix A, pg. 41), the vertical ground clearance of the proposed application's F(50,10) interference contour at each angle has been tabulated. As shown below, the area of interference clears the ground by 45.3 meters at the lowest point. The applicant has taken into account USGS quadrangles and relevant aerial photography in stating that no structures, except possibly tower support structures, puncture the proposed area of interference. 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), there is a lack of population within the proposed area of interference and therefore this application is in full compliance with 47 CFR 74.1204.

Antenna Manufacturer: SWR

Maximum ERP: 19 watts

Antenna Model Number: FM1

CORAGL: 95 m

F(50,10) Contour: 110.1 dBu

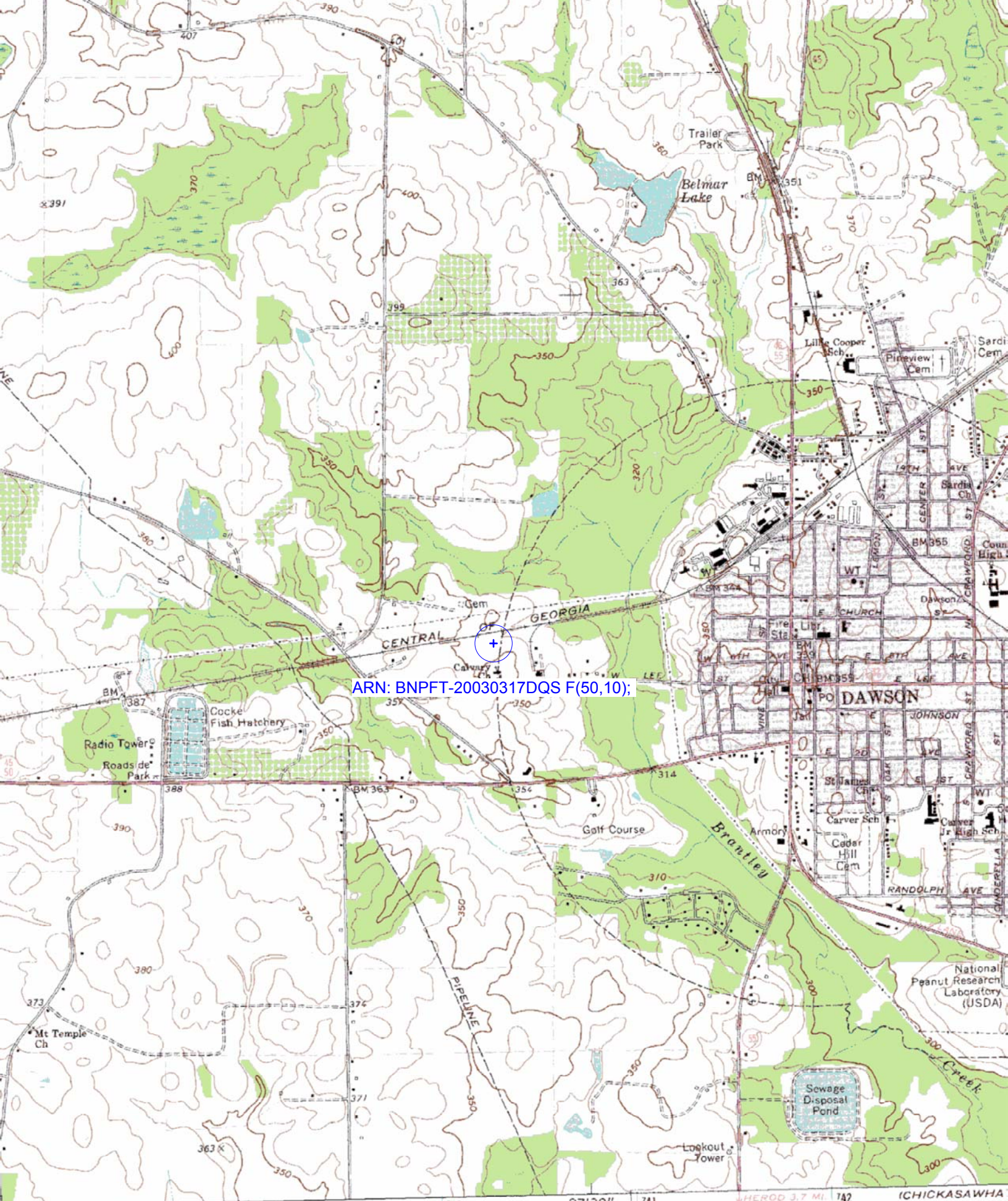
Depression Angle (from COR)	Antenna Relative Field	ERP (watts)	Distance to F(50,10) Interfering Contour from Antenna (m)	Horizontal Distance of F(50,10) Interfering Contour from Tower (m)	Vert. Clearance of F(50,10) Interfering Contour above TGL (m)
5	0.997	18.89	95.3	94.9	86.7
10	0.986	18.47	94.2	92.8	78.6
15	0.969	17.84	92.6	89.5	71.0
20	0.946	17.00	90.4	85.0	64.1
25	0.916	15.94	87.6	79.4	58.0
30	0.879	14.68	84.0	72.8	53.0
35	0.837	13.31	80.0	65.5	49.1
40	0.789	11.83	75.4	57.8	46.5
45	0.736	10.29	70.3	49.7	45.3
50	0.679	8.76	64.9	41.7	45.3
55	0.616	7.21	58.9	33.8	46.8
60	0.55	5.75	52.6	26.3	49.5
65	0.48	4.38	45.9	19.4	53.4
70	0.408	3.16	39.0	13.3	58.4
75	0.333	2.11	31.8	8.2	64.3
80	0.256	1.25	24.5	4.2	70.9
85	0.178	0.60	17.0	1.5	78.1
90	0.1	0.19	9.6	0.0	85.4

Minimum F(50,10) Clearance above TGL **45.3 m**

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
BLH19900424KC	WKAK	70.3dBu	70.1dBu
Minimum F(50,50) Protected Contour of Adjacent Station Within Proposed Translator's standard F(50,10) Contour:			70.1dBu

Callsign	State	City	Channel	ERP_w	Licensee	ARN	Facility_i	Class	Status	Distance_kn	Clr
WKAK	GA	ALBANY	283	98000	CUMULUS LICENSING CORP.	BLH19900424KC	831	C1	LIC	50.14	-10.63 dB
NEW	GA	ALBANY	286	13	EDUCATIONAL MEDIA FOUNDATION	BNPFT20030313BBE	139699	D	APP	34.33	2.92 dB
NEW	GA	NEYAMI	287	13	AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC	BNPFT20030310ABD	138260	D	APP	20.49	6.59 dB
WQVE	GA	CAMILLA	288	6000	CUMULUS LICENSING CORP.	BLH19920427KF	43240	A	LIC	56.73	15.41 dB
NEW	GA	REYNOLDS	286	80	FAMILY STATIONS, INC.	BNPFT20030317KBQ	156865	D	APP	93.38	21.84 dB
WZND	AL	HEADLAND	287	11500	GULF SOUTH COMMUNICATIONS, INC.	BLH19970925KG	10666	C3	LIC	98.24	22.38 dB
WZHT	AL	TROY	289	100000	CAPSTAR TX LIMITED PARTNERSHIP	BPH20030113ACI	8649	C	APP	162.3	23.56 dB
WMCG	GA	MILAN	285	36000	TEL-DODGE BROADCASTING CO.	BLH19940310KB	64757	C2	LIC	119.28	23.31 dB
WZHT	AL	TROY	289	100000	CAPSTAR TX LIMITED PARTNERSHIP	BLH19980717KE	8649	C	LIC	162.3	23.56 dB
WFFM	GA	ASHBURN	289	6000	ON TOP COMMUNICATIONS OF GEORGIA, LLC	BMLH19910802KB	72056	A	LIC	78.22	24.35 dB
WFXE	GA	COLUMBUS	285	6000	DAVIS BROADCASTING	BMLH19900409KJ	15847	A	LIC	91.72	25.12 dB
WHTF	FL	HAVANA	285	47000	MONTEREY LICENSES, LLC	BLH19930816KD	18550	C2	LIC	133.61	27.53 dB
WHTF	FL	HAVANA	285	50000	MONTEREY LICENSES, LLC	BPH20030312A00	18550	C2	APP	143.79	29.93 dB
WKAK	GA	ALBANY	283	0	CUMULUS LICENSING CORP.		831	C1	USE	32.94	29.40 dB
NEW	GA	NEW ELM	287	250	CLYDE SCOTT, JR.	BNPFT20030312ABH	142980	D	APP	85.14	29.35 dB
NEW	GA	ASHBURN	287	120	FAMILY STATIONS, INC.	BNPFT20030317KSN	156747	D	APP	76.15	30.38 dB
WMCG	GA	MILAN	285	31000	TEL-DODGE BROADCASTING CO.	BPH20010522AAD	64757	C2	APP	143.66	30.06 dB
WMAX-FM	GA	BOWDON	287	61000	CLEAR CHANNEL BROADCASTING LICENSES, INC.	BLH20020220AAB	63406	C1	LIC	184.64	31.65 dB
NEW	GA	CORDELE	287	13	RADIO ASSIST MINISTRY, INC	BNPFT20030317HXC	150369	D	APP	67.24	31.05 dB
NEW	GA	TIFTON	287	250	LAMAR SUTTON	BNPFT20030310ABQ	140874	D	APP	99.78	32.00 dB
NEW	GA	CULLODEN	286	10	AUGUSTA RADIO FELLOWSHIP INSTITUTE, INC	BNPFT20030310ABP	138304	D	APP	127.15	32.51 dB
WMAX-FM	GA	BOWDON	287	70000	CLEAR CHANNEL BROADCASTING LICENSES, INC.	BXPH20020611AAV	63406	C1	CP	184.64	33.43 dB
WOAB	AL	OZARK	285	6000	OZARK BROADCASTING CORPORATION	BMLH19990525KA	51095	A	LIC	121.08	36.24 dB
WSTI-FM	GA	QUITMAN	287	25000	MAGNUM BROADCASTING, INC.	BMPH20010529AAQ	1073	C3	CP MOD	158.81	37.28 dB
NEW	GA	ALBANY	232	19	RADIO ASSIST MINISTRY, INC	BNPFT20030317HUY	151736	D	APP	39.2	39.2



ARN: BNPFT-20030317DQS F(50,10);