

[Exhibit 12]

Non-Interference Compliance

Regarding FCC File Number: BNPFT-20030317DJR

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 overlaid. 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 101 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 104.0dBu 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 41.0 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: 2FM1-0.5

CORAGL: 101 m

F(50,10) Contour: 104.0 dBu

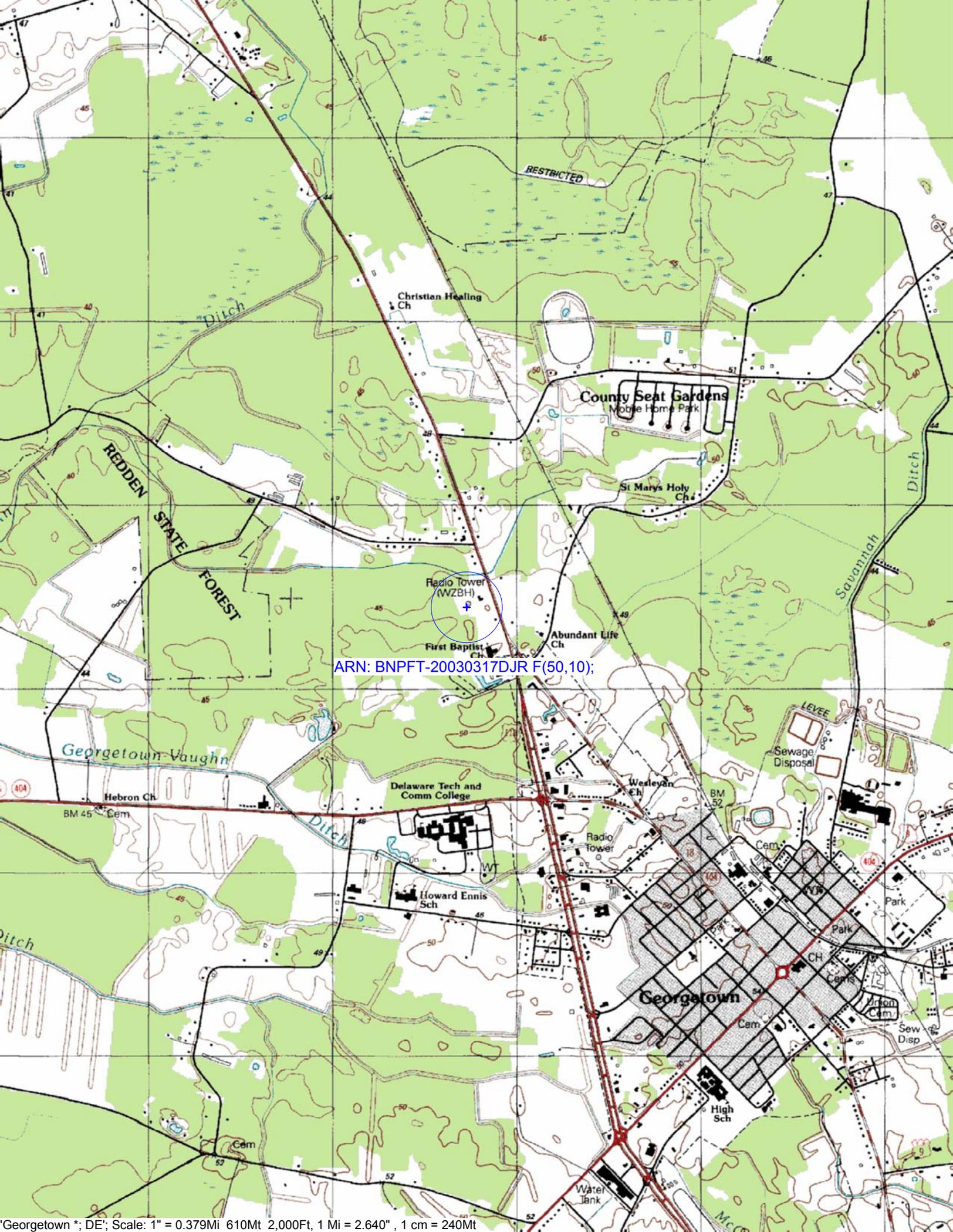
Depression Angle (from COR)	Antenna Relative Field	ERP (watts)	Distance to F(50,10) Interfering Contour from Antenna (m)	Horizontal Distance of F(50,10) Interfering Contour from Tower (m)	Vert. Clearance of F(50,10) Interfering Contour above TGL (m)
5	0.987	18.51	190.4	189.7	84.4
10	0.95	17.15	183.3	180.5	69.2
15	0.89	15.05	171.7	165.8	56.6
20	0.812	12.53	156.7	147.2	47.4
25	0.721	9.88	139.1	126.1	42.2
30	0.622	7.35	120.0	103.9	41.0
35	0.52	5.14	100.3	82.2	43.5
40	0.42	3.35	81.0	62.1	48.9
45	0.327	2.03	63.1	44.6	56.4
50	0.244	1.13	47.1	30.3	64.9
55	0.173	0.57	33.4	19.1	73.7
60	0.115	0.25	22.2	11.1	81.8
65	0.07	0.09	13.5	5.7	88.8
70	0.039	0.03	7.5	2.6	93.9
75	0.018	0.01	3.5	0.9	97.6
80	0.006	0.00	1.2	0.2	99.9
85	0.001	0.00	0.2	0.0	100.8
90	0.001	0.00	0.2	0.0	100.8

Minimum F(50,10) Clearance above TGL **41.0 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
BLH20020320ABQ	WWFG	64.4dBu	64dBu
Minimum F(50,50) Protected Contour of Adjacent Station Within Proposed Application's 100dBu F(50,10) Contour:			64dBu

Callsign	State	City	Channel	ERP_w	Licensee	ARN	Facility_i	Class	Status	Distance_kn	Clr
WWFG	MD	OCEAN CITY	260	38000	CAPSTAR TX LIMITED PARTNERSHIP	BLH20020320ABQ	74179	B	LIC	39.3	-10.90 dB
WSCL	MD	SALISBURY	208	33000	SALISBURY UNIVERSITY FOUNDATION, INC.	BLED19940922KA	58660	B	LIC	18.87	3.9
NEW	MD	OCEAN PINES	262	10	EDGEWATER BROADCASTING INC.	BNPFT20030317FHT	153142	D	APP	39.3	5.46 dB
WZXL	NJ	WILDWOOD	264	38000	EQUITY COMMUNICATIONS, L.P.	BLH19870602KA	70260	B	LIC	72.27	7.13 dB
WAAI	MD	HURLOCK	265	1300	MTS BROADCASTING, L.C.	BLH19990902AAO	2417	A	LIC	43.04	11.08 dB
NEW	NJ	RIO GRANDE	262	38	EDWARD A. SCHOBBER	BNPFT20030311ACI	141486	D	APP	52.37	11.27 dB
NEW	NJ	CAPE MAY	262	80	HOPE CHRISTIAN CHURCH OF MARLTON, INC.	BNPFT20030317EOT	141579	D	APP	61.07	13.01 dB
WPLY	PA	MEDIA	262	35000	RADIO ONE LICENSES, LLC	BMLH19840207AM	25079	B	LIC	140.65	15.31 dB
WPLY	PA	MEDIA	262	17000	RADIO ONE LICENSES, LLC	BLH19980813KB	25079	B	LIC	148.92	17.46 dB
WBIG-FM	DC	WASHINGTON	262	36000	AMFM RADIO LICENSES, L.L.C.	BLH19930127KC	54459	B	LIC	151.59	17.42 dB
WPLY	PA	MEDIA	262	17000	RADIO ONE LICENSES, LLC	BPH20001018ABT	25079	B	CP	148.92	17.37 dB
NEW	MD	POCOMOKE CITY	262	13	EDGEWATER BROADCASTING INC.	BNPFT20030317FIG	153145	D	APP	71.02	18.24 dB
NEW	MD	BISHOPVILLE	263	19	PRIORITY RADIO, INC.	BNPFT20030312AEQ	141388	D	APP	39.3	19.57 dB
WBIG-FM	DC	WASHINGTON	262	8500	AMFM RADIO LICENSES, L.L.C.	BXLH20020227AAW	54459	B	LIC	146.96	19.98 dB
NEW	NJ	PALERMO	262	38	EDWARD A. SCHOBBER	BNPFT20030311AAJ	142139	D	APP	85.36	20.62 dB
WBIG-FM	DC	WASHINGTON	262	40000	AMFM RADIO LICENSES, L.L.C.	BLH19960207KB	54459	B	LIC	141.47	20.43 dB
NEW	MD	SALISBURY	263	100	SALISBURY STATE UNIVERSITY	BNPL20000608AES	124825	LP100	APP	43.81	22.25 dB
W261AE	DE	CAMDEN	261	170	FAITH COMMUNITY CHURCH	BLFT19970630TF	20542	D	LIC	46.64	24.30 dB
WZBA	MD	WESTMINSTER	264	27000	SHAMROCK COMMUNICATIONS, INC.	BMLH20020425ABM	59985	B	APP	144.45	26.57 dB
WZBA	MD	WESTMINSTER	264	27000	SHAMROCK COMMUNICATIONS, INC.	BLH20010726ABP	59985	B	LIC	144.45	26.57 dB
NEW	MD	EASTON	261	100	EASTON WOLC SUPPORT GROUP	BNPFT20030311ARF	138408	D	APP	57.57	27.82 dB
NEW	NJ	PLEASANTVILLE	262	27	EDWARD A. SCHOBBER	BNPFT20030313BKT	145806	D	APP	108.22	27.26 dB
WBIG-FM	DC	WASHINGTON	262	0	AMFM RADIO LICENSES, L.L.C.		54459	B	USE	141.51	30.06 dB
WPLY	PA	MEDIA	262	0	RADIO ONE LICENSES, LLC		25079	B	USE	140.65	30.03 dB
NEW	NJ	SEAVILLE	261	80	HOPE CHRISTIAN CHURCH OF MARLTON, INC.	BNPFT20030317EON	141578	D	APP	78.76	31.19 dB
WWFG	MD	OCEAN CITY	260	0	CAPSTAR TX LIMITED PARTNERSHIP		74179	B	USE	46.96	31.74 dB
WAAI	MD	HURLOCK	265	0	MTS BROADCASTING, L.C.		2417	A	USE	43.04	35.19 dB
WCMS-FM	VA	NORFOLK	263	50000	CHESAPEAKE BAY BROADCASTING, LLC	BLH19820505AM	71287	B	LIC	220.18	36.16 dB
WCMS-FM	VA	NORFOLK	263	50000	CHESAPEAKE BAY BROADCASTING, LLC	BLH19930304KB	71287	B	LIC	220.18	37.54 dB
WODE-FM	PA	EASTON	260	50000	NASSAU BROADCASTING II, LLC	BMLH19960709KC	8595	B	LIC	222.69	38.78 dB
WHTZ	NJ	NEWARK	262	6000	AMFM RADIO LICENSES, L.L.C.	BLH19940204KD	59953	B	LIC	257.17	38.90 dB
WFRE	MD	FREDERICK	260	7900	CAPSTAR TX LIMITED PARTNERSHIP	BMLH20010314AAO	31139	B	LIC	201.3	38.08 dB
WYFI	VA	NORFOLK	259	50000	BIBLE BROADCASTING NETWORK, INC.	BMLD19900622KA	5143	B	LIC	221.55	38.84 dB
WHTZ	NJ	NEWARK	262	16500	AMFM RADIO LICENSES, L.L.C.	BXMLH20011114ABH	59953	B	LIC	257.91	39.12 dB
WHTZ	NJ	NEWARK	262	4600	AMFM RADIO LICENSES, L.L.C.	BMLH19941114KH	59953	B	LIC	257.17	39.77 dB



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