

Non-Interference Compliance

Regarding Facility id 141566

Channel 257

Description of Exhibit 12 Contents

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

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

Page 2 of this exhibit is an explanation of the method used to demonstrate compliance with contour overlap and interference provisions based on 47 C.F.R. § 74.1204(d), which states:

[A]n 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.

Page 3 of this exhibit contains the tabulated data from the interference analysis, which shows all stations whose protected contours come within 50 km of the 34 dBμ F(50,10) contour of the proposed translator. These tabulated values were calculated using data from the FCC's CDBS files and 30 arc second terrain data. The column labeled "Adj" shows the number of channels difference between the entry and the proposed translator. The column labeled "Dist" shows the distance in km. The column labeled "Overlap" shows the area of contour overlap in square kilometers.

Page 4 of this exhibit is a portion of a USGS 1:24,000 scale 7.5 minute 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 the free space equation and 120 radials.

Note: The quadrangle indicates the presence of a county road in the area of interference. It is apparent that this is not a major road, e.g. interstate highway, as described in the Living Way decision and therefore "lack of population" is demonstrated.

Compliance with 47 C.F.R. § 74.1204(d)

All authorized second and third adjacent stations with which the proposed translator has contour overlap are tabulated below. Column four show the station's signal level at the proposed translator's tower site, and column five gives the minimum value within the entire standard interfering contour of the proposed translator (100 dBμ for most classes, 94 for class B, 97 for class B1). The minimum second or third adjacent F(50,50) contour within the proposed translator's standard interfering contour was used to calculate the proposed translator's actual "worst-case" interfering contour.

Application_id	File Number	Callsign	Contour at Tower	Min. Contour
228827	BMLH19960709KC	WODE-FM	62.5	62.5
Minimum F(50,50) Contour of Adjacent Station within Proposed Translator's Standard Interfering Contour				62.5

FCC 02-244 at Section II.A.5 states that "when demonstrating that 'no actual interference will occur due to . . . other factors,' pursuant to Section 74.1204(d), an applicant may use the undesired-to-desired signal ratio method." The undesired-to-desired ratio for second and third adjacent stations required by § 74.1204(a) is 40 dB. Since the minimum protected contour strength within the proposed translator's standard interference contour is **62.5 dBμ**, this makes the proposed translator's worst-case interfering contour **102.5 dBμ**. By the free-space equation, this contour is calculated to extend a maximum of **235.2 m** from the transmit antenna.

The interfering contour of the proposed translator was calculated for 120 radials and plotted on the pertinent portion of a USGS quadrangle (page 4 of this exhibit). As demonstrated on the quadrangle, there are no populated structures or highways within the area of interference (Note: FCC 02-244 at Section II.A.6 states that USGS quadrangles "have been recognized as acceptable to demonstrate lack of population"). Hence, in accordance with 47 C.F.R. § 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 this application is therefore in full compliance with 47 C.F.R. § 74.1204.

Note: The quadrangle indicates the presence of a county road in the area of interference. It is apparent that this is not a major road, e.g. interstate highway, as described in the Living Way decision and therefore "lack of population" is demonstrated.

Antenna Manufacturer:	PSI
Antenna Model:	FML
CORAGL:	8 m
Maximum ERP:	0.02 kW
Interfering Contour:	102.5 dBμ
Max Int. Contour Distance:	235.2 m

Adjacent Channel Study **For Station W257BW, Facility_id: 141566**

Co-channel through third adjacent:

Application_id	Facility_id	Prefix	ARN	Call	Licensee	Class	City	State	Status	ERP	RCAMSL	Channel	Adj	Dist	Overlap
228827	8595	BMLH	19960709KC	WODE-FM	CLEAR CHANNEL B/CAST LICENSES, INC	B	EASTON	PA	LIC	50	268	260	3	47.1	0.4751
84503	49456	BLFT	19851224TB	W257AI	NORTHEASTERN PA ED TV ASSOCIATION	D	ALLENTOWN	PA	LIC	0.004	341	257	0	31.4	0
633057	141464	BNPFT	20030317BDT	NEW	FOUR RIVERS COMMUNITY BROADCASTING COF	D	HAZELTON	PA	APP	0.01	588	255	2	34.7	0
633977	142213	BNPFT	20030314BHW	NEW	THE SCRANTON TIMES, L.P.	D	HAZLETON	PA	APP	0.003	592	258	1	34.8	0
213063	65179	BLFT	19950823TB	W256AB	TEMPLE UNIV OF COMMONWEALTH SYSTEM	D	POTTSVILLE	PA	LIC	0.1	408	256	1	35.6	0
635644	143437	BNPFT	20030313ASW	NEW	SPANISH AMERICAN CIVIC ASSOCIATION FOR EC	D	READING	PA	APP	0.01	365	257	0	39.3	0
633055	141462	BNPFT	20030317BDK	NEW	FOUR RIVERS COMMUNITY BROADCASTING COF	D	TEMPLE	PA	APP	0.01	350	257	0	39.3	0
633176	141564	BNPFT	20030314BVR	NEW	BEACON BROADCASTING CORP.	D	EASTON	PA	APP	0.08	161	258	1	47.8	0
634630	142662	BNPFT	20030317BGH	NEW	PENN JERSEY EDUCATIONAL RADIO CORPORAT	D	STROUDSBURG	PA	APP	0.004	423	258	1	59.2	0
1178099	25751	BXLH	20070326AGM	WVRZ	CLEAR CHANNEL BROADCASTING LICENSES, INC	A	MOUNT CARMEL	PA	LIC	0.4	496	259	2	59.7	0
161205	25751	BLH	19910513KA	WVRZ	H & P COMMUNICATIONS, LTD	A	MOUNT CARMEL	PA	LIC	0.79	528	259	2	59.7	0
998127	141465	BNPFT	20030827AJZ	W260BD	FOUR RIVERS COMMUNITY BROADCASTING COF	D	WILKES BARRE	PA	CP	0.003	355	260	3	62.9	0
1192099	144129	BMPFT	20070622AAL	W256AV	HOPE CHRISTIAN CHURCH OF MARLTON, INC.	D	EPHRATA	PA	CP MOD	0.01	186	256	1	64.3	0
1184249	154675	BLFT	20070503ACU	W255BL	FAMILY LIFE MINISTRIES, INC.	D	BLOOMSBURG	PA	LIC	0.01	284	255	2	68.4	0
1189444	156228	BMPFT	20070604AAZ	W260AY	KEVIN M. FITZGERALD	D	WILKES-BARRE	PA	CP MOD	0.005	479	260	3	70.3	0
182345	69198	BLED	19930303KB	WUSR	UNIVERSITY OF SCRANTON	A	SCRANTON	PA	LIC	0.3	670	258	1	83.2	0
274153	20349	BLH	19980922KD	WUSL	CHANCELLOR MEDIA PA LICENSE CORP.	B	PHILADELPHIA	PA	LIC	32	239	255	2	84.7	0
274154	20349	BLH	19980922KE	WUSL	CHANCELLOR MEDIA PA LICENSE CORP.	B	PHILADELPHIA	PA	LIC	27	271	255	2	84.8	0

