

SPACING STUDY

This narrative exhibit is submitted to demonstrate that the instant proposal fully complies with the interference criteria set forth in Section 74.1204 of the Commission's rules.

Attached are a spacing study, an additional narrative exhibit which includes a Section 74.1204(d) showing, and maps demonstrating clearly that there is no prohibited overlap between this proposal and any other FM services. The attached FM spacing study demonstrates that this proposal would be fully spaced even as a full power Class A FM station to all but six other FM facilities. The attached maps and Section 74.1204(d) study with regard to overlap between this proposal and the coverage contour of WCFT-FM, Bloomsburg, PA demonstrate that there is no prohibited contour overlap between these six facilities and the instant proposed FM translator facilities. Two operating FM translators and one LPFM have also been included on the maps because of their proximity to the proposed facilities. As demonstrated in these maps no prohibited overlap with these stations is predicted.

The nine facilities that have been included on the attached maps are: WEZX, 106.9, Scranton, PA (60 dBu contour to proposed 40 dBu interference contour); WKVP, 106.9, Camden, NJ (54 dBu contours to prop. 34 dBu int. contour); WBYN-FM, 107.5, Boyertown, PA (54 dBu contour to prop. 94 dBu int. contour); WCFT-FM, 106.5, Bloomsburg, PA (54 dBu contours to prop. 94 dBu int. contour); WKTW-LP, 107.1, Lenhartsville, PA (60 dBu contour to prop. 54 dBu int. contour); WWKL, 106.7, Hershey, PA (54 dBu contour to prop. 48 dBu int. contour); WWYY, 107.1, Belvidere, NJ (60 dBu contour's to prop. 54 dBu int. contour); W296CD, 107.1, Jonestown, PA (60 dBu contour's to prop. 54 dBu int. contour); and W295CR, 106.9, Allentown, PA (60 dBu contour to prop. 40 dBu int. contour).

W295CV, Hazleton, PA 74.1204(d) Narrative and its related maps are included to show allowable overlap under Section 74.1204(d) with this proposal's 103.4 dBu interference contour and the 63.4 dBu coverage contour of WCFT-FM, Bloomsburg, PA. A scale of kilometers has been included on the maps. These maps were drawn to scale using the rfSoftware series of computer programs.

By: Kevin Fitzgerald, Chief Engineer

Kevin Fitzgerald
 Job: W295CV Hazleton Tran Int2.fmj
 Master Database: 2017_Nov_30.fmd
 Lat: N40:56:24 Lon: W075:58:03 NAD-83
 Channel: 295 Class: A
 Status: Licensed, Construction Permit, Application
 Channels: Co-Channel, 1st Adj, 2nd Adj, 3rd Adj, IF
 Range: 100 km
 Comments: No Comments

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Description: W295CV, 106.9, Hazleton, PA; 1490 Tower; 35w; 90m AGL; Spacing Study. A contour study will be shown for WEZX, WKVP, WBYNFM, WCFTFM, WKTWLP, WWKL(WZCY), WWYY, W296CD, and W295CR will be shown to be fully spaced.

Callsign	Ser	City	State	Latitude (NAD83)	Longitude (NAD83)	Channel	Class	Stat	73	207	CIERP	HAAT	Adjacen	Distanc	Bear	73	215	CI
WEZX	FM	SCRANTON	PA	N41:20:52	W075:39:02	295 : 106.9	A	LIC	115	-62.48	1.45	188	Co-Chan	52.52	030	-39.48		
WKVP	FM	CAMDEN	NJ	N39:54:33	W075:05:59	295 : 106.9	B	LIC	178	-41.90	38.00	168	Co-Chan	136.10	147	-6.90		
WCFT-FM	FM	BLOOMSBUR	PA	N40:56:18	W076:25:37	293 : 106.5	B	LIC	69	-30.31	10.50	313	2nd Adj	38.69	270	-24.31		
20131114AFM	FM	LENHARTSVI	PA	N40:34:10	W075:53:56	296 : 107.1	L1	CP	56	-14.44	0.00	21	1st Adj	41.56	172	-14.44		
WZCY-FM	FM	HERSHEY	PA	N40:10:16	W076:35:49	294 : 106.7	B	LIC	113	-12.34	14.00	283	1st Adj	100.66	212	4.66		
WWYY	FM	BELVIDERE	NJ	N40:56:53	W075:09:37	296 : 107.1	A	LIC	72	-4.02	1.20	219	1st Adj	67.98	089	18.98		
WWYY	FM	BELVIDERE	NJ	N40:56:53	W075:09:37	296 : 107.1	A	CP	72	-4.02	0.84	266	1st Adj	67.98	089	18.98		
WBYN-FM	FM	BOYERTOWNPA	PA	N40:24:15	W075:39:08	298 : 107.5	B	LIC	69	-3.80	30.00	186	3rd Adj	65.20	156	2.20		
W297AV	FM	HAZLETON	PA	N40:57:17	W075:58:25	297 : 107.3	DX	LIC	0	1.71	0.03	66	2nd Adj	1.71	343	1.71		
20170801	FM	HAZLETON	PA	N40:57:17	W075:58:25	295 : 106.9	DX	AP	0	1.71	0.00	0	Co-Chan	1.71	343	1.71		
WHMN-LP	FM	PLYMOUTH	PA	N41:14:20	W075:59:01	297 : 107.3	L1	LIC	29	4.22	0.00	95	2nd Adj	33.22	358	4.22		
W241BB	FM	WILKES-BAR	PA	N41:11:11	W075:51:32	241 : 96.1	MDX	LIC	0	28.85	0.00	252	IF	28.85	018	28.85		
W296CD	FM	JONESTOWNPA	PA	N41:07:35	W076:15:58	296 : 107.1	DX	LIC	0	32.54	0.01	261	1st Adj	32.54	309	-35.46		
WEGH	FM	NORTHUMBPA	PA	N40:47:10	W076:41:48	297 : 107.3	A	LIC	31	32.81	0.90	257	2nd Adj	63.81	254	38.81		
W292EQ	FM	LEHIGH TOW	PA	N40:46:04	W075:38:19	292 : 106.3	DX	LIC	0	33.69	0.01	0	3rd Adj	33.69	125	33.69		
WWEG	FM	MYERSVILLE	MD	N39:29:57	W077:36:41	295 : 106.9	B	LIC	178	34.55	15.50	260	Co-Chan	212.55	221	69.55		
20170727	FM	BERWICK	PA	N41:00:28	W076:22:18	242 : 96.3	MDX	AP	0	34.84	0.25	0	IF	34.84	282	34.84		
WQKK	FM	RENOVO	PA	N41:14:15	W077:45:01	295 : 106.9	A	LIC	115	38.40	0.80	267	Co-Chan	153.40	282	61.40		
WCTO	FM	EASTON	PA	N40:35:55	W075:25:11	241 : 96.1	MB	LIC	15	44.80	50.00	152	IF	59.80	129	44.80		
W293CP	FM	KUTZTOWN	PA	N40:31:55	W075:46:32	293 : 106.5	DX	LIC	0	48.13	0.01	0	2nd Adj	48.13	160	48.13		
WCDW	FM	PORT DICKIN	NY	N42:03:22	W075:56:38	294 : 106.7	A	LIC	72	51.97	1.20	221	1st Adj	123.97	001	74.97		
WHCY	FM	BLAIRSTOW	NJ	N41:02:53	W074:58:19	292 : 106.3	A	LIC	31	53.61	0.43	262	3rd Adj	84.61	082	59.61		
WLTW	FM	NEW YORK	NY	N40:44:54	W073:59:09	294 : 106.7	B	LIC	113	55.48	6.00	415	1st Adj	168.48	097	72.48		
W293BW	FM	ALLENTOWN	PA	N40:39:30	W075:25:11	293 : 106.5	DX	LIC	0	55.82	0.25	0	2nd Adj	55.82	124	55.82		
20170801	FM	ALLENTOWN	PA	N40:35:33	W075:28:41	295 : 106.9	DX	AP	0	56.54	0.10	0	Co-Chan	56.54	133	56.54		
W297AF	FM	SCRANTON	PA	N41:24:34	W075:40:00	297 : 107.3	DX	LIC	0	57.92	0.25	0	2nd Adj	57.92	026	57.92		
W241AZ	FM	SCRANTON	PA	N41:24:34	W075:40:00	241 : 96.1	MDX	CP	0	57.92	0.00	0	IF	57.92	026	57.92		
W241AZ	FM	CLARKS SUMPA	PA	N41:28:01	W075:41:11	241 : 96.1	MDX	LIC	0	63.09	0.09	229	IF	63.09	022	63.09		
WQJU	FM	MIFFLINTOW	PA	N40:34:20	W077:30:50	296 : 107.1	A	LIC	72	64.83	0.37	397	1st Adj	136.83	253	87.83		
W292FD	FM	READING	PA	N40:21:16	W075:53:56	292 : 106.3	DX	LIC	0	65.28	0.01	0	3rd Adj	65.28	175	65.28		
W296CL	FM	READING	PA	N40:21:15	W075:53:54	296 : 107.1	DX	LIC	0	65.32	0.01	0	1st Adj	65.32	175	-2.68		
WLIH	FM	WHITNEYVIL	PA	N41:46:13	W077:12:07	296 : 107.1	A	LIC	72	66.48	3.30	91	1st Adj	138.48	312	89.48		
WRDY-LP	FM	EAGLEVILLE	PA	N40:09:30	W075:25:04	293 : 106.5	L1	LIC	29	69.52	0.00	113	2nd Adj	98.52	152	69.52		
W294BQ	FM	EASTON	PA	N40:40:23	W075:12:29	294 : 106.7	DX	LIC	0	70.61	0.11	0	1st Adj	70.61	115	2.61		
W297AV	FM	CARBONDAL	PA	N41:33:23	W075:29:06	241 : 96.1	MDX	CP	0	79.51	0.05	0	IF	79.51	031	79.51		
WHII-LP	FM	WARMINSTE	PA	N40:10:08	W075:03:00	293 : 106.5	L1	LIC	29	86.64	0.00	75	2nd Adj	115.64	138	86.64		
WSYR-FM	FM	SOLVAY	NY	N43:00:10	W076:11:57	295 : 106.9	B1	LIC	143	86.92	9.00	124	Co-Chan	229.92	355	110.92		
W296AP	FM	WILLIAMSP	PA	N41:13:04	W076:57:26	296 : 107.1	DX	LIC	0	88.72	0.00	327	1st Adj	88.72	290	20.72		
W294BJ	FM	HONESDALE	PA	N41:33:13	W075:15:17	294 : 106.7	DX	LIC	0	90.63	0.25	54	1st Adj	90.63	041	22.63		
WBLS	FM	NEW YORK	NY	N40:44:54	W073:59:09	298 : 107.5	B	LIC	69	99.48	4.20	415	3rd Adj	168.48	097	105.48		

Contour Analysis

Kevin Fitzgerald

Job: W295CV Hazleton Tran Int2.fmj

Master Database: 2017_Nov_30.fmd

Lat: N40:56:24 Lon: W075:58:03 NAD-83

Scale: 1:850000

Channel: 295 Class: DX

Status: Licensed, Construction Permit, Application

Channels:

Range: 100 km, Clearance: -0.5km

Comments: No Comments

Description: W295CV, 106.9, Hazleton, PA; 1490 Tower; 35w; 90m AGL

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Date: 1/28/2024 11:04:35 PM

Key:

City Grade

Protected

Co-Channel

1st Adj

2nd/3rd Adj

