

SPACING STUDY

This narrative exhibit is submitted to demonstrate that this proposal fully complies with the interference criteria set forth in Section 74.1204 of the Commission's rules. Attached is 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 five other FM facilities. This FM Translator proposal is for 80 watts ERP. 99 watts or less, thus there is no required IF spacing to WEZX, 106.9, Scranton, PA. One currently operating FM translator has also been included on the maps because of its proximity to the proposed facilities. The attached maps and Section 74.1204(d) study with regard to overlap between this proposal and the coverage contours of WPEL-FM, Montrose, PA and WBHD, Olyphant, PA, demonstrate that there is no prohibited contour overlap between these five stations and the instant proposed FM translator facilities. As demonstrated in these maps no prohibited overlap with these stations is predicted.

The five facilities that have been included on the attached maps are: WCTO, 96.1, Easton, PA (54 dBu contour to proposed 34 dBu interference contour); WBHD, 95.7, Olyphant, PA (60 dBu contour to prop. 100 dBu int. contour); WPEL-FM, 96.5, Montrose, PA (54 dBu contour to prop. 94 dBu int. contour); WKBP, 95.9, Benton, PA (60 dBu contour to prop. 54 dBu int. contour); and W241BB, 96.1, Wilkes-Barre, PA (60 dBu contour to prop. 40 dBu int. contour).

W241AZ 96.1 Scranton, PA 74.1204(d) Narrative and its related exhibits are included to show allowable overlap under Section 74.1204(d) with this proposal's 94 dBu and 100 dBu

interference contours and the 54 dBu and 60 dBu coverage contours of WPEL-FM, Montrose, PA and WBHD, Olyphant, 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, Director of Engineering

Kevin Fitzgerald

Job: W241AZ Scranton Tran Int.fmj

Master Database: 2023_Jun_30.fmd

Lat: N41:24:34 Lon: W075:40:00 NAD-83

Channel: 241 Class: A

Status: Licensed, Construction Permit, Application, Temp Authority, Addition, Vacant/Reserved, Deleted

Channels: Co-Channel, 1st Adj, 2nd Adj, 3rd Adj, IF

Range: 100 km

Comments: No Comments

Description: W241AZ Scranton TT Spacing Study; WPELFM, WKBP, WCTO, W241BB, WBHD, and WEZX will be shown to be fully spaced.

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rfInvestigator Version 3.8.16

by rfSoftware, Inc.

Callsign	Ser	City	State	Latitude (NAD83)	Longitude (NAD83)	Channel	Clas	Stat	73	207	CIERP	HAAT	Adjacen	Distanc	Bear	73	215	CI
WCTO	FM	EASTON	PA	N40:35:55	W075:25:11	241 : 96.1 MB	LIC	178	-85.58	43.00	160	Co-Chan	92.42	167	-50.58			
WBHD	FM	OLYPHANT	PA	N41:26:09	W075:43:42	239 : 95.7 MA	LIC	31	-25.06	0.60	308	2nd Adj	5.94	300	-19.06			
WPEL-FM	FM	MONTROSE	PA	N41:51:16	W075:51:48	243 : 96.5 MB	LIC	69	-16.92	57.00	140	2nd Adj	52.08	342	-10.92			
WKBP	FM	BENTON	PA	N41:09:33	W076:24:04	240 : 95.9 MA	LIC	72	-4.49	4.20	117	1st Adj	67.51	246	18.51			
WEZX	FM	SCRANTON	PA	N41:20:53	W075:39:00	295 : 106.9 A	LIC	10	-3.03	1.45	188	IF	6.97	169	-3.03			
WSOX	FM	RED LION	PA	N39:54:17	W076:34:46	241 : 96.1 MB	LIC	178	6.07	13.50	290	Co-Chan	184.07	205	41.07			
W241AZ	FM	CLARKS SUMPA	PA	N41:28:02	W075:41:09	241 : 96.1 MDX	LIC	0	6.60	0.09	229	Co-Chan	6.60	346	6.60			
WCBF	FM	ELMIRA	NY	N42:07:51	W076:47:23	241 : 96.1 MA	LIC	115	8.06	1.30	216	Co-Chan	123.06	311	31.06			
WVOS-FM	FM	LIBERTY	NY	N41:45:09	W074:42:58	240 : 95.9 MA	LIC	72	15.96	6.00	100	1st Adj	87.96	064	38.96			
W241BB	FM	WILKES-BAR	PA	N41:11:11	W075:51:30	241 : 96.1 MDX	LIC	0	29.51	0.00	252	Co-Chan	29.51	213	29.51			
WVPO	FM	LEHMAN TO	PA	N41:07:53	W074:58:42	244 : 96.7 MA	LIC	31	34.42	5.00	70	3rd Adj	65.42	118	40.42			
WPKF	FM	POUGHKEEP	NY	N41:44:16	W073:54:17	241 : 96.1 MA	LIC	115	36.41	3.50	81	Co-Chan	151.41	076	59.41			
W294BJ	FM	HONESDALE	PA	N41:33:14	W075:15:15	294 : 106.7 DX	LIC	0	37.99	0.25	54	IF	37.99	065	37.99			
WXNY-FM	FM	NEW YORK	NY	N40:44:54	W073:59:07	242 : 96.3 MB	LIC	113	46.23	6.00	415	1st Adj	159.23	117	63.23			
WJSA-FM	FM	JERSEY SHO	PA	N41:13:45	W077:22:00	242 : 96.3 MB1	LIC	96	47.74	2.65	306	1st Adj	143.74	262	71.74			
WODZ-FM	FM	ROME	NY	N43:08:39	W075:10:42	241 : 96.1 MB1	LIC	143	53.87	7.40	184	Co-Chan	196.87	012	77.87			
W295CV	FM	HAZLETON	PA	N40:58:10	W075:57:22	295 : 106.9 DX	LIC	0	54.55	0.00	0	IF	54.55	206	54.55			
WLDM-LP	FM	SANITARIA S	NY	N42:09:18	W075:51:34	239 : 95.7 ML1	LIC	29	55.34	0.09	31	2nd Adj	84.34	349	55.34			
WPGM-F	FM	DANVILLE	PA	N40:59:16	W076:32:48	244 : 96.7 MA	LIC	31	56.42	0.57	233	3rd Adj	87.42	238	62.42			
WCDW	FM	PORT DICKIN	NY	N42:03:22	W075:56:37	294 : 106.7 A	LIC	10	65.44	1.20	221	IF	75.44	342	65.44			
WYNE-LP	FM	WAYNE	NJ	N40:59:48	W074:16:46	240 : 95.9 ML1	LIC	56	69.07	0.03	57	1st Adj	125.07	112	69.07			
WJIH-LP	FM	ONEONTA	NY	N42:26:47	W075:02:28	240 : 95.9 ML1	LIC	56	70.32	0.10	0	1st Adj	126.32	024	70.32			
WJIH-LP	FM	ONEONTA	NY	N42:26:47	W075:02:28	240 : 95.9 ML1	LIC	56	70.32	0.05	-135	1st Adj	126.32	024	70.32			
W295AQ	FM	MILFORD	PA	N41:20:23	W074:47:26	295 : 106.9 DX	LIC	0	73.70	0.25	59	IF	73.70	096	73.70			
W242CY	FM	BERWICK	PA	N41:00:28	W076:22:17	242 : 96.3 MDX	LIC	0	74.03	0.25	0	1st Adj	74.03	233	6.03			
W238CM	FM	ENDICOTT, E	NY	N42:06:56	W076:03:38	238 : 95.5 MDX	LIC	0	84.97	0.10	0	3rd Adj	84.97	337	84.97			
WNJI-LP	FM	MAPLEWOO	NJ	N40:45:41	W074:13:19	240 : 95.9 ML1	LIC	56	85.14	0.05	39	1st Adj	141.14	121	85.14			
WZYE-LP	FM	MAPLEWOO	NJ	N40:45:40	W074:13:18	240 : 95.9 ML1	LIC	56	85.16	0.04	48	1st Adj	141.16	121	85.16			
WTDY-FM	FM	PHILADELPHIA	PA	N40:02:31	W075:14:08	243 : 96.5 MB	LIC	69	87.16	9.60	338	2nd Adj	156.16	167	93.16			
WBEN-FM	FM	PHILADELPHIA	PA	N40:02:22	W075:14:10	239 : 95.7 MB	LIC	69	87.42	8.90	350	2nd Adj	156.42	167	93.42			
WPLJ	FM	NEW YORK	NY	N40:44:55	W073:59:07	238 : 95.5 MB	LIC	69	90.22	6.70	408	3rd Adj	159.22	117	96.22			
W294BQ	FM	EASTON	PA	N40:40:24	W075:12:27	294 : 106.7 DX	LIC	0	90.42	0.11	0	IF	90.42	155	90.42			
W295CR	FM	ALLENTOWN	PA	N40:35:34	W075:28:40	295 : 106.9 DX	LIC	0	92.08	0.10	0	IF	92.08	170	92.08			
WBYL	FM	SALLADASBUA	PA	N41:14:01	W077:12:08	238 : 95.5 MA	LIC	31	99.05	3.90	73	3rd Adj	130.05	261	105.05			

Contour Analysis

Kevin Fitzgerald
Job: W241AZ Scranton Tran Int.fmj
Master Database: 2023_Jun_30.fmd
Lat: N41:24:34 Lon: W075:40:00 NAD-83
Scale: 1:600000
Channel: 241 Class: DX
Status: Licensed, Construction Permit, Application, Addition, Temp Authority, Vacant/Reserved, Deleted
Channels:
Range: 100 km, Clearance: -0.5km
Comments: No Comments
Description: W241AZ Scranton TT Translator Interference Analysis

rfInvestigator Version 3.8.16
by rfSoftware, Inc.
Date: 2/19/2024 1:18:49 PM
Key:
City Grade
Protected
Co-Channel
1st Adj
2nd/3rd Adj

