

SPACING NARRATIVE

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 as exhibits 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 three other FM facilities. The attached maps and the Section 74.1204(d) showing demonstrate that there is no prohibited contour overlap between this facility and the instant proposed FM translator facilities. One FM translator has also been included in this study. As demonstrated in these maps no prohibited overlap with these stations is predicted.

The four facilities that have been included on the attached maps are: WBYN-FM, 107.5, Boyertown, PA (54 dBu contour to proposed 34 dBu interference contour); WEGH, 107.3, Northumberland, PA (60 dBu contour to proposed 54 dBu interference contour); WOTH, 107.9, Williamsport, PA (60 dBu contour to proposed 100 dBu interference contour); and W296AP, 107.1, Williamsport, PA (60 dBu contour to proposed 100 dBu interference contour).

W291DR 107.5 Muncy 74.1204(d) Study is included to show allowable overlap under Section 74.1204(d) with this proposal's 100 dBu interference contour and the 60 dBu coverage contours of WOTH and W296AP, Williamsport, 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, Technical Consultant

Kevin Fitzgerald
 Job: W291DR 107.5 Tran Int2.fmj
 Master Database: 2022_Nov_24.fmd
 Lat: N41:12:32 Lon: W076:57:30 NAD-83
 Channel: 298 Class: A

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 Date: 12/6/2022 1:34:29 AM
 rfInvestigator Version 3.8.16
 by rfSoftware, Inc.

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: W291DR, 107.5, Muncy, PA; Spacing Study; WBYNFM, WEGH, WOTH, and W296AP will be shown to be fully spaced.

Callsign	Ser	City	State	Latitude (NAD8)	Longitude (NA)	Channel	Clas	Stat	73	207	CIERP	HAAT	Adjacen	Distanc	Bear	73	215	CI
WBYN-FM	FM	BOYERTOWN	PA	N40:24:15	W075:39:06	298 : 107.5	B	LIC	178		-36.09	30.00	186	Co-Chan	141.91	129	-1.09	
WEGH	FM	NORTHUMBER	PA	N40:47:11	W076:41:47	297 : 107.3	A	LIC	72		-20.14	0.90	257	1st Adj	51.86	155	2.86	
WOTH	FM	WILLIAMSP	PA	N41:16:50	W076:50:01	300 : 107.9	A	LIC	31		-17.86	3.40	135	2nd Adj	13.14	053	-11.86	
W296AP	FM	WILLIAMSP	PA	N41:12:39	W076:57:15	296 : 107.1	DX	LIC	0		0.42	0.01	327	2nd Adj	0.42	057	0.42	
W296AP	FM	WILLIAMSP	PA	N41:13:05	W076:57:25	296 : 107.1	DX	LIC	0		1.01	0.00	327	2nd Adj	1.01	007	1.01	
WLRG-LP	FM	CORNING	NY	N42:08:31	W077:04:38	298 : 107.5	L1	LIC	92		12.12	0.00	197	Co-Chan	104.12	355	37.12	
WBBI	FM	ENDWELL	NY	N42:08:17	W075:59:57	298 : 107.5	A	LIC	115		15.52	2.20	166	Co-Chan	130.52	038	38.52	
WLGD	FM	DALLAS	PA	N41:18:54	W075:53:17	299 : 107.7	A	LIC	72		18.48	2.35	162	1st Adj	90.48	083	41.48	
WHMN-LP	FM	PLYMOUTH	PA	N41:14:21	W075:59:00	297 : 107.3	L1	LIC	56		25.84	0.01	95	1st Adj	81.84	088	25.84	
WCOH	FM	DU BOIS	PA	N41:14:09	W078:39:36	297 : 107.3	B	LIC	113		29.72	18.50	247	1st Adj	142.72	271	46.72	
WPGM-F	FM	DANVILLE	PA	N40:59:16	W076:32:48	244 : 96.7	MA	LIC	10		32.40	0.57	233	IF	42.40	125	32.40	
WLIH	FM	WHITNEYVIL	PA	N41:46:14	W077:12:06	296 : 107.1	A	LIC	31		34.59	3.30	91	2nd Adj	65.59	342	40.59	
WLIH	FM	WHITNEYVIL	PA	N41:46:14	W077:12:06	296 : 107.1	A	LIC	31		34.59	3.30	91	2nd Adj	65.59	342	40.59	
WVSQ	FM	RENOVO	PA	N41:18:19	W077:44:43	295 : 106.9	A	LIC	31		35.82	0.90	188	3rd Adj	66.82	279	41.82	
WGTY	FM	GETTYSBUR	PA	N39:51:24	W076:56:55	299 : 107.7	B	LIC	113		37.17	16.00	259	1st Adj	150.17	180	54.17	
WECW	FM	ELMIRA	NY	N42:05:48	W076:48:58	299 : 107.7	DM	LIC	56		43.33	0.01	-103	1st Adj	99.33	007	43.33	
W245DB	FM	LOCK HAVEN	PA	N41:08:03	W077:28:07	245 : 96.9	MDX	LIC	0		43.62	0.25	0	IF	43.62	259	43.62	
WQJU	FM	MIFFLINTOW	PA	N40:34:21	W077:30:49	296 : 107.1	A	LIC	31		53.77	0.37	397	2nd Adj	84.77	214	59.77	
W299AF	FM	CATAWISSA	PA	N40:56:22	W076:25:27	299 : 107.7	DX	LIC	0		53.95	0.00	280	1st Adj	53.95	124	-14.05	
WKPA	FM	PORT MATIL	PA	N40:55:11	W077:58:26	300 : 107.9	A	LIC	31		60.20	0.45	358	2nd Adj	91.20	249	66.20	
W296CD	FM	JONESTOWN	PA	N41:06:51	W076:14:15	296 : 107.1	DX	LIC	0		61.42	0.01	0	2nd Adj	61.42	100	61.42	
W300BX	FM	WELLSBORO	PA	N41:44:51	W077:18:05	300 : 107.9	DX	LIC	0		66.34	0.00	0	2nd Adj	66.34	334	66.34	
WZBF	FM	RIDGEBURY	PA	N41:53:55	W076:43:06	245 : 96.9	MA	LIC	10		69.19	3.20	140	IF	79.19	015	69.19	
WBVE	FM	BEDFORD	PA	N40:00:47	W078:33:13	298 : 107.5	A	LIC	115		74.35	0.37	399	Co-Chan	189.35	225	97.35	
WBLS	FM	NEW YORK	NY	N40:44:54	W073:59:07	298 : 107.5	B	LIC	178		77.40	4.20	415	Co-Chan	255.40	102	112.40	
WZBF-FM	FM	TOWANDA	PA	N41:47:34	W076:26:01	245 : 96.9	MDB	LIC	0		78.26	0.00	0	IF	78.26	034	78.26	
WLKK	FM	WETHERSFIEN	NY	N42:37:26	W078:17:19	299 : 107.7	B	LIC	113		79.03	17.00	258	1st Adj	192.03	325	96.03	
WEZX	FM	SCRANTON	PA	N41:20:53	W075:39:00	295 : 106.9	A	LIC	31		79.69	1.45	188	3rd Adj	110.69	082	85.69	
WVNW	FM	BURNHAM	PA	N40:35:10	W077:41:38	244 : 96.7	MA	LIC	10		82.86	0.45	259	IF	92.86	222	82.86	
W298CR	FM	MEXICO	PA	N40:34:21	W077:30:48	298 : 107.5	DX	LIC	0		84.76	0.21	0	Co-Chan	84.76	214	84.76	
WKTW-LP	FM	LENHARTSVI	PA	N40:34:11	W075:53:55	296 : 107.1	L1	LIC	29		85.10	0.10	21	2nd Adj	114.10	128	85.10	
WMES-LP	FM	ALTOONA	PA	N40:31:04	W078:23:39	299 : 107.7	L1	LIC	56		87.34	0.10	0	1st Adj	143.34	238	87.34	
W300BT	FM	HAZLETON	PA	N40:58:09	W075:57:26	300 : 107.9	DX	LIC	0		88.23	0.25	0	2nd Adj	88.23	108	88.23	
W295CV	FM	HAZLETON	PA	N40:58:10	W075:57:22	295 : 106.9	DX	LIC	0		88.32	0.00	0	3rd Adj	88.32	108	88.32	
W297BG	FM	ULSTER	PA	N41:57:37	W076:32:55	297 : 107.3	DX	LIC	0		90.16	0.23	143	1st Adj	90.16	022	22.16	
W295BY	FM	ELMIRA	NY	N42:01:55	W076:47:00	295 : 106.9	DX	LIC	0		92.58	0.00	0	3rd Adj	92.58	009	92.58	

Contour Analysis

Kevin Fitzgerald
Job: W291DR 107.5 Tran Int.fmj
Master Database: 2022_Nov_24.fmd
Lat: N41:12:32 Lon: W076:57:30 NAD-83
Scale: 1:1000000
Channel: 298 Class: DX
Status: Licensed, Construction Permit, Application, Addition, Temp Authority, Vacant/Reserved, Deleted
Channels:
Range: 100 km, Clearance: -0.5km
Comments: No Comments
Description: W291DR, 107.5, Muncy, PA; Translator Interference Analysis; 250 watts DA

rfInvestigator Version 3.8.16
by rfSoftware, Inc.
Date: 12/6/2022 1:02:53 AM
Key:
City Grade
Protected
Ed-Channel
1st Adj
2nd/3rd Adj

