

W221EU
Mattoon Waiver to Provide
First Local Night Service to Major Portions of
Rural Todd, County, KY

§ 74.1233(a)(1) *Mattoon* waiver:

This application requests a *Mattoon Waiver* in accordance with the waiver granted for the move of W263AQ (DA-11-1495), see *The Cromwell Group, Inc. Of Illinois, Letter, 26 FCC Rcd (12685) (MB2011)*.

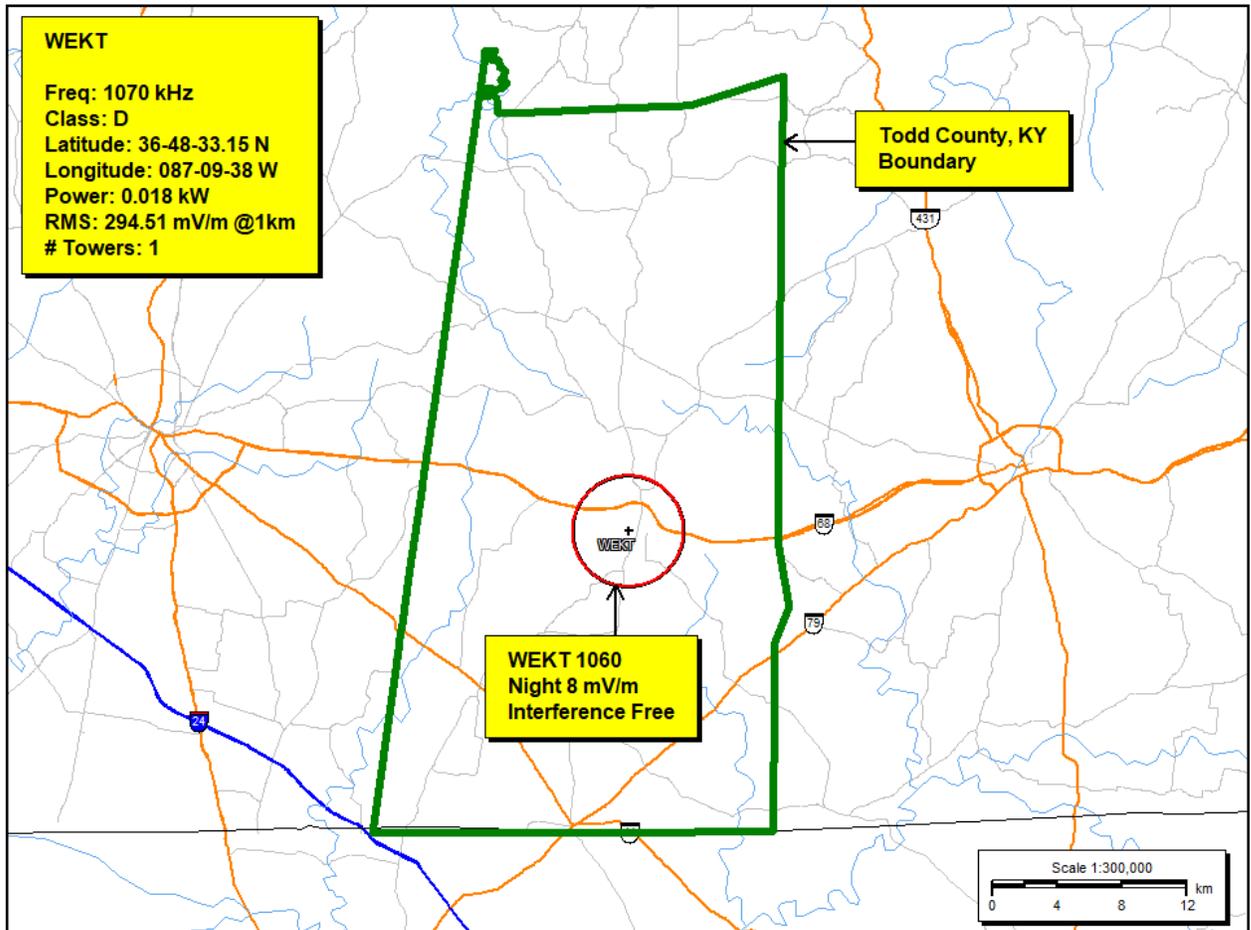
It is also noted that the previous changes to the W221EU facility were to an adjacent channel, increase in ERP and primary station change at its existing site which did not constitute a "hop". Several similar waivers have been granted (e.g. W222CZ among others).

The W221EU proposed co-channel 40 dBu F(50-10) contour overlaps the licensed 60 dBu F(50-50) contour (exhibit E-4).

This application of the *Mattoon Waiver* is a prime example of the reason it was established by Commission staff. In this case, the new licensee of WEKT(AM), the only aural service licensed to Todd county, seeks to establish new night service to the county to expand the very limited secondary 18 Watt AM night signal (see below). The new licensee is a native of Todd County and an award winning broadcaster recognized for her exemplary service to her stations' communities. Unfortunately, the prior WEKT(AM) licensee did not participate in any of the FM translator windows. Therefore, the *Mattoon Waiver* represents the only means of providing an FM translator's full-time service with its emergency alerts, news and high school sporting events.

It is also noted that the new licensee has initiated substantial local programming and established a new state of the art studio on the Elkton town square. Commission staff's

approval of this application will have a dramatic and lasting effect on this station's service.



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E-1 W221EU Mod. Overlap Study

REFERENCE CH# 221D - 92.1 MHz, Pwr= 0.25 kW DA, HAAT= 124.3 M, COR= 318.3 M DISPLAY DATES
 36 48 48.00 N. Average Protected F(50-50)= 14.31 km DATA 12-07-23
 87 06 42.00 W. Standard Directional SEARCH 12-13-23

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DI ST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
221A	WQOK	LIC_CN TN		150.7 330.9	65.70 BLH20130125ACM	36 17 50.20 86 45 11.00	3.500 133	72.7 319	21.1 Cumulus Licensing LLC	-19.0*	1.8
221A	WKYF	LIC_CN KY		297.6 117.1	88.92 BLED20080605ABV	37 10 51.10 88 00 04.00	4.600 114	81.4 261	25.8 Educational Media Foundati	-5.8	17.3
220A	WAPX-FM	LIC_NCN TN		215.6 35.4	37.72 BLED20050303AAB	36 32 13.20 87 21 26.00	6.000 59	30.1 207	20.3 Austin Peay State Universi	-3.7	0.8
221D	W221EU/W2 Central City	CP_CN KY		0.3 180.3	53.19 0000218520	37 17 30.50 87 06 31.10	0.120 189	26.6	7.9 Ham Broadcasting Company,	12.8	-0.6
221L1	WSGJ-LP	LIC_CN KY		70.4 250.8	62.74 BLL20170209ABN	37 00 04.50 86 26 46.20	0.100 2	170	29.9 Columbus Club, Inc.		9.4
223C	WBKR	LIC_CN KY		3.3 183.3	88.50 BLH19870121KD	37 36 29.20 87 03 15.00	100.000 320	10.5 453	73.9 Townsquare Media Of Evansv	63.8	13.4
222D	W222CZ	LIC_CN KY		99.7 280.0	48.37 0000222047	36 44 21.00 86 34 35.00	0.250 46	16.0 276	11.2 Newberry Broadcasting, Inc	18.1	15.7
221A	WTKY-FM	LIC_NCN KY		89.3 270.2	129.31 BLH20030318ADL	36 49 07.20 85 39 31.80	5.300 107	87.3 372	29.3 Frank Keeton Aircasters, I	27.7	51.3
219A	WWHR	LIC_CN KY		67.6 248.0	56.51 BLED20020813ABG	37 00 19.20 86 31 23.00	1.300 114	1.8 285	19.6 Western Kentucky Universi t	40.6	34.9
218D	W218CR	LIC_CN KY		0.3 180.3	53.18 0000162535	37 17 30.10 87 06 29.90	0.027	0.4 189	5.5 Ham Broadcasting Company,	38.8	46.6
218A	WNTC/WPDQ	APP_DHN TN		115.5 295.8	60.76 0000126979	36 34 36.10 86 29 49.90	1.600 72	1.7 305	18.4 Southern Wabash Communi cat	45.2	41.2
218A	WPDQ	CP_DHN TN		115.5 295.8	60.76 BPED20170526ABK	36 34 36.10 86 29 49.90	1.600 72	1.7 305	18.4 Southern Wabash Communi cat	45.2	41.3
223D	W223BV	LIC_CN TN		155.0 335.2	67.35 0000177663	36 15 49.80 86 47 38.90	0.250	1.1 526	22.8 Educational Media Foundati	54.5	43.6
219A	WNLJ	LIC_DCN KY		332.4 152.1	72.21 0000204868	37 23 17.50 87 29 26.80	6.000 74	2.4 206	24.7 Pennyri le Christian Commun	56.4	46.0

(1)

Terrain database is NED 30 Meter , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polari zation (C,H,V,E), Beamtil t(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

(1) Note overlap using NED 30 meter terrain, FCC 30 meter terrain or FCC 30 second terrain.

E-4 W221EU Mod. Mattoon Overlap Plot

W221EU Mod.
0000218520
Latitude: 36-48-48 N
Longitude: 087-06-42 W
ERP: 0.25 kW
Channel: 221
Frequency: 92.1 MHz
AMSL Height: 318.3 m
Elevation: 247.3 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

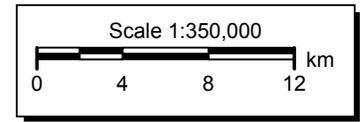
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W221EU Lic.
60 F(50-50) dBu Contour

W221EU Mod.
40 F(50-10) dBu Contour

Mattoon Overlap



W221EU Mod.