



Request for Special Temporary Authority

February 11, 2019

WCBZ-CD in Columbus, Ohio is scheduled to move from RF channel 28 to RF channel 18 in Phase 2 of the Spectrum Repack. WKEF-DT in Dayton, Ohio is currently operating on RF channel 18, moving to RF channel 34 in Phase 6 of the Spectrum Repack.

When WCBZ-CD moves to RF channel 18, we will cause interference to WKEF-DT since we will be operating on the same RF channel. At the advice of FCC staff, WCBZ-CD is requesting Special Temporary Authority to operate at 9 KW ERP instead of 15 KW ERP as permitted in Construction Permit 34600 until WKEF-DT vacates RF channel 18. Operating at this power level will cause 1.99% interference to WKEF which is allowed during the Spectrum Repack. A copy of the data file provided by FCC staff is attached.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Mark Hiner'.

Mark Hiner

President

WCBZ-CD TV22
P.O. Box 325 • Etna, Ohio 43018
www.yourtv22.com • (614) 547-1722

tvstudy v2.2.5 (iIRFq2)
Database: localhost, Study: WCBZ18-9ND-App, Model: Longley-Rice
Start: 2018.09.14 15:01:19

Study created: 2018.09.14 15:01:19

Study build station data: LMS TV 2018-09-04

Proposal: WCBZ-CD D18 DC APP Columbus, OH
File number: WCBZ18-9ND-App
Facility ID: 1104
Station data: User record
Record ID: 361
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect LPTV records from Class A

Search options:
Baseline record excluded if station has CP
All post-transition APP, CP, and baseline records excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WOOH-LP	N16-	TX	LIC	ZANESVILLE, OH	BLTT20021211AAM	88.7 km
No	WEIJ-LD	D17	LD	APP	FORT WAYNE, IN	BLANK0000054397	216.4
No	WODP-LD	D17	LD	APP	FORT WAYNE, IN	BLANK0000052702	212.8
No	WKYC	D17	DT	LIC	CLEVELAND, OH	BLCDT20090619ADC	178.4
Yes	WDEM-CD	D17	DC	LIC	COLUMBUS, OH	BLDTA20090223ACT	16.5
Yes	W44DC-D	D17	LD	APP	COLUMBUS, OH	BLANK0000054287	16.5
No	W23DE-D	D17	LD	APP	LIMA, OH	BLANK0000051874	124.5
No	WQCW	D17	DT	LIC	PORTSMOUTH, OH	BLCDT20100422ABY	190.8
No	W30CO-D	D17	LD	APP	WHEELING, WV	BLANK0000054635	189.7
No	NEW	D18	LD	APP	DELPHI, IN	BNPDTL20100510ADO	337.5
No	WISE-TV	D18	DT	LIC	FORT WAYNE, IN	BLCDT20091103ACK	215.8
No	WJTS-CD	D18	DC	LIC	JASPER, IN	BLDTL20090212ABK	386.4
No	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLDT20040803AAG	452.7
No	WDWO-CD	D18	DC	LIC	DETROIT, MI	BLDTA20130108ABZ	264.7
Yes	WKEF	D18	DT	LIC	DAYTON, OH	BLANK0000004293	116.9
No	WLQP-LP	N18z	TX	LIC	LIMA, OH	BLTTL19990407JA	118.8
Yes	W43CZ-D	D18	LD	APP	MANSFIELD, OH	BLANK0000053016	78.3

No	WOIO	D18	LD	APP	SHAKER HEIGHTS, OH	BLANK0000054106	158.4
No	WSSS-LP	D18z	LD	APP	STEUBENVILLE, OH	BLANK0000054719	204.9
No	WDTJ-LD	D18	LD	LIC	TOLEDO, OH	BLDTL20121219ABP	177.5
No	WDBJ	D18	DT	LIC	ROANOKE, VA	BLANK0000055470	406.8
No	W19DT-D	D19	LD	CP	FORT WAYNE, IN	BNPDTL20091228AAW	202.8
No	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLANK0000052505	16.5
No	WFND-LD	D19	LD	LIC	FINDLAY, OH	BLANK0000055157	124.2
No	WYFX-LD	D19	LD	LIC	YOUNGSTOWN, OH	BLDTL20110329AAF	223.3
No	WVAH-TV	D19	DT	LIC	CHARLESTON, WV	BLCDT20050621AAV	211.2
No	WLWD-LD	N20+	TX	LIC	SPRINGFIELD, OH	BLTT20051219ADW	76.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
 Mask: Full Service
 Latitude: 40 6 53.80 N (NAD83)
 Longitude: 82 58 55.30 W
 Height AMSL: 365.4 m
 HAAT: 0.0 m
 Peak ERP: 9.00 kW
 Antenna: Omnidirectional
 Elev Pattn: Generic
 Elec Tilt: 1.00

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	9.00 kW	85.6 m	40.5 km
45.0	9.00	88.7	40.9
90.0	9.00	77.5	39.3
135.0	9.00	109.7	43.4
180.0	9.00	100.7	42.4
225.0	9.00	110.6	43.4
270.0	9.00	99.2	42.2
315.0	9.00	90.6	41.2

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 95 m

Proposal 24.15 dBu contour does not cross Canadian border

Distance to Canadian border: 175.4 km

Distance to Mexican border: 2021.0 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 319.1 degrees Distance: 371.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 277.3 degrees Distance: 1885.2 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLDTA20090223ACT LIC scenario 1
**IX: 1.55% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDEM-CD	D17	DC	LIC	COLUMBUS, OH	BLDTA20090223ACT	
Undesireds:	WCBZ-CD	D18	DC	APP	Columbus, OH	WCBZ18-9ND-App	16.5 km
	WKYC	D17	DT	LIC	CLEVELAND, OH	BLCDT20090619ADC	193.6
	WQCW	D17	DT	LIC	PORTSMOUTH, OH	BLCDT20100422ABY	177.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
2180.7	1,190,103	2180.7	1,190,103	2142.6	1,168,039	2102.5 1,149,984	1.87 1.55
Undesired		Total IX		Unique IX, before		Unique IX, after	
WCBZ-CD	D18 DC APP	48.1	18,231			40.1 18,055	
WKYC	D17 DT LIC	9.1	10,462	5.0	10,404	5.0 10,404	
WQCW	D17 DT LIC	33.1	11,660	29.1	11,602	21.1 11,426	

Interference to BLANK0000054287 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W44DC-D	D17	LD	APP	COLUMBUS, OH	BLANK0000054287	
Undesireds:	WCBZ-CD	D18	DC	APP	Columbus, OH	WCBZ18-9ND-App	16.5 km
	WOOH-LP	D16	LD	APP	ZANESVILLE, OH	BDFCDTT20060330ADJ	90.7
	W23DE-D	D17	LD	APP	LIMA, OH	BLANK0000051874	131.6
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	5575.2 1,609,326		5550.0 1,606,184		5544.0 1,605,877	5543.0 1,605,696	0.02 0.01
Undesired				Total IX	Unique IX, before	Unique IX, after	
WCBZ-CD D18 DC APP			1.0	181		1.0 181	
W23DE-D D17 LD APP			6.1	307	6.1 307	6.1 307	

Interference to BLANK0000004293 LIC scenario 1

**IX: 1.99% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKEF	D18	DT	LIC	DAYTON, OH	BLANK0000004293	
Undesireds:	WCBZ-CD	D18	DC	APP	Columbus, OH	WCBZ18-9ND-App	116.9 km
	WISE-TV	D18	DT	LIC	FORT WAYNE, IN	BLCDT20091103ACK	172.2
	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLANK0000052505	108.3
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	29629.1 3,623,588		29372.2 3,615,017		25955.6 3,466,044	24009.0 3,397,075	7.50 1.99
Undesired				Total IX	Unique IX, before	Unique IX, after	
WCBZ-CD D18 DC APP			2762.9	110,715		1946.6 68,969	
WISE-TV D18 DT LIC			2884.7	115,182	2857.6 112,233	2589.3 106,988	
WCLL-CD D19 DC LIC			558.9	36,740	531.9 33,791	7.0 126	

Interference to BLANK0000053016 APP scenario 1

**MX: 6.98% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W43CZ-D	D18	LD	APP	MANSFIELD, OH	BLANK0000053016	

Undesireds:	WCBZ-CD	D18	DC	APP	Columbus, OH	WCBZ18-9ND-App	78.3 km
	WOIO	D18	LD	APP	SHAKER HEIGHTS, OH	BLANK0000054106	85.6
	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLANK0000052505	94.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6781.5 363,451	6572.1 357,538	5939.3 327,756	5356.8 304,867	9.81 6.98

Undesired	Total IX	Unique IX, before	Unique IX, after
WCBZ-CD D18 DC APP 609.5 23,639	582.5 22,889		
WOIO D18 LD APP 630.8 29,776	630.8 29,776		
WCLL-CD D19 DC LIC 2.0 6	2.0 6	0.0 0	

Interference to proposal scenario 1
6.66% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCBZ-CD	D18	DC	APP	Columbus, OH	WCBZ18-9ND-App	
Undesireds:	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLANK0000052505	16.5 km

Service area	Terrain-limited	IX-free	Percent IX
5455.2 1,553,542	5438.2 1,553,182	4692.7 1,449,762	13.71 6.66

Undesired	Total IX	Unique IX	Prcnt Unique IX
WCLL-CD D19 DC LIC 745.4 103,420	745.4 103,420	13.71 6.66	