

INTERFERENCE ANALYSIS FOR PROPOSED WNPX-TV COOKEVILLE, TN (CHANNEL 32)

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: wnp32m1, Model: Longley-Rice

Study build station data: LMS TV 2017-10-24 (75)

Proposal: WNPX32M1 D32 DT APP COOKEVILLE, TN
File number: wnp32m1
Facility ID: 28468
Station data: User record
Record ID: 1591
Country: U.S.
Zone: II

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WKMA-TV	D31	DT	CP	MADISONVILLE, KY	BLANK0000025302	120.7 km
WKMA-TV	D31	DT	BL	MADISONVILLE, KY	DTVBL34212	120.7
WSB-TV	D32	DT	CP	ATLANTA, GA	BLANK0000025134	355.7
WSB-TV	D32	DT	BL	ATLANTA, GA	DTVBL23960	355.7
WDRB	D32	DT	CP	LOUISVILLE, KY	BLANK0000028598	246.1
WDRB	D32	DT	BL	LOUISVILLE, KY	DTVBL28476	246.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D32
Latitude: 36 16 4.90 N (NAD83)
Longitude: 86 47 44.70 W
Height AMSL: 612.7 m
HAAT: 427.0 m
Peak ERP: 1000 kW
Antenna: DIE-TFU-18DSC/VP-R S190 (ID 1001607) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.9

40.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	533 kW	372.2 m	99.1 km
45.0	826	425.8	107.7
90.0	1000	453.0	112.1
135.0	826	450.8	109.9
180.0	533	458.6	106.1
225.0	92.4	462.1	91.0
270.0	173	408.9	92.6
315.0	92.4	386.5	86.8

ERP exceeds maximum
ERP: 1000 kW ERP maximum: 742 kW (Proposal is compliant with the 'largest station in the market' rule.)

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 698.3 km

Distance to Mexican border: 1493.9 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 144.2 degrees Distance: 327.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 290.5 degrees Distance: 1662.4 km

Study cell size: 2.00 km
Profile point spacing: 0.50 km (Higher resolution terrain profile point spacing requested.)

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

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Scenario comparisons

Case		Before		After		Percent New IX
IX_BLANK0000025302_C	15484.6	446,647	15440.9	446,321	0.28	0.07
IX_BLANK0000025302_C	15488.5	446,647	15444.8	446,321	0.28	0.07
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IX_BLANK0000025302_C	15484.6	446,647	15440.9	446,321	0.28	0.07
IX_DTBL34212_BL_#1	15448.8	445,137	15413.1	444,971	0.23	0.04
IX_DTBL34212_BL_#2	15448.8	445,137	15413.1	444,971	0.23	0.04
IX_DTBL34212_BL_#3	15448.8	445,137	15413.1	444,971	0.23	0.04
IX_DTBL34212_BL_#4	15448.8	445,137	15413.1	444,971	0.23	0.04
IX_DTBL34212_BL_#5	15448.8	445,137	15413.1	444,971	0.23	0.04
IX_DTBL34212_BL_#6	15448.8	445,137	15413.1	444,971	0.23	0.04
IX_DTBL34212_BL_#7	15448.8	445,137	15413.1	444,971	0.23	0.04
IX_DTBL34212_BL_#8	15448.8	445,137	15413.1	444,971	0.23	0.04
IX_BLANK0000025134_C	28700.8	5,785,789	28672.9	5,782,122	0.10	0.06
IX_BLANK0000025134_C	28688.8	5,785,599	28660.9	5,781,932	0.10	0.06
IX_BLANK0000025134_C	28712.8	5,793,853	28684.9	5,790,186	0.10	0.06
IX_BLANK0000025134_C	28700.8	5,793,663	28672.8	5,789,996	0.10	0.06
IX_DTBL23960_BL_#1	28700.8	5,781,031	28672.9	5,780,040	0.10	0.02
IX_DTBL23960_BL_#2	28688.8	5,780,841	28660.9	5,779,850	0.10	0.02
IX_DTBL23960_BL_#3	28712.8	5,789,380	28684.9	5,788,389	0.10	0.02
IX_DTBL23960_BL_#4	28700.8	5,789,190	28672.9	5,788,199	0.10	0.02
IX_BLANK0000028598_C	32336.2	1,956,041	32220.8	1,952,580	0.36	0.18
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IX_BLANK0000028598_C	32332.2	1,956,041	32216.8	1,952,580	0.36	0.18
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IX_DTBL28476_BL_#1	32332.3	1,956,029	32220.8	1,952,672	0.34	0.17
IX_DTBL28476_BL_#2	32332.3	1,956,029	32220.8	1,952,672	0.34	0.17
IX_DTBL28476_BL_#3	32332.3	1,956,029	32220.8	1,952,672	0.34	0.17
IX_DTBL28476_BL_#4	32332.3	1,956,029	32220.8	1,952,672	0.34	0.17
IX_DTBL28476_BL_#5	32332.3	1,956,029	32220.8	1,952,672	0.34	0.17
IX_DTBL28476_BL_#6	32332.3	1,956,029	32220.8	1,952,672	0.34	0.17
IX_DTBL28476_BL_#7	32332.3	1,956,029	32220.8	1,952,672	0.34	0.17
IX_DTBL28476_BL_#8	32332.3	1,956,029	32220.8	1,952,672	0.34	0.17
IX_DTBL28476_BL_#9	32328.3	1,956,018	32220.8	1,952,679	0.33	0.17
IX_DTBL28476_BL_#10	32328.3	1,956,018	32220.8	1,952,679	0.33	0.17
IX_DTBL28476_BL_#11	32328.3	1,956,018	32220.8	1,952,679	0.33	0.17
IX_DTBL28476_BL_#12	32328.3	1,956,018	32220.8	1,952,679	0.33	0.17
IX_DTBL28476_BL_#13	32328.3	1,956,018	32220.8	1,952,679	0.33	0.17
IX_DTBL28476_BL_#14	32328.3	1,956,018	32220.8	1,952,679	0.33	0.17
IX_DTBL28476_BL_#15	32328.3	1,956,018	32220.8	1,952,679	0.33	0.17
IX_DTBL28476_BL_#16	32328.3	1,956,018	32220.8	1,952,679	0.33	0.17