Minor Modification

Study created: 2022.06.27 10:15:05

Study build station data: LMS TV 2022-06-23

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    Proposal: W22FH-D D22 LD CP FORT WAYNE, IN
 File number: asr 1053037 100w @270
 Facility ID: 183929
Station data: User record
   Record ID: 1157
     Country: U.S.
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Build options:
Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WJYS	D21	DT	LIC	HAMMOND, IN	BLANK0000087539	237.8 km
No	WFYI	D21	DT	LIC	INDIANAPOLIS, IN	BLEDT20100803ADB	165.2
No	WZPX-TV	D21	DT	LIC	BATTLE CREEK, MI	BLANK0000087609	171.6
No	WWJ-TV	D21	DT	LIC	DETROIT, MI	BLANK0000125983	215.2
No	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	206.0
No	WRJK-LP	N22-	TX	LIC	ARLINGTON HEIGHTS, IL	BLTT19991020AAO	275.4
No	WLS-TV	D22	DT	CP	CHICAGO, IL	BLANK0000086908	237.8
No	WBUI	D22	DT	LIC	DECATUR, IL	BLCDT20091119ACF	347.8
No	WTVW	D22	DT	LIC	EVANSVILLE, IN	BLANK0000087257	394.5
No	WXIN	D22	DT	LIC	INDIANAPOLIS, IN	BLANK0000153400	166.2
No	W22DW-D	D22	LD	CP	LAFAYETTE, IN	BLANK0000036239	176.1
No	WCVN-TV	D22	DT	LIC	COVINGTON, KY	BLANK0000087399	230.2
No	WDWO-CD	D22	DC	CP	DETROIT, MI	BLANK0000127531	210.2
No	WDWO-CD	D22	DC	LIC	DETROIT, MI	BLANK0000074926	210.2
No	WLLA	D22	DT	LIC	KALAMAZOO, MI	BLANK0000122579	170.7
No	WKNX-LD	D22z	LD	CP	PINCONNING, MI	BLANK0000158199	283.5
No	WKNX-LD	D22z	LD	LIC	PINCONNING, MI	BLANK0000150929	299.1
No	WKNX-LD	N22z	TX	LIC	PINCONNING, MI	BLTTL20030714AEI	304.0
No	WPBN-TV	D22	LD	LIC	TRAVERSE CITY, MI	BLANK0000143350	361.4
No	WVPX-TV	D22	DT	LIC	AKRON, OH	BLANK0000080180	284.9
No	WBGU-TV	D22	DT	LIC	BOWLING GREEN, OH	BLANK0000063785	91.3
No	DDW22DE	N22+	TX	APP	DAYTON, OH	BLTTL20100511AAU	162.1
No	WOCB-CD	D22	DC	LIC	MARION, OH	BLANK0000072129	183.9
No	WTAE-TV	D22	LD	LIC	PITTSBURGH, PA	BLANK0000088086	429.0
No	WFRV-TV	D22	DT	LIC	GREEN BAY, WI	BLANK0000163103	437.4
No	WISC-TV	D22	LD	APP	MADISON, WI	BLANK0000152659	387.0
No	WSAZ-TV	D22	DT	LIC	HUNTINGTON, WV	BLANK0000167829	370.0
No	WCIU-TV	D23	DT	LIC	CHICAGO, IL	BLANK0000102906	237.8
No	WCUH-LD	D23	LD	LIC	FORT WAYNE, IN	BLANK0000142031	13.2
No	WDTI	D23	DT	LIC	INDIANAPOLIS, IN	BLANK0000118661	165.9
No	WBSF	D23	DT	LIC	BAY CITY, MI	BLANK0000185118	260.8
No	WUDT-LD	D23	LD	LIC	Detroit, MI	BLANK0000007868	215.2
No	WXMI	D23	LD	LIC	GRAND RAPIDS, MI	BLANK0000090140	136.3
No	WWHO	D23	DT	LIC	CHILLICOTHE, OH	BLANK0000129743	208.7
No	WNWO-TV	D23	DT	LIC	TOLEDO, OH	BLANK0000123861	151.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D22
       Mask: Simple
   Latitude:  41  4  4.70 N (NAD83)
  Longitude:  84 59 35.30 W
Height AMSL: 242.8 m (Adjusted based on actual ground elevation calculation)
       HAAT: 0.0 m
   Peak ERP: 0.100 kW
    Antenna: SBP-UPSL (ID 100733) 270.0 deg
Elev Pattrn: Generic
```

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	1.8 m	2.3 km
45.0	0.000	17.0	2.3
90.0	0.000	9.9	2.3
135.0	0.000	3.2	2.3
180.0	0.000	-5.7	2.3
225.0	0.023	3.5	7.2
270.0	0.100	6.3	10.3
315.0	0.023	3.0	7.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 5 m

Proposal 24.56 dBu contour does not cross Canadian border
Distance to Canadian border: 183.0 km

Distance to Mexican border: 1939.7 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 335.3 degrees Distance: 188.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 273.2 degrees Distance: 1706.4 km

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%

---- Below is IX received by proposal asr 1053037 100w @270 ----

Proposal receives 82.14% interference from scenario 1
No IX check failures found.

W22FH-D.C
BNPDTL-20091218AFM
Latitude: 41-04-16.40 N
Longitude: 085-02-27.50 W
ERP: 3.00 kW
Channel: 22
Frequency: 521.0 MHz
AMSL Height: 280.3 m
Elevation: 232.3 m
Horiz. Pattern: Directional
Vert. Pattern: Yes
Elec Tilt: 0.0
Mech Tilt: 2.0
Tilt Azi: 325.0
Prop Model: Longley-Rice
Climate: Cont temperate
Conductivity: 0.0050
Dielec Const: 15.0
Refractivity: 311.0
Receiver Ht AG: 10.0 m
Receiver Gain: 0 dB
Time Variability: 90.0%
Sit. Variability: 50.0%
ITM Mode: Broadcast

Line of Sight

