



Licensing and Management System Admin

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Study complete

Interference check study for BLANK0000213075 WLOS D13 DT APP *P ASHEVILLE, NC

Study created: 2023.05.12 12:59:34

Study build station data: LMS TV live server

Proposal: WLOS D13 DT APP *P ASHEVILLE, NC
 File number: BLANK0000213075
 Facility ID: 56537
 Station data: LMS TV live server
 Record ID: 25076ff387de8c4a01880131811e0c41
 Country: U.S.
 Zone: II

Search options:

Non-U.S. records included

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WMAZ-TV	D13	DT	LIC	MACON, GA	BLCDT20090617AAN	289.8 km
Yes	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	355.6
Yes	WBKO	D13	DT	CP	BOWLING GREEN, KY	BLANK0000035946	404.3
Yes	WBKO	D13	DT	LIC	BOWLING GREEN, KY	BLCDT20090423ABM	404.3
Yes	WBTW	D13	DT	LIC	FLORENCE, SC	BLCDT20090612AIR	309.5
Yes	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	251.2
Yes	WBRA-TV	D13	DT	CP	ROANOKE, VA	BLANK0000213023	307.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D13
 Latitude: 35 13 20.00 N (NAD83)
 Longitude: 82 32 58.00 W
 Height AMSL: 1255.8 m
 HAAT: 552.0 m
 Peak ERP: 144 kW
 Antenna: Dielectric-THV-7A13/VP-R C150 (ID 1010702) 0.0 deg
 Elev Pattn: Generic
 Elec Tilt: 1.50

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	142 kW	568.4 m	139.1 km
45.0	141	596.9	140.7
90.0	86.9	511.8	128.2

135.0	33.7	691.3	128.5
180.0	31.4	649.5	126.0
225.0	78.2	406.4	118.3
270.0	139	497.8	132.7
315.0	142	490.9	132.4

ERP exceeds maximum

ERP: 144 kW ERP maximum: 39.7 kW

Distance to Canadian border: 717.5 km

Distance to Mexican border: 1713.7 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 233.4 degrees Distance: 249.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 292.1 degrees Distance: 2061.5 km

Study cell size: 1.00 km

Profile point spacing: 0.20 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 BLANK0000213075 -----

Proposal receives 2.35% interference from scenario 1

Proposal receives 2.35% interference from scenario 2

No IX check failures found.

Output Files:

log.txt
tvstudy.txt
tvixstudy.txt
tvixcontour.csv
tvixcontour.kml
tvstudy_settings.txt

Study Logs:

```
0:00:00.001 - Starting study build
0:00:00.785 - Searching for protected stations
0:00:20.175 - Found 7 records
0:00:20.175 - Checking proposal interference
0:00:20.303 - Log re-opened 2023.05.12 12:59:54.756
0:00:20.303 - Study open for studyKey=17997 IxCheck17986
0:00:20.308 - Running preliminary record checks
0:00:20.363 - Updating database records
0:00:20.384 - Updating caches
0:00:20.388 - Loading scenarioKey=2
0:00:20.528 - Updating caches
0:00:20.528 - Running scenario probe
0:00:20.528 - Building study grid
0:00:24.651 - Calculating 63763 new fields
0:00:31.912 - Updating caches
0:00:31.963 - Building study grid
0:00:52.898 - Calculating 117977 new fields
0:01:02.612 - Updating caches
0:01:02.720 - Building study grid
0:01:06.640 - Calculating 60530 new fields
0:01:09.145 - Updating caches
0:01:09.190 - Building study grid
0:01:13.726 - Calculating 80936 new fields
0:01:19.383 - Updating caches
0:01:19.452 - Building study grid
0:01:25.545 - Calculating 97458 new fields
0:01:32.204 - Updating caches
0:01:32.268 - Study closed
0:01:32.269 - Log closed
0:01:32.335 - 7 records with interference from proposal
0:01:32.336 - Searching for undesireds to WMAZ-TV D13 LIC
0:01:51.587 - Searching for undesireds to WTSF D13 LIC
0:01:52.528 - Searching for undesireds to WBKO D13 CP
0:01:52.942 - Searching for undesireds to WBKO D13 LIC
0:01:52.958 - Searching for undesireds to WBTW D13 LIC
0:01:53.234 - Searching for undesireds to WRCB D13 LIC
0:01:53.381 - Searching for undesireds to WBRA-TV D13 CP
0:01:53.397 - Searching for undesireds to proposal
0:01:53.413 - Checking undesired interference
0:01:53.573 - Log re-opened 2023.05.12 13:01:28.027
0:01:53.573 - Study open for studyKey=17997 IxCheck17986
0:01:53.577 - Running preliminary record checks
0:01:53.654 - Updating database records
0:01:53.695 - Updating caches
0:01:53.699 - Loading scenarioKey=3
0:01:53.704 - Updating caches
0:01:53.704 - Running scenario BLCDT20090617AAN_LIC
0:01:53.704 - Building study grid
0:01:53.752 - Read 32844 fields from cache
0:01:53.752 - Calculating 61746 new fields
```

0:02:03.811 - Updating caches
0:02:03.865 - Loading scenarioKey=4
0:02:03.867 - Updating caches
0:02:03.867 - Running scenario BLANK0000117277_LIC
0:02:03.867 - Building study grid
0:02:03.900 - Read 22183 fields from cache
0:02:03.900 - Calculating 45043 new fields
0:02:09.950 - Updating caches
0:02:09.982 - Loading scenarioKey=5
0:02:09.984 - Updating caches
0:02:09.984 - Running scenario BLANK0000035946_CP
0:02:09.984 - Building study grid
0:02:10.045 - Read 31111 fields from cache
0:02:10.046 - Calculating 65963 new fields
0:02:19.285 - Updating caches
0:02:19.334 - Loading scenarioKey=6
0:02:19.335 - Updating caches
0:02:19.335 - Running scenario BLCDT20090423ABM_LIC
0:02:19.335 - Building study grid
0:02:19.384 - Read 91879 fields from cache
0:02:19.422 - Loading scenarioKey=7
0:02:19.423 - Updating caches
0:02:19.423 - Running scenario BLCDT20090612AIR_LIC
0:02:19.423 - Building study grid
0:02:19.468 - Read 47751 fields from cache
0:02:19.469 - Calculating 24753 new fields
0:02:23.834 - Updating caches
0:02:23.890 - Loading scenarioKey=8
0:02:23.893 - Updating caches
0:02:23.893 - Running scenario BLANK0000212015_LIC
0:02:23.893 - Building study grid
0:02:23.935 - Read 34914 fields from cache
0:02:23.935 - Calculating 70450 new fields
0:02:32.091 - Updating caches
0:02:32.144 - Loading scenarioKey=9
0:02:32.146 - Updating caches
0:02:32.146 - Running scenario BLANK0000213023_CP
0:02:32.146 - Building study grid
0:02:32.237 - Read 51738 fields from cache
0:02:32.238 - Calculating 132392 new fields
0:02:52.465 - Updating caches
0:02:52.551 - Loading scenarioKey=10
0:02:52.582 - Updating caches
0:02:52.582 - Running scenario Proposal
0:02:52.582 - Building study grid
0:03:04.113 - Read 1318 fields from cache
0:03:04.115 - Calculating 179414 new fields
0:03:22.848 - Updating caches
0:03:22.952 - Study closed
0:03:22.952 - Log closed
0:03:23.058 - Building IX scenarios for WMAZ-TV D13 LIC
0:03:23.058 - Building IX scenarios for WTSF D13 LIC

0:03:23.058 - Building IX scenarios for WBKO D13 CP
0:03:23.058 - Building IX scenarios for WBKO D13 LIC
0:03:23.058 - Building IX scenarios for WBTW D13 LIC
0:03:23.058 - Building IX scenarios for WRCB D13 LIC
0:03:23.058 - Building IX scenarios for WBRA-TV D13 CP
0:03:23.058 - Building MX scenarios
0:03:25.718 - Build complete, saving study
0:03:25.933 - Done
0:03:25.949 - Log re-opened 2023.05.12 13:03:00.403
0:03:25.949 - Study open for studyKey=17997 IxCheck17986
0:03:25.953 - Running preliminary record checks
0:03:25.957 - Loading scenarioKey=1
0:03:25.994 - Updating caches
0:03:25.994 - Running scenario Coverage
0:03:25.994 - Building study grid
0:03:26.011 - Read 53965 fields from cache
0:03:26.064 - Building study grid
0:03:37.239 - Calculating 53118 new fields
0:03:39.253 - Updating caches
0:03:39.372 - Loading scenarioKey=11
0:03:39.373 - Updating caches
0:03:39.373 - Running scenario IX_BLCDT20090617AAN_LIC_#1_before
0:03:39.373 - Building study grid
0:03:39.420 - Read 108420 fields from cache
0:03:39.466 - Loading scenarioKey=12
0:03:39.467 - Updating caches
0:03:39.467 - Running scenario IX_BLCDT20090617AAN_LIC_#1_after
0:03:39.467 - Building study grid
0:03:39.513 - Read 111679 fields from cache
0:03:39.559 - Loading scenarioKey=13
0:03:39.560 - Updating caches
0:03:39.560 - Running scenario IX_BLANK0000117277_LIC_#1_before
0:03:39.560 - Building study grid
0:03:39.598 - Read 71271 fields from cache
0:03:39.624 - Loading scenarioKey=14
0:03:39.625 - Updating caches
0:03:39.625 - Running scenario IX_BLANK0000117277_LIC_#1_after
0:03:39.625 - Building study grid
0:03:39.663 - Read 68457 fields from cache
0:03:39.688 - Loading scenarioKey=15
0:03:39.689 - Updating caches
0:03:39.689 - Running scenario IX_BLANK0000117277_LIC_#2_before
0:03:39.689 - Building study grid
0:03:39.727 - Read 71271 fields from cache
0:03:39.753 - Loading scenarioKey=16
0:03:39.754 - Updating caches
0:03:39.754 - Running scenario IX_BLANK0000117277_LIC_#2_after
0:03:39.754 - Building study grid
0:03:39.792 - Read 68457 fields from cache
0:03:39.817 - Loading scenarioKey=17
0:03:39.819 - Updating caches
0:03:39.819 - Running scenario IX_BLANK000035946_CP_#1_before

0:03:39.819 - Building study grid
0:03:39.872 - Read 87424 fields from cache
0:03:39.910 - Loading scenarioKey=18
0:03:39.911 - Updating caches
0:03:39.911 - Running scenario IX_BLANK0000035946_CP_#1_after
0:03:39.911 - Building study grid
0:03:39.954 - Read 85633 fields from cache
0:03:39.992 - Loading scenarioKey=19
0:03:39.993 - Updating caches
0:03:39.993 - Running scenario IX_BLANK0000035946_CP_#2_before
0:03:39.993 - Building study grid
0:03:40.046 - Read 87424 fields from cache
0:03:40.085 - Loading scenarioKey=20
0:03:40.086 - Updating caches
0:03:40.086 - Running scenario IX_BLANK0000035946_CP_#2_after
0:03:40.086 - Building study grid
0:03:40.127 - Read 85633 fields from cache
0:03:40.165 - Loading scenarioKey=21
0:03:40.167 - Updating caches
0:03:40.167 - Running scenario IX_BLCDT20090423ABM_LIC_#1_before
0:03:40.167 - Building study grid
0:03:40.217 - Read 82438 fields from cache
0:03:40.253 - Loading scenarioKey=22
0:03:40.254 - Updating caches
0:03:40.254 - Running scenario IX_BLCDT20090423ABM_LIC_#1_after
0:03:40.254 - Building study grid
0:03:40.293 - Read 80790 fields from cache
0:03:40.329 - Loading scenarioKey=23
0:03:40.330 - Updating caches
0:03:40.330 - Running scenario IX_BLCDT20090423ABM_LIC_#2_before
0:03:40.330 - Building study grid
0:03:40.380 - Read 82438 fields from cache
0:03:40.416 - Loading scenarioKey=24
0:03:40.417 - Updating caches
0:03:40.417 - Running scenario IX_BLCDT20090423ABM_LIC_#2_after
0:03:40.417 - Building study grid
0:03:40.456 - Read 80790 fields from cache
0:03:40.492 - Loading scenarioKey=25
0:03:40.493 - Updating caches
0:03:40.493 - Running scenario IX_BLCDT20090612AIR_LIC_#1_before
0:03:40.493 - Building study grid
0:03:40.541 - Read 85425 fields from cache
0:03:40.595 - Loading scenarioKey=26
0:03:40.596 - Updating caches
0:03:40.596 - Running scenario IX_BLCDT20090612AIR_LIC_#1_after
0:03:40.596 - Building study grid
0:03:40.642 - Read 91164 fields from cache
0:03:40.697 - Loading scenarioKey=27
0:03:40.699 - Updating caches
0:03:40.699 - Running scenario IX_BLANK0000212015_LIC_#1_before
0:03:40.699 - Building study grid
0:03:40.737 - Read 112118 fields from cache

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0:03:40.782 - Loading scenarioKey=28
0:03:40.783 - Updating caches
0:03:40.783 - Running scenario IX_BLANK0000212015_LIC_#1_after
0:03:40.783 - Building study grid
0:03:40.821 - Read 109852 fields from cache
0:03:40.866 - Loading scenarioKey=29
0:03:40.867 - Updating caches
0:03:40.867 - Running scenario IX_BLANK0000212015_LIC_#2_before
0:03:40.867 - Building study grid
0:03:40.905 - Read 112118 fields from cache
0:03:40.950 - Loading scenarioKey=30
0:03:40.951 - Updating caches
0:03:40.951 - Running scenario IX_BLANK0000212015_LIC_#2_after
0:03:40.951 - Building study grid
0:03:40.990 - Read 109852 fields from cache
0:03:41.034 - Loading scenarioKey=31
0:03:41.035 - Updating caches
0:03:41.035 - Running scenario IX_BLANK0000213023_CP_#1_before
0:03:41.035 - Building study grid
0:03:41.114 - Read 203639 fields from cache
0:03:41.182 - Loading scenarioKey=32
0:03:41.183 - Updating caches
0:03:41.183 - Running scenario IX_BLANK0000213023_CP_#1_after
0:03:41.183 - Building study grid
0:03:41.259 - Read 202851 fields from cache
0:03:41.327 - Loading scenarioKey=33
0:03:41.328 - Updating caches
0:03:41.328 - Running scenario MX_#1
0:03:41.328 - Building study grid
0:03:41.416 - Read 177924 fields from cache
0:03:41.483 - Loading scenarioKey=34
0:03:41.484 - Updating caches
0:03:41.484 - Running scenario MX_#2
0:03:41.484 - Building study grid
0:03:41.572 - Read 177924 fields from cache
0:03:41.640 - Study closed
0:03:41.640 - Log closed
```

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