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Engineering Tools

TV Study Results

Study complete

Interference check study for BLANK0000100547 KBTX-TV D16 DX APP *P BRYAN, TX

Study created: 2020.02.11 01:53:43

Study build station data: LMS TV live server

Proposal: KBTX-TV D16 DX APP *P BRYAN, TX

File number: BLANK0000100547

Facility ID: 6669

Station data: LMS TV live server

Record ID: 25076ff36fcf8cc6016fe378c2b3544b

Country: U.S.

Zone: III

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KFDM	D15	DT	LIC	BEAUMONT, TX	BLANK0000063111	202.1 km
Yes	KRHD-CD	D15	DC	CP	BRYAN, TX	BLANK0000034152	47.5
Yes	KRHD-CD	D15	DC	BL	BRYAN, TX	DTVBL68538	47.5
No	KHPL-CD	D15	DC	LIC	LA GRANGE, TX	BLANK0000074892	108.4
Yes	KYTX	D15	DT	LIC	NACOGDOCHES, TX	BLANK0000071581	175.1
No	KVDA	D15	DT	CP	SAN ANTONIO, TX	BLANK0000034595	256.3
No	KVDA	D15	DT	BL	SAN ANTONIO, TX	DTVBL64969	256.3
No	KADN-TV	D16	DT	LIC	LAFAYETTE, LA	BLCDDT20060630AFZ	366.3
Yes	KSHV-TV	D16	DT	LIC	SHREVEPORT, LA	BLANK0000074895	307.4
Yes	DKHPB-CD	D16	DC	BL	BASTROP, TX	DTVBL35912	122.7
No	KSAN-TV	D16	DT	LIC	SAN ANGELO, TX	BLANK0000004868	435.9
Yes	KHCE-TV	D16	DT	LIC	SAN ANTONIO, TX	BLEDT20110215AEM	256.3
Yes	KHCE-TV	D16	DT	APP	SAN ANTONIO, TX	BLANK0000035698	256.3
Yes	KNCT	D17	DT	LIC	BELTON, TX	BLANK0000086804	149.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16

Latitude: 30 33 16.50 N (NAD83)

Longitude: 96 1 52.30 W

Height AMSL: 541.1 m

HAAT: 451.5 m

Peak ERP: 282 kW

Antenna: ERI-ALP24M4-HSOC-16 (ID 1006313) 290.0 deg

Elev Pattn: Generic

Elec Tilt: 1.00

38.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	166 kW	454.0 m	98.1 km
45.0	103	432.2	92.7

90.0	122	434.6	94.2
135.0	119	430.7	93.7
180.0	105	454.0	94.2
225.0	178	474.1	100.3
270.0	270	473.5	104.2
315.0	262	459.0	102.7

Distance to Canadian border: 1708.2 km

Distance to Mexican border: 472.9 km

Conditions at FCC monitoring station: Kingsville TX

Bearing: 208.0 degrees Distance: 390.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 324.5 degrees Distance: 1349.2 km

**Proposal fails distance check to land mobile station: Houston TX ch. 17, 109.6 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%

**IX check failure to DTVBL35912 BL scenario 1, 3.07% interference caused

**IX check failure to DTVBL35912 BL scenario 2, 3.09% interference caused

**IX check failure to BLANK0000086804 LIC scenario 1, 1.40% interference caused

**IX check failure to BLANK0000086804 LIC scenario 2, 1.40% interference caused

**IX check failure to BLANK0000086804 LIC scenario 3, 1.40% interference caused

**IX check failure to BLANK0000086804 LIC scenario 4, 1.40% interference caused

---- Below is IX received by proposal BLANK0000100547 ----

Proposal receives 0.71% interference from scenario 1

Proposal receives 0.73% interference from scenario 2

**MX with BLANK0000035698 APP scenario 3, 0.71% interference received

**MX with BLANK0000035698 APP scenario 4, 0.73% interference received

Output Files:

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

Study Logs:

```
0:00:00.001 - Starting study build
0:00:00.786 - Searching for protected stations
0:00:21.946 - Found 14 records
0:00:21.946 - Checking proposal interference
0:00:22.067 - Log re-opened 2020.02.11 01:54:05.139
0:00:22.067 - Study open for studyKey=12841 IxCheck12829
0:00:22.071 - Running preliminary record checks
0:00:22.153 - Updating database records
0:00:22.181 - Updating caches
0:00:22.184 - Loading scenarioKey=2
0:00:22.412 - Updating caches
0:00:22.413 - Running scenario probe
0:00:22.413 - Building study grid
0:00:50.148 - Calculating 105492 new fields
0:00:51.863 - Updating caches
0:00:51.966 - Building study grid
0:01:23.050 - Calculating 207188 new fields
0:01:26.263 - Updating caches
0:01:26.399 - Building study grid
0:01:35.221 - Calculating 31350 new fields
0:01:35.698 - Updating caches
0:01:35.732 - Building study grid
0:01:43.445 - Calculating 21451 new fields
0:01:43.687 - Updating caches
0:01:43.711 - Study closed
0:01:43.711 - Log closed
0:01:43.767 - 8 records with interference from proposal
0:01:43.767 - Searching for undesireds to KRHD-CD D15 CP
0:01:59.345 - Searching for undesireds to KRHD-CD D15 BL
0:01:59.369 - Searching for undesireds to KYTX D15 LIC
0:02:00.669 - Searching for undesireds to KSHV-TV D16 LIC
0:02:17.867 - Searching for undesireds to DKHPB-CD D16 BL
0:02:17.888 - Searching for undesireds to KHCE-TV D16 LIC
0:02:18.849 - Searching for undesireds to KHCE-TV D16 APP
0:02:18.871 - Searching for undesireds to KNCT D17 LIC
0:02:35.439 - Searching for undesireds to proposal
0:02:35.460 - Checking undesired interference
0:02:35.700 - Log re-opened 2020.02.11 01:56:18.773
0:02:35.700 - Study open for studyKey=12841 IxCheck12829
0:02:35.705 - Running preliminary record checks
0:02:35.836 - Updating database records
0:02:35.878 - Updating caches
0:02:35.882 - Loading scenarioKey=3
0:02:35.887 - Updating caches
0:02:35.887 - Running scenario BLANK0000034152_CP
0:02:35.887 - Building study grid
0:02:35.905 - Read 5749 fields from cache
0:02:35.905 - Calculating 31974 new fields
0:02:37.373 - Updating caches
0:02:37.392 - Loading scenarioKey=4
```

0:02:37.394 - Updating caches
0:02:37.394 - Running scenario DTVBL68538_BL
0:02:37.394 - Building study grid
0:02:37.405 - Read 37505 fields from cache
0:02:37.405 - Calculating 810 new fields
0:02:37.504 - Updating caches
0:02:37.517 - Loading scenarioKey=5
0:02:37.520 - Updating caches
0:02:37.520 - Running scenario BLANK0000071581_LIC
0:02:37.520 - Building study grid
0:02:37.585 - Read 33199 fields from cache
0:02:37.586 - Calculating 133533 new fields
0:02:43.114 - Updating caches
0:02:43.191 - Loading scenarioKey=6
0:02:43.193 - Updating caches
0:02:43.193 - Running scenario BLANK0000074895_LIC
0:02:43.193 - Building study grid
0:02:43.240 - Read 31209 fields from cache
0:02:43.241 - Calculating 110440 new fields
0:02:46.248 - Updating caches
0:02:46.309 - Loading scenarioKey=7
0:02:46.310 - Updating caches
0:02:46.310 - Running scenario DTVBL35912_BL
0:02:46.310 - Building study grid
0:02:46.319 - Read 957 fields from cache
0:02:46.319 - Calculating 3851 new fields
0:02:46.386 - Updating caches
0:02:46.388 - Loading scenarioKey=8
0:02:46.390 - Updating caches
0:02:46.390 - Running scenario BLEDT20110215AEM_LIC
0:02:46.390 - Building study grid
0:02:46.459 - Read 29527 fields from cache
0:02:46.460 - Calculating 108354 new fields
0:02:49.824 - Updating caches
0:02:49.881 - Loading scenarioKey=9
0:02:49.884 - Updating caches
0:02:49.884 - Running scenario BLANK0000035698_APP
0:02:49.884 - Building study grid
0:02:49.940 - Read 138815 fields from cache
0:02:49.941 - Calculating 3136 new fields
0:02:50.050 - Updating caches
0:02:50.098 - Loading scenarioKey=10
0:02:50.100 - Updating caches
0:02:50.100 - Running scenario BLANK0000086804_LIC
0:02:50.100 - Building study grid
0:02:50.198 - Read 40888 fields from cache
0:02:50.198 - Calculating 43095 new fields
0:02:52.507 - Updating caches
0:02:52.560 - Loading scenarioKey=11
0:02:52.565 - Updating caches
0:02:52.565 - Running scenario Proposal

0:02:52.565 - Building study grid
0:03:00.145 - Read 27566 fields from cache
0:03:00.146 - Calculating 172373 new fields
0:03:04.354 - Updating caches
0:03:04.439 - Study closed
0:03:04.439 - Log closed
0:03:04.488 - Building IX scenarios for KRHD-CD D15 CP
0:03:04.488 - Building IX scenarios for KRHD-CD D15 BL
0:03:04.488 - Building IX scenarios for KYTX D15 LIC
0:03:04.488 - Building IX scenarios for KSHV-TV D16 LIC
0:03:04.488 - Building IX scenarios for DKHPB-CD D16 BL
0:03:04.488 - Building IX scenarios for KHCE-TV D16 LIC
0:03:04.488 - Building IX scenarios for KHCE-TV D16 APP
0:03:04.488 - Building IX scenarios for KNCT D17 LIC
0:03:04.488 - Building MX scenarios
0:03:06.974 - Build complete, saving study
0:03:07.234 - Done
0:03:07.243 - Log re-opened 2020.02.11 01:56:50.316
0:03:07.243 - Study open for studyKey=12841 IxCheck12829
0:03:07.247 - Running preliminary record checks
0:03:07.251 - Loading scenarioKey=1
0:03:07.256 - Updating caches
0:03:07.256 - Running scenario Coverage
0:03:07.256 - Building study grid
0:03:07.266 - Read 29701 fields from cache
0:03:07.483 - Loading scenarioKey=12
0:03:07.485 - Updating caches
0:03:07.485 - Running scenario IX_BLANK0000034152_CP_#1_before
0:03:07.485 - Building study grid
0:03:07.494 - Read 23446 fields from cache
0:03:07.504 - Loading scenarioKey=13
0:03:07.505 - Updating caches
0:03:07.505 - Running scenario IX_BLANK0000034152_CP_#1_after
0:03:07.505 - Building study grid
0:03:07.516 - Read 30333 fields from cache
0:03:07.526 - Loading scenarioKey=14
0:03:07.527 - Updating caches
0:03:07.527 - Running scenario IX_BLANK0000034152_CP_#2_before
0:03:07.527 - Building study grid
0:03:07.535 - Read 23446 fields from cache
0:03:07.544 - Loading scenarioKey=15
0:03:07.545 - Updating caches
0:03:07.545 - Running scenario IX_BLANK0000034152_CP_#2_after
0:03:07.545 - Building study grid
0:03:07.556 - Read 30333 fields from cache
0:03:07.566 - Loading scenarioKey=16
0:03:07.568 - Updating caches
0:03:07.568 - Running scenario IX_DTVBL68538_BL_#1_before
0:03:07.568 - Building study grid
0:03:07.574 - Read 17437 fields from cache
0:03:07.582 - Loading scenarioKey=17

0:03:07.583 - Updating caches
0:03:07.583 - Running scenario IX_DTVBL68538_BL_#1_after
0:03:07.583 - Building study grid
0:03:07.592 - Read 24360 fields from cache
0:03:07.601 - Loading scenarioKey=18
0:03:07.602 - Updating caches
0:03:07.602 - Running scenario IX_DTVBL68538_BL_#2_before
0:03:07.602 - Building study grid
0:03:07.608 - Read 17437 fields from cache
0:03:07.616 - Loading scenarioKey=19
0:03:07.616 - Updating caches
0:03:07.616 - Running scenario IX_DTVBL68538_BL_#2_after
0:03:07.616 - Building study grid
0:03:07.625 - Read 24360 fields from cache
0:03:07.635 - Loading scenarioKey=20
0:03:07.636 - Updating caches
0:03:07.636 - Running scenario IX_BLANK0000071581_LIC_#1_before
0:03:07.636 - Building study grid
0:03:07.667 - Read 120525 fields from cache
0:03:07.715 - Loading scenarioKey=21
0:03:07.716 - Updating caches
0:03:07.716 - Running scenario IX_BLANK0000071581_LIC_#1_after
0:03:07.716 - Building study grid
0:03:07.757 - Read 131204 fields from cache
0:03:07.807 - Loading scenarioKey=22
0:03:07.808 - Updating caches
0:03:07.808 - Running scenario IX_BLANK0000071581_LIC_#2_before
0:03:07.808 - Building study grid
0:03:07.839 - Read 120525 fields from cache
0:03:07.887 - Loading scenarioKey=23
0:03:07.888 - Updating caches
0:03:07.888 - Running scenario IX_BLANK0000071581_LIC_#2_after
0:03:07.888 - Building study grid
0:03:07.928 - Read 131204 fields from cache
0:03:07.979 - Loading scenarioKey=24
0:03:07.981 - Updating caches
0:03:07.981 - Running scenario IX_BLANK0000074895_LIC_#1_before
0:03:07.981 - Building study grid
0:03:08.009 - Read 111652 fields from cache
0:03:08.050 - Loading scenarioKey=25
0:03:08.051 - Updating caches
0:03:08.051 - Running scenario IX_BLANK0000074895_LIC_#1_after
0:03:08.051 - Building study grid
0:03:08.087 - Read 124229 fields from cache
0:03:08.143 - Loading scenarioKey=26
0:03:08.143 - Updating caches
0:03:08.143 - Running scenario IX_BLANK0000074895_LIC_#2_before
0:03:08.143 - Building study grid
0:03:08.171 - Read 111651 fields from cache
0:03:08.213 - Loading scenarioKey=27
0:03:08.214 - Updating caches

0:03:08.214 - Running scenario IX_BLANK0000074895_LIC_#2_after
0:03:08.214 - Building study grid
0:03:08.249 - Read 124228 fields from cache
0:03:08.293 - Loading scenarioKey=28
0:03:08.295 - Updating caches
0:03:08.295 - Running scenario IX_DTVBL35912_BL_#1_before
0:03:08.295 - Building study grid
0:03:08.301 - Read 2422 fields from cache
0:03:08.302 - Loading scenarioKey=29
0:03:08.303 - Updating caches
0:03:08.303 - Running scenario IX_DTVBL35912_BL_#1_after
0:03:08.303 - Building study grid
0:03:08.311 - Read 3379 fields from cache
0:03:08.312 - Loading scenarioKey=30
0:03:08.313 - Updating caches
0:03:08.313 - Running scenario IX_DTVBL35912_BL_#2_before
0:03:08.313 - Building study grid
0:03:08.318 - Read 2422 fields from cache
0:03:08.320 - Loading scenarioKey=31
0:03:08.320 - Updating caches
0:03:08.320 - Running scenario IX_DTVBL35912_BL_#2_after
0:03:08.320 - Building study grid
0:03:08.328 - Read 3379 fields from cache
0:03:08.329 - Loading scenarioKey=32
0:03:08.331 - Updating caches
0:03:08.331 - Running scenario IX_BLEDT20110215AEM_LIC_#1_before
0:03:08.331 - Building study grid
0:03:08.359 - Read 102382 fields from cache
0:03:08.398 - Loading scenarioKey=33
0:03:08.399 - Updating caches
0:03:08.399 - Running scenario IX_BLEDT20110215AEM_LIC_#1_after
0:03:08.399 - Building study grid
0:03:08.434 - Read 124547 fields from cache
0:03:08.477 - Loading scenarioKey=34
0:03:08.478 - Updating caches
0:03:08.478 - Running scenario IX_BLEDT20110215AEM_LIC_#2_before
0:03:08.478 - Building study grid
0:03:08.507 - Read 102374 fields from cache
0:03:08.545 - Loading scenarioKey=35
0:03:08.546 - Updating caches
0:03:08.546 - Running scenario IX_BLEDT20110215AEM_LIC_#2_after
0:03:08.546 - Building study grid
0:03:08.581 - Read 124539 fields from cache
0:03:08.624 - Loading scenarioKey=36
0:03:08.626 - Updating caches
0:03:08.626 - Running scenario IX_BLANK0000035698_APP_#1_before
0:03:08.626 - Building study grid
0:03:08.654 - Read 103371 fields from cache
0:03:08.693 - Loading scenarioKey=37
0:03:08.694 - Updating caches
0:03:08.694 - Running scenario IX_BLANK0000035698_APP_#1_after

0:03:08.694 - Building study grid
0:03:08.729 - Read 125620 fields from cache
0:03:08.773 - Loading scenarioKey=38
0:03:08.773 - Updating caches
0:03:08.773 - Running scenario IX_BLANK0000035698_APP_#2_before
0:03:08.773 - Building study grid
0:03:08.802 - Read 103363 fields from cache
0:03:08.841 - Loading scenarioKey=39
0:03:08.842 - Updating caches
0:03:08.842 - Running scenario IX_BLANK0000035698_APP_#2_after
0:03:08.842 - Building study grid
0:03:08.877 - Read 125612 fields from cache
0:03:08.920 - Loading scenarioKey=40
0:03:08.921 - Updating caches
0:03:08.921 - Running scenario IX_BLANK0000035698_APP_#3_before
0:03:08.921 - Building study grid
0:03:08.943 - Read 99052 fields from cache
0:03:08.981 - Loading scenarioKey=41
0:03:08.982 - Updating caches
0:03:08.982 - Running scenario IX_BLANK0000035698_APP_#3_after
0:03:08.982 - Building study grid
0:03:09.010 - Read 121301 fields from cache
0:03:09.053 - Loading scenarioKey=42
0:03:09.054 - Updating caches
0:03:09.054 - Running scenario IX_BLANK0000035698_APP_#4_before
0:03:09.054 - Building study grid
0:03:09.075 - Read 99044 fields from cache
0:03:09.119 - Loading scenarioKey=43
0:03:09.119 - Updating caches
0:03:09.119 - Running scenario IX_BLANK0000035698_APP_#4_after
0:03:09.119 - Building study grid
0:03:09.148 - Read 121293 fields from cache
0:03:09.190 - Loading scenarioKey=44
0:03:09.192 - Updating caches
0:03:09.192 - Running scenario IX_BLANK0000086804_LIC_#1_before
0:03:09.192 - Building study grid
0:03:09.236 - Read 73380 fields from cache
0:03:09.279 - Loading scenarioKey=45
0:03:09.280 - Updating caches
0:03:09.280 - Running scenario IX_BLANK0000086804_LIC_#1_after
0:03:09.280 - Building study grid
0:03:09.334 - Read 83000 fields from cache
0:03:09.378 - Loading scenarioKey=46
0:03:09.379 - Updating caches
0:03:09.379 - Running scenario IX_BLANK0000086804_LIC_#2_before
0:03:09.379 - Building study grid
0:03:09.423 - Read 73379 fields from cache
0:03:09.466 - Loading scenarioKey=47
0:03:09.467 - Updating caches
0:03:09.467 - Running scenario IX_BLANK0000086804_LIC_#2_after
0:03:09.467 - Building study grid

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0:03:09.522 - Read 82999 fields from cache
0:03:09.566 - Loading scenarioKey=48
0:03:09.567 - Updating caches
0:03:09.567 - Running scenario IX_BLANK0000086804_LIC_#3_before
0:03:09.567 - Building study grid
0:03:09.611 - Read 73380 fields from cache
0:03:09.654 - Loading scenarioKey=49
0:03:09.655 - Updating caches
0:03:09.655 - Running scenario IX_BLANK0000086804_LIC_#3_after
0:03:09.655 - Building study grid
0:03:09.710 - Read 83000 fields from cache
0:03:09.753 - Loading scenarioKey=50
0:03:09.754 - Updating caches
0:03:09.754 - Running scenario IX_BLANK0000086804_LIC_#4_before
0:03:09.754 - Building study grid
0:03:09.799 - Read 73379 fields from cache
0:03:09.842 - Loading scenarioKey=51
0:03:09.843 - Updating caches
0:03:09.843 - Running scenario IX_BLANK0000086804_LIC_#4_after
0:03:09.843 - Building study grid
0:03:09.898 - Read 82999 fields from cache
0:03:09.942 - Loading scenarioKey=52
0:03:09.943 - Updating caches
0:03:09.943 - Running scenario MX_#1
0:03:09.943 - Building study grid
0:03:09.994 - Read 144590 fields from cache
0:03:10.049 - Loading scenarioKey=53
0:03:10.051 - Updating caches
0:03:10.051 - Running scenario MX_#2
0:03:10.051 - Building study grid
0:03:10.102 - Read 144590 fields from cache
0:03:10.149 - Loading scenarioKey=54
0:03:10.150 - Updating caches
0:03:10.150 - Running scenario MX_#3
0:03:10.150 - Building study grid
0:03:10.201 - Read 144590 fields from cache
0:03:10.249 - Loading scenarioKey=55
0:03:10.250 - Updating caches
0:03:10.250 - Running scenario MX_#4
0:03:10.250 - Building study grid
0:03:10.301 - Read 144590 fields from cache
0:03:10.349 - Study closed
0:03:10.349 - Log closed
```

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338-2824 LMS Version:8.0.0

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