W32FJ-D FI 185194

Minor Modification: Change ASR, ERP, antenna make and model. ASR 1207466 is outside the 121km circle for Birmingham, Huntsville and Mobile. Controlled access site.

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: ASR 1207466, Model: Longley-Rice

Start: 2022.06.30 13:10:42

Study created: 2022.06.30 13:10:42

Study build station data: LMS TV 2022-06-29

 Proposal: W32FJ-D D32 LD CP MONTGOMERY, AL

 File number: ASR 1207466

 Facility ID: 185194

Station data: User record

 Record ID: 1179

 Country: U.S.

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 DWKNI-LP N25- TX APP ANDALUSIA, AL BLTTL20050131AAD 110.2 km

No WAXC-LD D31 LD LIC ALEXANDER CITY, AL BLDTL20110329ABN 74.4

No WSFG-LD D31 LD LIC BERRY, AL BLANK0000176885 185.2

No WNCF D31 DT LIC MONTGOMERY, AL BLANK0000001319 47.3

No WPCH-TV D31 DT LIC ATLANTA, GA BLANK0000152274 246.0

No W31EU-D D31 LD LIC COLUMBUS, GA BLANK0000177389 110.1

No WGBC D31 DT CP MERIDIAN, MS BLANK0000035926 220.1

No WGBC D31 DT LIC MERIDIAN, MS BLCDT20071024AAK 220.1

Yes WAXC-LD D32 LD CP ALEXANDER CITY, AL BDISDTL20120831ABQ 74.4

No WAAO-LD D32 LD LIC ANDALUSIA, AL BLANK0000155416 115.0

No DW50BO D32+ LD APP ASHVILLE, AL BLANK0000054790 159.1

No WBMA-LD D32 LD LIC BIRMINGHAM, AL BLANK0000120220 129.0

No WMJN-LD D32 LD LIC Huntsville, AL BLANK0000130267 242.5

No W32EQ-D D32 LD LIC TUSCALOOSA, AL BLANK0000177226 181.9

No WFSU-TV D32 DT LIC TALLAHASSEE, FL BLEDT20030730ACW 277.9

No WSB-TV D32 DT LIC ATLANTA, GA BLANK0000153268 241.3

No W32FV-D D32 LD LIC COLUMBUS, GA BLANK0000180159 137.6

No W32FE-D D32 LD LIC HARTWELL & ROYSTON, GA BLANK0000153394 383.2

No W32FN-D D32 LD LIC MACON, GA BLANK0000179563 264.6

No W44DD-D D32 LD CP VALDOSTA, GA BLANK0000071821 311.8

No WLOX D32 DT LIC BILOXI, MS BLANK0000059502 317.8

No WABG-TV D32 DT LIC GREENWOOD, MS BLCDT20051024ABR 406.8

No W32EV-D D32 DC LIC ADAMSVILLE, TN BLANK0000121663 368.3

No WNPX-TV D32 DT LIC FRANKLIN, TN BLANK0000087615 463.0

No WPXH-TV D33 DT LIC HOOVER, AL BLANK0000105366 130.9

No WFRZ-LD D33 LD LIC MONTGOMERY, AL BLANK0000081666 14.8

No WDFX-TV D33 DT CP OZARK, AL BLANK0000035653 146.7

No WDFX-TV D33 DT LIC OZARK, AL BLCDT20050915APH 146.7

No W33DJ-D D33 LD CP DESTIN, FL BLANK0000168364 184.0

No WPCT D33 DT LIC PANAMA CITY BEACH, FL BLANK0000062892 249.2

No WCAC-LD D33 LD LIC LAGRANGE, GA BLDTL20130411AAA 144.6

No WGNM D33 DT LIC MACON, GA BLANK0000113679 265.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

 Channel: D32

 Mask: Simple

 Latitude: 32 22 14.30 N (NAD83)

 Longitude: 86 20 55.00 W

Height AMSL: 60.0 m (Adjusted based on actual ground elevation calculation)

 HAAT: 0.0 m

 Peak ERP: 0.100 kW

 Antenna: SBP-UPSL (ID 100733) 100.0 deg

Elev Pattrn: Generic

50.5 dBu contour:

Azimuth ERP HAAT Distance

 0.0 deg 0.000 kW 9.7 m 2.1 km

 45.0 0.012 8.9 5.8

 90.0 0.084 -22.7 9.3

135.0 0.040 -0.2 7.8

180.0 0.000 -3.2 2.2

225.0 0.000 4.5 2.1

270.0 0.000 18.0 2.1

315.0 0.000 -5.5 2.1

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 1 m

Distance to Canadian border: 1084.1 km

Distance to Mexican border: 1247.4 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 41.9 degrees Distance: 224.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 302.4 degrees Distance: 1893.3 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%

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Interference to BDISDTL20120831ABQ CP scenario 1

 Call Chan Svc Status City, State File Number Distance

Desired: WAXC-LD D32 LD CP ALEXANDER CITY, AL BDISDTL20120831ABQ

Undesireds: W32FJ-D D32 LD CP MONTGOMERY, AL ASR 1207466 74.4 km

 WNCF D31 DT LIC MONTGOMERY, AL BLANK0000001319 118.2

 DW50BO D32+ LD APP ASHVILLE, AL BLANK0000054790 97.9

 WBMA-LD D32 LD LIC BIRMINGHAM, AL BLANK0000120220 103.4

 WFSU-TV D32 DT LIC TALLAHASSEE, FL BLEDT20030730ACW 314.0

 WSB-TV D32 DT LIC ATLANTA, GA BLANK0000153268 172.6

 W32FV-D D32 LD LIC COLUMBUS, GA BLANK0000180159 112.8

 Service area Terrain-limited IX-free, before IX-free, after Percent New IX

 4782.8 72,355 4546.9 68,316 4320.0 64,694 4320.0 64,694 0.00 0.00

Undesired Total IX Unique IX, before Unique IX, after

W32FJ-D D32 LD CP 1.0 0 0.0 0

WNCF D31 DT LIC 14.0 83 4.0 10 3.0 10

DW50BO D32+ LD APP 10.0 46 7.0 41 7.0 41

WBMA-LD D32 LD LIC 5.0 88 3.0 0 3.0 0

WFSU-TV D32 DT LIC 2.0 258 1.0 206 1.0 206

WSB-TV D32 DT LIC 199.9 3,291 178.9 2,660 178.9 2,660

W32FV-D D32 LD LIC 18.0 492 11.0 69 11.0 69

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Interference to proposal scenario 1

\*\*MX: 33.91% interference received

 Call Chan Svc Status City, State File Number Distance

Desired: W32FJ-D D32 LD CP MONTGOMERY, AL ASR 1207466

Undesireds: WAXC-LD D31 LD LIC ALEXANDER CITY, AL BLDTL20110329ABN 74.4 km

 WNCF D31 DT LIC MONTGOMERY, AL BLANK0000001319 47.3

 WAAO-LD D32 LD LIC ANDALUSIA, AL BLANK0000155416 115.0

 DW50BO D32+ LD APP ASHVILLE, AL BLANK0000054790 159.1

 WFSU-TV D32 DT LIC TALLAHASSEE, FL BLEDT20030730ACW 277.9

 WSB-TV D32 DT LIC ATLANTA, GA BLANK0000153268 241.3

 W32FV-D D32 LD LIC COLUMBUS, GA BLANK0000180159 137.6

 WFRZ-LD D33 LD LIC MONTGOMERY, AL BLANK0000081666 14.8

 Service area Terrain-limited IX-free Percent IX

 86.4 66,615 86.4 66,615 48.2 44,029 44.18 33.91

Undesired Total IX Unique IX Prcnt Unique IX

WNCF D31 DT LIC 38.2 22,586 22.1 13,316 25.58 19.99

WAAO-LD D32 LD LIC 1.0 375 0.0 0 0.00 0.00

DW50BO D32+ LD APP 1.0 6 0.0 0 0.00 0.00

WFSU-TV D32 DT LIC 3.0 395 0.0 0 0.00 0.00

WSB-TV D32 DT LIC 7.0 760 0.0 0 0.00 0.00

W32FV-D D32 LD LIC 1.0 0 0.0 0 0.00 0.00

WFRZ-LD D33 LD LIC 16.1 9,270 0.0 0 0.00 0.00

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Interference to proposal scenario 2

\*\*MX: 33.91% interference received

 Call Chan Svc Status City, State File Number Distance

Desired: W32FJ-D D32 LD CP MONTGOMERY, AL ASR 1207466

Undesireds: WNCF D31 DT LIC MONTGOMERY, AL BLANK0000001319 47.3 km

 WAXC-LD D32 LD CP ALEXANDER CITY, AL BDISDTL20120831ABQ 74.4

 WAAO-LD D32 LD LIC ANDALUSIA, AL BLANK0000155416 115.0

 DW50BO D32+ LD APP ASHVILLE, AL BLANK0000054790 159.1

 WFSU-TV D32 DT LIC TALLAHASSEE, FL BLEDT20030730ACW 277.9

 WSB-TV D32 DT LIC ATLANTA, GA BLANK0000153268 241.3

 W32FV-D D32 LD LIC COLUMBUS, GA BLANK0000180159 137.6

 WFRZ-LD D33 LD LIC MONTGOMERY, AL BLANK0000081666 14.8

 Service area Terrain-limited IX-free Percent IX

 86.4 66,615 86.4 66,615 48.2 44,029 44.18 33.91

Undesired Total IX Unique IX Prcnt Unique IX

WNCF D31 DT LIC 38.2 22,586 22.1 13,316 25.58 19.99

WAXC-LD D32 LD CP 7.0 760 0.0 0 0.00 0.00

WAAO-LD D32 LD LIC 1.0 375 0.0 0 0.00 0.00

DW50BO D32+ LD APP 1.0 6 0.0 0 0.00 0.00

WFSU-TV D32 DT LIC 3.0 395 0.0 0 0.00 0.00

WSB-TV D32 DT LIC 7.0 760 0.0 0 0.00 0.00

W32FV-D D32 LD LIC 1.0 0 0.0 0 0.00 0.00

WFRZ-LD D33 LD LIC 16.1 9,270 0.0 0 0.00 0.00