W33AY-D FI 49183

SPRINGFIELD, IL

MINOR CHANGE: REDUCE ERP AND CHANGE ANTENNA MAKE AND NODEL, NO CHANGE IN SITE.

CONTROLLED ACCESS SITE, NO CONSTRUCTION.

Study created: 2022.06.17 12:08:47

Study build station data: LMS TV 2022-06-15

 Proposal: W33AY-D D31 LD CP SPRINGFIELD, IL

 File number: ASR 1055345 .100w @0

 Facility ID: 49183

Station data: User record

 Record ID: 1134

 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 KLJB D30 DT LIC DAVENPORT, IA BLANK0000099537 182.4 km

No WEIU-TV D30 DT LIC CHARLESTON, IL BLANK0000093935 113.5

No WTCT D30 DT LIC MARION, IL BLANK0000096223 252.3

No WODK-LD D30 LD LIC Saint louis, MO BLANK0000124664 147.8

No KWBM D31 DT CP HARRISON, AR BLANK0000036086 456.0

No KWBM D31 DT LIC HARRISON, AR BLCDT20091201ASC 456.0

No K31PO-D D31- LD LIC Des Moines, IA BLANK0000160447 378.1

No K31NJ-D D31 LD LIC LANSING, IA BLANK0000093973 418.8

No WFLD D31 DT LIC CHICAGO, IL BLANK0000055195 286.0

No W31EZ-D D31 LD LIC CHICAGO, IL BLANK0000124951 288.4

No WESV-LD D31 LD LIC CHICAGO, IL BLANK0000125079 288.4

No WQAD-TV D31 DT LIC MOLINE, IL BLANK0000120809 182.4

No WQDE-LD D31 LD LIC Indianapolis, IN BLANK0000108667 290.4

No WNIT D31 DT LIC SOUTH BEND, IN BLANK0000087078 352.6

No WVUT D31 DT LIC VINCENNES, IN BLANK0000087466 222.1

No WKMA-TV D31 DT LIC MADISONVILLE, KY BLANK0000087442 340.7

No K30NE-D D31 LD CP CAPE GIRARDEAU, MO BLANK0000071795 277.0

No KCWE D31 DT LIC KANSAS CITY, MO BLANK0000153381 428.6

No KDNL-TV D31 DT LIC ST. LOUIS, MO BLANK0000158069 147.3

No WDTN D31 DT LIC DAYTON, OH BLANK0000126718 457.1

No WITI D31 DT LIC MILWAUKEE, WI BLANK0000086971 394.4

No DDKQCT-LP D32- LD APP DAVENPORT, IA BLANK0000068394 182.4

No WICD D32 DT LIC CHAMPAIGN, IL BLANK0000059351 147.8

No WTJR D32 DT LIC QUINCY, IL BLCDT20091110ADL 148.5

No KFVS-TV D32 DT CP CAPE GIRARDEAU, MO BLANK0000150355 261.5

No KUMO-LD D32 LD CP ST LOUIS, MO BLANK0000030456 147.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

 Channel: D31

 Mask: Simple

 Latitude: 39 46 51.20 N (NAD83)

 Longitude: 89 36 18.20 W

Height AMSL: 189.6 m (Adjusted based on actual ground elevation calculation)

 HAAT: 0.0 m

 Peak ERP: 0.100 kW

 Antenna: SBP-UPSL (ID 100733) 0.0 deg

Elev Pattrn: Generic

50.4 dBu contour:

Azimuth ERP HAAT Distance

 0.0 deg 0.100 kW 14.4 m 9.8 km

 45.0 0.023 18.3 6.9

 90.0 0.000 16.1 2.1

135.0 0.000 14.3 2.1

180.0 0.000 14.0 2.1

225.0 0.000 8.1 2.1

270.0 0.000 5.4 2.1

315.0 0.023 15.6 6.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 13 m

Distance to Canadian border: 596.3 km

Distance to Mexican border: 1545.7 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 43.0 degrees Distance: 437.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 276.8 degrees Distance: 1329.6 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%

---- Below is IX received by proposal ASR 1055345 .100w @0 ----

Proposal receives 7.00% interference from scenario 1

No IX check failures found.