

Percent allowed new interference: 0.500
 Percent allowed new interference to non Class A LPTV: 2.000
 TW Census data selected 2000
 Data Base Selected
 /space/software/cdb/pt_tvdb.sff
 TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-16-2010 Time: 14:37:01

Record Selected for Analysis

WCHU-LD USERRECORD-01 CHICAGO IL US
 Channel 33 ERP 15. kW HAAT 374. m RCMSL 00554 m FULL SERVICE MASK
 Latitude 041-53-56 Longitude 0087-37-23
 Status APP Zone 1 Border Site number: 01
 Dir Antenna Make CDB Model 00000000020061 Beam tilt N Ref Azimuth 150.
 Last update Cutoff date Docket
 Comments
 Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
 Service Class = LD
 Maximum height/power limits not checked

| Site number 1 | | | |
|---------------|--------|-------|-------------------|
| Azimuth | ERP | HAAT | 51.0 dBu F(50,90) |
| (Deg) | (kW) | (m) | (km) |
| 0.0 | 0.002 | 378.0 | 11.1 |
| 45.0 | 0.002 | 378.0 | 11.1 |
| 90.0 | 0.713 | 378.0 | 42.2 |
| 135.0 | 12.682 | 378.0 | 58.4 |
| 180.0 | 8.573 | 373.7 | 56.1 |
| 225.0 | 11.354 | 372.9 | 57.6 |
| 270.0 | 7.972 | 367.7 | 55.5 |
| 315.0 | 0.050 | 368.4 | 26.4 |

Contour Overlap to Proposed Station

Station
 WEDE-CA 34 ARLINGTON HEIGHTS IL BSTA20040603ACT

Station inside contour of Digital LPTV station
 WCHU-LD 33 CHICAGO IL USERRECORD01

Station
WEDE-CA 34 ARLINGTON HEIGHTS IL BLTTA20050308AAS

Station inside contour of Digital LPTV station
WCHU-LD 33 CHICAGO IL USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

SPACING VIOLATION FOUND BETWEEN STATION

WCHU-LD 33 CHICAGO IL USERRECORD01 Site # 01

and station

SHORT TO: WHNW-LP 18 GARY IN BLTTL 19920330IQ
041-36-10 0087-20-15
Req. separation => 24.1 <= 80.5 Actual separation 40.6 Short 39.9(16.5) km

SHORT TO: WHNW-LP 18 GARY IN BSTA 20070309ACD
041-36-10 0087-20-15
Req. separation => 24.1 <= 80.5 Actual separation 40.6 Short 39.9(16.5) km

SHORT TO: WHNW-LP 18 GARY IN BDFCDTL 20060331AGD
041-36-10 0087-20-15
Req. separation => 24.1 <= 80.5 Actual separation 40.6 Short 39.9(16.5) km

SHORT TO: WFBN-LP 33 ROCKFORD IL BLTTL 19890616II
042-16- 2 0089-04-12
Req. separation 217.3 Actual separation 126.5 Short 90.8 km

SHORT TO: NEW 33 WOLCOTT IN BNPDTL 20100112AEA
040-45-56 0087-03- 5
Req. separation 217.3 Actual separation 134.7 Short 82.6 km

SHORT TO: WOHO-CA 33 HOLLAND MI BLTTL 20001026AAA
042-48-59 0085-57-20
Req. separation 217.3 Actual separation 171.1 Short 46.2 km

SHORT TO: WITI 33 MILWAUKEE WI BMPCDT 20081204ADM
043-05-26 0087-53-50
Req. separation 196.3 Actual separation 134.3 Short 62.0 km

SHORT TO: W40CN 40 SUGAR GROVE IL BPTTL 20070301ABR
041-47-46 0088-27-30
Req. separation => 24.1 <= 80.5 Actual separation 70.3 Short 10.2(46.2) km

SHORT TO: W40CN 40 SUGAR GROVE IL BPTTL 20041202ACN
 041-47-46 0088-27-30
 Req. separation => 24.1 <= 80.5 Actual separation 70.3 Short 10.2(46.2) km

SHORT TO: WHCH-LD 40 CHESTERTON IN BLDTL 20070822AAF
 041-31-22 0087-01-28
 Req. separation => 24.1 <= 80.5 Actual separation 65.0 Short 15.5(40.9) km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 01

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
 Distance to border = 368.4km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

| Channel | Proposed Station | Call | City/State | ARN |
|---------|------------------|------------|--------------|-----|
| 33 | WCHU-LD | CHICAGO IL | USERRECORD01 | |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-----------------|----------|--------|-------------|--------------|
| 18 | W18CF | ELKHART IN | 138.6 | LIC | BLTT | -20001011AEF |
| 18 | WHNW-LP | GARY IN | 40.5 | LIC | BLTTL | -19920330IQ |
| 18 | WHNW-LP | GARY IN | 40.5 | APP | BSTA | -20070309ACD |
| 25 | W25DW | ARBURY HILLS IL | 1.5 | LIC | BLTTL | -20080609ABO |
| 25 | WMKB-LP | ROCHELLE IL | 131.1 | APP | BSTA | -20070627ABX |
| 25 | WMKB-LP | ROCHELLE IL | 131.1 | LIC | BLTTL | -20070813AFM |
| 25 | W25CL | ROCKFORD IL | 126.2 | LIC | BLTT | -20020307ABP |
| 25 | WCWW-LP | SOUTH BEND IN | 123.3 | LIC | BLTTL | -20021010AAP |
| 29 | WPVS-LP | SHEBOYGAN WI | 135.1 | CP | BPTTL | -20080311ABX |
| 30 | WSPY-LP | PLANO IL | 83.1 | LIC | BLTTL | -19900514IR |
| 32 | WLS-TV | CHICAGO IL | 2.5 | APP | BDRTCDT | -20090630AFT |
| 32 | WMEU-LD | CHICAGO IL | 2.5 | APP | BSTA | -20100429AAJ |

[illegible]

| | | | | | | |
|----|---------|---------------|-------|--------|---------------|--------------|
| 34 | WHTV | JACKSON MI | 282.7 | APP | BPCDT | -20080620AGY |
| 34 | WISN-TV | MILWAUKEE WI | 139.1 | CP | BPCDT | -20100514AEB |
| 34 | WISN-TV | MILWAUKEE WI | 139.1 | LIC | BLCDDT | -20050412ADP |
| 35 | WNIT | SOUTH BEND IN | 123.6 | CP | BPEDT | -20081103ACU |
| 35 | WNIT | SOUTH BEND IN | 123.6 | LIC | BLEDT | -20040106ABJ |
| 36 | WJYS | HAMMOND IN | 0.0 | CP | BPCDT | -20080619AIZ |
| 36 | WJYS | HAMMOND IN | 0.0 | LIC | BLCDDT | -20020801ABI |
| 38 | WGBO-DT | JOLIET IL | 2.5 | CP MOD | BMPCDDT | -20080618AEI |
| 41 | WIFR | FREEPORT IL | 134.8 | CP MOD | BMPCDDT | -20081110ADQ |
| 41 | WIFR-DR | FREEPORT IL | 134.8 | APP | BPRM | -20080620AOH |
| 41 | WIFR | FREEPORT IL | 134.8 | LIC | BLCDDT | -20041012AIQ |
| 41 | WIFR | FREEPORT IL | 134.8 | CP MOD | BMPCDDT | -20050103AFQ |
| 42 | WQRF-TV | ROCKFORD IL | 134.5 | CP MOD | BMPCDDT | -20070207ABW |
| 42 | WNDU-TV | SOUTH BEND IN | 121.9 | CP | BPCDDT | -20080619AAB |
| 42 | WNDU-TV | SOUTH BEND IN | 121.9 | LIC | BLCDDT | -20060717AAG |
| 48 | WHME-TV | SOUTH BEND IN | 126.4 | APP | BPCDDT | -20080619ABC |
| 48 | WBME-TV | RACINE WI | 139.1 | CP MOD | BMPCDDT | -20090709ABY |
| 48 | WBME-TV | RACINE WI | 109.8 | LIC | BMLCDDT | -20070823AED |
| 49 | WAAA-LP | WESTVILLE IN | 64.5 | LIC | BLTTTL | -20070621AAG |
| 33 | WCHU-LD | CHICAGO IL | 2.5 | APP | USERRECORD-01 | |

Total scenarios = 2

Result key: 1
 Scenario 1 Affected station 31
 Before Analysis

Results for: 34N IL ARLINGTON HEIGHTS BLTTA 20050308AAS LIC

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 3508580 | 1706.0 |
| not affected by terrain losses | 3508580 | 1706.0 |
| lost to NTSC IX | 50642 | 23.5 |
| lost to additional IX by ATV | 55725 | 9.8 |
| lost to all IX | 106367 | 33.3 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-------------------|---------|-------------|-----|
| 34N IL CHAMPAIGN | BLTT | 20050921AHY | LIC |
| 34N IN SOUTH BEND | BDISTTL | 20080728AAX | CP |
| 27A IL CHICAGO | BMPCDDT | 20090105ACO | CP |
| 31A IL CHICAGO | BLCDDT | 20090223ABV | LIC |
| 34A WI MILWAUKEE | BPCDDT | 20100514AEB | CP |
| 36A IN HAMMOND | BPCDDT | 20080619AIZ | CP |
| 38A IL JOLIET | BMPCDDT | 20080618AEI | CP |

After Analysis

Results for: 34N IL ARLINGTON HEIGHTS BLTTA 20050308AAS LIC

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 3508580 | 1706.0 |
| not affected by terrain losses | 3508580 | 1706.0 |
| lost to NTSC IX | 50642 | 23.5 |
| lost to additional IX by ATV | 55725 | 11.7 |
| lost to all IX | 106367 | 35.2 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-------------------|--------------|-------------|-----|
| 34N IL CHAMPAIGN | BLTT | 20050921AHY | LIC |
| 34N IN SOUTH BEND | BDISTTL | 20080728AAX | CP |
| 27A IL CHICAGO | BMPCDT | 20090105ACO | CP |
| 31A IL CHICAGO | BLCDT | 20090223ABV | LIC |
| 34A WI MILWAUKEE | BPCDT | 20100514AEB | CP |
| 36A IN HAMMOND | BPCDT | 20080619AIZ | CP |
| 38A IL JOLIET | BMPCDT | 20080618AEI | CP |
| 33A IL CHICAGO | USERRECORD01 | | APP |

Percent new IX = 0.0000%

Result key: 2
 Scenario 2 Affected station 31
 Before Analysis

Results for: 34N IL ARLINGTON HEIGHTS BLTTA 20050308AAS LIC

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 3508580 | 1706.0 |
| not affected by terrain losses | 3508580 | 1706.0 |
| lost to NTSC IX | 50642 | 23.5 |
| lost to additional IX by ATV | 61397 | 15.7 |
| lost to all IX | 112039 | 39.2 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|-------------------|---------|-------------|-----|
| 34N IL CHAMPAIGN | BLTT | 20050921AHY | LIC |
| 34N IN SOUTH BEND | BDISTTL | 20080728AAX | CP |
| 27A IL CHICAGO | BMPCDT | 20090105ACO | CP |
| 31A IL CHICAGO | BLCDT | 20090223ABV | LIC |
| 34A WI MILWAUKEE | BLCDT | 20050412ADP | LIC |
| 36A IN HAMMOND | BPCDT | 20080619AIZ | CP |
| 38A IL JOLIET | BMPCDT | 20080618AEI | CP |

After Analysis

Results for: 34N IL ARLINGTON HEIGHTS BLTTA 20050308AAS LIC

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 3508580 | 1706.0 |
| not affected by terrain losses | 3508580 | 1706.0 |
| lost to NTSC IX | 50642 | 23.5 |
| lost to additional IX by ATV | 61397 | 15.7 |
| lost to all IX | 112039 | 39.2 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|-------------------|--------------|-------------|-----|
| 34N IL CHAMPAIGN | BLTT | 20050921AHY | LIC |
| 34N IN SOUTH BEND | BDISTTL | 20080728AAX | CP |
| 27A IL CHICAGO | BMPCDT | 20090105ACO | CP |
| 31A IL CHICAGO | BLCDT | 20090223ABV | LIC |
| 34A WI MILWAUKEE | BLCDT | 20050412ADP | LIC |
| 36A IN HAMMOND | BPCDT | 20080619AIZ | CP |
| 38A IL JOLIET | BMPCDT | 20080618AEI | CP |
| 33A IL CHICAGO | USERRECORD01 | | APP |

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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