

OET-69 Interference Analysis (KOTA-TV, Rapid City, SD, Channel 2)

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
/export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-22-2013

Record Selected for Analysis

KOTA-TV USERRECORD-01 RAPID CITY SD US
Channel 02 ERP 18.2 kW HAAT 216. m RCAMSL 01325 m
Latitude 044-04-07 Longitude 0103-15-03
Status APP Zone 2 Border Site number: 01
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

| Site number | 1 | | | |
|-------------|--------|-------|------|--------------|
| Azimuth | ERP | HAAT | 28.0 | dBu F(50,90) |
| (Deg) | (kW) | (m) | | (km) |
| 0.0 | 18.200 | 272.3 | | 111.082 |
| 45.0 | 18.200 | 341.6 | | 115.096 |
| 90.0 | 18.200 | 351.1 | | 115.375 |
| 135.0 | 18.200 | 331.8 | | 114.808 |
| 180.0 | 18.200 | 172.4 | | 100.308 |
| 225.0 | 18.200 | 78.2 | | 84.460 |
| 270.0 | 18.200 | 59.0 | | 79.216 |
| 315.0 | 18.200 | 121.3 | | 92.961 |

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap
to Class A stations from site # 01

Class A Evaluation Complete

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

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Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

| | | | | |
|---------|------------------|---------------|--------------|--|
| | Proposed Station | | | |
| Channel | Call | City/State | ARN | |
| 02 | KOTA-TV | RAPID CITY SD | USERRECORD01 | |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-----------------|----------|--------|-------------|-------------|
| 02 | KNOP-TV | NORTH PLATTE NE | 379.2 | LIC | BLCDT | 20110609ABG |

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

| | | | | |
|---------|---------|-----------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 02 | KNOP-TV | NORTH PLATTE NE | BLCDT | -20110609ABG |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|---------------|-----------|
| 02 | KOTA-TV | RAPID CITY SD | 379.2 | PLN | DTVPLN | -DTPV0006 |
| 02 | KOTA-TV | RAPID CITY SD | 379.2 | APP | USERRECORD-01 | |

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

| | | | | |
|---------|---------|---------------|---------------|----------|
| Channel | Call | City/State | Application | Ref. No. |
| 02 | KOTA-TV | RAPID CITY SD | USERRECORD-01 | |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-----------------|----------|--------|-------------|--------------|
| 02 | KNOP-TV | NORTH PLATTE NE | 379.2 | LIC | BLCDT | -20110609ABG |

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 2
 Before Analysis

Results for: 2A SD RAPID CITY USERRECORD01 APP
 HAAT 216.0 m, ATV ERP 18.2 kW

| | | |
|--------------------------------|------------|--------------|
| | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 165753 | 33271.5 |
| not affected by terrain losses | 164044 | 32402.6 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 102 | 24.0 |

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| | | |
|---------------------|-----|------|
| lost to ATV IX only | 102 | 24.0 |
| lost to all IX | 102 | 24.0 |

Potential Interfering Stations Included in above Scenario 1

2A NE NORTH PLATTE BLCDT 20110609ABG LIC

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