

**MINOR CHANGE APPLICATION/
DIGITAL FLASH-CUT
RAPID BROADCASTING COMPANY
K40GS LPTV STATION
CH 40 - 626-632 MHZ - 4.0 KW
RAPID CITY, SOUTH DAKOTA
May 2012**

EXHIBIT A

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

Date: 05-07-2012 Time: 09:17:40

Record Selected for Analysis

K40GS USERRECORD-01 RAPID CITY SD US
Channel 40 ERP 4. kW HAAT 557. m RCAMSL 02265 m FULL SERVICE MASK
Latitude 044-19-42 Longitude 0103-50-03
Status APP Zone 1 Border Site number: 01
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
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 | 3.834 | 721.9 | 61.2 | |
| 45.0 | 3.996 | 735.7 | 61.7 | |
| 90.0 | 3.968 | 601.3 | 58.8 | |
| 135.0 | 2.509 | 455.5 | 52.0 | |
| 180.0 | 0.462 | 368.6 | 39.2 | |
| 225.0 | 0.371 | 466.6 | 40.7 | |
| 270.0 | 0.210 | 505.2 | 38.5 | |
| 315.0 | 2.088 | 598.2 | 54.7 | |

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

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 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 |
| 40 | K40GS | RAPID CITY SD | USERRECORD01 |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 33 | K33CO | RAPID CITY SD | 56.4 | LIC | BLTT | -19950109JB |
| 39 | K39LT-D | PRINGLE SD | 70.7 | LIC | BLDTT | -20110923ABE |
| 39 | KZSD-TV | PRINGLE SD | 70.7 | APP | BDRTEDT | -20100617AAX |
| 40 | K40MO-D | BILLINGS MT | 389.9 | CP | BNPDTL | -20100505AGW |
| 40 | K40KQ-D | WYOLA MT | 314.3 | CP | BNPDTL | -20090825AKC |
| 40 | NEW | BISMARCK ND | 362.8 | APP | BNPDTL | -20100609AHC |
| 40 | K40MR-D | CAPUTA SD | 80.7 | CP | BNPDTL | -20100505AJA |
| 40 | NEW | RELIANCE SD | 339.7 | APP | BNPDTL | -20100510AIX |
| 40 | NEW | CASPER WY | 268.2 | APP | BNPDTL | -20101012AEX |
| 40 | K40MN-D | CHEYENNE WY | 319.7 | CP | BNPDTL | -20100510AER |
| 40 | KDEV-LP | CHEYENNE WY | 365.1 | LIC | BLTTL | -20070315AAI |
| 40 | K40JU-D | CODY, POWELL * WY | 399.0 | LIC | BLDTT | -20081009AMQ |
| 40 | K40MQ-D | GILLETTE WY | 133.0 | CP | BNPDTL | -20100505AIR |
| 40 | K40AQ-D | SHOSHONI WY | 365.6 | LIC | BLDTT | -20110617ACI |
| 41 | K41ML-D | MOORCROFT WY | 72.3 | CP | BNPDTL | -20100505AIL |

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Analysis of Interference to Affected Station 1

Analysis of current record

| | | | | |
|---------|-------|---------------|-------------|-------------|
| Channel | Call | City/State | Application | Ref. No. |
| 33 | K33CO | RAPID CITY SD | BLTT | -19950109JB |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|---------------|--------------|
| 26 | KBHE-TV | RAPID CITY SD | 0.6 | LIC | BLEDT | -20081121AKE |
| 40 | K40GS | RAPID CITY SD | 56.4 | 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. |
| 39 | K39LT-D | PRINGLE SD | BLDTT | -20110923ABE |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|---------------|--------------|
| 39 | KZSD-TV | PRINGLE SD | 0.0 | APP | BDRTEDT | -20100617AAX |
| 40 | K40MR-D | CAPUTA SD | 56.4 | CP | BNPDTL | -20100505AJA |
| 40 | K40GS | RAPID CITY SD | 70.7 | APP | USERRECORD-01 | |

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

| | | | |
|---------|---------|------------|-----------------------|
| Channel | Call | City/State | Application Ref. No. |
| 39 | KZSD-TV | PRINGLE SD | BDRTE DT -20100617AAX |

Stations Potentially Affecting This Station

| | | | | | |
|------|---------|---------------|----------|--------|----------------------|
| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
| 39 | K39LT-D | PRINGLE SD | 0.0 | LIC | BLDTT -20110923ABE |
| 40 | K40MR-D | CAPUTA SD | 56.4 | CP | BNPDTL -20100505AJA |
| 40 | K40GS | RAPID CITY SD | 70.7 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

| | | | |
|---------|---------|-------------|----------------------|
| Channel | Call | City/State | Application Ref. No. |
| 40 | K40MO-D | BILLINGS MT | BNPDTL -20100505AGW |

Stations Potentially Affecting This Station

| | | | | | |
|------|-------|---------------|----------|--------|----------------------|
| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
| 40 | K40GS | RAPID CITY SD | 389.9 | APP | USERRECORD-01 |

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record

| | | | |
|---------|---------|------------|----------------------|
| Channel | Call | City/State | Application Ref. No. |
| 40 | K40KQ-D | WYOLA MT | BNPDTL -20090825AKC |

Stations Potentially Affecting This Station

| | | | | | |
|------|---------|-----------------------|----------|--------|----------------------|
| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
| 40 | KSRE | MINOT ND | 253.5 | LIC | BLEDT -20031104ABX |
| 41 | K41LO-D | GLEN DIVE JUNCTION MT | 0.0 | CP | BNPDTL -20090825ALQ |
| 40 | K40GS | RAPID CITY SD | 314.3 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

| | | | |
|---------|------|-------------|----------------------|
| Channel | Call | City/State | Application Ref. No. |
| 40 | NEW | BISMARCK ND | BNPDTL -20100609AHC |

Stations Potentially Affecting This Station

| | | | | | |
|------|---------|---------------|----------|--------|----------------------|
| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
| 39 | K39LJ-D | BISMARCK ND | 10.1 | CP | BNPDTL -20100505AME |
| 40 | KSRE | MINOT ND | 145.7 | LIC | BLEDT -20031104ABX |
| 41 | K41MG-D | STEELE ND | 55.2 | CP | BNPDTL -20100505AMC |
| 40 | K40GS | RAPID CITY SD | 362.8 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel Call City/State Application Ref. No.
40 K40MR-D CAPUTA SD BNPDTL -20100505AJA

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 39 | K39LT-D | PRINGLE SD | 56.4 | LIC | BLDTT -20110923ABE |
| 39 | KZSD-TV | PRINGLE SD | 56.4 | APP | BDRTEDT -20100617AAX |
| 40 | K40GS | RAPID CITY SD | 80.7 | APP | USERRECORD-01 |

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 7
Before Analysis

Results for: 40A SD CAPUTA BNPDTL 20100505AJA CP

HAAT 179.0 m, ATV ERP 2.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 86247 | 4032.4 |
| not affected by terrain losses | 84274 | 3973.1 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 0 | 0.0 |

Potential Interfering Stations Included in above Scenario 1

After Analysis

Results for: 40A SD CAPUTA BNPDTL 20100505AJA CP

HAAT 179.0 m, ATV ERP 2.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 86247 | 4032.4 |
| not affected by terrain losses | 84274 | 3973.1 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 1510 | 1646.1 |
| lost to ATV IX only | 1510 | 1646.1 |
| lost to all IX | 1510 | 1646.1 |

Potential Interfering Stations Included in above Scenario 1

40A SD RAPID CITY USERRECORD01 APP

Percent new IX = 1.7918%

Worst case new IX 1.7918% Scenario 1

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel Call City/State Application Ref. No.
40 NEW RELIANCE SD BNPDTL -20100510AIX

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|-------|---------------|----------|--------|----------------------|
| 40 | K40GS | RAPID CITY SD | 339.7 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel Call City/State Application Ref. No.
40 NEW CASPER WY BNPDTL -20101012AEX

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 40 | KRMT | DENVER CO | 360.8 | LIC | BLEDT -20061221ACX |
| 40 | KRMT | DENVER CO | 360.8 | CP | BPEDT -20080619AAR |
| 41 | K41MD-D | CASPER WY | 0.0 | CP | BNPDTL -20100324ACI |
| 40 | K40GS | RAPID CITY SD | 268.2 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|-------------|----------------------|
| 40 | K40MN-D | CHEYENNE WY | BNPDTL -20100510AER |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 40 | KRMT | DENVER CO | 219.2 | LIC | BLEDT -20061221ACX |
| 40 | KRMT | DENVER CO | 219.2 | CP | BPEDT -20080619AAR |
| 40 | KDEV-LP | CHEYENNE WY | 45.8 | LIC | BLTTL -20070315AAI |
| 40 | K40GS | RAPID CITY SD | 319.7 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|-------------|----------------------|
| 40 | KDEV-LP | CHEYENNE WY | BLTTL -20070315AAI |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|---------------|----------|--------|----------------------|
| 38 | KPJR-TV | GREELEY CO | 116.7 | LIC | BLCDDT -20090612ADP |
| 39 | KMAH-LP | CHEYENNE WY | 16.9 | LIC | BLTTL -19981201JC |
| 40 | KRMT | DENVER CO | 173.5 | LIC | BLEDT -20061221ACX |
| 40 | KRMT | DENVER CO | 173.5 | CP | BPEDT -20080619AAR |
| 40 | K40MN-D | CHEYENNE WY | 45.8 | CP | BNPDTL -20100510AER |
| 43 | KPXC-TV | DENVER CO | 121.0 | APP | BMPCDDT -20070104ACH |
| 43 | KPXC-TV | DENVER CO | 116.7 | LIC | BLCDDT -20080818ACR |
| 40 | K40GS | RAPID CITY SD | 365.1 | APP | USERRECORD-01 |

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 12

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|-------------------|----------------------|
| 40 | K40JU-D | CODY, POWELL * WY | BLDDT -20081009AMQ |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|-------|---------------|----------|--------|----------------------|
| 40 | K40GS | RAPID CITY SD | 399.0 | APP | USERRECORD-01 |

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 13

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|-------------|----------------------|
| 40 | K40MQ-D | GILLETTE WY | BNPDTL -20100505AIR |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|-------|---------------|----------|--------|----------------------|
| 40 | K40GS | RAPID CITY SD | 133.0 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 14

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|-------------|----------------------|
| 40 | K40AQ-D | SHOSHONI WY | BLDTT -20110617ACI |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|-------|---------------|----------|--------|----------------------|
| 40 | K40GS | RAPID CITY SD | 365.6 | APP | USERRECORD-01 |

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 15

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|--------------|----------------------|
| 41 | K41ML-D | MOORCROFT WY | BNPDTL -20100505AIL |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|-------|---------------|----------|--------|----------------------|
| 40 | K40GS | RAPID CITY SD | 72.3 | APP | USERRECORD-01 |

Proposal causes no interference

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Analysis of Interference to Affected Station 16

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|-------|---------------|----------------------|
| 40 | K40GS | RAPID CITY SD | USERRECORD-01 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|--------------|----------|--------|----------------------|
| 39 | K39LT-D | PRINGLE SD | 70.7 | LIC | BLDTT -20110923ABE |
| 39 | KZSD-TV | PRINGLE SD | 70.7 | APP | BDRTEDT -20100617AAX |
| 40 | K40MR-D | CAPUTA SD | 80.7 | CP | BNPDTL -20100505AJA |
| 40 | K40MQ-D | GILLETTE WY | 133.0 | CP | BNPDTL -20100505AIR |
| 41 | K41ML-D | MOORCROFT WY | 72.3 | CP | BNPDTL -20100505AIL |

Total scenarios = 1

Result key:

2

Scenario 1 Affected station

16

Before Analysis

Results for: 40A SD RAPID CITY USERRECORD01 APP
HAAT 557.0 m, ATV ERP 4.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 77150 | 8317.3 |
| not affected by terrain losses | 57802 | 7514.1 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 4000 | 420.7 |
| lost to ATV IX only | 4000 | 420.7 |
| lost to all IX | 4000 | 420.7 |

Potential Interfering Stations Included in above Scenario 1

40A SD CAPUTA BNPDTL 20100505AJA CP

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED