

ENGINEERING STATEMENT
TECHNICAL INFORMATION IN SUPPORT
OF A DIGITAL CONSTRUCTION PERMIT FOR
AN EXISTING TELEVISION TRANSLATOR
K20DY-D, BELGRADE, MONTANA
CHANNEL 20 0.15 KW MAX ERP 1737.5 METERS RCAMSL

NOVEMBER 2006

COHEN, DIPPELL AND EVERIST, P.C.
CONSULTING ENGINEERS
RADIO AND TELEVISION
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That his qualifications are a matter of record in the Federal Communications Commission;

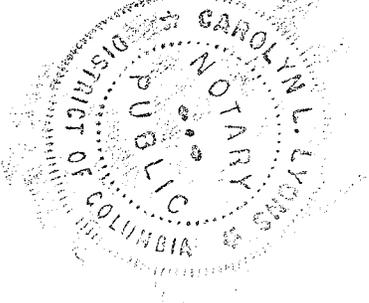
That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.



Donald G. Everist
District of Columbia
Professional Engineer
Registration No. 5714

Subscribed and sworn to before me this 17th day of November, 2006.



Notary Public

My Commission Expires: 2/28/2008

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington)
) ss
District of Columbia)

Martin R. Doczkat being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer of the Pennsylvania State University, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

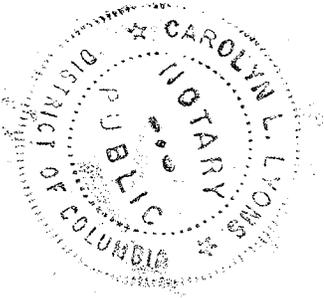


Martin R. Doczkat

Subscribed and sworn to before me this 17th day of November, 2006.


Notary Public

My Commission Expires: 2/28/2008



Introduction

This engineering statement has been prepared on behalf of Montana State University, licensee of TV translator facility K20DY, Belgrade, Montana (Facility ID #33758). This statement supports the licensee's request to convert to DTV operation on the currently licensed in-core analog Channel 20, commonly referred to as "flash-cut" with a DTV effective radiated power ("ERP") of 0.15 kW at a radiation center above mean sea level ("RCAMSL") of 1737.5 meters.

Transmitter Site

The currently licensed antenna is mounted to the existing tower where the authorized K20DY facility is currently located. The tower is located 4.5 miles southwest of Four Corners Junction where State Highways 191, 291, and 289 intersect. This location can be found on United States Geological Survey quadrangle map, Anceney, Montana. Tower registration is not required. There are no airports within 8 kilometers (5 miles) of the tower site and the overall height of the existing tower above ground level is less than 200 feet. The geographic coordinates of the site are as follows:

North Latitude: 45° 38' 15"

West Longitude: 111° 16' 01"

NAD-27

Elevation Data

| | |
|-------------------------------------------------------------------------------------------------|------------------------------|
| Elevation of site above mean sea level | 1706.5 meters 5598.8 feet |
| Overall height above ground of the existing antenna structure (including appurtenances) | 31.5 meters 103.3 feet |
| Overall height above mean sea level of the existing antenna structure (including appurtenances) | 1738 meters 5702.1 feet |

| | |
|-----------------------------------------------------|----------------------------|
| Center of radiation of antenna above ground level | 30.5 meters 100.1 feet |
| Center of radiation of antenna above mean sea level | 1737 meters 5698.8 feet |

Equipment Data

| | |
|--------------------|----------------------------------------------------------------------|
| Transmitter: | Type-Approved |
| Emission Mask: | Stringent |
| Transmission Line: | Andrew Type HJ7-50A, 1-5/8", 40.0 meters with 86.5% efficiency |
| Antenna: | Scala, 4DR-8-2HW with maximum gain of 7.08 (8.5 dB) and no beam tilt |

Power Data

| | | |
|-----------------------------------|----------|------------|
| Transmitter Power Output | 0.024 kW | -16.11 dBk |
| Transmission Line Efficiency/Loss | 86.5% | 0.63 dB |
| Input Power to the Antenna | 0.021 kW | -16.74 dBk |
| Antenna Power Gain Maximum | 7.08 | 8.5 dB |
| Effective Radiated Power Maximum | 0.15 kW | -8.24 dBk |

As indicated above, the transmitter with typical power output of 0.024 kW will deliver 0.021 kW to the input of the antenna. The antenna, having a maximum gain of 7.08, will produce maximum ERP of 0.15 kW at a bearing of N 15° E. A coverage map of the proposed facility has been included as Exhibit E-1 of this report. The antenna azimuth pattern should be on file at the Commission as the currently licensed directional "off-the-shelf" antenna for K20DY with no alterations has been proposed.

Other Broadcast Facilities

A brief analysis was completed to determine the presence of stations in the vicinity of the K20DY tower using the October 4, 2006, data contained within the Commission's Consolidated Database System. Two authorized full-service FM radio stations and an FM translator station were found within 500 meters of the tower. Also, one authorized low-power television station and a Class A station were also found within 500 meters in addition to the applicant's currently licensed K20DY facility. The search did not return any AM stations within 5 km of the proposed site. Although no adverse effects are expected due to the proposed changes to K20DY, the applicant will install filters or take other measures necessary to resolve any problems provided they are related to the changes proposed in this application.

Interference Analysis

A study of predicted interference caused by the proposed K20DY low-power digital operation has been performed using the Longley-Rice program for which the source data has been posted by the Commission on its website at http://www.fcc.gov/oet/dtv/dtv_apps.html. The FCC's FORTRAN-77 code was modified only to the extent necessary (primarily input/output handling) for the program to run on a Microsoft Windows XP/Intel platform. Comparison of service/interference areas and population indicates this model closely matches the FCC's digital low-power TV/translator evaluation program. Best efforts have been made to use data and calculation identical to the FCC's program. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 1 sq. km. Using 3-second terrain data sampled approximately every 1.0 km at one-degree azimuth intervals with 1990 census centroids, all studies are based upon data in the current CDBS database update of the FCC's engineering database. A Longley-Rice study was performed with the proposed K20DY low-power digital facilities and all relevant stations listed in the FCC database as of November 17, 2006. The study results and the included stations are listed in Exhibit E-2.

Environmental Statement

An evaluation has been made to determine compliance with the FCC specified standards for human exposure to radio frequency field (“RFF”) as set forth in the OET Bulletin No. 65, Edition 97-01, August 1997. A proposed maximum effective radiated power of 0.15 kW, antenna radiation center of 30.5 meters above ground level, and a downward radiation factor of 0.2 will cause less than $0.3 \mu\text{W}/\text{cm}^2$ near the base of the tower. This is less than 0.1% of the maximum allowed uncontrolled exposure value of $339.3 \mu\text{W}/\text{cm}^2$ on Channel 20. K20DY is predicted to cause less than 5% of its maximum allowed uncontrolled exposure value and is therefore not responsible for identifying other potential RFF contributors in order to ensure compliance with FCC guidelines for maximum permissible exposure.

With respect to work performed near the radiating elements, the licensee will establish procedures in coordination with other operating stations to ensure that the workers are not exposed to levels of radio frequency radiation levels exceeding current FCC guidelines for controlled exposure.

Environmental Assessment

An environmental assessment (“EA”) is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the licensee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.

- (a)(4) The proposed facilities located on a tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.
- (a)(6) The existing tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to equip the tower with high intensity white lights unless required by the FAA.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

EXHIBIT E-1
COMPARISON
OF THE CURRENTLY LICENSED
ANALOG PROTECTED CONTOUR
AND THE PROPOSED DLPTV PROTECTED CONTOUR
USING THE LICENSED
HEIGHT, COORDINATES AND CHANNEL 20 ANTENNA
FOR
K20DY, BELGRADE, ETC., MONTANA
CHANNEL 20 0.15kW ERP DA 1737.5 METERS RCAMSL
NOVEMBER 2006

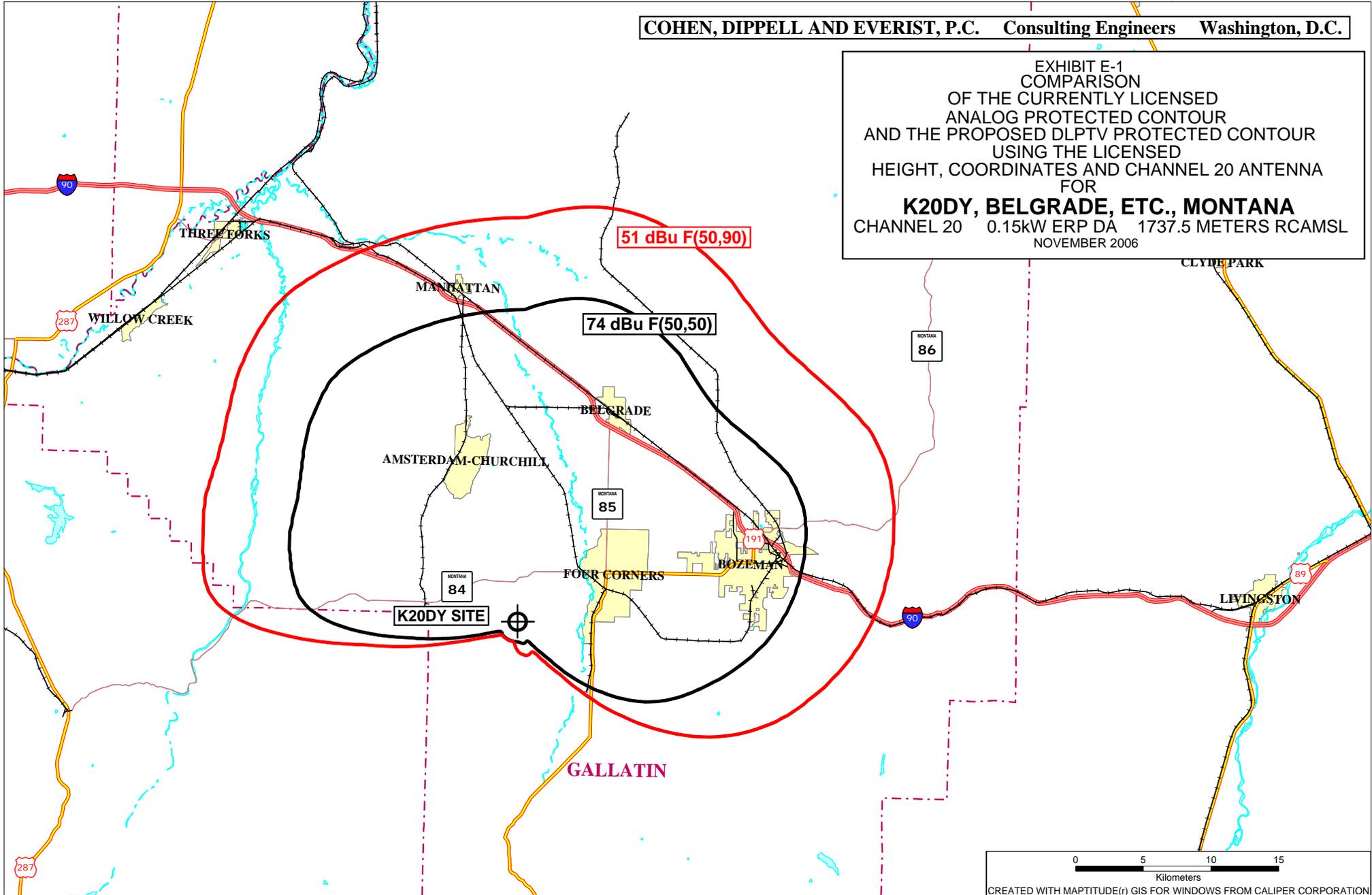


EXHIBIT E-2
DLPTV ANALYSIS RESULTS
FOR THE PROPOSED DIGITAL "FLASH-CUT"
OPERATION OF
K20DY-D, BELGRADE, MONTANA

DLPTV Results - K20DY

1990 Census data selected
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 11-17-2006 Time: 16:57:16

Record Selected for Analysis

K20DY TGL -2384TGL BELGRADE, ETC. MT US
 Channel 20 ERP 0.15 kW HAAT 182 m RCAMSL 1737 m
 Latitude 45 -38-15 Longitude 111 -16-1
 Status LIC Zone 2 Border DT Mask Stringent
 Dir Antenna Make CDB Model 0000000001060 Beam tilt N Ref Azimuth 15
 Last update Cutoff date 18991231 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

Facility meets maximum power limit

| Azimuth (Deg) | ERP (kW) | HAAT (m) | 51.0 dBu F(50, 90) (km) |
|---------------|----------|----------|-------------------------|
| 0.0 | 0.119 | 321.6 | 29.7 |
| 45.0 | 0.093 | 314.3 | 28.3 |
| 90.0 | 0.114 | 226.2 | 25.9 |
| 135.0 | 0.003 | 122.3 | 7.7 |
| 180.0 | 0.000 | 59.6 | 2.4 |
| 225.0 | 0.000 | 33.0 | 1.8 |
| 270.0 | 0.036 | 253.6 | 21.2 |
| 315.0 | 0.143 | 263.9 | 28.8 |

Contour Overlap to Proposed Station

Station
K19DQ 19 MONTPELIER ID BLTT19980626JF

Station inside contour of Digital LPTV station
K20DY 20 BELGRADE, ETC. MT TGL 2384TGL

Station
K19CY 19 ROCKLAND ID BLTT19920827JD

Station inside contour of Digital LPTV station
K20DY 20 BELGRADE, ETC. MT TGL 2384TGL

Station
KMBA-LP 19 ONTARIO OR BLTTL19950403ID

Station inside contour of Digital LPTV station
K20DY 20 BELGRADE, ETC. MT TGL 2384TGL

Station
K20DY 20 BELGRADE, ETC. MT BLTT20050505AB0

Station inside contour of Digital LPTV station
K20DY 20 BELGRADE, ETC. MT TGL 2384TGL

Station

K20BP 20 PHILLIPS COUNTY DLPTV Results - K20DY
MT BLTT19890313IR

Station inside contour of Digital LPTV station
K20DY 20 BELGRADE, ETC. MT TGL 2384TGL

Station
K21CE 21 MONTPELIER ID BLTT19980709JI

Station inside contour of Digital LPTV station
K20DY 20 BELGRADE, ETC. MT TGL 2384TGL

Station
KHBB-LP 21 HELENA MT BLTT19930108JL

Station inside contour of Digital LPTV station
K20DY 20 BELGRADE, ETC. MT TGL 2384TGL

Contour Overlap Evaluation to Proposed Station Complete

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 = 373.7km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

| | | |
|---------|--------------------------------------------|-------------|
| Channel | Proposed Station | ARN |
| 20 | Call City/State K20DY BELGRADE, ETC. MT | TGL 2384TGL |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|---------------------|----------|--------|-------------|--------------|
| 16 | K16EN | SANDPOINT ID | 508.7 | APP | BMPTT | -20040615AAC |
| 16 | K16EN | SANDPOINT ID | 508.7 | LIC | BLTT | -20030811AGS |
| 16 | K16AZ | GLASGOW MT | 452.8 | LIC | BLTTL | -19880401NV |
| 17 | K17BT | LIVINGSTON MT | 56.2 | LIC | BLTTL | -19880316ID |
| 18 | KWYB | BUTTE MT | 99.8 | LIC | BLCT | -19961010KF |
| 19 | NEW | LEADORE ID | 191.2 | APP | BDCCDTT | -20061030ABR |
| 19 | KWYB | BUTTE MT | 99.8 | CP | BPCDT | -19991101AJX |
| 19 | K19CO | EMIGRANT MT | 56.2 | LIC | BLTT | -19911118JH |
| 20 | 950306KF | IDAHO FALLS ID | 215.5 | CP | BPCT | -19950306KF |
| 20 | KSVT-LP | KETCHUM ID | 332.2 | LIC | BLTTL | -19960911JE |
| 20 | K20HW | MCCALL ID | 386.0 | LIC | BLTTL | -20060913ABJ |
| 20 | NEW | PRESTON ID | 392.5 | APP | BDCCDTL | -20061026AFU |
| 20 | K20DY | BELGRADE, ETC. MT | 0.0 | LIC | BLTT | -20050505ABO |
| 20 | K20HB | BILLINGS MT | 218.5 | LIC | BLTT | -20041123AKE |
| 20 | K20CP | ELMO MT | 329.6 | LIC | BLTT | -19911029JI |
| 20 | NEW | LIVINGSTON, ETC. MT | 56.2 | APP | BSFDTL | -20060630BDX |
| 20 | K20BP | PHILLIPS COUNTY MT | 329.1 | LIC | BLTT | -19890313IR |
| 21 | K52CO | MALAD CITY ID | 402.5 | CP | BDSTT | -20051116AEZ |
| 21 | K21CE | MONTPELIER ID | 361.1 | LIC | BLTT | -19980709JI |
| 21 | K21HU | BUTTE MT | 107.5 | CP | BNPTTL | -20000830BCV |
| 21 | NEW | EMIGRANT MT | 56.2 | APP | BSFDTT | -20060630CWX |
| 21 | KHBB-LP | HELENA MT | 138.7 | CP | BDFCDTL | -20060331BNR |
| 21 | KHBB-LP | HELENA MT | 138.7 | LIC | BLTT | -19930108JL |
| 22 | K22HD | BUTTE MT | 111.0 | CP | BNPTTL | -20000831B0I |
| 22 | NEW | GREAT FALLS MT | 197.7 | APP | BNPTTL | -20000830BDC |
| 23 | NEW | BOZEMAN MT | 10.7 | APP | BNPTTL | -20000807AAO |

DLPTV Results - K20DY

| | | | | | | |
|----|---------|---------------------|-------|-----|--------|--------------|
| 23 | NEW | BOZEMAN MT | 16.6 | APP | BNPTTL | -20000831CJY |
| 23 | NEW | HELENA MT | 136.4 | APP | BNPTTL | -20000829AJY |
| 24 | KBTZ | BUTTE MT | 99.8 | LIC | BLCT | -20030502ABB |
| 27 | K27CD | BOULDER MT | 97.3 | LIC | BLTTL | -19910322IA |
| 27 | K27DL | EMIGRANT MT | 56.2 | LIC | BLTT | -19901226IX |
| 28 | KWYB-LP | BOZEMAN MT | 31.2 | LIC | BLTTL | -19971008JB |
| 28 | K28AZ | WEST YELLOWSTONE MT | 98.5 | LIC | BLTT | -19880426IB |

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Analysis of Interference to Affected Station 1

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|--------------|-------------|--------------|
| 16 | K16EN | SANDPOINT ID | BMPTT | -20040615AAC |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|--------|-------------------|----------|--------|-------------|--------------|
| 15 | KHQ-DT | SPOKANE WA | 94.7 | PLN | DTVPLN | -DTPV0192 |
| 15 | KHQ-TV | SPOKANE WA | 94.7 | CP MOD | BMPCDT | -20050902ABX |
| 15 | KHQ-TV | SPOKANE WA | 94.7 | LIC | BLCDT | -20050630AAE |
| 16 | NEW | COEUR D'ALENE ID | 66.7 | APP | BSFDTL | -20060630COK |
| 16 | NEW | KALISPELL MT | 176.1 | APP | BNPTT | -20000803ABH |
| 20 | K20DY | BELGRADE, ETC. MT | 508.7 | LIC | TGL | -2384TGL |
| 24 | KQUP | PULLMAN WA | 94.9 | APP | BMPCDT | -20030903AAQ |

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|--------------|-------------|--------------|
| 16 | K16EN | SANDPOINT ID | BLTT | -20030811AGS |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|--------|-------------------|----------|--------|-------------|--------------|
| 15 | KHQ-DT | SPOKANE WA | 94.7 | PLN | DTVPLN | -DTPV0192 |
| 15 | KHQ-TV | SPOKANE WA | 94.7 | CP MOD | BMPCDT | -20050902ABX |
| 15 | KHQ-TV | SPOKANE WA | 94.7 | LIC | BLCDT | -20050630AAE |
| 16 | NEW | COEUR D'ALENE ID | 66.7 | APP | BSFDTL | -20060630COK |
| 16 | NEW | KALISPELL MT | 176.1 | APP | BNPTT | -20000803ABH |
| 20 | K20DY | BELGRADE, ETC. MT | 508.7 | LIC | TGL | -2384TGL |
| 24 | KQUP | PULLMAN WA | 94.9 | APP | BMPCDT | -20030903AAQ |

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|------------|-------------|-------------|
| 16 | K16AZ | GLASGOW MT | BLTTL | -19880401NV |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|------|-------------|----------|--------|-------------|--------------|
| 16 | NEW | BILLINGS MT | 304.0 | APP | BNPEDT | -20060809AJ0 |

DLPTV Results - K20DY

| | | | | | | |
|----|-------|-------------------|-------|-----|------|--------------|
| 16 | KTGF | GREAT FALLS MT | 358.2 | CP | BPCT | -20041119ADZ |
| 20 | K20DY | BELGRADE, ETC. MT | 452.8 | LIC | TGL | -2384TGL |

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|---------------|-------------|-------------|
| 17 | K17BT | LIVINGSTON MT | BLTTL | -198803161D |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 16 | KCTZ-DT | BOZEMAN MT | 26.4 | PLN | DTVPLN | -DTVP0219del |
| 17 | KISU-DT | POCATELLO ID | 287.0 | PLN | DTVPLN | -DTVP0246 |
| 17 | KISU-TV | POCATELLO ID | 287.0 | LIC | BLEDT | -20030131AHZ |
| 17 | KTVQ-DT | BILLINGS MT | 163.2 | PLN | DTVPLN | -DTVP0257 |
| 17 | KMMF | MISSOULA MT | 295.6 | LIC | BLCT | -20021219AAW |
| 20 | K20DY | BELGRADE, ETC. MT | 56.2 | LIC | TGL | -2384TGL |
| 32 | KBTZ-LP | BOZEMAN MT | 26.4 | LIC | BLTTL | -19990811JJ |

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

NTSC Baseline Analysis

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|-----------|
| 18 | KWYB | BUTTE MT | DTVPLN | -NPLN0864 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------|----------|--------|-------------|--------------|
| 14 | KTVH-DT | HELENA MT | 107.0 | PLN | DTVPLN | -DTVP0130 |
| 15 | KXLF-DT | BUTTE MT | 0.1 | PLN | DTVPLN | -DTVP0167 |
| 16 | KCTZ-DT | BOZEMAN MT | 127.4 | PLN | DTVPLN | -DTVP0219del |
| 17 | NEW | MISSOULA MT | 147.6 | PLN | DTVPLN | -NPLN0958 |
| 18 | KBGH-DT | FILER ID | 396.5 | PLN | DTVPLN | -DTVP0287 |
| 18 | KSVI-DT | BILLINGS MT | 317.9 | PLN | DTVPLN | -DTVP0298 |
| 19 | KWYB-DT | BUTTE MT | 0.0 | PLN | DTVPLN | -DTVP0343 |

| | | | |
|--------------------------------|------------|--------------|-----|
| Results for: 18N MT BUTTE | DTVPLN | NPLN0864 | PLN |
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 74416 | 24340.9 | |
| not affected by terrain losses | 56008 | 13644.2 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 0 | 32.9 | |
| lost to all IX | 0 | 32.9 | |

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|-------------|
| 18 | KWYB | BUTTE MT | BLCT | -19961010KF |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------|----------|--------|-------------|--------------|
| 14 | KTVH | HELENA MT | 107.0 | APP | BMPCDT | -20060628ACX |
| 14 | KTVH | HELENA MT | 107.0 | CP | BPCDT | -19991029AAX |
| 14 | KTVH-DT | HELENA MT | 107.0 | PLN | DTVPLN | -DTVP0130 |
| 15 | KXLF-DT | BUTTE MT | 0.1 | PLN | DTVPLN | -DTVP0167 |

DLPTV Results - K20DY

| | | | | | | |
|----|---------|-------------------|-------|-----|--------|--------------|
| 16 | KCTZ-DT | BOZEMAN MT | 127.4 | PLN | DTVPLN | -DTVP0219del |
| 17 | KMMF | MISSOULA MT | 146.9 | LIC | BLCT | -20021219AAW |
| 18 | KBGH-DT | FILER ID | 396.5 | PLN | DTVPLN | -DTVP0287 |
| 18 | KSVI | BILLINGS MT | 317.9 | CP | BPCDT | -19991029ACI |
| 18 | KSVI-DT | BILLINGS MT | 317.9 | PLN | DTVPLN | -DTVP0298 |
| 19 | KWYB | BUTTE MT | 0.0 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 0.0 | PLN | DTVPLN | -DTVP0343 |
| 20 | K20DY | BELGRADE, ETC. MT | 99.8 | LIC | TGL | -2384TGL |

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. |
|---------|------|------------|-------------|--------------|
| 19 | NEW | LEADORE ID | BCCDTT | -20061030ABR |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 19 | KBGH | FILER ID | 237.0 | LIC | BLET | -19940921KE |
| 19 | KWYB | BUTTE MT | 159.6 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 159.6 | PLN | DTVPLN | -DTVP0343 |
| 20 | K20DY | BELGRADE, ETC. MT | 191.2 | LIC | TGL | -2384TGL |

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 7

DTV Baseline Analysis

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|-----------|
| 19 | KWYB-DT | BUTTE MT | DTVPLN | -DTVP0343 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|------|------------|----------|--------|-------------|-----------|
| 18 | KWYB | BUTTE MT | 0.0 | PLN | DTVPLN | -NPLN0864 |
| 19 | KBGH | FILER ID | 396.5 | PLN | DTVPLN | -NPLN0452 |

Results for: 19A MT BUTTE DTVPLN DTVP0343 PLN

| | | | |
|--------------------------------|----------|------------|--------------|
| HAAT | 585.0 m, | ATV ERP | 111.0 kW |
| | | POPULATION | AREA (sq km) |
| within Noise Limited Contour | | 74568 | 24364.9 |
| not affected by terrain losses | | 57613 | 14874.8 |
| 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 |

NTSC Baseline Analysis

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|-----------|
| 18 | KWYB | BUTTE MT | DTVPLN | -NPLN0864 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------|----------|--------|-------------|--------------|
| 14 | KTVH-DT | HELENA MT | 107.0 | PLN | DTVPLN | -DTVP0130 |
| 15 | KXLF-DT | BUTTE MT | 0.1 | PLN | DTVPLN | -DTVP0167 |
| 16 | KCTZ-DT | BOZEMAN MT | 127.4 | PLN | DTVPLN | -DTVP0219del |
| 17 | NEW | MISSOULA MT | 147.6 | PLN | DTVPLN | -NPLN0958 |
| 18 | KBGH-DT | FILER ID | 396.5 | PLN | DTVPLN | -DTVP0287 |
| 18 | KSVI-DT | BILLINGS MT | 317.9 | PLN | DTVPLN | -DTVP0298 |

DLPTV Results - K20DY
 19 KWYB-DT BUTTE MT 0.0 PLN DTVPLN -DTVPO343

Results for: 18N MT BUTTE DTVPLN NPLN0864 PLN
 POPULATION AREA (sq km)
 within Noise Limited Contour 74416 24340.9
 not affected by terrain losses 56008 13644.2
 lost to NTSC IX 0 0.0
 lost to additional IX by ATV 0 32.9
 lost to all IX 0 32.9

Analysis of current record
 Channel Call City/State Application Ref. No.
 19 KWYB BUTTE MT BPCDT -19991101AJX

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|-------|-------------------|----------|--------|-------------|-------------|
| 18 | KWYB | BUTTE MT | 0.0 | LIC | BLCT | -19961010KF |
| 19 | KBGH | FILER ID | 396.5 | LIC | BLET | -19940921KE |
| 20 | K20DY | BELGRADE, ETC. MT | 99.8 | LIC | TGL | -2384TGL |

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 7
 Before Analysis

Results for: 19A MT BUTTE BPCDT 19991101AJX CP
 HAAT 585.0 m, ATV ERP 125.0 kW
 POPULATION AREA (sq km)
 within Noise Limited Contour 75196 25424.1
 not affected by terrain losses 61030 15582.5
 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: 19A MT BUTTE BPCDT 19991101AJX CP
 HAAT 585.0 m, ATV ERP 125.0 kW
 POPULATION AREA (sq km)
 within Noise Limited Contour 75196 25424.1
 not affected by terrain losses 61030 15582.5
 lost to NTSC IX 0 0.0
 lost to additional IX by ATV 288 75.7
 lost to ATV IX only 288 75.7
 lost to all IX 288 75.7

Potential Interfering Stations Included in above Scenario 1

20A MT BELGRADE, ETC. TGL 2384TGL LIC

#####

Analysis of Interference to Affected Station 8

Analysis of current record
 Channel Call City/State Application Ref. No.
 19 K19CO EMI GRANT MT BLTT -19911118JH

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|------|------------|----------|--------|-------------|----------|
|------|------|------------|----------|--------|-------------|----------|

| DLPTV Results - K20DY | | | | | | |
|-----------------------|---------|-------------------|-------|-----|--------|--------------|
| 16 | KCTZ-DT | BOZEMAN MT | 40.0 | PLN | DTVPLN | -DTVP0219del |
| 19 | KWYB | BUTTE MT | 155.2 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 155.2 | PLN | DTVPLN | -DTVP0343 |
| 19 | NEW | JACKSON WY | 208.3 | APP | BNPTTL | -20000830BKs |
| 20 | K20DY | BELGRADE, ETC. MT | 56.2 | LIC | TGL | -2384TGL |

#####

Analysis of Interference to Affected Station 9

NTSC Baseline Analysis

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|----------------|-------------|-----------|
| 20 | NEW | IDAHO FALLS ID | DTVPLN | -NPLN0455 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------------|----------|--------|-------------|-----------|
| 17 | KISU-DT | POCATELLO ID | 0.2 | PLN | DTVPLN | -DTVP0246 |
| 19 | KBGH | FILER ID | 166.0 | PLN | DTVPLN | -NPLN0452 |
| 20 | NEW | SALT LAKE CITY UT | 318.1 | PLN | DTVPLN | -NPLN1559 |
| 23 | KPVI -DT | POCATELLO ID | 69.4 | PLN | DTVPLN | -DTVP0492 |
| 35 | KXTF | TWIN FALLS ID | 165.9 | PLN | DTVPLN | -NPLN0478 |

| Results for: 20N ID IDAHO FALLS | | DTVPLN | NPLN0455 | PLN |
|---------------------------------|--|------------|--------------|-----|
| | | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | | 221331 | 23275.9 | |
| not affected by terrain losses | | 219231 | 21089.7 | |
| lost to NTSC IX | | 10 | 335.1 | |
| lost to additional IX by ATV | | 106 | 19.9 | |
| lost to all IX | | 116 | 355.1 | |

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|----------|----------------|-------------|-------------|
| 20 | 950306KF | IDAHO FALLS ID | BPCT | -19950306KF |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------------|----------|--------|-------------|--------------|
| 17 | KISU-DT | POCATELLO ID | 63.5 | PLN | DTVPLN | -DTVP0246 |
| 17 | KISU-TV | POCATELLO ID | 63.6 | LIC | BLEDT | -20030131AHZ |
| 20 | K20DY | BELGRADE, ETC. MT | 215.5 | LIC | TGL | -2384TGL |
| 20 | KTMW | SALT LAKE CITY UT | 346.1 | CP MOD | BMPCT | -19990308KF |
| 23 | KPVI | POCATELLO ID | 98.7 | LIC | BLCDT | -20060706AEF |
| 23 | KPVI -DT | POCATELLO ID | 98.6 | PLN | DTVPLN | -DTVP0492 |
| 35 | KXTF | TWIN FALLS ID | 229.5 | LIC | BLCT | -19890131KI |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 10

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|------------|-------------|-------------|
| 20 | KSVT-LP | KETCHUM ID | BLTTL | -19960911JE |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|----------------|----------|--------|-------------|--------------|
| 16 | KMVT-DT | TWIN FALLS ID | 101.5 | PLN | DTVPLN | -DTVP0205 |
| 17 | KISU-DT | POCATELLO ID | 140.8 | PLN | DTVPLN | -DTVP0246 |
| 17 | KISU-TV | POCATELLO ID | 140.7 | LIC | BLEDT | -20030131AHZ |
| 18 | KBGH-DT | FILER ID | 101.6 | PLN | DTVPLN | -DTVP0287 |
| 19 | KBGH | FILER ID | 101.6 | LIC | BLET | -19940921KE |
| 20 | KITL-LP | BOISE ID | 140.3 | LIC | BLTTL | -20060303ABS |
| 20 | 950306KF | IDAHO FALLS ID | 196.4 | CP | BPCT | -19950306KF |

DLPTV Results - K20DY

| | | | | | | |
|----|---------|-------------------|-------|--------|--------|--------------|
| 20 | NEW | TWIN FALLS ID | 101.5 | APP | BSFDTL | -20060630ALD |
| 20 | K20DY | BELGRADE, ETC. MT | 332.2 | LIC | TGL | -2384TGL |
| 20 | KTMW | SALT LAKE CITY UT | 378.4 | CP MOD | BMPCT | -19990308KF |
| 22 | KIPT-DT | TWIN FALLS ID | 101.6 | PLN | DTVPLN | -DTVP0452 |
| 24 | KIVI | NAMPA ID | 137.3 | LIC | BLCDT | -20060724ADJ |
| 24 | KIVI-DT | NAMPA ID | 137.3 | PLN | DTVPLN | -DTVP0531 |
| 34 | KXTF-DT | TWIN FALLS ID | 101.7 | PLN | DTVPLN | -DTVP0882 |
| 35 | KXTF | TWIN FALLS ID | 101.7 | LIC | BLCT | -19890131KI |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 11

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|------------|-------------|--------------|
| 20 | K20HW | MCCALL ID | BLTTL | -20060913ABJ |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------------|----------|--------|-------------|--------------|
| 20 | KITL-LP | BOISE ID | 130.2 | LIC | BLTTL | -20060303ABS |
| 20 | 950306KF | IDAHO FALLS ID | 352.7 | CP | BPCT | -19950306KF |
| 20 | K20DY | BELGRADE, ETC. MT | 386.0 | LIC | TGL | -2384TGL |
| 24 | KIVI | NAMPA ID | 128.4 | LIC | BLCDT | -20060724ADJ |
| 24 | KIVI-DT | NAMPA ID | 128.4 | PLN | DTVPLN | -DTVP0531 |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 12

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|--------------|
| 20 | NEW | PRESTON ID | BDCCTL | -20061026AFU |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------------|----------|--------|-------------|--------------|
| 19 | K19EW | PRESTON ID | 0.0 | LIC | BLTT | -20030624AAH |
| 20 | 950306KF | IDAHO FALLS ID | 182.6 | CP | BPCT | -19950306KF |
| 20 | K20DY | BELGRADE, ETC. MT | 392.5 | LIC | TGL | -2384TGL |
| 20 | KTMW | SALT LAKE CITY UT | 167.4 | CP MOD | BMPCT | -19990308KF |
| 20 | K20ER | TOOELE UT | 166.8 | LIC | BLTT | -19950710IE |
| 21 | K21HH | PRESTON ID | 0.0 | LIC | BLTT | -20040503AFI |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 13

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|-------------------|-------------|--------------|
| 20 | K20DY | BELGRADE, ETC. MT | BLTT | -20050505ABO |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|------------|----------|--------|-------------|--------------|
| 16 | KCTZ-DT | BOZEMAN MT | 31.3 | PLN | DTVPLN | -DTVP0219del |
| 19 | KWYB | BUTTE MT | 99.8 | CP | BPCDT | -19991101AJX |

| | | | | | | |
|----|----------|---------------------|-------|-----------------------|--------|--------------|
| | | | | DLPTV Results - K20DY | | |
| 19 | KWYB-DT | BUTTE MT | 99.8 | PLN | DTVPLN | -DTVPO343 |
| 20 | 950306KF | IDAHO FALLS ID | 215.5 | CP | BPCT | -19950306KF |
| 20 | K20DY | BELGRADE, ETC. MT | 0.0 | LIC | TGL | -2384TGL |
| 20 | NEW | LIVINGSTON, ETC. MT | 56.2 | APP | BSFDTL | -20060630BDX |

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 13
 Before Analysis

| | | | |
|------------------------------------|------------|--------------|-----|
| Results for: 20N MT BELGRADE, ETC. | BLTT | 20050505AB0 | LIC |
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 40929 | 985.5 | |
| not affected by terrain losses | 40885 | 939.4 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 0 | 0.0 | |
| lost to all IX | 0 | 0.0 | |

Potential Interfering Stations Included in above Scenario 1

After Analysis

| | | | |
|------------------------------------|------------|--------------|-----|
| Results for: 20N MT BELGRADE, ETC. | BLTT | 20050505AB0 | LIC |
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 40929 | 985.5 | |
| not affected by terrain losses | 40885 | 939.4 | |
| lost to NTSC IX | 0 | 0.0 | |
| lost to additional IX by ATV | 40810 | 879.7 | |
| lost to all IX | 40810 | 879.7 | |

Potential Interfering Stations Included in above Scenario 1

20A MT BELGRADE, ETC. TGL 2384TGL LIC

The following station failed the de minimis interference criteria.
 20D MT BELGRADE, ETC. TGL 2384TGL
 ERP 0.15 kW HAAT 182.0 m RCAMSL 1737.0 m
 Antenna CDB 0000000001060

Due to interference to the following station and scenario: 1
 20N MT BELGRADE, ETC. BLTT 20050505AB0
 ERP 6.85 kW HAAT 182.0 m RCAMSL 1737.0 m
 Antenna CDB 00000000069198

Percent new DTV interference without proposal: 0.0 BLTT 20050505AB0
 Percent new DTV interference with proposal: 99.7 BLTT 20050505AB0

#####

Analysis of Interference to Affected Station 14

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|-------------|-------------|--------------|
| 20 | K20HB | BILLINGS MT | BLTT | -20041123AKE |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------------|----------|--------|-------------|--------------|
| 16 | NEW | BILLINGS MT | 0.3 | APP | BNPEDT | -20060809AJ0 |
| 17 | KTVQ-DT | BILLINGS MT | 0.0 | PLN | DTVPLN | -DTVP0257 |
| 18 | KSVI | BILLINGS MT | 10.1 | CP | BPCDT | -19991029ACI |
| 18 | KSVI -DT | BILLINGS MT | 10.1 | PLN | DTVPLN | -DTVP0298 |
| 20 | 950306KF | IDAHO FALLS ID | 354.9 | CP | BPCT | -19950306KF |
| 20 | K20DY | BELGRADE, ETC. MT | 218.5 | LIC | TGL | -2384TGL |

DLPTV Results - K20DY

| | | | | | | |
|----|---------|-----------|-------|-----|--------|--------------|
| 20 | KFNB | CASPER WY | 377.0 | LIC | BLCT | -19950928KF |
| 22 | KHMT | HARDIN MT | 24.9 | CP | BPCDT | -19991101AKB |
| 22 | KHMT-DT | HARDIN MT | 24.9 | PLN | DTVPLN | -DTVPO463 |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 15

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|------------|-------------|-------------|
| 20 | K20CP | ELMO MT | BLTT | -19911029JI |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 19 | K19GD | KALISPELL MT | 27.3 | LIC | BLTT | -20051220ASF |
| 20 | K20DY | BELGRADE, ETC. MT | 329.6 | LIC | TGL | -2384TGL |
| 27 | KUFM-DT | MISSOULA MT | 110.2 | PLN | DTVPLN | -DTVPO636 |
| 27 | KUFM-TV | MISSOULA MT | 110.2 | CP MOD | BMPEDT | -20060620AAW |
| 35 | KPAX-DT | MISSOULA MT | 86.1 | PLN | DTVPLN | -DTVPO928del |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 16

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|---------------------|-------------|--------------|
| 20 | NEW | LIVINGSTON, ETC. MT | BSFDTL | -20060630BDX |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------------|----------|--------|-------------|--------------|
| 20 | 950306KF | IDAHO FALLS ID | 232.6 | CP | BPCT | -19950306KF |
| 20 | K20DY | BELGRADE, ETC. MT | 56.2 | LIC | TGL | -2384TGL |
| 20 | K20DY | BELGRADE, ETC. MT | 56.2 | LIC | BLTT | -20050505ABO |
| 21 | NEW | EMIGRANT MT | 31.3 | APP | BSFDTT | -20060630CWX |

Total scenarios = 3

Result key: 3
 Scenario 1 Affected station 16
 Before Analysis

Results for: 20A MT LIVINGSTON, ETC. BSFDTL 20060630BDX APP
 HAAT 259.0 m, ATV ERP 15.0 kW

| | | |
|--------------------------------|------------|--------------|
| | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 53477 | 10049.3 |
| not affected by terrain losses | 44591 | 8149.9 |
| lost to NTSC IX | 3666 | 132.4 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 3666 | 132.4 |

Potential Interfering Stations Included in above Scenario 1

20N MT BELGRADE, ETC. BLTT 20050505ABO LIC

After Analysis

Results for: 20A MT LIVINGSTON, ETC. BSFDTL 20060630BDX APP
 HAAT 259.0 m, ATV ERP 15.0 kW

| | | |
|------------------------------|------------|--------------|
| | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 53477 | 10049.3 |

DLPTV Results - K20DY

| | | |
|--------------------------------|-------|--------|
| not affected by terrain losses | 44591 | 8149.9 |
| lost to NTSC IX | 3666 | 132.4 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 3493 | 119.7 |
| lost to all IX | 3666 | 132.4 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-----------------------|------|-------------|-----|
| 20N MT BELGRADE, ETC. | BLTT | 20050505ABO | LIC |
| 20A MT BELGRADE, ETC. | TGL | 2384TGL | LIC |

Result key: 4
 Scenario 2 Affected station 16
 Before Analysis

Results for: 20A MT LIVINGSTON, ETC. BSFDTL 20060630BDX APP
 HAAT 259.0 m, ATV ERP 15.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 53477 | 10049.3 |
| not affected by terrain losses | 44591 | 8149.9 |
| lost to NTSC IX | 3666 | 132.4 |
| lost to additional IX by ATV | 11 | 93.2 |
| lost to ATV IX only | 11 | 93.2 |
| lost to all IX | 3677 | 225.7 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|-----------------------|--------|-------------|-----|
| 20N MT BELGRADE, ETC. | BLTT | 20050505ABO | LIC |
| 21A MT EMIGRANT | BSFDTT | 20060630CWX | APP |

After Analysis

Results for: 20A MT LIVINGSTON, ETC. BSFDTL 20060630BDX APP
 HAAT 259.0 m, ATV ERP 15.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 53477 | 10049.3 |
| not affected by terrain losses | 44591 | 8149.9 |
| lost to NTSC IX | 3666 | 132.4 |
| lost to additional IX by ATV | 11 | 93.2 |
| lost to ATV IX only | 3504 | 212.9 |
| lost to all IX | 3677 | 225.7 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|-----------------------|--------|-------------|-----|
| 20N MT BELGRADE, ETC. | BLTT | 20050505ABO | LIC |
| 21A MT EMIGRANT | BSFDTT | 20060630CWX | APP |
| 20A MT BELGRADE, ETC. | TGL | 2384TGL | LIC |

Result key: 5
 Scenario 3 Affected station 16
 Before Analysis

Results for: 20A MT LIVINGSTON, ETC. BSFDTL 20060630BDX APP
 HAAT 259.0 m, ATV ERP 15.0 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 53477 | 10049.3 |
| not affected by terrain losses | 44591 | 8149.9 |
| lost to NTSC IX | 3666 | 132.4 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 3666 | 132.4 |

Potential Interfering Stations Included in above Scenario 3

| | | | |
|-----------------------|------|-------------|-----|
| 20N MT BELGRADE, ETC. | BLTT | 20050505ABO | LIC |
|-----------------------|------|-------------|-----|

After Analysis

Results for: 20A MT LIVINGSTON, ETC. BSFDTL 20060630BDX APP
 HAAT 259.0 m, ATV ERP 15.0 kW

DLPTV Results - K20DY

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 53477 | 10049.3 |
| not affected by terrain losses | 44591 | 8149.9 |
| lost to NTSC IX | 3666 | 132.4 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 3493 | 119.7 |
| lost to all IX | 3666 | 132.4 |

Potential Interfering Stations Included in above Scenario 3

| | | | |
|-----------------------|------|-------------|-----|
| 20N MT BELGRADE, ETC. | BLTT | 20050505ABO | LIC |
| 20A MT BELGRADE, ETC. | TGL | 2384TGL | LIC |

#####

Analysis of Interference to Affected Station 17

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|--------------------|-------------|-------------|
| 20 | K20BP | PHILLIPS COUNTY MT | BLTT | -198903131R |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|-------|-------------------|----------|--------|-------------|----------|
| 20 | K20DY | BELGRADE, ETC. MT | 329.1 | LIC | TGL | -2384TGL |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 18

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|---------------|-------------|--------------|
| 21 | K52CO | MALAD CITY ID | BDISTT | -20051116AEZ |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------------|----------|--------|-------------|--------------|
| 20 | K20DY | BELGRADE, ETC. MT | 402.5 | LIC | TGL | -2384TGL |
| 21 | K21CE | MONTPELIER ID | 76.0 | LIC | BLTT | -19980709JI |
| 21 | NEW | POCATELLO ID | 84.9 | APP | BDCCDTT | -20061030ABU |
| 21 | K21HH | PRESTON ID | 36.1 | LIC | BLTT | -20040503AFI |
| 21 | NEW | EVANSTON WY | 111.6 | APP | BNPTTL | -20000831EHB |
| 21 | NEW | JACKSON WY | 194.1 | APP | BNPTTL | -20000830BKT |
| 23 | KPVI | POCATELLO ID | 94.0 | LIC | BLCDDT | -20060706AEF |
| 23 | KPVI -DT | POCATELLO ID | 94.1 | PLN | DTVPLN | -DTVPO492 |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 19

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|---------------|-------------|-------------|
| 21 | K21CE | MONTPELIER ID | BLTT | -19980709JI |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 14 | KJWY | JACKSON WY | 129.8 | CP | BPCDDT | -19991029AED |
| 14 | KJWY-DT | JACKSON WY | 129.8 | PLN | DTVPLN | -DTVPO149 |
| 20 | K20DY | BELGRADE, ETC. MT | 361.1 | LIC | TGL | -2384TGL |

DLPTV Results - K20DY

| | | | | | | |
|----|---------|---------------|-------|-----|---------|--------------|
| 21 | K52CO | MALAD CITY ID | 76.0 | CP | BDI STT | -20051116AEZ |
| 21 | NEW | POCATELLO ID | 97.9 | APP | BDCDDT | -20061030ABU |
| 21 | K21HH | PRESTON ID | 43.5 | LIC | BLTT | -20040503AFI |
| 21 | NEW | EVANSTON WY | 39.8 | APP | BNPTTL | -20000831EHB |
| 21 | NEW | JACKSON WY | 129.8 | APP | BNPTTL | -20000830BKT |
| 23 | KPVI | POCATELLO ID | 98.3 | LIC | BLCDT | -20060706AEF |
| 23 | KPVI-DT | POCATELLO ID | 98.3 | PLN | DTVPLN | -DTVPO492 |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 20

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|-------|------------|----------------------|
| 21 | K21HU | BUTTE MT | BNPTTL -20000830BCV |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-------------------|----------|--------|----------------------|
| 14 | KTVH | HELENA MT | 115.6 | APP | BMPCDT -20060628ACX |
| 14 | KTVH | HELENA MT | 115.6 | CP | BPCDT -19991029AAX |
| 14 | KTVH-DT | HELENA MT | 115.6 | PLN | DTVPLN -DTVPO130 |
| 19 | KWYB | BUTTE MT | 10.6 | CP | BPCDT -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 10.6 | PLN | DTVPLN -DTVPO343 |
| 20 | K20DY | BELGRADE, ETC. MT | 107.5 | LIC | TGL -2384TGL |
| 21 | NEW | GREAT FALLS MT | 199.5 | APP | BNPEDT -20060809AJP |
| 21 | KHBB-LP | HELENA MT | 98.1 | CP | BDFCDTL -20060331BNR |
| 21 | KHBB-LP | HELENA MT | 98.1 | LIC | BLTT -19930108JL |
| 29 | KAQR-DT | HELENA MT | 72.5 | PLN | DTVPLN -DTVPO705 |
| 29 | KMTF | HELENA MT | 115.6 | CP MOD | BMPCDT -20041101AHP |
| 36 | K36HC | BOZEMAN MT | 10.5 | CP | BNPTTL -20000807AAN |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 21

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|------|-------------|----------------------|
| 21 | NEW | EMIGRANT MT | BSFDDT -20060630CWX |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-------------------|----------|--------|----------------------|
| 20 | K20DY | BELGRADE, ETC. MT | 56.2 | LIC | TGL -2384TGL |
| 21 | NEW | GREAT FALLS MT | 248.8 | APP | BNPEDT -20060809AJP |
| 21 | KSGW-DT | SHERIDAN WY | 291.9 | PLN | DTVPLN -DTVPO441del |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 22

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|------------|----------------------|
| 21 | KHBB-LP | HELENA MT | BDFCDTL -20060331BNR |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|-------|-------------------|----------|--------|----------------------|
| 20 | K20DY | BELGRADE, ETC. MT | 138.7 | LIC | TGL -2384TGL |

DLPTV Results - K20DY

| | | | | | | |
|----|-------|----------------|-------|-----|--------|--------------|
| 21 | NEW | GREAT FALLS MT | 101.8 | APP | BNPEDT | -20060809AJP |
| 22 | K22HD | BUTTE MT | 52.2 | CP | BNPTTL | -20000831B0I |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 23

Analysis of current record

| | | | | |
|---------|---------|------------|-------------|-------------|
| Channel | Call | City/State | Application | Ref. No. |
| 21 | KHBB-LP | HELENA MT | BLTT | -19930108JL |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 14 | KTVH | HELENA MT | 24.7 | APP | BMPCDT | -20060628ACX |
| 14 | KTVH | HELENA MT | 24.7 | CP | BPCDT | -19991029AAX |
| 14 | KTVH-DT | HELENA MT | 24.7 | PLN | DTVPLN | -DTVP0130 |
| 19 | KWYB | BUTTE MT | 90.7 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 90.7 | PLN | DTVPLN | -DTVP0343 |
| 20 | K20DY | BELGRADE, ETC. MT | 138.7 | LIC | TGL | -2384TGL |
| 21 | NEW | GREAT FALLS MT | 101.8 | APP | BNPEDT | -20060809AJP |
| 22 | K22HD | BUTTE MT | 52.2 | CP | BNPTTL | -20000831B0I |
| 29 | KAQR-DT | HELENA MT | 28.4 | PLN | DTVPLN | -DTVP0705 |
| 29 | KMTF | HELENA MT | 24.7 | CP MOD | BMPCDT | -20041101AHP |
| 36 | K36CX | CLANCY MT | 29.7 | LIC | BLTTL | -19921002JF |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 24

Analysis of current record

| | | | | |
|---------|-------|------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 22 | K22HD | BUTTE MT | BNPTTL | -20000831B0I |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 14 | KTVH | HELENA MT | 70.2 | APP | BMPCDT | -20060628ACX |
| 14 | KTVH | HELENA MT | 70.2 | CP | BPCDT | -19991029AAX |
| 14 | KTVH-DT | HELENA MT | 70.2 | PLN | DTVPLN | -DTVP0130 |
| 15 | KXLF-DT | BUTTE MT | 38.5 | PLN | DTVPLN | -DTVP0167 |
| 19 | KWYB | BUTTE MT | 38.6 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 38.6 | PLN | DTVPLN | -DTVP0343 |
| 20 | K20DY | BELGRADE, ETC. MT | 111.0 | LIC | TGL | -2384TGL |
| 21 | K21HU | BUTTE MT | 46.0 | CP | BNPTTL | -20000830BCV |
| 21 | KHBB-LP | HELENA MT | 52.2 | CP | BDFCDTL | -20060331BNR |
| 21 | KHBB-LP | HELENA MT | 52.2 | LIC | BLTT | -19930108JL |
| 22 | NEW | GREAT FALLS MT | 153.5 | APP | BNPTTL | -20000831CDV |
| 22 | KHMT | HARDIN MT | 327.2 | CP | BPCDT | -19991101AKB |
| 22 | KHMT-DT | HARDIN MT | 327.2 | PLN | DTVPLN | -DTVP0463 |
| 23 | NEW | HELENA MT | 36.3 | APP | BDCCDTL | -20061030AGQ |
| 24 | KBTZ | BUTTE MT | 38.6 | LIC | BLCT | -20030502ABB |
| 29 | KAQR-DT | HELENA MT | 28.7 | PLN | DTVPLN | -DTVP0705 |
| 29 | KMTF | HELENA MT | 70.2 | CP MOD | BMPCDT | -20041101AHP |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 25

DLPTV Results - K20DY

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|----------------|-------------|--------------|
| 22 | NEW | GREAT FALLS MT | BNPTTL | -20000830BDC |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 14 | KTVH | HELENA MT | 71.7 | APP | BMPCDT | -20060628ACX |
| 14 | KTVH | HELENA MT | 71.7 | CP | BPCDT | -19991029AAX |
| 14 | KTVH-DT | HELENA MT | 71.7 | PLN | DTVPLN | -DTVP0130 |
| 20 | K20DY | BELGRADE, ETC. MT | 197.7 | LIC | TGL | -2384TGL |
| 21 | NEW | GREAT FALLS MT | 13.7 | APP | BNPEDT | -20060809AJP |
| 21 | NEW | GREAT FALLS MT | 13.4 | APP | BNPTTL | -20000829AHI |
| 22 | K22HD | BUTTE MT | 140.6 | CP | BNPTTL | -20000831BOI |
| 22 | NEW | GREAT FALLS MT | 13.7 | APP | BNPTTL | -20000831CDV |
| 22 | KHMT | HARDIN MT | 306.4 | CP | BPCDT | -19991101AKB |
| 22 | KHMT-DT | HARDIN MT | 306.2 | PLN | DTVPLN | -DTVP0463 |
| 23 | NEW | GREAT FALLS MT | 13.7 | APP | BNPTTL | -20000824ADN |
| 29 | KAQR-DT | HELENA MT | 117.2 | PLN | DTVPLN | -DTVP0705 |
| 29 | KMTF | HELENA MT | 71.7 | CP MOD | BMPCDT | -20041101AHP |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 26

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|--------------|
| 23 | NEW | BOZEMAN MT | BNPTTL | -20000807AAO |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------------|----------|--------|-------------|--------------|
| 15 | KXLF-DT | BUTTE MT | 107.2 | PLN | DTVPLN | -DTVP0167 |
| 16 | KCTZ-DT | BOZEMAN MT | 21.3 | PLN | DTVPLN | -DTVP0219del |
| 19 | KWYB | BUTTE MT | 107.2 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 107.2 | PLN | DTVPLN | -DTVP0343 |
| 20 | K20DY | BELGRADE, ETC. MT | 10.7 | LIC | TGL | -2384TGL |
| 23 | KPVI | POCATELLO ID | 320.9 | LIC | BLCDT | -20060706AEF |
| 23 | KPVI -DT | POCATELLO ID | 320.8 | PLN | DTVPLN | -DTVP0492 |
| 23 | NEW | BOZEMAN MT | 9.1 | APP | BDCCDTT | -20061030AIF |
| 23 | NEW | BOZEMAN MT | 6.9 | APP | BNPTTL | -20000831CJY |
| 23 | NEW | EMIGRANT, ETC. MT | 51.7 | APP | BDCCDTT | -20061030ASK |
| 23 | NEW | HELENA MT | 135.1 | APP | BNPTTL | -20000829AJY |
| 23 | KTMF | MISSOULA MT | 266.1 | LIC | BLCT | -19901227KE |
| 24 | KBTZ | BUTTE MT | 107.2 | LIC | BLCT | -20030502ABB |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 27

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|--------------|
| 23 | NEW | BOZEMAN MT | BNPTTL | -20000831CJY |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 15 | KXLF-DT | BUTTE MT | 114.1 | PLN | DTVPLN | -DTVP0167 |
| 16 | KCTZ-DT | BOZEMAN MT | 14.8 | PLN | DTVPLN | -DTVP0219del |
| 19 | KWYB | BUTTE MT | 114.0 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 114.0 | PLN | DTVPLN | -DTVP0343 |
| 20 | K20DY | BELGRADE, ETC. MT | 16.6 | LIC | TGL | -2384TGL |

DLPTV Results - K20DY

| | | | | | | |
|----|----------|--------------|-------|-----|--------|--------------|
| 23 | KPVI | POCATELLO ID | 321.2 | LIC | BLCDT | -20060706AEF |
| 23 | KPVI -DT | POCATELLO ID | 321.2 | PLN | DTVPLN | -DTVP0492 |
| 23 | NEW | BOZEMAN MT | 6.9 | APP | BNPTTL | -20000807AAO |
| 23 | KTMF | MISSOULA MT | 272.6 | LIC | BLCT | -19901227KE |
| 24 | KBTZ | BUTTE MT | 114.0 | LIC | BLCT | -20030502ABB |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 28

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|--------------|
| 23 | NEW | HELENA MT | BNPTTL | -20000829AJY |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 15 | KXLF-DT | BUTTE MT | 106.9 | PLN | DTVPLN | -DTVP0167 |
| 16 | KCTZ-DT | BOZEMAN MT | 143.6 | PLN | DTVPLN | -DTVP0219del |
| 16 | KTGF | GREAT FALLS MT | 90.7 | CP | BPCT | -20041119ADZ |
| 19 | KWYB | BUTTE MT | 107.0 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 107.0 | PLN | DTVPLN | -DTVP0343 |
| 20 | K20DY | BELGRADE, ETC. MT | 136.4 | LIC | TGL | -2384TGL |
| 21 | NEW | GREAT FALLS MT | 85.1 | APP | BNPEDT | -20060809AJP |
| 23 | NEW | BOZEMAN MT | 135.1 | APP | BNPTTL | -20000807AAO |
| 23 | NEW | GREAT FALLS MT | 85.1 | APP | BNPTTL | -20000824ADN |
| 23 | NEW | HELENA MT | 34.1 | APP | BCCDTL | -20061030AGQ |
| 23 | KTMF | MISSOULA MT | 176.2 | LIC | BLCT | -19901227KE |
| 24 | KBTZ | BUTTE MT | 107.0 | LIC | BLCT | -20030502ABB |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 29

NTSC Baseline Analysis

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|-----------|
| 24 | NEW | BUTTE MT | DTVPLN | -NPLN0875 |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-------------|----------|--------|-------------|--------------|
| 16 | KCTZ-DT | BOZEMAN MT | 127.4 | PLN | DTVPLN | -DTVP0219del |
| 17 | NEW | MISSOULA MT | 147.6 | PLN | DTVPLN | -NPLN0958 |
| 23 | KTMF | MISSOULA MT | 164.6 | PLN | DTVPLN | -NPLN0971 |
| 24 | KIVI -DT | NAMPA ID | 381.5 | PLN | DTVPLN | -DTVP0531 |
| 24 | NEW | PULLMAN WA | 355.7 | PLN | DTVPLN | -NPLN1653 |

| | | | |
|--------------------------------|------------|--------------|-----|
| Results for: 24N MT BUTTE | DTVPLN | NPLN0875 | PLN |
| | POPULATION | AREA (sq km) | |
| within Noise Limited Contour | 64274 | 19455.4 | |
| not affected by terrain losses | 50786 | 10747.9 | |
| lost to NTSC IX | 0 | 2.0 | |
| lost to additional IX by ATV | 0 | 0.0 | |
| lost to all IX | 0 | 2.0 | |

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|------|------------|-------------|--------------|
| 24 | KBTZ | BUTTE MT | BLCT | -20030502ABB |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|------|------------|----------|--------|-------------|----------|
|------|------|------------|----------|--------|-------------|----------|

DLPTV Results - K20DY

| | | | | | | |
|----|---------|-------------------|-------|-----|--------|--------------|
| 16 | KCTZ-DT | BOZEMAN MT | 127.4 | PLN | DTVPLN | -DTVPO219del |
| 17 | KMMF | MISSOULA MT | 146.9 | LIC | BLCT | -20021219AAW |
| 20 | K20DY | BELGRADE, ETC. MT | 99.8 | LIC | TGL | -2384TGL |
| 23 | KTMF | MISSOULA MT | 164.7 | LIC | BLCT | -19901227KE |
| 24 | KIVI | NAMPA ID | 381.4 | LIC | BLCDDT | -20060724ADJ |
| 24 | KIVI-DT | NAMPA ID | 381.4 | PLN | DTVPLN | -DTVPO531 |
| 24 | KQUP | PULLMAN WA | 374.6 | LIC | BLCT | -20040520AJL |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 30

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|-------|------------|----------------------|
| 27 | K27CD | BOULDER MT | BLTTL -199103221A |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-------------------|----------|--------|----------------------|
| 19 | KWYB | BUTTE MT | 35.9 | CP | BPCDDT -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 35.9 | PLN | DTVPLN -DTVPO343 |
| 20 | K20DY | BELGRADE, ETC. MT | 97.3 | LIC | TGL -2384TGL |
| 27 | KUFM-DT | MISSOULA MT | 151.7 | PLN | DTVPLN -DTVPO636 |
| 27 | KUFM-TV | MISSOULA MT | 151.7 | CP MOD | BMPEDT -20060620AAW |
| 29 | KAQR-DT | HELENA MT | 39.0 | PLN | DTVPLN -DTVPO705 |
| 29 | KMTF | HELENA MT | 71.5 | CP MOD | BMPDDT -20041101AHP |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 31

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|-------|-------------|----------------------|
| 27 | K27DL | EMIGRANT MT | BLTT -199012261X |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|-------------------|----------|--------|----------------------|
| 20 | K20DY | BELGRADE, ETC. MT | 56.2 | LIC | TGL -2384TGL |
| 27 | KUFM-DT | MISSOULA MT | 301.1 | PLN | DTVPLN -DTVPO636 |
| 27 | KUFM-TV | MISSOULA MT | 301.1 | CP MOD | BMPEDT -20060620AAW |
| 27 | K27HQ | CODY WY | 152.8 | CP | BNPTTL -20000831BKA |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 32

Analysis of current record

| Channel | Call | City/State | Application Ref. No. |
|---------|---------|------------|----------------------|
| 28 | KWYB-LP | BOZEMAN MT | BLTTL -19971008JB |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application Ref. No. |
|------|-------|-------------------|----------|--------|----------------------|
| 20 | K20DY | BELGRADE, ETC. MT | 31.2 | LIC | TGL -2384TGL |
| 28 | K28II | IDAHO FALLS ID | 229.2 | CP | BNPTTL -20000831ANP |
| 28 | NEW | BRIDGER, ETC. MT | 156.8 | APP | BDDCDDT -20061030ARZ |

DLPTV Results - K20DY

Proposal causes no interference

#####

Analysis of Interference to Affected Station 33

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|---------------------|-------------|-------------|
| 28 | K28AZ | WEST YELLOWSTONE MT | BLTT | -198804261B |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------|----------|--------|-------------|--------------|
| 20 | K20DY | BELGRADE, ETC. MT | 98.5 | LIC | TGL | -2384TGL |
| 28 | K28II | IDAHO FALLS ID | 125.6 | CP | BNPTTL | -20000831ANP |
| 28 | KWYB-LP | BOZEMAN MT | 105.5 | CP | BDFCDTL | -20060331BIG |
| 28 | KWYB-LP | BOZEMAN MT | 105.5 | LIC | BLTTL | -19971008JB |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 34

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|-------|-------------------|-------------|----------|
| 20 | K20DY | BELGRADE, ETC. MT | TGL | -2384TGL |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|---------------------|----------|--------|-------------|--------------|
| 19 | KWYB | BUTTE MT | 99.8 | CP | BPCDT | -19991101AJX |
| 19 | KWYB-DT | BUTTE MT | 99.8 | PLN | DTVPLN | -DTVPO343 |
| 20 | 950306KF | IDAHO FALLS ID | 215.5 | CP | BPCT | -19950306KF |
| 20 | K20DY | BELGRADE, ETC. MT | 0.0 | LIC | BLTT | -20050505ABO |
| 20 | NEW | LIVINGSTON, ETC. MT | 56.2 | APP | BSFDTL | -20060630BDX |

Total scenarios = 3

Result key: 6
 Scenario 1 Affected station 34
 Before Analysis

Results for: 20A MT BELGRADE, ETC. TGL 2384TGL LIC
 HAAT 182.0 m, ATV ERP 0.2 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 44653 | 1684.4 |
| not affected by terrain losses | 44522 | 1580.6 |
| lost to NTSC IX | 44308 | 1452.3 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 44308 | 1452.3 |

Potential Interfering Stations Included in above Scenario 1

20N MT BELGRADE, ETC. BLTT 20050505ABO LIC

Result key: 7
 Scenario 2 Affected station 34
 Before Analysis

Results for: 20A MT BELGRADE, ETC. TGL 2384TGL LIC
 HAAT 182.0 m, ATV ERP 0.2 kW

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 44653 | 1684.4 |
| not affected by terrain losses | 44522 | 1580.6 |
| lost to NTSC IX | 44308 | 1452.3 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 44308 | 1452.3 |

| | | |
|--------------------------------|-----------------------|--------|
| | DLPTV Results - K20DY | |
| within Noise Limited Contour | 44653 | 1684.4 |
| not affected by terrain losses | 44522 | 1580.6 |
| lost to NTSC IX | 44308 | 1452.3 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 5 | 34.3 |
| lost to all IX | 44308 | 1452.3 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|-------------------------|--------|-------------|-----|
| 20N MT BELGRADE, ETC. | BLTT | 20050505AB0 | LIC |
| 20A MT LIVINGSTON, ETC. | BSFDTL | 20060630BDX | APP |

Result key: 8
 Scenario 3 Affected station 34
 Before Analysis

Results for: 20A MT BELGRADE, ETC. TGL 2384TGL LIC
 HAAT 182.0 m, ATV ERP 0.2 kW

| | | |
|--------------------------------|------------|--------------|
| | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 44653 | 1684.4 |
| not affected by terrain losses | 44522 | 1580.6 |
| lost to NTSC IX | 44308 | 1452.3 |
| lost to additional IX by ATV | 0 | 0.0 |
| lost to ATV IX only | 0 | 0.0 |
| lost to all IX | 44308 | 1452.3 |

Potential Interfering Stations Included in above Scenario 3

| | | | |
|-----------------------|------|-------------|-----|
| 20N MT BELGRADE, ETC. | BLTT | 20050505AB0 | LIC |
|-----------------------|------|-------------|-----|

#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

Section III - Engineering (Digital)

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

- 1. Channel: _____
- 2. Translator Input Channel No. _____
- 3. Station proposed to be rebroadcast:

| Call Sign | City | State | Channel |
|-----------|------|-------|---------|
|-----------|------|-------|---------|

- 4. Antenna Location Coordinates: (NAD 27)
_____ ° _____ ' _____ " N S Latitude
_____ ° _____ ' _____ " E W Longitude

- 5. Antenna Structure Registration Number: _____
 Not applicable See Explanation in Exhibit No. FAA Notification Filed with FAA

- 6. Antenna Location Site Elevation Above Mean Sea Level: _____ meters
- 7. Overall Tower Height Above Ground Level: _____ meters
- 8. Height of Radiation Center Above Ground Level: _____ meters
- 9. Maximum Effective Radiated Power (ERP): _____ kW
- 10. Transmitter Output Power: _____ kW

- 11. a. Transmitting Antenna: Nondirectional Directional Directional composite

| Manufacturer | Model |
|--------------|-------|
|--------------|-------|

- b. Electrical Beam Tilt: _____ degrees Not applicable

c. Directional Antenna Relative Field Values:

Rotation: _____ ° No rotation N/A (Nondirectional)

| Degree | Value | Degree | Value | Degree | Value | Degree | Value | Degree | Value | Degree | Value |
|---------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0 | | 60 | | 120 | | 180 | | 240 | | 300 | |
| 10 | | 70 | | 130 | | 190 | | 250 | | 310 | |
| 20 | | 80 | | 140 | | 200 | | 260 | | 320 | |
| 30 | | 90 | | 150 | | 210 | | 270 | | 330 | |
| 40 | | 100 | | 160 | | 220 | | 280 | | 340 | |
| 50 | | 110 | | 170 | | 230 | | 290 | | 350 | |
| Additional Azimuths | | | | | | | | | | | |

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

12. **Out-of-Channel Emission Mask:** Simple Stringent

CERTIFICATION

13. **Interference.** The proposed facility complies with all of the following applicable rule sections. 47 C.F.R. Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h), 74.794(b) and 73.1030. Yes No

14. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine RF compliance. **An Exhibit is required.** Yes No

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

15. **Channels 52-59.** If the proposed channel is within channels 52-59, the applicant certifies compliance with the following requirements, as applicable:

The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.

Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees.

PREPARER'S CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.

16. **Channels 60-69.** If the proposed channel is within channels 60-69, the applicant certifies compliance with the following requirements, as applicable:

- Pursuant to Section 74.786(e), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies inside the licensed geographic boundaries of the wireless licensees or within 75 miles and 50 miles, respectively, of the geographic boundaries of co-channel and adjacent-channel wireless licensees,
- Pursuant to Section 74.786(e), the applicant proposing operation on channel 63, 64, 68 and 69 ("public safety channels") has secured a coordinated spectrum use agreement(s) with 700 MHz public safety regional planning committee(s) and state frequency administrator(s) of the region(s) and state(s) within which the antenna site of the digital LPTV or TV translator station is proposed to locate, and those adjoining regions and states with boundaries within 75 miles of the proposed station location.
- Pursuant to Section 74.786(e), an applicant for a channel adjacent to channel 63, 64, 68 or 69 has notified, within 30 days of filing this application, the 700 MHz public safety regional planning committee(s) and state administrator(s) of the region and state containing the proposed digital LPTV or TV translator antenna site and regions and states whose geographic boundaries lie within 50 miles of the proposed LPTV or TV translator antenna site.

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

| | | | |
|-----------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|-------------------|
| Name Martin R. Doczkat | | Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer | |
| Signature  | | Date November 17, 2006 | |
| Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, NW, Suite 1100 | | | |
| City Washington | | State or Country (if foreign address) DC | ZIP Code 20005 |
| Telephone Number (include area code) (202) 898-0111 | | E-Mail Address (if available) cde@attglobal.net | |

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