

ENGINEERING STATEMENT
APPLICATION FOR A DIGITAL
CONSTRUCTION PERMIT FOR
AN EXISTING TELEVISION TRANSLATOR
K43DU-D, BUTTE, MONTANA
CHANNEL 43 4.55 KW MAX ERP 2531.2 METERS RC/AMSL

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)
District of Columbia) ss
)

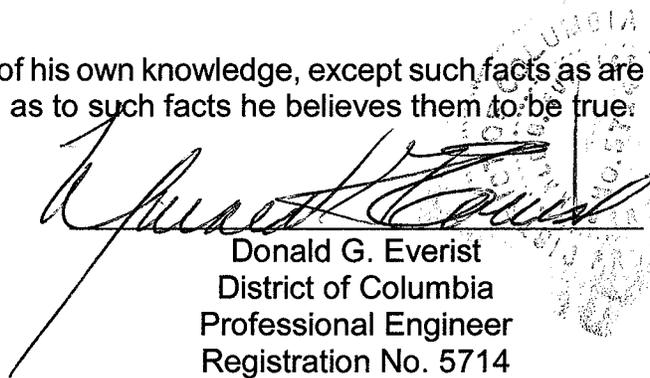
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

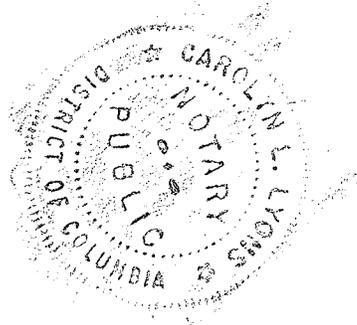
That his qualifications are a matter of record in the Federal Communications Commission;

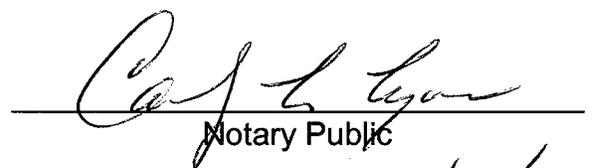
That the attached engineering report was prepared by him or under his supervision and direction and

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;

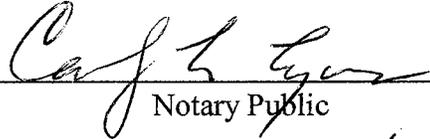
That the attached engineering report was prepared by him or under his supervision and direction and

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 K43DU, Butte, Montana (Facility ID #33757). This statement supports the licensee's request to convert to DTV operation on the currently licensed in-core analog Channel 43, commonly referred to as "flash-cut" with a DTV effective radiated power ("ERP") of 4.55 kW at a radiation center above mean sea level ("RCAMSL") of 2531.2 meters.

TRANSMITTER SITE

The licensed antenna mounted to the existing KXLF-TV tower will be utilized where the K43DU facility is currently located. The tower is located at "XL Heights" approximately 2.8 miles east of the Silver Bow County Courthouse. The tower registration number is 1001059. The geographic coordinates of the site follow below.

North Latitude: 46° 00' 27"

West Longitude: 112° 26' 30"

NAD-27

ELEVATION DATA

Elevation of site above mean sea level	2516 meters 8255 feet
Center of radiation of antenna above ground level	15.2 meters 50 feet
Center of radiation of antenna above mean sea level	2531.2 meters 8305 feet
Overall height of supporting structure above ground level (including appurtenances)	62 meters 203 feet

Overall height of supporting structure above mean sea level (including appurtenances)	2218 meters 8458 feet
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EQUIPMENT DATA

Transmitter:	Type-Approved
Emission Mask	Simple
Transmission Line:	Andrew, Type HJ7-50A, 1-5/8", 35.0 meters with 90.2% efficiency
Antenna:	Andrew ALP8L12-HSBR with maximum gain of 20.18 and 3.00° of electrical beam tilt and 3.0° of mechanical beam tilt at N 220°E

POWER DATA

Transmitter Power Output	0.25 kW	-6.02 dBk
Transmission Line Efficiency/Loss	90.2%	0.45 dB
Input Power Into Antenna	0.225 kW	-6.47 dBk
Antenna Power Gain, Maximum	20.18	13.05 dB
Effective Radiated Power, Maximum	4.55 kW	6.58 dBk

As indicated above, the transmitter with typical power output of 0.25 kW will deliver 0.225 kW to the input of the antenna. The antenna, having a maximum gain of 20.18, will produce maximum ERP of 4.55 kW. It is also proposed to use mechanical tilt of 3° at N 220° E. A coverage map of the proposed facility has been included as Exhibit E-1 of this report. The antenna elevation pattern and associated tabulation and the resulting horizontal pattern and

accompanying tabulation should be on file at the Commission as the currently licensed directional antenna for K43DU with no alterations has been proposed.

INTERFERENCE ANALYSIS

A study of predicted interference caused by the proposed K43DU 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 K43DU 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.

FCC Rule, Section 1.1307

The proposed 4.55 kW K43DU digital operation will utilize an Andrew, Type ALP8L12-HSBR antenna with a center of radiation above ground of 15.2 meters. The antenna is side-mounted on the KXLF-TV steel lattice tower with an overall height of 62 meters above ground.

According to the FCC database, there are also six full-service FM stations and seven full-service TV stations located within 100 meters of the K43DU tower. Access to the tower property is prevented by an eight foot security fence with a locked gate. A locked gate controls access to the road that leads to the tower site.

The operation based upon the current OET Bulletin No. 65, Edition 97-01 dated August 1997 and Supplement A meets the provisions of the FCC radio frequency field ("RFF") guidelines, and thus, complies with Section 1.1307 of the FCC Rules. The elevation pattern for the Andrew, Type ALP8L12-HSBR antenna shows a maximum relative field of less than 0.25 toward the ground (10° to 90° below the horizontal). Calculation according to OET Bulletin 65 predicts a maximum RFF power density of less than 54.5 $\mu\text{W}/\text{cm}^2$ at 2 meters above ground or less than 2.5% of the controlled Maximum Permissible Exposure ("MPE") guideline.

For completeness, the contribution by facilities located within 100 meters to the electromagnetic field environment is considered herein, as there are multiple emitters in the area.

The RFF study will consider the following stations based on information contained in CDDBS.

<u>Station</u>	<u>Status</u>	<u>Channel</u>	
K43DU-D	Prop	43	(same tower)
KXLF-TV	Lic	4	(same tower)
KXLF-DT	CP	5	(same tower)
KFRT(FM)	Lic	201C2	(adjacent tower)
KFRD(FM)	Lic	205C1	(adjacent tower)

<u>Station</u>	<u>Status</u>	<u>Channel</u>	
KJLF(FM)	CP	213C3	(80 meters away/158°)
KAPC(FM)	Lic	217C2	(adjacent tower)
KTVM(TV)	Lic	6	(adjacent tower)
KWYB(TV)	Lic	18	(93 meters away/175°)
KWYB-DT	CP	19	(93 meters away/175°)
KTVM-DT	CP	33	(adjacent tower)
KBTZ(TV)	Lic	24	(93 meters away/175°)
KAAR(FM)	Lic	223C1	(62 meters away/7°)
KMBR(FM)	Lic	238C	(62 meters away/7°)
K50II(TX)	CP	50	(93 meters away/175°)
K234AT(FX)	CP	234D	(62 meters away/7°)

The RFF contribution of each station will be calculated using the following basic formula:

$$S = \frac{33.4(F^2) \text{ Total ERP}}{R^2}$$

where:

S = power density in $\mu\text{W}/\text{cm}^2$

F = relative field factor

Total ERP = ERP Horizontal Polarization + ERP Vertical Polarization

R = RCAGL - 2 meters

ERP = RMS ERP in watts for FM and DTV Stations

ERP = $[0.4 \text{ ERP}_v + \text{ERP}_A]$ for NTSC Stations

ERP_v = peak visual ERP in watts

ERP_A = RMS aural ERP in watts

K43DU-D DTV Translator Facility (Proposed)

Channel 43 Freq: 644-650 MHz range
 ERP = 4.55 kW
 Polarization = Horizontal
 RCAGL -2 meters = 13.2 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 4.55 \text{ kW (Horizontal Only)}$$

$$R = 13.2 \text{ meters}$$

$$F = 0.25 \text{ (from manufacturer's data)}$$

$$S = < 54.5 \mu\text{W/cm}^2$$

Therefore, K43DU-D contributes less than $54.5 \mu\text{W/cm}^2$ at 2 meters above ground.

The limit for a controlled environment for this frequency is $f(\text{MHz})/0.3=2157 \mu\text{W/cm}^2$.

K43DU-D contributes less than 2.5% RFF level for a controlled environment two meters above the ground.

KXLF-TV NTSC Facility

Channel 4 Freq: 66-72 MHz range
 ERP = (0.4)[100 kilowatts (visual)]+[10 kilowatts (aural)]
 Polarization = Horizontal
 RCAGL -2 meters = 46.3 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 50,000 \text{ watts (Horizontal Only)}$$

$$R = 46.3 \text{ meters}$$

$$F = 0.25 \text{ (from manufacturer's data)}$$

$$S = < 48.7 \mu\text{W/cm}^2$$

Therefore, KXLF-TV contributes less than $48.7 \mu\text{W/cm}^2$ at 2 meters above ground.

The limit for a controlled environment for this frequency is $1000 \mu\text{W/cm}^2$.

KXLF-TV contributes less than 4.9% RFF level for a controlled environment two meters above the ground.

KXLF-DT DTV Facility (Construction Permit)

Channel 5 Freq: 76-82 MHz range
 ERP = 8 kW
 Polarization = Horizontal
 RCAGL -2 meters = 46.3 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 8 \text{ kW (Horizontal Only)}$$

$$R = 46.3 \text{ meters}$$

$$F = 0.27 \text{ (from manufacturer's data)}$$

$$S = < 10 \mu\text{W}/\text{cm}^2$$

Therefore, KXLF-DT contributes less than $10 \mu\text{W}/\text{cm}^2$ at 2 meters above ground.

The limit for a controlled environment for this frequency is $1000 \mu\text{W}/\text{cm}^2$.

KXLF-DT contributes less than 1.0% RFF level for a controlled environment two meters above the ground.

KFRT(FM) FM Facility

Channel 201 Freq: 88.1 MHz
 ERP = 0.85 kW
 Polarization = Vertical
 RCAGL -2 meters = 6 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 0.85 \text{ kW (Vertical only)}$$

$$R = 6 \text{ meters}$$

$$F = 0.3 \text{ (assumed value)}$$

$$S = < 71.0 \mu\text{W}/\text{cm}^2$$

Therefore, KFRT(FM) contributes less than $71.0 \mu\text{W}/\text{cm}^2$ at 2 meters above the ground.

The limit for a controlled environment is $1000 \mu\text{W}/\text{cm}^2$ for the FM band range.

KFRT(FM) contributes less than 7.1% RFF level for a controlled environment two meters above the ground.

KFRD(FM) FM Facility

Channel 205 Freq: 88.9 MHz
 ERP = 2.8 kW
 Polarization = Vertical
 RCAGL -2 meters = 6 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 2.8 \text{ kW (Vertical only)}$$

$$R = 6 \text{ meters}$$

$$F = 0.3 \text{ (assumed value)}$$

$$S = < 233.8 \mu\text{W}/\text{cm}^2$$

Therefore, KFRD(FM) contributes less than $233.8 \mu\text{W}/\text{cm}^2$ at 2 meters above the ground.

The limit for a controlled environment is $1000 \mu\text{W}/\text{cm}^2$ for the FM band range.

KFRD(FM) contributes less than 23.4% RFF level for a controlled environment two meters above the ground.

KJLF(FM) FM Facility (Construction Permit)

Channel 213 Freq: 89.7 MHz
 ERP = 0.2 kW
 Polarization = Circular
 RCAGL -2 meters = 59 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 0.2 \text{ kW (Horizontal)} + 0.2 \text{ kW (Vertical)}$$

$$R = 59 \text{ meters}$$

$$F = 0.3 \text{ (assumed value)}$$

$$S = < 0.4 \mu\text{W}/\text{cm}^2$$

Therefore, KAIB(FM) contributes less than $0.4 \mu\text{W}/\text{cm}^2$ at 2 meters above the ground.

The limit for a controlled environment is $1000 \mu\text{W}/\text{cm}^2$ for the FM band range.

KAIB(FM) contributes less than 0.1% RFF level for a controlled environment two meters above the ground.

KAPC (FM) FM Facility

Channel 217 Freq: 91.3 MHz
 ERP = 0.8 kW
 Polarization = Circular
 RCAGL -2 meters = 32 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 1,600 \text{ watts (Horizontal and Vertical)}$$

$$R = 32 \text{ meters}$$

$$F = 0.3 \text{ (assumed value)}$$

$$S = < 4.7 \mu\text{W}/\text{cm}^2$$

Therefore, KAPC (FM) contributes less than $4.7 \mu\text{W}/\text{cm}^2$ at 2 meters above the ground.

The limit for a controlled environment is $1000 \mu\text{W}/\text{cm}^2$ for the FM band range.

KAPC (FM) contributes less than 0.5% RFF level for a controlled environment two meters above the ground.

KTVM (TV) NTSC Facility

Channel 6 Freq: 82-88 MHz range
 ERP = (0.4)[100 kilowatts (visual)]+[10 kilowatts (aural)]
 Polarization = Horizontal
 RCAGL -2 meters = 49 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 50,000 \text{ watts (Horizontal Only)}$$

$$R = 49 \text{ meters}$$

$$F = 0.3 \text{ (assumed value)}$$

$$S = < 62.6 \mu\text{W}/\text{cm}^2$$

Therefore, KTVM (TV) contributes less than $62.6 \mu\text{W}/\text{cm}^2$ at 2 meters above ground.

The limit for a controlled environment for this frequency is $1000 \mu\text{W}/\text{cm}^2$.

KTVM (TV) contributes less than 6.3% RFF level for a controlled environment two meters above the ground.

KTVM-DT DTV Facility (Construction Permit)

Channel 33 Freq: 584-590 MHz range
 ERP = 300 kW
 Polarization = Horizontal
 RCAGL -2 meters = 13.3 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 300 \text{ kW (Horizontal Only)}$$

$$R = 13.3 \text{ meters}$$

$$F = 0.1 \text{ (assumed value)}$$

$$S = < 566.5 \mu\text{W}/\text{cm}^2$$

Therefore, KTVM-DT contributes less than $566.5 \mu\text{W}/\text{cm}^2$ at 2 meters above ground.

The limit for a controlled environment for this frequency is $1957 \mu\text{W}/\text{cm}^2$.

KTVM-DT contributes less than 28.9% RFF level for a controlled environment two meters above the ground.

KBTZ (TV) NTSC Facility

Channel 24 Freq: 530-536 MHz range
 ERP = (0.4)[330 kilowatts (visual)]+[33 kilowatts (aural)]
 Polarization = Horizontal
 RCAGL -2 meters = 105.6 meters (in comparison to KXLF-DT site)

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 165,000 \text{ watts (Horizontal Only)}$$

$$R = 105.6 \text{ meters}$$

$$F = 0.2 \text{ (assumed value)}$$

$$S = < 19.8 \mu\text{W}/\text{cm}^2$$

Therefore, KBTZ (TV) contributes less than $19.8 \mu\text{W}/\text{cm}^2$ at 2 meters above ground.

The limit for a controlled environment for this frequency is $1776.67 \mu\text{W}/\text{cm}^2$.

KBTZ (TV) contributes less than 1.1% RFF level for a controlled environment two meters above the ground.

KAAR (FM) FM Facility

Channel 223 Freq: 92.5 MHz
 ERP = 4.5 kW
 Polarization = Circular
 RCAGL -2 meters = 63.6 meters (in comparison to KXLF-DT site)

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 9,000 \text{ watts (Horizontal and Vertical)}$$

$$R = 63.6 \text{ meters}$$

$$F = 0.3 \text{ (assumed value)}$$

$$S = < 6.7 \mu\text{W}/\text{cm}^2$$

Therefore, KAAR (FM) contributes less than $6.7 \mu\text{W}/\text{cm}^2$ at 2 meters above the ground.

The limit for a controlled environment is $1000 \mu\text{W}/\text{cm}^2$ for the FM band range.

KAAR (FM) contributes less than 0.7% RFF level for a controlled environment two meters above the ground.

KMBR(FM) FM Facility

Channel 238 Freq: 95.5 MHz
 ERP = 50 kW
 Polarization = Circular
 RCAGL -2 meters = 67.6 meters (in comparison to KXLF-DT site)

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 100,000 \text{ watts (Horizontal and Vertical)}$$

$$R = 67.6 \text{ meters}$$

$$F = 0.3 \text{ (assumed value)}$$

$$S = < 65.8 \mu\text{W}/\text{cm}^2$$

Therefore, KMBR (FM) contributes less than $65.8 \mu\text{W}/\text{cm}^2$ at 2 meters above the ground.

The limit for a controlled environment is $1000 \mu\text{W}/\text{cm}^2$ for the FM band range.

KMBR (FM) contributes less than 6.6% RFF level for a controlled environment two meters above the ground.

K50II TV Translator Facility (Construction Permit)

Channel 50 Freq: 686-692 MHz range
 ERP = (0.4)[4 kilowatts (visual)]+[0.4 kilowatts (aural)]
 Polarization = Horizontal
 RCAGL -2 meters = 48 meters

$$S = \frac{33.4 (F^2) \text{ Tot ERP}}{R^2} \quad \text{Tot ERP} = 2000 \text{ watts (Horizontal Only)}$$

$$R = 48 \text{ meters}$$

$$F = 0.1 \text{ (assumed value)}$$

$$S = < 0.3 \mu\text{W}/\text{cm}^2$$

Therefore, K50II(TX) contributes less than $0.3 \mu\text{W}/\text{cm}^2$ at 2 meters above ground.

The limit for a controlled environment for this frequency is $f(\text{MHz})/0.3 = 2297 \mu\text{W}/\text{cm}^2$.

K50II(TX) contributes less than 0.1% RFF level for a controlled environment two meters above the ground.

Finally, there are three FM translators within 100 meters of the K43DU tower site, K234AT, K257AF, and K213CJ. K257AF and K213CJ are not subject to evaluation in accordance with OET Bulletin No. 65 since these facilities operate with less than 100 watts under Part 74, Subpart L of the FCC Rules. K234AT operates with 250 watts maximum ERP (circular polarization) on a tower 62 meters away from K43DU at a radiation center above ground level of 9 meters. Assuming a downward relative field of 0.4, the authorized construction permit for K234AT would produce a maximum predicted RFF power density of less than $54.5 \mu\text{W}/\text{cm}^2$ at 2 meters above ground or less than 5.5% of the controlled MPE guideline.

Therefore, the total maximum RFF contribution from all stations within 100 meters of the K43DU tower site is calculated as follows:

Total RFF Contribution (all stations including construction permits)

$$\text{Total RFF} \leq 2.5\% + 4.9\% + 1.0\% + 7.1\% + 23.4\% + 0.1\% + 0.5\% + 6.3\% + 4.9\% + 0.4\% + 28.9\% + 1.1\% + 0.7\% + 6.6\% + 0.1\% = 94.0\% \text{ RFF for a controlled environment two meters above ground in the vicinity of the K43DU tower site}$$

Total RFF Contribution (all authorized operational stations, excluding stations with Construction permits)

Total RFF \leq 2.5% + 4.9% + 1.0% + 7.1% + 0.5% + 6.3% + 4.9% + 0.4% + 28.9% + 1.1% + 0.7% + 6.6% = 64.9% RFF for a controlled environment two meters above ground in the vicinity of the K43DU tower site.

The licensee indicates that access to the site is approximately 8 miles from a main road. The road is not regularly traveled. A locked gate is in place on the access road that leads to the tower site. Therefore, it is believed this site qualifies under Situation B of OET Bulletin 65 as discussed below.

From Pages 77 and 78, guidance for such a situation is provided from the FCC publication entitled, "*Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields, OET Bulletin 65, Edition 97-01, August 1997*", "*Appendix B, Summary of 1986 Mass Media Bureau, Public Notice on RF Compliance*".

A portion is abstracted as follows:

Situations

(B) High RF levels are produced at ground level in a remote area not likely to be visited by the public.

- If the area of concern is marked by appropriate warning signs, an applicant may assume that there is no significant effect on the human environment with regard to exposure of the general public. It is recommended that fences also be used where feasible.

Therefore, members of the public and personnel working around the K43DU facility would not be exposed to RFF levels exceeding the FCC standards since KXLF Communications, Inc., the owner of the tower site, has posted signs around the tower property.

Authorized personnel and rigging contractors will be alerted to the potential zone of high radiation on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or

contractors to perform work on or near the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

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.

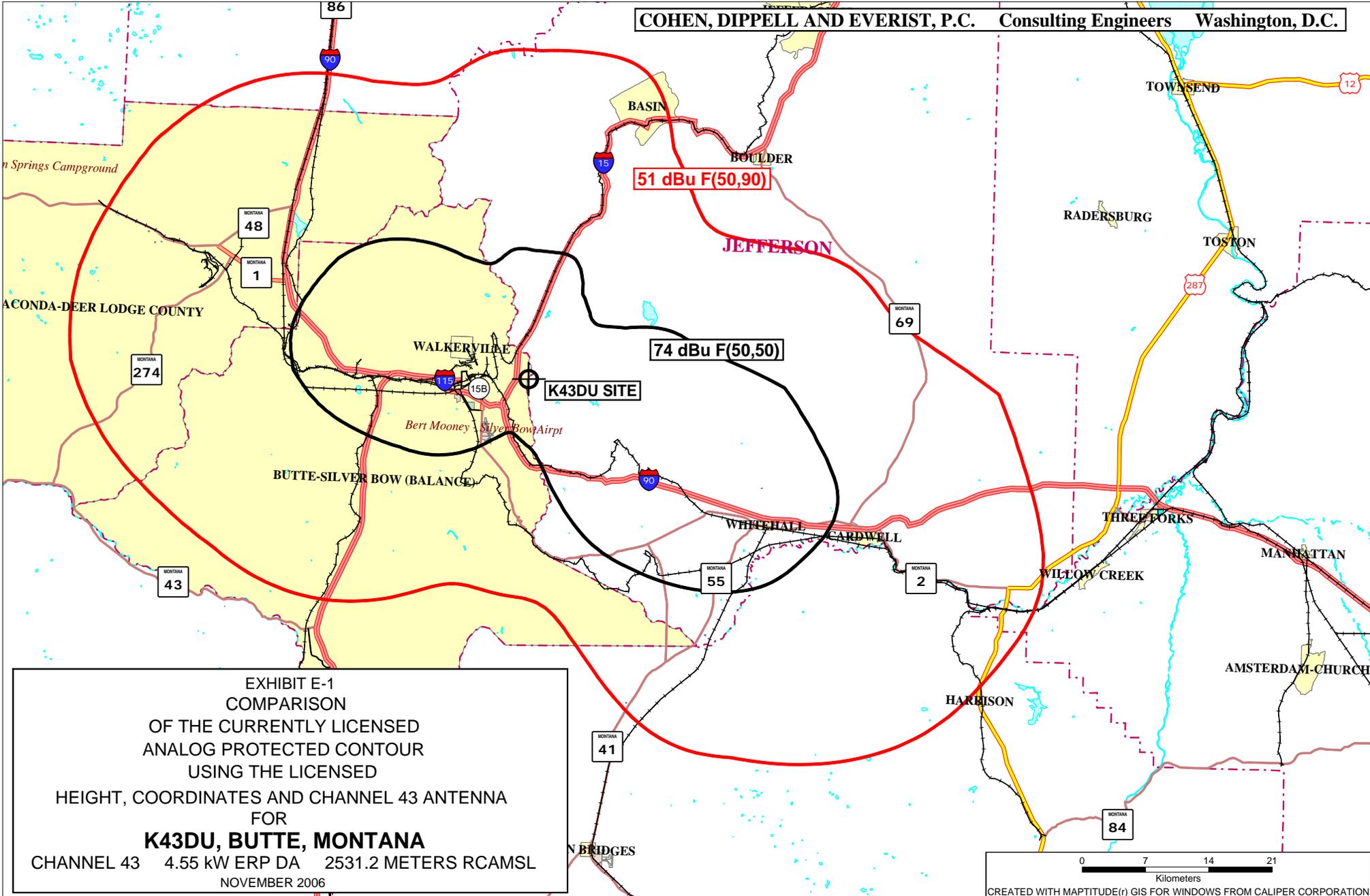


EXHIBIT E-2
DLPTV ANALYSIS RESULTS
FOR THE PROPOSED DIGITAL "FLASH-CUT"
OPERATION OF
K43DU-D, BUTTE, MONTANA

DLPTV Results - K43DU

1990 Census data selected
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 11-17-2006 Time: 10:51:28

Record Selected for Analysis

K43DU MRD -2391MRD BUTTE MT US
 Channel 43 ERP 4.55 kW HAAT 557 m RCAMSL 2531 m
 Latitude 46 -0 -29 Longitude 112 -26-30
 Status DTV Zone 2 Border DT Mask Simple
 Dir Antenna Make CDB Model 0000000001064 Beam tilt N Ref Azimuth 0
 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	0.130	524.8	36.1
45.0	0.226	172.9	26.7
90.0	2.635	440.5	51.8
135.0	2.691	596.1	56.3
180.0	0.019	489.0	24.4
225.0	0.054	784.8	35.2
270.0	0.573	845.3	50.8
315.0	0.423	587.6	44.6

Contour Overlap to Proposed Station

Station
K42BZ 42 BOZEMAN MT BLTTA20021104ADJ

Station inside contour of Digital LPTV station
K43DU 43 BUTTE MT MRD 2391MRD

Station
KTMF-LP 42 KALISPELL MT BPTTL20020625AA0

Station inside contour of Digital LPTV station
K43DU 43 BUTTE MT MRD 2391MRD

Station
K42DD 42 TOOLE, ETC. MT BLTT19921210JL

Station inside contour of Digital LPTV station
K43DU 43 BUTTE MT MRD 2391MRD

Station
K43GE 43 JULIAETTA ID BLTT20001124AAL

Station inside contour of Digital LPTV station
K43DU 43 BUTTE MT MRD 2391MRD

Station

K43DU 43 BUTTE DLPTV Results - K43DU
MT BLTT20060525ABM

Station inside contour of Digital LPTV station
K43DU 43 BUTTE MT MRD 2391MRD

Station
NEW 43 MISSOULA MT BNPTTL20000829AJJ causes

Contour overlap to Digital LPTV station
K43DU 43 BUTTE MT MRD 2391MRD

Station
K44FR 44 BIGFORK MT BLTT20021025AAG

Station inside contour of Digital LPTV station
K43DU 43 BUTTE MT MRD 2391MRD

Station
K44DI 44 CLYDE PARK, ETC. MT BLTT19920602JK

Station inside contour of Digital LPTV station
K43DU 43 BUTTE MT MRD 2391MRD

Contour Overlap Evaluation to Proposed Station Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
Distance to border = 332.6km

Proposed facility is beyond the Mexican coordination distance

Proposed station is 2.13km from AM station
SILVER BOW MT NEW Status: Antenna: DA2

Start of Interference Analysis

Channel 43 Proposed Station
Call K43DU City/State BUTTE MT ARN MRD 2391MRD

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
28	KWYB-LP	BOZEMAN MT	127.4	LIC	BLTTL	-19971008JB
28	NEW	GREAT FALLS MT	191.3	APP	BNPTT	-20000828BIK
28	NEW	KALISPELL MT	280.8	APP	BNPTTL	-20000831BKY
28	K28CF	ST. IGNATIUS MT	192.8	LIC	BLTTL	-19880426IF
28	K28AZ	WEST YELLOWSTONE MT	170.0	LIC	BLTT	-19880426IB
29	K29CV	FLORENCE MT	145.1	LIC	BLTT	-19940909IA
29	K29AA	KALISPELL MT	312.6	LIC	BLTT	-1298
29	K29AA	KALISPELL MT	312.6	LIC	BLTT	-1298
29	K68AW	WEEKSVILLE, ETC. MT	238.6	APP	BPTT	-20010416AAD
29	K59DY	JACKSON WY	295.2	CP	BDISTT	-20060323AHV
35	K09HK	BONNERS FERRY, ETC. ID	407.7	CP	BPTT	-20050610AIIH
35	K35BW	LEWISTON ID	357.4	LIC	BLTT	-19890203IC
35	K35DJ	THREE FORKS MT	74.2	LIC	BLTT	-19921007JD
36	NEW	BOZEMAN MO	114.1	APP	BNPTT	-20000831AQV
36	K36HC	BOZEMAN MT	0.2	CP	BNPTTL	-20000807AAN
36	NEW	BOZEMAN MT	99.6	APP	BNPTTL	-20000830BNB
36	K36CX	CLANCY MT	68.2	LIC	BLTTL	-19921002JF

DLPTV Results - K43DU

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
28	NEW	GREAT FALLS MT	BNPTT	-20000828BIK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KAQR-DT	HELENA MT	129.5	PLN	DTVPLN	-DTVP0705
29	KTMF	HELENA MT	85.1	CP MOD	BMPCDT	-20041101AHP
43	K43DU	BUTTE MT	191.3	DTV	MRD	-2391MRD
43	NEW	GREAT FALLS MT	0.0	APP	BNPTTL	-20000829AHH

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.
28	NEW	KALISPELL MT	BNPTTL	-20000831BKY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
35	KPAX-DT	MISSOULA MT	131.1	PLN	DTVPLN	-DTVP0928del
36	KTMF	MISSOULA MT	131.0	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	131.0	PLN	DTVPLN	-DTVP0967
43	K43DU	BUTTE MT	280.8	DTV	MRD	-2391MRD

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.
28	K28CF	ST. IGNATIUS MT	BLTTL	-198804261F

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	KUFM-DT	MISSOULA MT	58.6	PLN	DTVPLN	-DTVP0636
35	KPAX-DT	MISSOULA MT	34.4	PLN	DTVPLN	-DTVP0928del
36	KTMF	MISSOULA MT	34.3	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	34.3	PLN	DTVPLN	-DTVP0967
43	K43DU	BUTTE MT	192.8	DTV	MRD	-2391MRD
43	NEW	MISSOULA MT	34.4	APP	BNPTTL	-20000829AJJ

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

DLPTV Results - K43DU

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

Stations Potentially Affecting This Station

Table with 7 columns: Chan, Call, City/State, Dist(km), Status, Application, Ref. No. Rows include KUSM-DT, KQYB-LP, and K43DU.

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel 29 Call K29CV City/State FLORENCE MT Application Ref. No. BLTT -199409091A

Stations Potentially Affecting This Station

Table with 7 columns: Chan, Call, City/State, Dist(km), Status, Application, Ref. No. Rows include KUFM-DT, KAQR-DT, KMTF, K68AW, KTMF, and K43DU.

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel 29 Call K29AA City/State KALISPELL MT Application Ref. No. BLTT -1298

Stations Potentially Affecting This Station

Table with 7 columns: Chan, Call, City/State, Dist(km), Status, Application, Ref. No. Rows include KAQR-DT, KMTF, K68AW, and K43DU.

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel 29 Call K29AA City/State KALISPELL MT Application Ref. No. BLTT -1298

Stations Potentially Affecting This Station

DLPTV Results - K43DU

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	KAQR-DT	HELENA MT	262.1	PLN	DTVPLN -DTVP0705
29	KMTF	HELENA MT	271.7	CP MOD	BMPCDT -20041101AHP
29	K68AW	WEEKSVILLE, ETC. MT	131.7	APP	BPTT -20010416AAD
43	K43DU	BUTTE MT	312.6	DTV	MRD -2391MRD

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	K68AW	WEEKSVILLE, ETC. MT	BPTT -20010416AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	KUFM-DT	MISSOULA MT	92.2	PLN	DTVPLN -DTVP0636
29	KAQR-DT	HELENA MT	212.5	PLN	DTVPLN -DTVP0705
29	KMTF	HELENA MT	245.8	CP MOD	BMPCDT -20041101AHP
29	K29AA	KALISPELL MT	131.7	LIC	BLTT -1298
29	K29AA	KALISPELL MT	131.7	LIC	BLTT -1298
36	KTMF	MISSOULA MT	74.9	CP MOD	BMPCDT -20060707AEZ
36	KTMF-DT	MISSOULA MT	74.9	PLN	DTVPLN -DTVP0967
43	K43DU	BUTTE MT	238.6	DTV	MRD -2391MRD

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	K59DY	JACKSON WY	BDISTT -20060323AHV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	KAQR-DT	HELENA MT	351.6	PLN	DTVPLN -DTVP0705
29	KMTF	HELENA MT	364.9	CP MOD	BMPCDT -20041101AHP
36	KIDK	IDAHO FALLS ID	144.9	CP	BPCDT -19991026AAW
36	KIDK-DT	IDAHO FALLS ID	144.9	PLN	DTVPLN -DTVP0954
43	K43DU	BUTTE MT	295.2	DTV	MRD -2391MRD

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application Ref. No.
35	K09HK	BONNERS FERRY, ETC. ID	BPTT -20050610AIIH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
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DLPTV Results - K43DU

35	KUID-DT	MOSCOW ID	220.9	PLN	DTVPLN	-DTVP0920
35	KUID-TV	MOSCOW ID	220.9	APP	BPET	-20041019ABU
35	KEXI-LP	KALISPELL MT	141.0	LIC	BLTTL	-19990713JE
35	KPAX-DT	MISSOULA MT	243.7	PLN	DTVPLN	-DTVP0928del
43	K43DU	BUTTE MT	407.7	DTV	MRD	-2391MRD

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.
35	K35BW	LEWISTON ID	BLTT	-198902031C

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
35	KUID-DT	MOSCOW ID	26.3	PLN	DTVPLN	-DTVP0920
35	KUID-TV	MOSCOW ID	26.3	APP	BPET	-20041019ABU
35	KPAX-DT	MISSOULA MT	239.6	PLN	DTVPLN	-DTVP0928del
36	KSKN	SPOKANE WA	128.5	CP MOD	BMPCDT	-20031110AMP
36	KSKN	SPOKANE WA	128.5	LIC	BLCDT	-20050113ACT
36	KSKN-DT	SPOKANE WA	129.2	PLN	DTVPLN	-DTVP0980
43	K43DU	BUTTE MT	357.4	DTV	MRD	-2391MRD

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.
35	K35DJ	THREE FORKS MT	BLTT	-19921007JD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
35	KPAX-DT	MISSOULA MT	227.5	PLN	DTVPLN	-DTVP0928del
43	K43DU	BUTTE MT	74.2	DTV	MRD	-2391MRD

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
36	NEW	BOZEMAN MO	BNPTT	-20000831AQV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KAQR-DT	HELENA MT	141.3	PLN	DTVPLN	-DTVP0705
29	KMTF	HELENA MT	139.1	CP MOD	BMPCDT	-20041101AHP
36	KIDK	IDAHO FALLS ID	271.9	CP	BPCDT	-19991026AAW
36	KIDK-DT	IDAHO FALLS ID	271.9	PLN	DTVPLN	-DTVP0954
36	NEW	BOZEMAN MT	16.9	APP	BNPTTL	-20000830BNB

DLPTV Results - K43DU						
36	KTMF	MISSOULA MT	272.6	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	272.6	PLN	DTVPLN	-DTVP0967
43	K43DU	BUTTE MT	114.1	DTV	MRD	-2391MRD

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.
36	K36HC	BOZEMAN MT	BNPTTL	-20000807AAN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KAQR-DT	HELENA MT	66.5	PLN	DTVPLN	-DTVP0705
29	KMTF	HELENA MT	107.0	CP MOD	BMPCDT	-20041101AHP
36	KIDK	IDAHO FALLS ID	279.4	CP	BPCDT	-19991026AAW
36	KIDK-DT	IDAHO FALLS ID	279.4	PLN	DTVPLN	-DTVP0954
36	NEW	BOZEMAN MT	99.6	APP	BNPTTL	-20000830BNB
36	K36CX	CLANCY MT	68.4	LIC	BLTTL	-19921002JF
36	KTMF	MISSOULA MT	164.6	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	164.6	PLN	DTVPLN	-DTVP0967
43	K43DU	BUTTE MT	0.2	DTV	MRD	-2391MRD
51	NEW	BUTTE MT	0.2	APP	BNPTTL	-20000829AHK

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.
36	NEW	BOZEMAN MT	BNPTTL	-20000830BNB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KAQR-DT	HELENA MT	132.8	PLN	DTVPLN	-DTVP0705
29	KMTF	HELENA MT	136.5	CP MOD	BMPCDT	-20041101AHP
36	KIDK	IDAHO FALLS ID	262.0	CP	BPCDT	-19991026AAW
36	KIDK-DT	IDAHO FALLS ID	262.0	PLN	DTVPLN	-DTVP0954
36	NEW	BOZEMAN MO	16.9	APP	BNPTT	-20000831AQV
36	K36HC	BOZEMAN MT	99.6	CP	BNPTTL	-20000807AAN
36	K36CX	CLANCY MT	109.7	LIC	BLTTL	-19921002JF
36	KTMF	MISSOULA MT	260.6	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	260.6	PLN	DTVPLN	-DTVP0967
43	K43DU	BUTTE MT	99.6	DTV	MRD	-2391MRD

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
36	K36CX	CLANCY MT	BLTTL	-19921002JF

Stations Potentially Affecting This Station

DLPTV Results - K43DU

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KAQR-DT	HELENA MT	29.5	PLN	DTVPLN	-DTVP0705
29	KMTF	HELENA MT	39.0	CP MOD	BMPCDT	-20041101AHP
36	KIDK	IDAHO FALLS ID	339.8	CP	BPCDT	-19991026AAW
36	KIDK-DT	IDAHO FALLS ID	339.8	PLN	DTVPLN	-DTVP0954
36	NEW	BOZEMAN MO	116.2	APP	BNPTT	-20000831AQV
36	K36HC	BOZEMAN MT	68.4	CP	BNPTTL	-20000807AAN
36	NEW	BOZEMAN MT	109.7	APP	BNPTTL	-20000830BNB
36	KTMF	MISSOULA MT	168.2	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	168.2	PLN	DTVPLN	-DTVP0967
39	KFBB-DT	GREAT FALLS MT	124.1	PLN	DTVPLN	-DTVP1038del
43	K43DU	BUTTE MT	68.2	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	124.1	PLN	DTVPLN	-DTVP1210

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
39	K69CM	BIG TIMBER, ETC. MT	BDI STTL	-20060331BLP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	NEW	BIG TIMBER, ETC. MT	0.0	APP	BSFDTL	-20060630CFR
39	NEW	BILLINGS MT	180.0	APP	BNPTTL	-20000828BDI
39	NEW	BOZEMAN MT	38.7	APP	BSFDTL	-20060630CKX
39	NEW	BUTTE MT	134.3	APP	BDCCDTL	-20061010ABK
39	KFBB-DT	GREAT FALLS MT	210.0	PLN	DTVPLN	-DTVP1038del
39	NEW	GREAT FALLS MT	210.5	APP	BNPTTL	-20000831BGX
39	NEW	LIVINGSTON, ETC. MT	19.8	APP	BSFDTT	-20060630CWU
43	K43DU	BUTTE MT	134.3	DTV	MRD	-2391MRD

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 19

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	KJCX-LP	BOZEMAN MT	BMP TTL	-20060331AYP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	KECI -DT	MISSOULA MT	271.9	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	271.9	CP MOD	BMPCDT	-20060705AAG
40	K40HL	WHITEHALL MT	80.8	LIC	BLTT	-20051107AFJ
43	K43DU	BUTTE MT	114.7	DTV	MRD	-2391MRD

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 20

DLPTV Results - K43DU

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
40	K40HL	WHI TEHALL MT	BLTT	-20051107AFJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	KJCX-LP	BOZEMAN MT	80.8	CP MOD	BMP TTL	-20060331AYP
40	KECI -DT	MISSOULA MT	195.2	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	195.2	CP MOD	BMPCDT	-20060705AAG
43	K43DU	BUTTE MT	33.9	DTV	MRD	-2391MRD

Proposal causes no interference

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Analysis of Interference to Affected Station 21

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
41	K41CX	HELENA MT	BLTT	-20050215AAU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	101.9	PLN	DTVPLN	-DTVP1038del
41	NEW	BUTTE MT	90.6	APP	BDC CDTL	-20061003AEN
43	K43DU	BUTTE MT	90.4	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	101.9	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	105.8	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	105.9	PLN	DTVPLN	-DTVP1240

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 22

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
42	K42BZ	BOZEMAN MT	BLTTA	-20021104ADJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	127.5	DTV	MRD	-2391MRD

Proposal causes no interference

#####

Analysis of Interference to Affected Station 23

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
42	K42EO	MISSOULA MT	BDFCDTT	-20060330ACL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	147.5	DTV	MRD	-2391MRD
43	NEW	MISSOULA MT	8.2	APP	BNPTTL	-20000807AEZ
43	NEW	MISSOULA MT	23.5	APP	BNPTTL	-20000829AJJ

Proposal causes no interference

DLPTV Results - K43DU

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Analysis of Interference to Affected Station 24

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
42	K42EO	MISSOULA MT	BLTT	-20021115AAN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
35	KPAX-DT	MISSOULA MT	23.5	PLN	DTVPLN	-DTVP0928del
38	KCFW-DT	KALISPELL MT	137.1	PLN	DTVPLN	-DTVP0997
40	KECI -DT	MISSOULA MT	23.4	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	23.4	CP MOD	BMPCDT	-20060705AAG
42	KTMF-LP	KALISPELL MT	154.6	CP	BPTTL	-20020625AAO
43	K43DU	BUTTE MT	147.5	DTV	MRD	-2391MRD
43	NEW	MISSOULA MT	8.2	APP	BNPTTL	-20000807AEZ
43	NEW	MISSOULA MT	23.5	APP	BNPTTL	-20000829AJJ
46	NEW	KALISPELL MT	137.1	APP	BNPEDT	-20060810ABD
46	NEW	KALISPELL MT	137.1	APP	BNPEDT	-20060809AJQ

Proposal causes no interference

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Analysis of Interference to Affected Station 25

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	K43DU	BUTTE MT	BLTT	-20060525ABM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	0.0	DTV	MRD	-2391MRD
43	NEW	MISSOULA MT	153.1	APP	BNPTTL	-20000807AEZ
43	NEW	MISSOULA MT	164.4	APP	BNPTTL	-20000829AJJ

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 25
 Before Analysis

Results for: 43N MT BUTTE	BLTT	20060525ABM	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	28378	1337.2	
not affected by terrain losses	28060	973.5	
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: 43N MT BUTTE	BLTT	20060525ABM	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	28378	1337.2	
not affected by terrain losses	28060	973.5	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	27907	644.7	
lost to all IX	27907	644.7	

DLPTV Results - K43DU

Potential Interfering Stations Included in above Scenario 1

43A MT BUTTE MRD 2391MRD DTV

The following station failed the de minimis interference criteria.

43D MT BUTTE MRD 2391MRD
 ERP 4.55 kW HAAT 557.0 m RCAMSL 2531.0 m
 Antenna CDB 0000000001064

Due to interference to the following station and scenario: 1

43N MT BUTTE BLTT 20060525ABM
 ERP 18.20 kW HAAT 557.0 m RCAMSL 2531.0 m
 Antenna CDB 0000000070143

Percent new DTV interference without proposal: 0.0 BLTT 20060525ABM
 Percent new DTV interference with proposal: 98.3 BLTT 20060525ABM

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Analysis of Interference to Affected Station 26

Analysis of current record

Channel	Call	City/State	Application Ref. No.
43	NEW	GREAT FALLS MT	BNPTTL -20000829AHH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
39	KFBB-DT	GREAT FALLS MT	0.0	PLN	DTVPLN -DTVP1038del
42	NEW	GREAT FALLS MT	0.0	APP	BNPTTL -20000831EIR
43	K43DU	BUTTE MT	191.3	DTV	MRD -2391MRD
43	K43DC	LEWISTOWN MT	137.6	APP	BDFCDTT -20060331BNW
43	K43DC	LEWISTOWN MT	137.3	LIC	BLTT -19901113IC
43	NEW	MISSOULA MT	213.6	APP	BNPTTL -20000829AJJ
44	KRTV-DT	GREAT FALLS MT	0.0	PLN	DTVPLN -DTVP1210
45	KTGF	GREAT FALLS MT	9.7	CP MOD	BMPCDT -20041119ADX
45	KTGF-DT	GREAT FALLS MT	9.7	PLN	DTVPLN -DTVP1240

Proposal causes no interference

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Analysis of Interference to Affected Station 27

Analysis of current record

Channel	Call	City/State	Application Ref. No.
43	K43DC	LEWISTOWN MT	BDFCDTT -20060331BNW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	257.3	DTV	MRD -2391MRD
43	NEW	GREAT FALLS MT	137.6	APP	BNPTTL -20000829AHH

Proposal causes no interference

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Analysis of Interference to Affected Station 28

Analysis of current record

Channel	Call	City/State	Application Ref. No.
43	K43DC	LEWISTOWN MT	BLTT -19901113IC

Stations Potentially Affecting This Station

DLPTV Results - K43DU

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	137.3	PLN	DTVPLN	-DTVP1038del
43	K43DU	BUTTE MT	257.1	DTV	MRD	-2391MRD
43	NEW	GREAT FALLS MT	137.3	APP	BNPTTL	-20000829AHH
45	KTGF	GREAT FALLS MT	145.0	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	145.0	PLN	DTVPLN	-DTVP1240

Proposal causes no interference

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Analysis of Interference to Affected Station 29

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	NEW	MISSOULA MT	BNPTTL	-20000807AEZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
35	KPAX-DT	MISSOULA MT	15.2	PLN	DTVPLN	-DTVP0928del
36	KTMF	MISSOULA MT	15.4	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	15.4	PLN	DTVPLN	-DTVP0967
40	KECI -DT	MISSOULA MT	15.2	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	15.2	CP MOD	BMPCDT	-20060705AAG
42	K42EO	MISSOULA MT	8.2	CP	BDFCDTT	-20060330ACL
42	K42EO	MISSOULA MT	8.2	LIC	BLTT	-20021115AAN
43	K43DU	BUTTE MT	153.1	DTV	MRD	-2391MRD
43	K43DU	BUTTE MT	153.1	LIC	BLTT	-20060525ABM
43	NEW	GREAT FALLS MT	216.6	APP	BNPTTL	-20000829AHH
43	NEW	MISSOULA MT	15.2	APP	BNPTTL	-20000829AJJ
46	NEW	KALI SPELL MT	128.9	APP	BNPEDT	-20060810ABD
46	NEW	KALI SPELL MT	128.9	APP	BNPEDT	-20060809AJQ

Proposal causes no interference

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Analysis of Interference to Affected Station 30

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	NEW	MISSOULA MT	BNPTTL	-20000829AJJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
35	KPAX-DT	MISSOULA MT	0.0	PLN	DTVPLN	-DTVP0928del
36	KTMF	MISSOULA MT	0.2	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	0.2	PLN	DTVPLN	-DTVP0967
40	KECI -DT	MISSOULA MT	0.1	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	0.1	CP MOD	BMPCDT	-20060705AAG
42	K42EO	MISSOULA MT	23.5	CP	BDFCDTT	-20060330ACL
42	K42EO	MISSOULA MT	23.5	LIC	BLTT	-20021115AAN
43	K43CI	GRANGEVILLE, ETC. ID	215.2	LIC	BLTT	-19890705I J
43	K43DU	BUTTE MT	164.4	DTV	MRD	-2391MRD
43	K43DU	BUTTE MT	164.4	LIC	BLTT	-20060525ABM
43	NEW	GREAT FALLS MT	213.6	APP	BNPTTL	-20000829AHH
43	NEW	MISSOULA MT	15.2	APP	BNPTTL	-20000807AEZ
46	NEW	KALI SPELL MT	113.7	APP	BNPEDT	-20060810ABD
46	NEW	KALI SPELL MT	113.7	APP	BNPEDT	-20060809AJQ

Proposal causes no interference

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Analysis of Interference to Affected Station 31

DLPTV Results - K43DU

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	K44EC	COEUR D' ALENE ID	BLTT	-19961126JL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	KSKN	SPOKANE WA	45.2	CP MOD	BMPCDT	-20031110AMP
36	KSKN	SPOKANE WA	45.2	LIC	BLCDT	-20050113ACT
36	KSKN-DT	SPOKANE WA	44.9	PLN	DTVPLN	-DTVP0980
43	K43DU	BUTTE MT	377.9	DTV	MRD	-2391MRD
44	K44FR	BIGFORK MT	181.5	LIC	BLTT	-20021025AAG
45	KCDT-DT	COEUR D' ALENE ID	0.0	PLN	DTVPLN	-DTVP1231
45	KCDT	COEUR D' ALENE ID	0.0	LIC	BLEDT	-20030807AAT
51	NEW	MEDICAL LAKE WA	45.1	APP	BNPCDT	-20060424ADL

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 32

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	K44FR	BIGFORK MT	BLTT	-20021025AAG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
36	KTMF	MISSOULA MT	113.7	CP MOD	BMPCDT	-20060707AEZ
36	KTMF-DT	MISSOULA MT	113.7	PLN	DTVPLN	-DTVP0967
40	KECI -DT	MISSOULA MT	113.9	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	113.9	CP MOD	BMPCDT	-20060705AAG
43	K43DU	BUTTE MT	265.6	DTV	MRD	-2391MRD
44	K44EC	COEUR D' ALENE ID	181.5	LIC	BLTT	-19961126JL
44	KRTV-DT	GREAT FALLS MT	234.0	PLN	DTVPLN	-DTVP1210
46	NEW	KALISPELL MT	2.5	APP	BNPEDT	-20060810ABD
46	NEW	KALISPELL MT	2.5	APP	BNPEDT	-20060809AJQ

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 33

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	NEW	BILLINGS MT	BNPTTL	-20000831EKF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	303.1	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	288.8	PLN	DTVPLN	-DTVP1210
45	NEW	BILLINGS MT	11.6	APP	BDCCTL	-20061004AAP

Proposed station is beyond the site to nearest cell evaluation distance

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DLPTV Results - K43DU
Analysis of Interference to Affected Station 34

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	K44DI	CLYDE PARK, ETC. MT	BLTT	-19920602JK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	153.8	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	222.7	PLN	DTVPLN	-DTVP1210

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 35

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
44	K44GE	HELENA MT	BLTTL	-20020502AAX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	73.9	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	117.4	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	122.2	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	122.2	PLN	DTVPLN	-DTVP1240

Proposal causes no interference

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Analysis of Interference to Affected Station 36

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	K45EB	BOZEMAN, ETC. MT	BLTTL	-19950815JF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	99.6	DTV	MRD	-2391MRD
45	KTGF	GREAT FALLS MT	219.1	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	219.2	PLN	DTVPLN	-DTVP1240

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 37

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	K45DQ	HOT SPRINGS MT	BLTT	-199306281F

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KCFW-DT	KALISPELL MT	47.9	PLN	DTVPLN	-DTVP0997
43	K43DU	BUTTE MT	247.3	DTV	MRD	-2391MRD

DLPTV Results - K43DU

45	KCDT-DT	COEUR D' ALENE ID	155.0	PLN	DTVPLN	-DTVP1231
45	KCDT	COEUR D' ALENE ID	155.0	LIC	BLEDT	-20030807AAT
45	KTGF	GREAT FALLS MT	247.6	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	247.7	PLN	DTVPLN	-DTVP1240
46	NEW	KALISPELL MT	47.9	APP	BNPEDT	-20060810ABD
46	NEW	KALISPELL MT	47.9	APP	BNPEDT	-20060809AJQ

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 38

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	K45CS	LEWISTOWN MT	BLTT	-198905251H

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	257.4	DTV	MRD	-2391MRD
45	KTGF	GREAT FALLS MT	145.3	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	145.3	PLN	DTVPLN	-DTVP1240

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 39

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	K67EC	PINESDALE MT	BDI STT	-20060221AEO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	128.7	DTV	MRD	-2391MRD
45	KCDT-DT	COEUR D' ALENE ID	255.5	PLN	DTVPLN	-DTVP1231
45	KCDT	COEUR D' ALENE ID	255.5	LIC	BLEDT	-20030807AAT
45	KTGF	GREAT FALLS MT	247.5	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	247.6	PLN	DTVPLN	-DTVP1240

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 40

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	K45BW	CODY WY	BLTT	-1989013110

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	320.5	DTV	MRD	-2391MRD
45	NEW	BILLINGS MT	129.9	APP	BDCCTL	-20061004AAP
45	NEW	CASTLE ROCK, ETC. MT	205.0	APP	BSFDTT	-20060630CFQ
45	KTGF	GREAT FALLS MT	385.0	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	385.0	PLN	DTVPLN	-DTVP1240

DLPTV Results - K43DU

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 41

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	NEW	HELENA MT	BNPTTL	-20000804ADK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	129.7	PLN	DTVPLN	-DTVP1038del
43	K43DU	BUTTE MT	66.1	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	129.8	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	133.1	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	133.2	PLN	DTVPLN	-DTVP1240
46	NEW	BOZEMAN MT	66.3	APP	BDCCTL	-20061004AAE
46	NEW	KALISPELL MT	221.6	APP	BNPEDT	-20060810ABD
46	NEW	KALISPELL MT	221.6	APP	BNPEDT	-20060809AJQ
47	NEW	HELENA MT	0.2	APP	BNPTTL	-20000828AKL
47	NEW	HELENA MT	0.2	APP	BNPTTL	-20000828AXH
47	NEW	HELENA MT	23.1	APP	BNPTTL	-20000830BKZ
47	NEW	HELENA MT	19.8	APP	BNPTTL	-20000807AEU

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 42

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46BX	PHILLIPS COUNTY MT	BLTT	-19890210IF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	365.2	DTV	MRD	-2391MRD

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 43

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K47IW	BOZEMAN MT	BNPTTL	-20000807ADP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	127.4	DTV	MRD	-2391MRD
47	NEW	BUTTE MT	127.4	APP	BNPTTL	-20000829AHL
47	NEW	BUTTE MT	136.2	APP	BNPTTL	-20000807ADC
47	NEW	BUTTE MT	127.4	APP	BNPTT	-20000830BDR

Proposed station is beyond the site to

DLPTV Results - K43DU

nearest cell evaluation distance

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Analysis of Interference to Affected Station 44

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	NEW	BUTTE MT	BNPTTL -20000829AHL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	0.1	DTV	MRD -2391MRD
46	NEW	BOZEMAN MT	0.1	APP	BDCCDTL -20061004AAE
46	NEW	HELENA MT	66.2	APP	BNPTTL -20000804ADK
47	K47IW	BOZEMAN MT	127.4	CP	BNPTTL -20000807ADP
47	NEW	BUTTE MT	10.7	APP	BNPTTL -20000807ADC
47	NEW	BUTTE MT	0.1	APP	BNPTT -20000830BDR
47	NEW	BUTTE MT	10.6	APP	BNPTTL -20000830BTO
47	NEW	BUTTE MT	10.6	APP	BNPTTL -20000831EKI
47	K47IY	DEER LODGE MT	50.0	CP	BNPTTL -20000830ARM
47	NEW	HELENA MT	66.1	APP	BNPTTL -20000828AKL
47	NEW	HELENA MT	66.1	APP	BNPTTL -20000828AXH
47	NEW	HELENA MT	80.9	APP	BNPTTL -20000830BKZ
47	NEW	HELENA MT	72.2	APP	BNPTTL -20000807AEU
48	NEW	BUTTE MT	10.6	APP	BNPTTL -20000831EKG

Proposal causes no interference

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Analysis of Interference to Affected Station 45

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	NEW	BUTTE MT	BNPTTL -20000807ADC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	10.7	DTV	MRD -2391MRD
46	NEW	BOZEMAN MT	10.6	APP	BDCCDTL -20061004AAE
47	K47IW	BOZEMAN MT	136.2	CP	BNPTTL -20000807ADP
47	NEW	BUTTE MT	10.7	APP	BNPTTL -20000829AHL
47	K47IY	DEER LODGE MT	48.6	CP	BNPTTL -20000830ARM
47	NEW	HELENA MT	71.9	APP	BNPTTL -20000828AKL
47	NEW	HELENA MT	71.9	APP	BNPTTL -20000828AXH
47	NEW	HELENA MT	88.6	APP	BNPTTL -20000830BKZ
47	NEW	HELENA MT	80.1	APP	BNPTTL -20000807AEU
47	NEW	KALI SPELL MT	264.2	APP	BNPTTL -20000829AIX
47	NEW	MISSOULA MT	147.7	APP	BNPTTL -20000828AXR
48	NEW	BUTTE MT	0.5	APP	BNPTTL -20000831EKG

Proposal causes no interference

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Analysis of Interference to Affected Station 46

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	NEW	BUTTE MT	BNPTT -20000830BDR

Stations Potentially Affecting This Station

DLPTV Results - K43DU

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	0.2	DTV	MRD -2391MRD
46	NEW	BOZEMAN MT	0.0	APP	BDCCDTL -20061004AAE
47	NEW	BUTTE MT	0.1	APP	BNPTTL -20000829AHL
47	K471Y	DEER LODGE MT	50.1	CP	BNPTTL -20000830ARM
47	NEW	HELENA MT	66.2	APP	BNPTTL -20000828AKL
47	NEW	HELENA MT	66.2	APP	BNPTTL -20000828AXH
47	NEW	HELENA MT	81.0	APP	BNPTTL -20000830BKZ
47	NEW	HELENA MT	72.3	APP	BNPTTL -20000807AEU
47	NEW	KALI SPELL MT	266.4	APP	BNPTTL -20000829AIX
47	NEW	MISSOULA MT	153.2	APP	BNPTTL -20000828AXR
48	NEW	BUTTE MT	10.6	APP	BNPTTL -20000831EKG

Proposal causes no interference

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Analysis of Interference to Affected Station 47

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	NEW	BUTTE MT	BNPTTL -20000830BTO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	10.6	DTV	MRD -2391MRD
46	NEW	BOZEMAN MT	10.6	APP	BDCCDTL -20061004AAE
47	NEW	BUTTE MT	10.6	APP	BNPTTL -20000829AHL
47	K471Y	DEER LODGE MT	49.1	CP	BNPTTL -20000830ARM
47	NEW	HELENA MT	72.2	APP	BNPTTL -20000828AKL
47	NEW	HELENA MT	72.2	APP	BNPTTL -20000828AXH
47	NEW	HELENA MT	88.8	APP	BNPTTL -20000830BKZ
48	NEW	BUTTE MT	0.0	APP	BNPTTL -20000831EKG

Proposal causes no interference

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Analysis of Interference to Affected Station 48

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	NEW	BUTTE MT	BNPTTL -20000831EKI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	10.6	DTV	MRD -2391MRD
46	NEW	BOZEMAN MT	10.6	APP	BDCCDTL -20061004AAE
47	NEW	BUTTE MT	10.6	APP	BNPTTL -20000829AHL
47	K471Y	DEER LODGE MT	49.1	CP	BNPTTL -20000830ARM
47	NEW	HELENA MT	72.2	APP	BNPTTL -20000828AKL
47	NEW	HELENA MT	72.2	APP	BNPTTL -20000828AXH
47	NEW	HELENA MT	88.8	APP	BNPTTL -20000830BKZ
48	NEW	BUTTE MT	0.0	APP	BNPTTL -20000831EKG

Proposal causes no interference

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Analysis of Interference to Affected Station 49

Analysis of current record

Channel	Call	City/State	Application Ref. No.
47	K471Y	DEER LODGE MT	BNPTTL -20000830ARM

DLPTV Results - K43DU
Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	KECI -DT	MISSOULA MT	116.3	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	116.3	CP MOD	BMPCDT	-20060705AAG
43	K43DU	BUTTE MT	50.0	DTV	MRD	-2391MRD
47	NEW	BUTTE MT	50.0	APP	BNPTTL	-20000829AHL
47	NEW	BUTTE MT	48.6	APP	BNPTTL	-20000807ADC
47	NEW	BUTTE MT	50.1	APP	BNPTT	-20000830BDR
47	NEW	BUTTE MT	49.1	APP	BNPTTL	-20000830BTO
47	NEW	BUTTE MT	49.1	APP	BNPTTL	-20000831EKI
47	NEW	HELENA MT	45.2	APP	BNPTTL	-20000828AKL
47	NEW	HELENA MT	45.2	APP	BNPTTL	-20000828AXH
47	NEW	HELENA MT	68.1	APP	BNPTTL	-20000830BKZ

Proposal causes no interference

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Analysis of Interference to Affected Station 50

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	NEW	GREAT FALLS MT	BNPTTL	-20000831EKH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	8.3	PLN	DTVPLN	-DTVP1038del
43	K43DU	BUTTE MT	183.0	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	8.3	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	15.9	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	16.0	PLN	DTVPLN	-DTVP1240
47	NEW	BUTTE MT	183.1	APP	BNPTTL	-20000829AHL
47	K47DP	LEWISTOWN MT	138.2	LIC	BLTT	-19900925IG

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 51

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	NEW	HELENA MT	BNPTTL	-20000828AKL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	129.8	PLN	DTVPLN	-DTVP1038del
40	KECI -DT	MISSOULA MT	138.8	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	138.8	CP MOD	BMPCDT	-20060705AAG
43	K43DU	BUTTE MT	66.0	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	129.8	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	133.1	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	133.2	PLN	DTVPLN	-DTVP1240
46	NEW	HELENA MT	0.2	APP	BNPTTL	-20000804ADK
47	NEW	BUTTE MT	66.1	APP	BNPTTL	-20000829AHL
47	NEW	BUTTE MT	71.9	APP	BNPTTL	-20000807ADC
47	NEW	BUTTE MT	66.2	APP	BNPTT	-20000830BDR
47	NEW	BUTTE MT	72.2	APP	BNPTTL	-20000830BTO
47	NEW	BUTTE MT	72.2	APP	BNPTTL	-20000831EKI
47	K47IY	DEER LODGE MT	45.2	CP	BNPTTL	-20000830ARM
47	NEW	HELENA MT	0.0	APP	BNPTTL	-20000828AXH
47	NEW	HELENA MT	23.1	APP	BNPTTL	-20000830BKZ
47	NEW	HELENA MT	19.6	APP	BNPTTL	-20000807AEU

DLPTV Results - K43DU

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 52

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	NEW	HELENA MT	BNPTTL	-20000828AXH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	129.8	PLN	DTVPLN	-DTVP1038del
40	KECI -DT	MISSOULA MT	138.8	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	138.8	CP MOD	BMPCDT	-20060705AAG
43	K43DU	BUTTE MT	66.0	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	129.8	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	133.1	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	133.2	PLN	DTVPLN	-DTVP1240
46	NEW	HELENA MT	0.2	APP	BNPTTL	-20000804ADK
47	NEW	BUTTE MT	66.1	APP	BNPTTL	-20000829AHL
47	NEW	BUTTE MT	71.9	APP	BNPTTL	-20000807ADC
47	NEW	BUTTE MT	66.2	APP	BNPTT	-20000830BDR
47	NEW	BUTTE MT	72.2	APP	BNPTTL	-20000830BTO
47	NEW	BUTTE MT	72.2	APP	BNPTTL	-20000831EKI
47	K47IY	DEER LODGE MT	45.2	CP	BNPTTL	-20000830ARM
47	NEW	HELENA MT	0.0	APP	BNPTTL	-20000828AKL

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 53

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	NEW	HELENA MT	BNPTTL	-20000830BKZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	110.7	PLN	DTVPLN	-DTVP1038del
43	K43DU	BUTTE MT	80.9	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	110.7	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	115.0	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	115.1	PLN	DTVPLN	-DTVP1240
46	NEW	HELENA MT	23.1	APP	BNPTTL	-20000804ADK
47	NEW	BUTTE MT	80.9	APP	BNPTTL	-20000829AHL
47	NEW	BUTTE MT	88.6	APP	BNPTTL	-20000807ADC
47	NEW	BUTTE MT	81.0	APP	BNPTT	-20000830BDR
47	K47IY	DEER LODGE MT	68.1	CP	BNPTTL	-20000830ARM
47	NEW	HELENA MT	23.1	APP	BNPTTL	-20000828AKL
47	NEW	KALISPELL MT	231.0	APP	BNPTTL	-20000829AIX
47	NEW	MISSOULA MT	154.6	APP	BNPTTL	-20000828AXR

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 54

DLPTV Results - K43DU

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	NEW	HELENA MT	BNPTTL	-20000807AEU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	119.2	PLN	DTVPLN	-DTVP1038del
43	K43DU	BUTTE MT	72.1	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	119.2	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	123.7	CP MOD	BMPCDT	-20041119ADX
45	KTGF-DT	GREAT FALLS MT	123.8	PLN	DTVPLN	-DTVP1240
46	NEW	HELENA MT	19.8	APP	BNPTTL	-20000804ADK
47	NEW	BUTTE MT	72.2	APP	BNPTTL	-20000829AHL
47	NEW	BUTTE MT	80.1	APP	BNPTTL	-20000807ADC
47	NEW	BUTTE MT	72.3	APP	BNPTT	-20000830BDR
47	K47IY	DEER LODGE MT	62.9	CP	BNPTTL	-20000830ARM
47	NEW	HELENA MT	19.6	APP	BNPTTL	-20000828AKL
47	NEW	KALISPELL MT	235.7	APP	BNPTTL	-20000829AIX
47	NEW	MISSOULA MT	154.5	APP	BNPTTL	-20000828AXR

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 55

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	NEW	KALISPELL MT	BNPTTL	-20000829AIX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	KECI-DT	MISSOULA MT	113.8	PLN	DTVPLN	-DTVP1071
40	KECI-TV	MISSOULA MT	113.8	CP MOD	BMPCDT	-20060705AAG
43	K43DU	BUTTE MT	266.3	DTV	MRD	-2391MRD
46	NEW	FERNDAL, ETC. MT	25.1	APP	BDCCDTT	-20061013AED
46	NEW	KALISPELL MT	0.0	APP	BNPEDT	-20060810ABD
46	NEW	KALISPELL MT	0.0	APP	BNPEDT	-20060809AJQ
46	NEW	PABLO/RONAN MT	27.6	APP	BDCCDTL	-20060926AKI
47	NEW	HELENA MT	231.0	APP	BNPTTL	-20000830BKZ
47	NEW	MISSOULA MT	132.8	APP	BNPTTL	-20000828AXR
48	K48EO	SOMERS-LAKESIDE MT	22.8	LIC	BLTT	-19950320IN

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 56

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K47DP	LEWISTOWN MT	BLTT	-19900925IG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	KFBB-DT	GREAT FALLS MT	137.3	PLN	DTVPLN	-DTVP1038del
43	K43DU	BUTTE MT	257.1	DTV	MRD	-2391MRD
44	KRTV-DT	GREAT FALLS MT	137.3	PLN	DTVPLN	-DTVP1210
45	KTGF	GREAT FALLS MT	145.0	CP MOD	BMPCDT	-20041119ADX

DLPTV Results - K43DU

45	KTGF-DT	GREAT FALLS MT	145.0	PLN	DTVPLN	-DTVP1240
47	NEW	BUTTE MT	257.2	APP	BNPTTL	-20000829AHL
47	NEW	GREAT FALLS MT	138.2	APP	BNPTTL	-20000831EKH
47	NEW	HELENA MT	196.5	APP	BNPTTL	-20000830BKZ

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 57

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	NEW	MISSOULA MT	BNPTTL	-20000828AXR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
40	KECI -DT	MISSOULA MT	19.9	PLN	DTVPLN	-DTVP1071
40	KECI -TV	MISSOULA MT	19.9	CP MOD	BMPCDT	-20060705AAG
43	K43DU	BUTTE MT	153.1	DTV	MRD	-2391MRD
46	NEW	KALISPELL MT	132.8	APP	BNPEDT	-20060810ABD
46	NEW	KALISPELL MT	132.8	APP	BNPEDT	-20060809AJQ
47	NEW	BUTTE MT	153.1	APP	BNPTTL	-20000829AHL
47	NEW	BUTTE MT	153.2	APP	BNPTTL	-20000830BDR
47	NEW	HELENA MT	154.6	APP	BNPTTL	-20000830BKZ
47	NEW	KALISPELL MT	132.8	APP	BNPTTL	-20000829AIX

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 58

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	K50II	BUTTE MT	BNPTTL	-20000807AAW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	0.2	DTV	MRD	-2391MRD
50	K50CP	MISSOULA, ETC. MT	149.3	LIC	BLTTL	-19910219JP
51	NEW	BUTTE MT	0.1	APP	BNPTTL	-20000829AHK

Proposal causes no interference

#####

Analysis of Interference to Affected Station 59

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	KBGF-LP	GREAT FALLS MT	BLTTL	-20051114AJN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	K43DU	BUTTE MT	192.4	DTV	MRD	-2391MRD
51	NEW	GREAT FALLS MT	0.0	APP	BNPTTL	-20000829AHF

Proposed station is beyond the site to nearest cell evaluation distance

DLPTV Results - K43DU

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Analysis of Interference to Affected Station 60

Analysis of current record

Channel	Call	City/State	Application Ref. No.
50	K50CP	MISSOULA, ETC. MT	BLTTL -19910219JP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	149.2	DTV	MRD -2391MRD
46	NEW	KALI SPELL MT	137.7	APP	BNPEDT -20060810ABD
46	NEW	KALI SPELL MT	137.7	APP	BNPEDT -20060809AJQ
50	K50I I	BUTTE MT	149.3	CP	BNPTTL -20000807AAW
51	NEW	MISSOULA MT	24.6	APP	BNPTTL -20000829AJL

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 61

Analysis of current record

Channel	Call	City/State	Application Ref. No.
51	NEW	BUTTE MT	BNPTTL -20000829AHK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	0.2	DTV	MRD -2391MRD
50	K50I I	BUTTE MT	0.1	CP	BNPTTL -20000807AAW
51	K51DW	DILLON MT	87.1	LIC	BLTT -19930222JK
51	NEW	MISSOULA MT	164.6	APP	BNPTTL -20000829AJL
52	K52CE	WHITEHALL MT	30.9	LIC	BLTTL -19900530IP

Proposal causes no interference

#####

Analysis of Interference to Affected Station 62

Analysis of current record

Channel	Call	City/State	Application Ref. No.
51	K51DW	DILLON MT	BLTT -19930222JK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	87.3	DTV	MRD -2391MRD
51	NEW	BUTTE MT	87.1	APP	BNPTTL -20000829AHK
51	NEW	MISSOULA MT	223.2	APP	BNPTTL -20000829AJL

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 63

Analysis of current record

DLPTV Results - K43DU

Channel 51 Call NEW City/State GREAT FALLS MT Application Ref. No. BNPTTL -20000829AHF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	192.4	DTV	MRD -2391MRD
44	KRTV-DT	GREAT FALLS MT	1.7	PLN	DTVPLN -DTVP1210
50	KBGF-LP	GREAT FALLS MT	0.0	LIC	BLTTL -20051114AJN
51	K51HC	STANFORD MT	85.4	CP	BNPTT -20000809ABL

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 64

Analysis of current record

Channel 51 Call NEW City/State MISSOULA MT Application Ref. No. BNPTTL -20000829AJL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	164.4	DTV	MRD -2391MRD
50	K50CP	MISSOULA, ETC. MT	24.6	LIC	BLTTL -19910219JP
51	NEW	BUTTE MT	164.6	APP	BNPTTL -20000829AHK
51	NEW	MEDICAL LAKE WA	255.7	APP	BNPCDT -20060424ADL

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 65

Analysis of current record

Channel 51 Call K51HC City/State STANFORD MT Application Ref. No. BNPTT -20000809ABL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	211.0	DTV	MRD -2391MRD
44	KRTV-DT	GREAT FALLS MT	86.7	PLN	DTVPLN -DTVP1210
51	NEW	BUTTE MT	211.0	APP	BNPTTL -20000829AHK
51	NEW	GREAT FALLS MT	85.4	APP	BNPTTL -20000829AHF

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 66

Analysis of current record

Channel 43 Call K43DU City/State BUTTE MT Application Ref. No. MRD -2391MRD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	K43DU	BUTTE MT	0.0	LIC	BLTT -20060525ABM

43 NEW MISSOULA MT DLPTV Results - K43DU 164.4 APP BNPTTL -20000829AJJ

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 66
Before Analysis

Results for: 43A MT BUTTE MRD 2391MRD DTV
HAAT 557.0 m, ATV ERP 4.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	47184	5460.4
not affected by terrain losses	45558	3853.5
lost to NTSC IX	44608	2447.8
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	44608	2447.8

Potential Interfering Stations Included in above Scenario 1

43N MT BUTTE BLTT 20060525ABM LIC

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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
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- 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
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- 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:

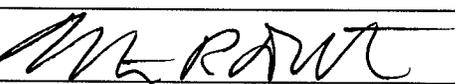
- The applicant is applying for a digital companion channel for which no suitable channel from channel 2-51 is available.
- Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV 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	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001),
AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)),
AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).