

ENGINEERING STATEMENT  
AMENDMENT TO PENDING APPLICATION  
FOR A DTV CONSTRUCTION PERMIT  
(FCC FILE NO. BDFCDTT-20060403AOL)  
FOR AN EXISTING TELEVISION TRANSLATOR  
K19FF, MILES CITY, MONTANA  
CHANNEL 19 83 WATTS MAX ERP 826 METERS RC/AMSL

APRIL 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 )

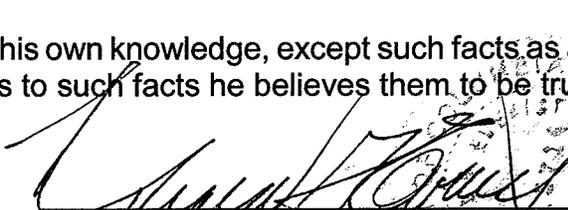
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

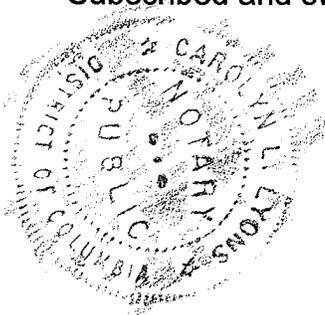
That his qualifications are a matter of record in the Federal Communications Commission;

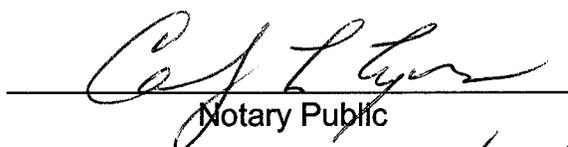
That the attached engineering report was prepared by him or under his supervision and direction and

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 13<sup>th</sup> day of April, 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:

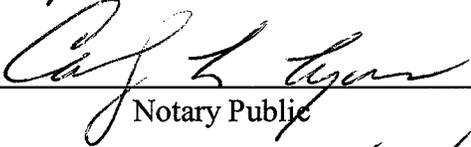
He is a graduate electrical engineer of the Pennsylvania State University, and is a staff engineer at Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1300 L Street, N.W., Suite 1100, Washington, D.C. 20005;

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

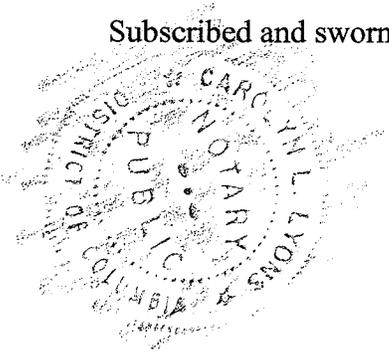
That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

  
\_\_\_\_\_  
Martin R. Doczkat

Subscribed and sworn to before me this 13<sup>th</sup> day of April, 2006.

  
\_\_\_\_\_  
Notary Public

My Commission Expires: 2/29/2008



## INTRODUCTION

This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc., licensee of TV translator, K19FF, Miles City, Montana. This statement supports the licensee's request to convert to DTV operation on the currently licensed analog Channel 19, commonly referred to as "flash-cut" with a DTV effective radiated power ("ERP") of 83 watts at a radiation center above mean sea level ("RCAMSL") of 826 meters. The sole purpose of this amendment to the pending application (FCC File No. BDFCDTT-20060403AOL) is to update certain technical information. No other changes are proposed.

## TRANSMITTER SITE

The existing antenna will be utilized and no significant alteration of the tower is proposed. The existing tower is located at Yellowstone Hill approximately one mile north of Miles City, Montana. There is no change in transmitter site. The geographic coordinates of the site follow below.

North Latitude: 46° 26' 08"

West Longitude: 105° 50' 53"

NAD-27

## ELEVATION DATA

Elevation of site above mean sea level	798.6 meters (2620 feet)
Center of radiation of antenna above ground level	27.4 meters (90 feet)
Center of radiation of antenna above mean sea level	826 meters (2710 feet)

Overall height of the tower above ground	30.5 meters (100 feet)
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The Antenna Structure Registration Number (“ASRN”) for the existing tower is 1213896.

#### EQUIPMENT DATA

Transmitter:	Type-approved
Transmission Line:	Dielectric Flexline, 1-5/8" Air Dielectric, 30.5 meters (100 feet) with 88.1% efficiency [0.55 dB loss/100 ft]
Antenna:	Andrew, ALP8L1-HSE (or equivalent) with maximum gain of 16.83 and 0.25° electrical beam tilt

#### POWER DATA

Transmitter:	5.60 W	7.48 dBW
Transmission Line Loss:	88.1%	0.55 dB
Input Into Antenna:	4.93 W	6.93 dBW
Antenna Gain:	16.83	12.26 dB
ERP:	83 W	19.19 dBW

As indicated above, the transmitter with typical power output of 5.60 watts will deliver 4.93 watts to the input of the antenna. The antenna, having a maximum gain of 16.83 and an electrical beam tilt of 0.25°, will produce a maximum ERP of 83 watts. A map providing the protected contour of the proposed facility compared to the currently licensed operation of K19FF has been included as Exhibit E-1 of this report. The antenna elevation pattern and associated

tabulation and the horizontal pattern and accompanying tabulation are on file at the Commission as this antenna make and model has been designated as "Off-the-Shelf", and the currently licensed antenna for K19FF 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 K19FF tower using the March 22, 2006 data contained within the Commission's Consolidated Database System ("CDBS"). Within 500 meters of the proposed site, no authorized FM radio stations were identified, no authorized DTV and NTSC television stations, and 3 other low-power analog television or television translator stations aside from K19FF were also found within 500 meters. There are no AM facilities within 3.2 km of the existing tower. Although no adverse technical affects are expected due to the proposed changes, the licensee will take measures to resolve any problems proven to be related to the changes proposed in this application.

#### Interference Analysis

A study of predicted interference caused by the proposed K19FF digital translator 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](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 K19FF digital translator facilities and all relevant stations listed in the FCC database as of March 15, 2006. The study results and the included stations are listed in Exhibit E-2.

#### Other Licensed and Broadcast Facilities

No adverse technical effect is anticipated by the proposed DTV operation to any other FCC licensed facility. If required, the licensee will install filters or take other measures as necessary to resolve the problem.

#### FCC Rule, Section 1.1307

The proposed 83 watt directional operation will utilize an Andrew, Type ALP8L1-HSE antenna (or equivalent) described above with a center of radiation above ground of 27.4 meters. The proposed antenna is side-mounted on a tower with an overall height of 30.5 meters above ground.

As previously indicated, there are no AM stations located within 3.2 km of the proposed tower site. According to the FCC database, there are also no FM stations, no full-service television stations, and 3 other low-power analog television or television translator stations aside from K19FF located within 500 meters of the proposed tower. Access to the tower property is prevented by a security fence with a locked gate.

The proposed operation of K19FF is less than 100 watts maximum ERP; therefore, based upon the current OET Bulletin No. 65, Edition 97-01 dated August 1997 and Supplement A, this

proposal is exempt from demonstrating compliance with the FCC radiofrequency field ("RFF") guidelines under Part 74, Subpart G, and the RFF element of Section 1.1307 of the FCC Rules.

Authorized personnel and rigging contractors will be alerted to the potential zone of high field levels 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 applicant 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.

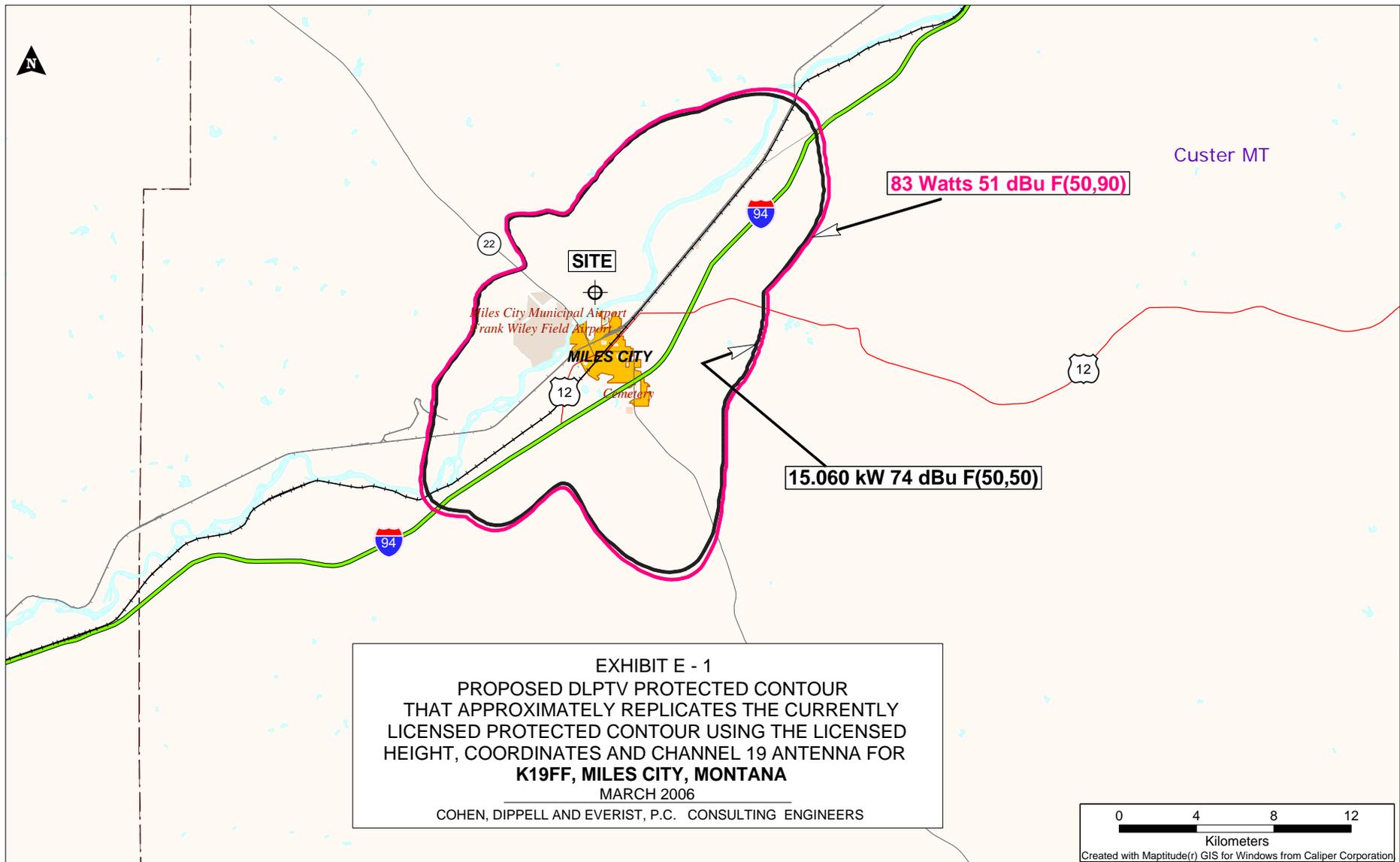


EXHIBIT E-2  
DLPTV ANALYSIS RESULTS  
FOR THE PROPOSED DIGITAL “FLASH-CUT”  
OPERATION OF  
K19FF, MILES CITY, MONTANA

1990 Census data selected  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-25-2006 Time: 12:33:23

Record Selected for Analysis

K19FF BLTT -20060314TOM MILES CITY MT US  
 Channel 19 ERP 0.0827 kW HAAT 49 m RCAMSL 826 m  
 Latitude 46 -26-9 Longitude 105 -50-54  
 Status LIC Zone Border C Offset -  
 Dir Antenna Make CDB Model 00000000039374 Beam tilt N Ref Azimuth 141  
 Last update Cutoff date 18991231 Docket  
 Comments  
 Applicant NEXSTAR BROADCASTING INC.

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	0.004	58.8	5.9
45.0	0.041	115.8	14.2
90.0	0.077	33.0	9.2
135.0	0.082	33.0	9.4
180.0	0.081	57.5	12.3
225.0	0.052	80.2	12.7
270.0	0.010	38.9	6.1
315.0	0.007	38.6	5.6

Contour Overlap to Proposed Station

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 = 285.0km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
19	K19FF	MILES CITY MT	BLTT 20060314TOM

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	K16GP	CIRCLE MT	98.8	LIC	BLTT	-20041110ABU
16	K16DH	MILES CITY MT	0.0	LIC	BLTT	-20040930APV
17	K170B	PLEVNA MT	103.0	LIC	BLTT	-19930111IK
18	KSVI	BILLINGS MT	204.3	CP	BPCDT	-19991029ACI
18	K18CR	CIRCLE, ETC. MT	99.8	LIC	BLTT	-19900806IW
18	K18BN	GLASGOW MT	205.3	LIC	BLTTL	-19880815IA

DLPTV Results - K19FF

19	K19CO	EMIGRANT MT	394.0	LIC	BLTT	-19911118JH
19	KXMA-TV	DICKINSON ND	226.3	CP MOD	BMPCDT	-20030609AGE
19	K20FT	BELLE FOURCHE SD	251.7	LIC	BLTT	-19890616IG
20	NEW	GLASGOW MT	205.3	APP	BNPTT	-20000815ADF
23	K23DJ	EKALAKA MT	116.3	LIC	BLTTL	-19930910IP
27	NEW	MILES CITY MT	15.1	APP	BNPTTL	-20000828AKR

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	K16GP	CIRCLE MT	BLTT	-20041110ABU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KXGN-DT	GLENDIVE MT	58.8	PLN	DTVPLN	-DTVP0168
16	K16DH	MILES CITY MT	98.8	LIC	BLTT	-20040930APV
16	KBYM-DT	BISMARCK ND	356.1	PLN	DTVPLN	-DTVP0220
16	KCLO-DT	RAPID CITY SD	392.3	PLN	DTVPLN	-DTVP0230
16	KCLO-TV	RAPID CITY SD	392.3	CP MOD	BMPCDT	-20041104AQS
19	K19FF	MILES CITY MT	98.8	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	98.8	LIC	BLTT	-20030121ACC

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	K16DH	MILES CITY MT	BLTT	-20040930APV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KXGN-DT	GLENDIVE MT	112.5	PLN	DTVPLN	-DTVP0168
16	K16GP	CIRCLE MT	98.8	LIC	BLTT	-20041110ABU
16	KBYM-DT	BISMARCK ND	386.0	PLN	DTVPLN	-DTVP0220
16	KCLO-DT	RAPID CITY SD	332.3	PLN	DTVPLN	-DTVP0230
16	KCLO-TV	RAPID CITY SD	332.3	CP MOD	BMPCDT	-20041104AQS
16	KFNE	RIVERTON WY	379.2	CP	BPCDT	-20000110AAF
16	KFNE-DT	RIVERTON WY	379.2	PLN	DTVPLN	-DTVP0238
19	K19FF	MILES CITY MT	0.0	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	0.0	LIC	BLTT	-20030121ACC

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
17	K170B	PLEVNA MT	BLTT	-19930111IK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KXGN-DT	GLENDIVE MT	81.0	PLN	DTVPLN	-DTVP0168
17	KTVQ-DT	BILLINGS MT	310.8	PLN	DTVPLN	-DTVP0257
17	KBYM	BISMARCK ND	285.2	LIC	BLCT	-19850412KH
19	K19FF	MILES CITY MT	103.0	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	103.0	LIC	BLTT	-20030121ACC
19	KXMA-DT	DICKINSON ND	129.5	PLN	DTVPLN	-DTVP0345
19	KXMA-TV	DICKINSON ND	129.6	CP MOD	BMPCDT	-20030609AGE
20	KDSE	DICKINSON ND	129.6	LIC	BLEDT	-20041109AAC
20	KDSE-DT	DICKINSON ND	129.6	PLN	DTVPLN	-DTVP0387

DLPTV Results - K19FF

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
18	KSVI-DT	BILLINGS MT	DTVPLN	-DTVP0298

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	KTVQ-DT	BILLINGS MT	10.1	PLN	DTVPLN	-DTVP0257
18	KWYB	BUTTE MT	317.9	PLN	DTVPLN	-NPLN0864
18	KFNB-DT	CASPER WY	376.9	PLN	DTVPLN	-DTVP0319

Results for: 18A MT BILLINGS DTVPLN DTVP0298 PLN  
 HAAT 249.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	138630	30648.5
not affected by terrain losses	135881	27616.1
lost to NTSC IX	173	155.8
lost to additional IX by ATV	2276	72.9
lost to ATV IX only	2276	73.9
lost to all IX	2449	228.7

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
6	KSVI	BILLINGS MT	DTVPLN	-NPLN0823

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
6	KTVM	BUTTE MT	317.9	PLN	DTVPLN	-NPLN0824
6	NEW	CASPER WY	375.5	PLN	DTVPLN	-NPLN1711

Results for: 6N MT BILLINGS DTVPLN NPLN0823 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	138630	30648.5
not affected by terrain losses	136188	27471.3
lost to NTSC IX	720	1198.2
lost to additional IX by ATV	0	0.0
lost to all IX	720	1198.2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	KSVI	BILLINGS MT	BPCDT	-19991029ACI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	KTVQ-DT	BILLINGS MT	10.1	PLN	DTVPLN	-DTVP0257
18	KWYB	BUTTE MT	317.9	LIC	BLCT	-19961010KF
18	KFNB	CASPER WY	376.9	CP	BPCDT	-20000110AAG
18	KFNB-DT	CASPER WY	376.9	PLN	DTVPLN	-DTVP0319
19	K19FF	MILES CITY MT	204.3	LIC	BLTT	-20060314TOM

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
18	K18CR	CIRCLE, ETC. MT	BLTT	-19900806IW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KXGN-DT	GLEN DIVE MT	61.2	PLN	DTVPLN	-DTVP0168

DLPTV Results - K19FF

18	KSVI	BILLINGS MT	277.3	CP	BPCDT	-19991029ACI
18	KSVI-DT	BILLINGS MT	277.3	PLN	DTVPLN	-DTVP0298
18	KQCD-DT	DICKINSON ND	187.4	PLN	DTVPLN	-DTVP0299
18	KQCD-TV	DICKINSON ND	187.2	CP	BPCDT	-19991015ABD
19	K19FF	MILES CITY MT	99.8	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	99.8	LIC	BLTT	-20030121ACC

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.
18	K18BN	GLASGOW MT	BLTTL	-19880815IA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KSVI	BILLINGS MT	296.2	CP	BPCDT	-19991029ACI
18	KSVI-DT	BILLINGS MT	296.2	PLN	DTVPLN	-DTVP0298
18	K18CR	CIRCLE, ETC. MT	137.0	LIC	BLTT	-19900806IW
18	KQCD-DT	DICKINSON ND	307.0	PLN	DTVPLN	-DTVP0299
18	KQCD-TV	DICKINSON ND	306.8	CP	BPCDT	-19991015ABD
19	K19FF	MILES CITY MT	205.3	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	205.3	LIC	BLTT	-20030121ACC

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	Call	City/State	Application	Ref. No.
19	K19CO	EMIGRANT MT	BLTT	-19911118JH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	KCTZ-DT	BOZEMAN MT	40.0	PLN	DTVPLN	-DTVP0219del
19	K19FF	MILES CITY MT	394.0	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	394.0	LIC	BLTT	-20030121ACC
20	KUSM-DT	BOZEMAN MT	46.5	PLN	DTVPLN	-DTVP0385del

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 8

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
19	KXMA-DT	DICKINSON ND	DTVPLN	-DTVP0345

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KQCD-DT	DICKINSON ND	25.3	PLN	DTVPLN	-DTVP0299
19	KJRE	ELLENDALE ND	313.4	PLN	DTVPLN	-NPLN0966
19	KPRY-DT	PIERRE SD	370.3	PLN	DTVPLN	-DTVP0352
20	KDSE-DT	DICKINSON ND	0.1	PLN	DTVPLN	-DTVP0387

Results for: 19A ND DICKINSON DTVPLN DTVP0345 PLN  
 HAAT 256.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	46883	30915.1
not affected by terrain losses	46502	29902.3
lost to NTSC IX	8	59.9
lost to additional IX by ATV	295	435.2

DLPTV Results - K19FF

lost to ATV IX only 298 457.8  
 lost to all IX 303 495.1

NTSC Baseline Analysis

Channel Call City/State Application Ref. No.  
 2 KXMATV DICKINSON ND DTVPLN -NPLN0903

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
3	KYUSTV	MILES CITY MT	226.9	PLN	DTVPLN	-NPLN0810
3	KBME	BISMARCK ND	162.0	PLN	DTVPLN	-NPLN0908

Results for: 2N ND DICKINSON DTVPLN NPLN0903 PLN  
 POPULATION AREA (sq km)  
 within Noise Limited Contour 46883 30915.1  
 not affected by terrain losses 45607 29395.4  
 lost to NTSC IX 903 228.9  
 lost to additional IX by ATV 0 0.0  
 lost to all IX 903 228.9

Analysis of current record

Channel Call City/State Application Ref. No.  
 19 KXMA-TV DICKINSON ND BPCDT -20030609AGE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	KQCD-DT	DICKINSON ND	25.1	PLN	DTVPLN	-DTVP0299
18	KQCD-TV	DICKINSON ND	25.3	CP	BPCDT	-19991015ABD
19	K19FF	MILES CITY MT	226.3	LIC	BLTT	-20060314TOM
19	KJRE	ELLENDALE ND	313.4	LIC	BLET	-19920515KE
19	KPRY-DT	PIERRE SD	370.4	PLN	DTVPLN	-DTVP0352
19	KPRY-TV	PIERRE SD	370.4	LIC	BLCDT	-20021118ABY
20	KDSE	DICKINSON ND	0.0	LIC	BLEDT	-20041109AAC
20	KDSE-DT	DICKINSON ND	0.0	PLN	DTVPLN	-DTVP0387

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel Call City/State Application Ref. No.  
 19 K2OFT BELLE FOURCHE SD BLTT -19890616IG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	KCLO-DT	RAPID CITY SD	80.6	PLN	DTVPLN	-DTVP0230
16	KCLO-TV	RAPID CITY SD	80.6	CP MOD	BPCDT	-20041104AQS
18	KEVN-DT	RAPID CITY SD	80.9	PLN	DTVPLN	-DTVP0309
18	KEVN-TV	RAPID CITY SD	80.9	CP	BPCDT	-19991019ABB
19	K19FF	MILES CITY MT	251.7	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	251.7	LIC	BLTT	-20030121ACC
19	KXMA-DT	DICKINSON ND	241.0	PLN	DTVPLN	-DTVP0345
19	KXMA-TV	DICKINSON ND	241.1	CP MOD	BPCDT	-20030609AGE
19	KPRY-DT	PIERRE SD	306.5	PLN	DTVPLN	-DTVP0352
19	KPRY-TV	PIERRE SD	306.5	LIC	BLCDT	-20021118ABY
22	KOTA-DT	RAPID CITY SD	80.7	PLN	DTVPLN	-DTVP0476del

Proposal causes no interference

#####

Analysis of Interference to Affected Station 10

Analysis of current record

Channel Call City/State Application Ref. No.  
 20 NEW GLASGOW MT BNPTT -20000815ADF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	K19FF	MILES CITY MT	205.3	LIC	BLTT	-20060314TOM

DLPTV Results - K19FF						
19	K19FF	MILES CITY MT	205.3	LIC	BLTT	-20030121ACC
20	K20BP	PHILLIPS COUNTY MT	145.2	LIC	BLTT	-19890313IR
20	KDSE	DICKINSON ND	323.9	LIC	BLEDT	-20041109AAC
20	KDSE-DT	DICKINSON ND	323.9	PLN	DTVPLN	-DTVP0387

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	K23DJ	EKALAKA MT	BLTTL	-19930910IP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KXGN-DT	GLENDIVE MT	128.5	PLN	DTVPLN	-DTVP0168
19	K19FF	MILES CITY MT	116.3	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	116.3	LIC	BLTT	-20030121ACC
23	KXMB-DT	BISMARCK ND	297.6	PLN	DTVPLN	-DTVP0501

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.
27	NEW	MILES CITY MT	BNPTTL	-20000828AKR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	K19FF	MILES CITY MT	15.1	LIC	BLTT	-20060314TOM
19	K19FF	MILES CITY MT	15.1	LIC	BLTT	-20030121ACC

Proposal causes no interference

#####

Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	K19FF	MILES CITY MT	BLTT	-20060314TOM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KXMA-DT	DICKINSON ND	226.3	PLN	DTVPLN	-DTVP0345
19	KXMA-TV	DICKINSON ND	226.3	CP MOD	BMPCDT	-20030609AGE

Total scenarios = 1

Result key: 1  
 Scenario 1 Affected station 13  
 Before Analysis

Results for: 19A MT MILES CITY BLTT 20060314TOM LIC  
 HAAT 49.0 m, ATV ERP 0.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	10433	383.4
not affected by terrain losses	10433	382.5
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

#####

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 April 13, 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).