

ENGINEERING STATEMENT
RE AMENDMENT TO PENDING APPLICATION
FOR DTV CONSTRUCTION PERMIT
(FCC FILE NO. BDFCDTT-20060403AOK)
FOR AN EXISTING TELEVISION TRANSLATOR
K16DH, MILES CITY, MONTANA
CHANNEL 16 85 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)

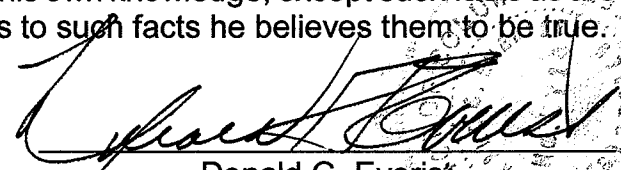
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

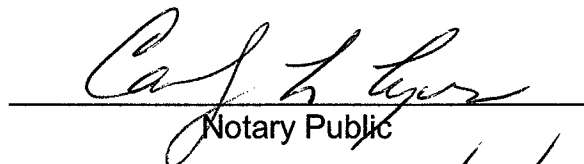
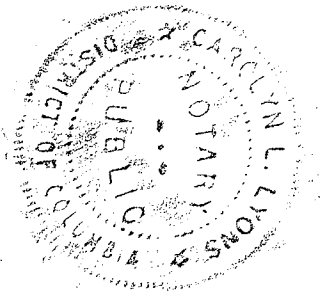
That the attached engineering report was prepared by him or under his supervision and direction and

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 13th 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;

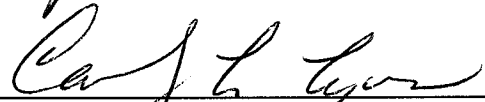
That the attached engineering report was prepared by him or under his supervision and direction and

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.



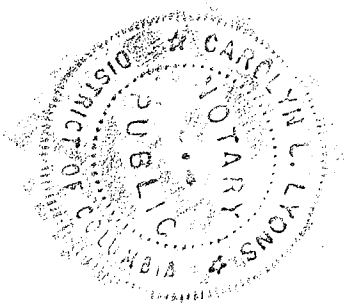
Martin R. Doczkat

Subscribed and sworn to before me this 13th day of April, 2006.



Notary Public

My Commission Expires: 2/28/2008



INTRODUCTION

This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc., licensee of TV translator, K16DH, Miles City, Montana. This statement supports the licensee's amendment to its pending application (FCC File No. BDFCDTT-20060403AOK) to request to convert to DTV operation on the currently licensed analog Channel 16, commonly referred to as "flash-cut" with a DTV effective radiated power ("ERP") of 85 watts at a radiation center above mean sea level ("RCAMSL") of 826 meters.

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 tower above ground	30.5 meters (100 feet)

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 88.3% efficiency [0.54 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:	5.72 W	7.57 dBW
Transmission Line Loss:	88.3%	0.54 dB
Input Into Antenna:	5.05 W	7.03 dBW
Antenna Gain:	16.83	12.26 dB
ERP:	85 W	19.29 dBW

As indicated above, the transmitter with typical power output of 5.72 watts will deliver 5.05 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 maximum ERP of 85 watts. A map providing the protected contour of the proposed facility compared to the currently licensed operation of K16DH 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 K16DH 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 K16DH 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 K16DH 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 K16DH 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. 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 K16DH 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 85 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 steel lattice 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, no full-service television, and 3 other low-power analog television or television translator stations aside from K16DH 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 K16DH 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.

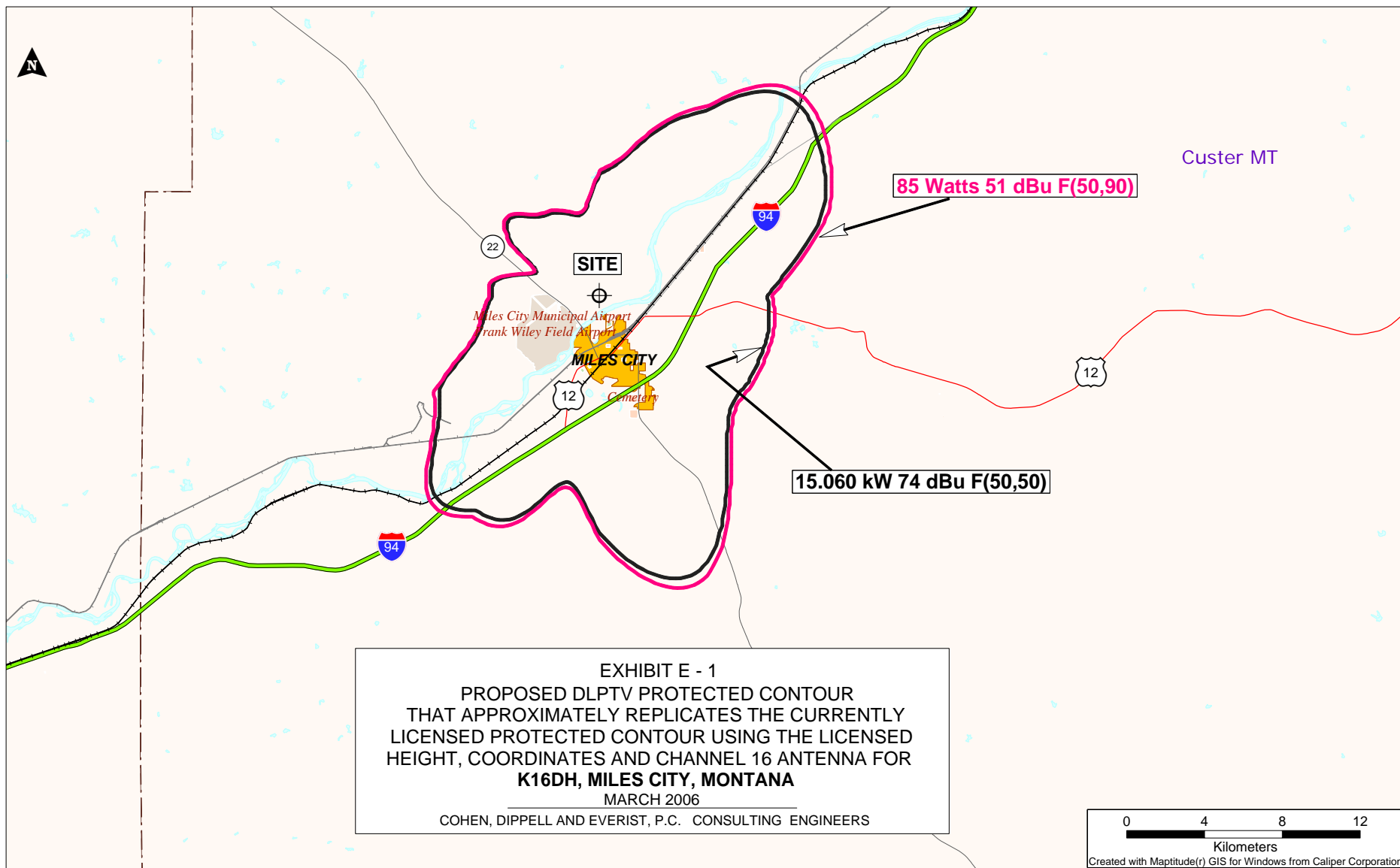


EXHIBIT E-2

DLPTV ANALYSIS RESULTS

FOR THE PROPOSED DIGITAL “FLASH-CUT”

OPERATION OF

K16DH, MILES CITY, MONTANA

DLPTV Results - K16DH

1990 Census data selected
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-22-2006 Time: 14:46:15

Record Selected for Analysis

K16DH BLTT -20060314TOM MILES CITY MT US
Channel 16 ERP 0.0846 kW HAAT 49 m RCAMSL 826 m
Latitude 46 -26-8 Longitude 105 -50-53
Status LIC Zone Border C Offset N
Dir Antenna Make CDB Model 00000000066288 Beam tilt N Ref Azimuth 0
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	0.005	58.9	6.4
45.0	0.043	116.2	14.4
90.0	0.076	33.0	9.2
135.0	0.085	33.0	9.4
180.0	0.085	57.5	12.4
225.0	0.050	81.6	12.7
270.0	0.008	38.6	5.7
315.0	0.008	38.8	5.8

Contour Overlap to Proposed Station

Station
K16DH 16 MILES CITY MT BLTT20040930APV

Station inside contour of Digital LPTV station
K16DH 16 MILES CITY MT BLTT 20060314TOM

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

Start of Interference Analysis

Channel	Call	Proposed Station City/State	ARN	
16	K16DH	MILES CITY MT	BLTT	20060314TOM

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
Page 1					

DLPTV Results - K16DH						
14	K14AG	CIRCLE, ETC. MT	98.1	LIC	BLTTL	-19830420IH
16	K16GP	CIRCLE MT	98.8	LIC	BLTT	-20041110ABU
16	K16AZ	GLASGOW MT	205.4	LIC	BLTTL	-19880401NV
16	K16DZ	HARDIN MT	151.1	LIC	BLTT	-19950515IC
16	KBMV	BISMARCK ND	386.0	CP MOD	BMPCDT	-20041029AIK
16	KCLO-TV	RAPID CITY SD	332.3	CP MOD	BMPCDT	-20041104AQS
16	K16AE	GILLETTE WY	249.2	LIC	BLTTL	-19820820IK
16	KFNE	RIVERTON WY	379.2	CP	BPCDT	-20000110AAF
17	K170B	PLEVNA MT	103.0	LIC	BLTT	-19930111IK
18	K18CR	CIRCLE, ETC. MT	99.8	LIC	BLTT	-19900806IW
19			0.0	CP		-491765
19	K19FF	MILES CITY MT	0.0	LIC	BLTT	-20030121ACC
23	K23DJ	EKALAKA MT	116.2	LIC	BLTTL	-19930910IP
24	K24DD	PLEVNA MT	102.0	LIC	BLTTL	-19930111IL

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
14	K14AG	CIRCLE, ETC. MT	BLTTL -19830420IH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
14	960919KI	BILLINGS MT	286.2	APP	BPCT -19960919KI
14	970331KF	BILLINGS MT	286.3	APP	BPCT -19970331KF
14	970331KJ	BILLINGS MT	276.2	APP	BPCT -19970331KJ
14	970331KU	BILLINGS MT	286.1	APP	BPCT -19970331KU
14	970331LO	BILLINGS MT	286.3	APP	BPCT -19970331LO
14	970331LV	BILLINGS MT	276.2	APP	BPCT -19970331LV
14	970331LZ	BILLINGS MT	286.1	APP	BPCT -19970331LZ
14	KMCY	MINOT ND	314.1	LIC	BLCT -19850625KF
14	KXMD-DT	WILLISTON ND	149.8	PLN	DTVPLN -DTVP0133
14	KXMD-TV	WILLISTON ND	149.8	CP MOD	BMPCDT -20030609AGD
15	KXGN-DT	GLEN DIVE MT	60.4	PLN	DTVPLN -DTVP0168
16	K16DH	MILES CITY MT	98.1	LIC	BLTT -20060314TOM
16	K16DH	MILES CITY MT	98.1	LIC	BLTT -20040930APV

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	K16GP	CIRCLE MT	BLTT -20041110ABU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KXGN-DT	GLEN DIVE MT	58.8	PLN	DTVPLN -DTVP0168
16	K16DH	MILES CITY MT	98.8	LIC	BLTT -20060314TOM
16	K16DH	MILES CITY MT	98.8	LIC	BLTT -20040930APV
16	KBMV	BISMARCK ND	356.1	CP MOD	BMPCDT -20041029AIK
16	KBMV-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

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.
16	K16AZ	GLASGOW MT	BLTTL -19880401NV

Stations Potentially Affecting This Station

DLPTV Results - K16DH

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	KTGF	GREAT FALLS MT	358.2	CP	BPCT	-20041119ADZ
16	K16DH	MILES CITY MT	205.4	LIC	BLTT	-20060314TOM
16	K16DH	MILES CITY MT	205.4	LIC	BLTT	-20040930APV

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	K16DZ	HARDIN MT	BLTT	-19950515IC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	KCTZ-DT	BOZEMAN MT	258.7	PLN	DTVPLN	-DTVP0219del
16	KTGF	GREAT FALLS MT	357.5	CP	BPCT	-20041119ADZ
16	K16DH	MILES CITY MT	151.1	LIC	BLTT	-20060314TOM
16	K16DH	MILES CITY MT	151.1	LIC	BLTT	-20040930APV
16	KCLO-DT	RAPID CITY SD	385.2	PLN	DTVPLN	-DTVP0230
16	KCLO-TV	RAPID CITY SD	385.2	CP MOD	BMPCDT	-20041104AQS
16	KFNE	RIVERTON WY	259.6	CP	BPCDT	-20000110AAF
16	KFNE-DT	RIVERTON WY	259.6	PLN	DTVPLN	-DTVP0238
17	KTVO-DT	BILLINGS MT	71.5	PLN	DTVPLN	-DTVP0257
18	KSVI	BILLINGS MT	62.8	CP	BPCDT	-19991029ACI
18	KSVI-DT	BILLINGS MT	62.8	PLN	DTVPLN	-DTVP0298

Proposal causes no interference

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Analysis of Interference to Affected Station 5

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
16	KBYM-DT	BISMARCK ND	DTVPLN	-DTVP0220

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KMCY-DT	MINOT ND	168.8	PLN	DTVPLN	-DTVP0170
16	KCLO-DT	RAPID CITY SD	338.6	PLN	DTVPLN	-DTVP0230
17	KBYM	BISMARCK ND	0.0	PLN	DTVPLN	-NPLN0961

Results for: 16A ND BISMARCK DTVPLN DTVP0220 PLN
 HAAT 290.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	0	0.0
not affected by terrain losses	0	0.0
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

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	KBYM	BISMARCK ND	BMPCDT	-20041029AIK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KMCY	MINOT ND	168.6	CP	BPCDT	-19991028AEA
15	KMCY-DT	MINOT ND	168.7	PLN	DTVPLN	-DTVP0170
16	K16DH	MILES CITY MT	386.0	LIC	BLTT	-20060314TOM
16	KCLO-DT	RAPID CITY SD	338.7	PLN	DTVPLN	-DTVP0230
16	KCLO-TV	RAPID CITY SD	338.7	CP MOD	BMPCDT	-20041104AQS
17	KBYM	BISMARCK ND	0.1	LIC	BLCT	-19850412KH

Proposal causes no interference

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DLPTV Results - K16DH
Analysis of Interference to Affected Station 6

DTV Baseline Analysis

Channel	Call	City/State	Application Ref. No.
16	KCLO-DT	RAPID CITY SD	DTVPLN -DTVP0230

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KCLOTV	RAPID CITY SD	0.0	PLN	DTVPLN -NPLN1343
16	KBYM-DT	BISMARCK ND	338.6	PLN	DTVPLN -DTVP0220
16	KPNE-DT	NORTH PLATTE NE	379.9	PLN	DTVPLN -DTVP0222
16	KFNE-DT	RIVERTON WY	403.1	PLN	DTVPLN -DTVP0238
17	KRNE-DT	MERRIMAN NE	198.7	PLN	DTVPLN -DTVP0258

Results for: 16A SD RAPID CITY DTVPLN DTVP0230 PLN

HAAT 155.0 m, ATV ERP 50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	105363	10768.3
not affected by terrain losses	103063	10559.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
15	KCLOTV	RAPID CITY SD	DTVPLN -NPLN1343

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KXGN-DT	GLENDIVE MT	349.8	PLN	DTVPLN -DTVP0168
15	KGWC-DT	CASPER WY	291.3	PLN	DTVPLN -DTVP0194
16	KCLO-DT	RAPID CITY SD	0.0	PLN	DTVPLN -DTVP0230
18	KEVN-DT	RAPID CITY SD	0.4	PLN	DTVPLN -DTVP0309
22	KOTA-DT	RAPID CITY SD	0.2	PLN	DTVPLN -DTVP0476del
29	KIVV-DT	LEAD SD	54.7	PLN	DTVPLN -DTVP0719
30	KHSD-DT	LEAD SD	54.7	PLN	DTVPLN -DTVP0754del

Results for: 15N SD RAPID CITY DTVPLN NPLN1343 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	105363	10768.3
not affected by terrain losses	99055	10157.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	268	132.1
lost to all IX	268	132.1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
16	KCLO-TV	RAPID CITY SD	BMPCDT -20041104AQS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KCLO-TV	RAPID CITY SD	0.0	LIC	BLCT -20030630ABA
16	K16DH	MILES CITY MT	332.3	LIC	BLTT -20060314TOM
16	KBYM	BISMARCK ND	338.7	CP MOD	BMPCDT -20041029AIK
16	KBYM-DT	BISMARCK ND	338.6	PLN	DTVPLN -DTVP0220
16	KPNE-DT	NORTH PLATTE NE	379.9	PLN	DTVPLN -DTVP0222
16	KPNE-TV	NORTH PLATTE NE	379.7	LIC	BLEDT -20030409AAW
16	KTUW	SCOTTSBLUFF NE	252.3	CP	BNPCT -20020320ACT
16	KFNE	RIVERTON WY	403.1	CP	BPCDT -20000110AAF
16	KFNE-DT	RIVERTON WY	403.1	PLN	DTVPLN -DTVP0238
17	KRNE-DT	MERRIMAN NE	198.6	PLN	DTVPLN -DTVP0258
17	KRNE-TV	MERRIMAN NE	198.6	LIC	BLEDT -20030409AAZ

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
16	K16AE	GILLETTE WY	BLTTL -19820820IK

DLPTV Results - K16DH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	K16DH	MILES CITY MT	249.2	LIC	BLTT	-20060314TOM
16	K16DH	MILES CITY MT	249.2	LIC	BLTT	-20040930APV
16	KTUW	SCOTTSBLUFF NE	295.2	CP	BNPCT	-20020320ACT
16	KCLO-DT	RAPID CITY SD	177.6	PLN	DTVPLN	-DTVP0230
16	KCLO-TV	RAPID CITY SD	177.6	CP MOD	BMPCDT	-20041104AQS
16	KFNE	RIVERTON WY	234.5	CP	BPCDT	-20000110AAF
16	KFNE-DT	RIVERTON WY	234.5	PLN	DTVPLN	-DTVP0238
30	KHSD-DT	LEAD SD	130.5	PLN	DTVPLN	-DTVP0754del

Proposal causes no interference

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Analysis of Interference to Affected Station 8

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
16	KFNE-DT	RIVERTON WY	DTVPLN	-DTVP0238

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KGWC-DT	CASPER WY	169.3	PLN	DTVPLN	-DTVP0194
16	KCTZ-DT	BOZEMAN MT	324.4	PLN	DTVPLN	-DTVP0219del
16	KCLO-DT	RAPID CITY SD	403.1	PLN	DTVPLN	-DTVP0230
17	KTWO-DT	CASPER WY	171.5	PLN	DTVPLN	-DTVP0276

Results for: 16A WY RIVERTON DTVPLN DTVP0238 PLN

HAAT 526.0 m, ATV ERP 274.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	48413	28463.8
not affected by terrain losses	47605	26315.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2	105.7
lost to ATV IX only	2	105.7
lost to all IX	2	105.7

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
10	KFNE	RIVERTON WY	DTVPLN	-NPLN1720

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
9	KFNR-DT	RAWLINS WY	203.2	PLN	DTVPLN	-DTVP0058
9	NEW	SHERIDAN WY	155.8	PLN	DTVPLN	-NPLN1719
11	NEW	JACKSON WY	205.9	PLN	DTVPLN	-NPLN1722
11	KFNR	RAWLINS WY	203.2	PLN	DTVPLN	-NPLN1723

Results for: 10N WY RIVERTON DTVPLN NPLN1720 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	48413	28474.8
not affected by terrain losses	47173	25127.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to all IX	0	0.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
16	KFNE	RIVERTON WY	BPCDT	-20000110AAF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KGWC-DT	CASPER WY	169.3	PLN	DTVPLN	-DTVP0194
15	KGWC-TV	CASPER WY	172.8	CP MOD	BMPCDT	-20031007ABX
16	KCTZ-DT	BOZEMAN MT	324.4	PLN	DTVPLN	-DTVP0219del
16	K16DH	MILES CITY MT	379.2	LIC	BLTT	-20060314TOM
16	KTUW	SCOTTSBLUFF NE	400.2	CP	BNPCT	-20020320ACT
16	KCLO-DT	RAPID CITY SD	403.1	PLN	DTVPLN	-DTVP0230
16	KCLO-TV	RAPID CITY SD	403.1	CP MOD	BMPCDT	-20041104AQS
17	KTWO-DT	CASPER WY	171.5	PLN	DTVPLN	-DTVP0276
17	KTWO-TV	CASPER WY	171.5	CP	BPCDT	-19991028ABB

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.
17	K170B	PLEVNA MT	BLTT	-19930111K

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
16	K16DH	MILES CITY MT	103.0	LIC	BLTT	-20060314TOM
16	K16DH	MILES CITY MT	103.0	LIC	BLTT	-20040930APV
17	KTVQ-DT	BILLINGS MT	310.8	PLN	DTVPLN	-DTVP0257
17	KBYM	BISMARCK ND	285.2	LIC	BLCT	-19850412KH
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

Proposal causes no interference

#####

Analysis of Interference to Affected Station 10

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	GLENDIVE MT	61.2	PLN	DTVPLN	-DTVP0168
16	K16DH	MILES CITY MT	99.8	LIC	BLTT	-20060314TOM
16	K16DH	MILES CITY MT	99.8	LIC	BLTT	-20040930APV
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

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.
19				-491765

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	K16DH	MILES CITY MT	0.0	LIC	BLTT	-20060314TOM
16	K16DH	MILES CITY MT	0.0	LIC	BLTT	-20040930APV
19	K19FF	MILES CITY MT	0.0	LIC	BLTT	-20030121ACC
19	KXMA-DT	DICKINSON ND	226.3	PLN	DTVPLN	-DTVP0345
19	KXMA-TV	DICKINSON ND	226.3	CP MOD	BMPCDT	-20030609AGE

Proposal causes no interference

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Analysis of Interference to Affected Station 12

Analysis of current record

DLPTV Results - K16DH
Channel Call City/State Application Ref. No.
19 K19FF MILES CITY MT BLTT -20030121ACC

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	K16DH	MILES CITY MT	0.0	LIC	BLTT -20060314TOM
16	K16DH	MILES CITY MT	0.0	LIC	BLTT -20040930APV
19			0.0	CP	-491765
19	KXMA-DT	DICKINSON ND	226.3	PLN	DTVPLN -DTVP0345
19	KXMA-TV	DICKINSON ND	226.3	CP MOD	BMPCDT -20030609AGE

Proposal causes no interference

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Analysis of Interference to Affected Station 13

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
16	K16DH	MILES CITY MT	116.2	LIC	BLTT -20060314TOM
16	K16DH	MILES CITY MT	116.2	LIC	BLTT -20040930APV
23	KXMB-DT	BISMARCK ND	297.6	PLN	DTVPLN -DTVP0501
23	KZSD-DT	MARTIN SD	362.2	PLN	DTVPLN -DTVP0510

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.
24	K24DD	PLEVNA MT	BLTTL -19930111IL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
16	K16DH	MILES CITY MT	102.0	LIC	BLTT -20060314TOM
16	K16DH	MILES CITY MT	102.0	LIC	BLTT -20040930APV
20	KDSE	DICKINSON ND	127.1	LIC	BLEDT -20041109AAC
20	KDSE-DT	DICKINSON ND	127.1	PLN	DTVPLN -DTVP0387
24	KXND	MINOT ND	295.2	LIC	BLCT -19991210AAN

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.
16	K16DH	MILES CITY MT	BLTT -20060314TOM

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	BISMARCK ND	386.0	CP MOD	BMPCDT -20041029AIK
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

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 15

Before Analysis

Results for: 16A MT MILES CITY BLTT 20060314TOM LIC

HAAT 49.0 m, ATV ERP 0.1 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	10452	398.3
not affected by terrain losses	10452	398.3
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

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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

See Explanation in Exhibit 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

See Explanation in Exhibit No.

Exhibit 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.

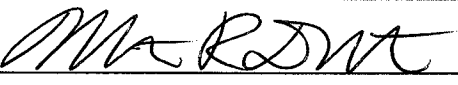
☐ Pursuant to Section 74.786(d), the applicant has notified, within 30 days of filing this application, all commercial wireless licensees of the spectrum comprising the proposed TV channel and the first adjacent channels thereto, for which the proposed digital LPTV or TV translator antenna site lies 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).