

SUPPLEMENTAL
ENGINEERING STATEMENT
AMENDMENT TO PENDING APPLICATION
FOR A DTV CONSTRUCTION PERMIT
(FCC FILE NO. BDFCDTT-20060403AKN)
TO SPECIFY A STRINGENT MASK
FOR AN EXISTING TELEVISION TRANSLATOR
W31BP, BURLINGTON, ETC., NEW YORK
CHANNEL 31 240 WATTS MAX ERP 663 METERS RC/AMSL

AUGUST 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)

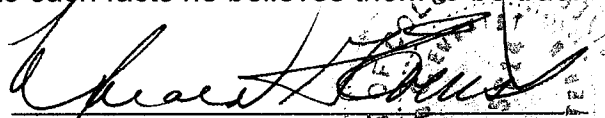
Donald G. Everist, being duly sworn upon his oath, deposes and states that:

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;

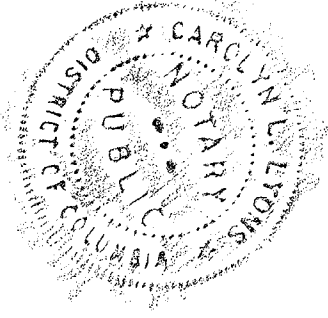
That the attached engineering report was prepared by him or under his supervision and direction and


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 22nd day of August, 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;

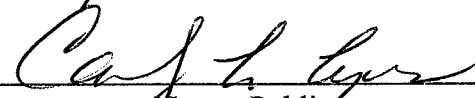
That the attached engineering report was prepared by him or under his supervision and direction and

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.



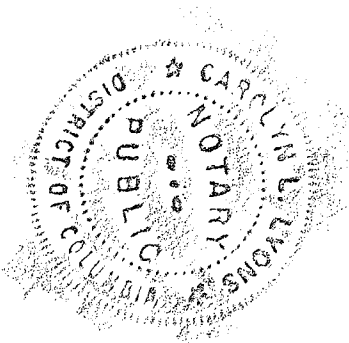
Martin R. Doczkat

Subscribed and sworn to before me this 22nd day of August, 2006.



Notary Public

My Commission Expires: 3/28/2008



Introduction

This engineering statement has been prepared on behalf of Nexstar Broadcasting, Inc., licensee of TV translator, W31BP, Burlington, etc., New York. This statement supports the licensee's request to convert to DTV operation on the currently licensed analog Channel 31, commonly referred to as "flash-cut" with a DTV effective radiated power ("ERP") of 240 watts at a radiation center above mean sea level ("RCAMSL") of 663 meters. On July 25, 2006, the FCC addressed an interference letter to Nexstar Broadcasting, Inc. claiming predicted interference to the WUTR-DT licensed facility (FCC File No. BLCDDT-20040217ADC) Channel 30, 50 kW directional ERP, 227 meters antenna height above average terrain ("HAAT") in Utica, New York. The sole purpose of this amendment (to FCC File No. BDFCDTT-20060403AKN) is to replace the initial request of the use of a single out-of-channel emission mask with the request to now utilize a stringent out-of-channel emission mask in order to reduce the amount of predicted interference to the licensed first-adjacent WUTR-DT facility. No other changes are proposed.

Transmitter Site (no change)

The existing antenna will be utilized and no significant alteration of the tower is proposed. The existing tower is located at Klock Hill approximately 1.8 kilometers southeast of Burlington, New York. There is no change in transmitter site. The geographic coordinates of the site follow below.

North Latitude: 42° 42' 53"

West Longitude: 75° 08' 40"

NAD-27

Elevation Data
(no change)

Elevation of site above mean sea level	615.8 meters (2020 feet)
Center of radiation of antenna above ground level	47.2 meters (155 feet)
Center of radiation of antenna above mean sea level	663 meters (2175 feet)
Overall height of tower above ground	54.9 meters (180 feet)

The existing structure is less than 200 feet and TOWAIR indicates registration is not required. There are no airports within 8 kilometers (5 miles) of the existing site.

Equipment Data

Transmitter:	Type-approved
Transmission Line:	Cablewave, Type HCC300-50J 61 meters (200 feet) with 85% efficiency
Antenna:	Dielectric, TLP24-M with maximum gain of 16.87 dB and 0.55° electrical beam tilt
Out-of-Channel Emission Mask:	Stringent

Power Data
(no change)

Transmitter:	5.8 W	7.635 dBW
Transmission Line Loss:	85%	0.705 dB
Input Into Antenna:	4.93 W	6.93 dBW

Antenna Gain:	48.66	16.87 dB
ERP:	240 W	23.8 dBW

As indicated above, the transmitter with typical power output of 5.8 watts will deliver 4.93 watts to the input of the antenna. The antenna, having a maximum gain of 16.87 dB and an electrical beam tilt of 0.55°, will produce maximum ERP of 240 watts. A map providing the protected contour of the proposed facility compared to the currently licensed operation of W31BP has already been included in the previous submission of this application and is incorporated by reference since no other changes are requested aside from the specifications of a stringent mask. 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 W31BP 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 W31BP 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 1 other low-power analog television and television translator stations aside from W31BP 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 W31BP 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 to predict the amount of interference caused by the proposed W31BP digital translator facilities to the currently licensed WUTR-DT facility using all relevant stations listed in the FCC database as of August 23, 2006. The study results and the included stations are listed in Exhibit E-1. The amount of predicted interference to WUTR-DT is mitigated when the stringent mask is specified.

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 240 watt directional operation will utilize a Dielectric, Type TLP24-M antenna (or equivalent) described above with a center of radiation above ground of 47.2 meters. The proposed antenna is side-mounted on a tower with an overall height of 54.9 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 one other low-power analog television or television translator stations aside from W31BP 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 240 W operation of W31BP from its licensed radiation height of 47.2 meters above ground and its licensed antenna site, using the currently licensed antenna will contribute less downward radiofrequency field ("RFF") levels than the currently licensed 37 kW ERP operation. Based on the current OET Bulletin No. 65, Edition 97-01 dated August 1997 and Supplement A, this 240 W proposal will produce less than $0.04 \mu\text{W}/\text{cm}^2$ RFF based on a downward relative field of 0.1. This RFF level is much less than 1% of the Maximum Permissible Exposure ("MPE") limit of $383.3 \mu\text{W}/\text{cm}^2$ for Channel 31. Thus, the proposed

operation complies with the FCC radiofrequency field ("RFF") guidelines 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 licensee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities located on a tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.

- (a)(6) The existing tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to equip the tower with high intensity white lights unless required by the FAA.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.

EXHIBIT E-1

DLPTV ANALYSIS RESULTS

FOR THE PROPOSED DIGITAL “FLASH-CUT”

OPERATION OF

W31BP, BURLINGTON, ETC., NEW YORK

WITH A STRINGENT MASK

TO THE LICENSED OPERATION OF

WUTR-DT, UTICA, NEW YORK

DLPTV Results - W31BP

1990 Census data selected
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-23-2006 Time: 10:04:39

Record Selected for Analysis

W31BP BDFCDTT -20060403AKN BURLINGTON, ETC. NY US
Channel 31 ERP 0.24 kW HAAT 1 m RCAMSL 663 m
Latitude 42 -42-53 Longitude 75 -8 -40
Status APP Zone Border C DT Mask T
Dir Antenna Make CDB Model 00000000019156 Beam tilt Y Ref Azimuth 120
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	0.065	215.5	22.5
45.0	0.205	181.8	26.6
90.0	0.212	173.0	26.3
135.0	0.201	165.1	25.6
180.0	0.230	174.6	26.8
225.0	0.092	162.9	21.6
270.0	0.009	232.7	13.7
315.0	0.009	206.9	13.2

Contour Overlap to Proposed Station

Station	Station	
W30AZ	30 LIBERTY	NY BLTT19911028IF
Station inside contour of Digital LPTV station		
W31BP	31 BURLINGTON, ETC.	NY BDFCDTT 20060403AKN
Station	Station	
W30BW	30 OLEAN	NY BLTT20020307ABR
Station inside contour of Digital LPTV station		
W31BP	31 BURLINGTON, ETC.	NY BDFCDTT 20060403AKN
Station	Station	
WBVT-CA	30 BURLINGTON	VT BLTTL19990809JD
Station inside contour of Digital LPTV station		
W31BP	31 BURLINGTON, ETC.	NY BDFCDTT 20060403AKN
Station	Station	
WRZB-LP	31 CROFTON	MD BPTTL20020701ABJ
Station inside contour of Digital LPTV station		
W31BP	31 BURLINGTON, ETC.	NY BDFCDTT 20060403AKN

Station

DLPTV Results - W31BP
W31BP 31 BURLINGTON, ETC. NY BLTTL19980120JE
Station inside contour of Digital LPTV station
W31BP 31 BURLINGTON, ETC. NY BDFCDTT 20060403AKN

Station
W29CF 32 HEMPSTEAD NY BPTTL20040910AAX

Station inside contour of Digital LPTV station
W31BP 31 BURLINGTON, ETC. NY BDFCDTT 20060403AKN

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 = 168.8km

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
31	W31BP	BURLINGTON, ETC. NY	BDFCDTT 20060403AKN

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
16	W16BI	TALBERT KY	917.1	LIC	BLTTL	-20001130ACB
16	W16AX	ITHACA NY	115.1	LIC	BLTTL	-20001220ABE
16	WPBS-TV	WATERTOWN NY	136.0	CP	BPET	-20030109AAN
16	WPBS-TV	WATERTOWN NY	136.0	LIC	BMLET	-19910906KH
17	WMHT	SCHENECTADY NY	93.8	APP	BSTA	-20051220AOK
17	WMHT	SCHENECTADY NY	93.8	LIC	BLET	-331
23	WXXA-TV	ALBANY NY	93.2	LIC	BLCT	-20020314ABC
24	WCNY-TV	SYRACUSE NY	83.4	LIC	BLET	-20030411ABZ
27	W27AL	MONTICELLO NY	123.2	LIC	BLTTL	-19940207JF
27	WVVC-LP	UTICA NY	35.9	LIC	BLTTL	-19960322JA
29	W29BJ	BURLINGTON NY	0.1	LIC	BLTTL	-19970324JC
30	WSKA	CORNING NY	170.9	CP MOD	BMPEDT	-20040413AAJ
30	WSKA	CORNING NY	154.5	CP	BPET	-19960126KE
30	WTTX-LP	ELMIRA NY	157.1	LIC	BLTT	-1638
30	W30AZ	LIBERTY NY	131.7	CP	BPTTL	-20050908ADJ
30	W30AZ	LIBERTY NY	112.6	LIC	BLTT	-19911028IF
30	NEW	PORT JERVIS NY	153.0	APP	BSFDTL	-20060630AVD
30	W30AJ	SYRACUSE NY	90.1	LIC	BLTTL	-19910528JX
30	WUTR	UTICA NY	47.9	LIC	BLCDT	-20040217ADC
30	NEW	MANCHESTER, ETC. VT	172.5	APP	BSFDTT	-20060630AMJ
31	WTIC-TV	HARTFORD CT	221.0	APP	BMPCDT	-20040616AAM
31	WTIC-TV	HARTFORD CT	221.0	CP MOD	BMPCDT	-20030328ABZ
31	WPPX	WILMINGTON DE	297.2	LIC	BLCDT	-20031203AFL
31	WFXT	BOSTON MA	324.8	APP	BPCDT	-19990526KH
31	WFXT	BOSTON MA	324.8	LIC	BLCDT	-19990507KI
31	NEW	JAMESTOWN NY	347.3	APP	BSFDTT	-20060630ASR
31	WPXN-TV	NEW YORK NY	241.6	LIC	BLCT	-19860703KH
31	WUHF	ROCHESTER NY	204.0	LIC	BLCT	-19800121KF
31	WSWB	SCRANTON PA	150.1	LIC	BLCDT	-20060721ABH
31	WNNE	HARTFORD VT	232.9	LIC	BLCT	-20040212ACU
32	W52DF	ALBANY NY	94.3	APP	BDI SDDT	-20060331AAU
32	W52DF	ALBANY NY	94.3	APP	BPTT	-20050405ABY

DLPTV Results - W31BP

32	WNNY-LP	AUBURN NY	105.9	APP	BDI STTL	-20060331BOL
32	W32DC	PORT JERVIS NY	153.0	CP	BNPTTL	-20000831ASW
32	WQPX	SCRANTON PA	150.1	LIC	BLC DT	-20060629AFR
32	WQPX	SCRANTON PA	151.6	APP	BPCT	-20020111AAJ
33	WFXV	UTICA NY	43.4	LIC	BLCT	-19970220KE
34	WI VT	BINGHAMTON NY	97.9	LIC	BLCT	-20040113ABJ
35	WOBX-LP	SYRACUSE NY	91.6	LIC	BLTTL	-19980609JB
38	W38CY	SYRACUSE NY	82.4	LIC	BLTT	-20020726AAO

%%%%%%%%%

Analysis of Interference to Affected Station 19

DTV Baseline Analysis

Channel	Call	City/State	Application Ref. No.
30	WUTR-DT	UTICA NY	DTVPLN -DTVP0748

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	WKTV-DT	UTICA NY	19.7	PLN	DTVPLN -DTVP0712
30	WVIT	NEW BRITAIN CT	250.5	PLN	DTVPLN -NPLN0255
30	WBZ-DT	BOSTON MA	334.7	PLN	DTVPLN -DTVP0744
30	NEW	CORNING NY	180.6	PLN	DTVPLN -NPLN1155
30	WBIS-DT	NEW YORK NY	287.0	PLN	DTVPLN -DTVP0747
30	WGCN-DT	RED LION PA	378.7	PLN	DTVPLN -DTVP0753
31	WUHF	ROCHESTER NY	195.3	PLN	DTVPLN -NPLN1159
31	WOLF-DT	SCRANTON PA	195.4	PLN	DTVPLN -DTVP0790
31	WNNETV	HARTFORD VT	222.7	PLN	DTVPLN -NPLN1666

Results for: 30A NY UTICA DTVP0748 PLN

HAAT 244.0 m, ATV ERP 50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	551123	14981.0
not affected by terrain losses	516700	13733.4
lost to NTSC IX	8881	406.4
lost to additional IX by ATV	41138	1780.3
lost to ATV IX only	43368	1925.3
lost to all IX	50019	2186.7

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
20	WUTR	UTICA NY	DTVPLN -NPLN1138

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	WMHT	SCHENECTADY NY	111.1	PLN	DTVPLN -NPLN1133
17	WIXT-DT	SYRACUSE NY	72.4	PLN	DTVPLN -DTVP0263
19	WCDCTV	ADAMS MA	173.0	PLN	DTVPLN -NPLN0635
19	WSYT-DT	SYRACUSE NY	88.2	PLN	DTVPLN -DTVP0349
20	WXXX	WATERBURY CT	253.3	PLN	DTVPLN -NPLN0240
20	WCVB-DT	BOSTON MA	334.7	PLN	DTVPLN -DTVP0378
20	WVTB	ST. JOHNSBURY VT	307.1	PLN	DTVPLN -NPLN1642
21	WRNN-DT	KINGSTON NY	147.1	PLN	DTVPLN -DTVP0427del
21	WXXI TV	ROCHESTER NY	195.3	PLN	DTVPLN -NPLN1141
21	WWTI-DT	WATERTOWN NY	92.6	PLN	DTVPLN -DTVP0428
23	WXXATV	ALBANY NY	111.5	PLN	DTVPLN -NPLN1064
24	WCNYTV	SYRACUSE NY	72.4	PLN	DTVPLN -NPLN1146
27	WFXV-DT	UTICA NY	24.9	PLN	DTVPLN -DTVP0643
34	WMGCTV	BINGHAMTON NY	135.9	PLN	DTVPLN -NPLN1072
34	NEW	LAKE PLACID NY	154.7	PLN	DTVPLN -NPLN1161
34	WMHT-DT	SCHENECTADY NY	111.1	PLN	DTVPLN -DTVP0896
35	WNNY-DT	CARTHAGE NY	100.4	PLN	DTVPLN -DTVP0931

Results for: 20N NY UTICA DTVP0931 PLN

within Noise Limited Contour	POPULATION	AREA (sq km)
	551123	14981.0

DLPTV Results - W31BP
not affected by terrain losses 495352 13053.8
lost to NTSC IX 43408 614.0
lost to additional IX by ATV 872 51.9
lost to all IX 44280 665.9

Analysis of current record
Channel Call City/State Application Ref. No.
30 WUTR UTICA NY BLC DT -20040217ADC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	WKTV	UTICA NY	19.7	CP MOD	BMPCDT -20020404AAF
29	WKTV-DT	UTICA NY	19.7	PLN	DTVPLN -DTVP0712
30	WVIT	NEW BRITAIN CT	250.5	LIC	BLCT -19791113LC
30	WBZ-DT	BOSTON MA	334.7	PLN	DTVPLN -DTVP0744
30	WBZ-TV	BOSTON MA	334.7	LIC	BLC DT -20060420ABG
30	WSKA	CORNING NY	191.3	CP MOD	BMPCDT -20040413AAJ
30	WSKA	CORNING NY	180.6	CP	BPET -19960126KE
30	WBIS-DT	NEW YORK NY	287.0	PLN	DTVPLN -DTVP0747
30	WPXN-TV	NEW YORK NY	287.0	CP	BPCDT -19991028ACH
30	WGCB-DT	RED LION PA	378.7	PLN	DTVPLN -DTVP0753
30	WGCB-TV	RED LION PA	378.7	LIC	BLC DT -20050615AAB
31	W31BP	BURLINGTON, ETC. NY	47.9	APP	BDFCDTT -20060403AKN
31	WUHF	ROCHESTER NY	195.3	LIC	BLCT -19800121KF
31	WOLF-DT	SCRANTON PA	195.4	PLN	DTVPLN -DTVP0790
31	WSWB	SCRANTON PA	195.4	LIC	BLC DT -20060721ABH
31	WNNE	HARTFORD VT	222.7	LIC	BLCT -20040212ACU

Total scenarios = 8

Result key: 1
Scenario 1 Affected station 19
Before Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
HAAT 227.0 m, ATV ERP 50.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 538120 14174.9
not affected by terrain losses 501457 12759.5
lost to NTSC IX 10838 450.6
lost to additional IX by ATV 38737 1991.4
lost to ATV IX only 42710 2238.2
lost to all IX 49575 2442.0

Potential Interfering Stations Included in above Scenario 1

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	BMPCDT	20020404AAF	CP
30A MA BOSTON	DTVPLN	DTVP0744	PLN
30A NY CORNING	BMPCDT	20040413AAJ	CP
30A NY NEW YORK	DTVPLN	DTVP0747	PLN

After Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
HAAT 227.0 m, ATV ERP 50.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 538120 14174.9
not affected by terrain losses 501457 12759.5
lost to NTSC IX 10838 450.6
lost to additional IX by ATV 40793 2092.3
lost to ATV IX only 45273 2361.7
lost to all IX 51631 2542.9

Potential Interfering Stations Included in above Scenario 1

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
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DLPTV Results - W31BP

30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	BMPCDT	20020404AAF	CP
30A MA BOSTON	DTVPLN	DTVP0744	PLN
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	DTVPLN	DTVP0747	PLN
31A NY BURLINGTON, ETC.	BDFCDTT	20060403AKN	APP

Result key: 2
 Scenario 2 Affected station 19
 Before Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
 HAAT 227.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	38737	1992.4
lost to ATV IX only	42710	2241.2
lost to all IX	49575	2443.0

Potential Interfering Stations Included in above Scenario 2

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	BMPCDT	20020404AAF	CP
30A MA BOSTON	DTVPLN	DTVP0744	PLN
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	BPCDT	19991028ACH	CP

After Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
 HAAT 227.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	40793	2093.3
lost to ATV IX only	45273	2363.6
lost to all IX	51631	2543.9

Potential Interfering Stations Included in above Scenario 2

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	BMPCDT	20020404AAF	CP
30A MA BOSTON	DTVPLN	DTVP0744	PLN
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	BPCDT	19991028ACH	CP
31A NY BURLINGTON, ETC.	BDFCDTT	20060403AKN	APP

Result key: 3
 Scenario 3 Affected station 19
 Before Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
 HAAT 227.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	38737	1991.4
lost to ATV IX only	42710	2238.2
lost to all IX	49575	2442.0

Potential Interfering Stations Included in above Scenario 3

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP

DLPTV Results - W31BP			
29A NY UTICA	BMPCDT	20020404AAF	CP
30A MA BOSTON	BLCDT	20060420ABG	LIC
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	DTVPLN	DTVP0747	PLN

After Analysis

Results for: 30A NY UTICA	BLCDT	20040217ADC	LIC
HAAT 227.0 m, ATV ERP 50.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	538120	14174.9	
not affected by terrain losses	501457	12759.5	
lost to NTSC IX	10838	450.6	
lost to additional IX by ATV	40793	2092.3	
lost to ATV IX only	45273	2361.7	
lost to all IX	51631	2542.9	

Potential Interfering Stations Included in above Scenario 3

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	BMPCDT	20020404AAF	CP
30A MA BOSTON	BLCDT	20060420ABG	LIC
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	DTVPLN	DTVP0747	PLN
31A NY BURLINGTON, ETC.	BDFCDT	20060403AKN	APP

Result key: 4
Scenario 4 Affected station 19
Before Analysis

Results for: 30A NY UTICA	BLCDT	20040217ADC	LIC
HAAT 227.0 m, ATV ERP 50.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	538120	14174.9	
not affected by terrain losses	501457	12759.5	
lost to NTSC IX	10838	450.6	
lost to additional IX by ATV	38737	1992.4	
lost to ATV IX only	42710	2241.2	
lost to all IX	49575	2443.0	

Potential Interfering Stations Included in above Scenario 4

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	BMPCDT	20020404AAF	CP
30A MA BOSTON	BLCDT	20060420ABG	LIC
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	BPCDT	19991028ACH	CP

After Analysis

Results for: 30A NY UTICA	BLCDT	20040217ADC	LIC
HAAT 227.0 m, ATV ERP 50.0 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	538120	14174.9	
not affected by terrain losses	501457	12759.5	
lost to NTSC IX	10838	450.6	
lost to additional IX by ATV	40793	2093.3	
lost to ATV IX only	45273	2363.6	
lost to all IX	51631	2543.9	

Potential Interfering Stations Included in above Scenario 4

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	BMPCDT	20020404AAF	CP
30A MA BOSTON	BLCDT	20060420ABG	LIC
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	BPCDT	19991028ACH	CP

DLPTV Results - W31BP
31A NY BURLINGTON, ETC. BDFCDTT 20060403AKN APP

Result key: 5
Scenario 5 Affected station 19
Before Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC

HAAT 227.0 m, ATV ERP 50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	37313	1892.5
lost to ATV IX only	41256	2134.4
lost to all IX	48151	2343.1

Potential Interfering Stations Included in above Scenario 5

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	DTVPLN	DTVP0712	PLN
30A MA BOSTON	DTVPLN	DTVP0744	PLN
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	DTVPLN	DTVP0747	PLN

After Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC

HAAT 227.0 m, ATV ERP 50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	39372	1997.3
lost to ATV IX only	43822	2261.8
lost to all IX	50210	2447.9

Potential Interfering Stations Included in above Scenario 5

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	DTVPLN	DTVP0712	PLN
30A MA BOSTON	DTVPLN	DTVP0744	PLN
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	DTVPLN	DTVP0747	PLN
31A NY BURLINGTON, ETC.	BDFCDTT	20060403AKN	APP

Result key: 6
Scenario 6 Affected station 19
Before Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC

HAAT 227.0 m, ATV ERP 50.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	37313	1893.5
lost to ATV IX only	41256	2137.4
lost to all IX	48151	2344.0

Potential Interfering Stations Included in above Scenario 6

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	DTVPLN	DTVP0712	PLN
30A MA BOSTON	DTVPLN	DTVP0744	PLN
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	BPCDT	19991028ACH	CP

DLPTV Results - W31BP

After Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
 HAAT 227.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	39372	1998.3
lost to ATV IX only	43822	2263.7
lost to all IX	50210	2448.9

Potential Interfering Stations Included in above Scenario 6

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	DTVPLN	DTVP0712	PLN
30A MA BOSTON	DTVPLN	DTVP0744	PLN
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	BPCDT	19991028ACH	CP
31A NY BURLINGTON, ETC.	BDFCDTT	20060403AKN	APP

Result key: 7
 Scenario 7 Affected station 19
 Before Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
 HAAT 227.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	37313	1892.5
lost to ATV IX only	41256	2134.4
lost to all IX	48151	2343.1

Potential Interfering Stations Included in above Scenario 7

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	DTVPLN	DTVP0712	PLN
30A MA BOSTON	BLC DT	20060420ABG	LIC
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	DTVPLN	DTVP0747	PLN

After Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
 HAAT 227.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	39372	1997.3
lost to ATV IX only	43822	2261.8
lost to all IX	50210	2447.9

Potential Interfering Stations Included in above Scenario 7

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	DTVPLN	DTVP0712	PLN
30A MA BOSTON	BLC DT	20060420ABG	LIC
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	DTVPLN	DTVP0747	PLN
31A NY BURLINGTON, ETC.	BDFCDTT	20060403AKN	APP

Result key: 8
 Scenario 8 Affected station 19
 Before Analysis

DLPTV Results - W31BP

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
 HAAT 227.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	37313	1893.5
lost to ATV IX only	41256	2137.4
lost to all IX	48151	2344.0

Potential Interfering Stations Included in above Scenario 8

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	DTVPLN	DTVP0712	PLN
30A MA BOSTON	BLC DT	20060420ABG	LIC
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	BPCDT	19991028ACH	CP

After Analysis

Results for: 30A NY UTICA BLC DT 20040217ADC LIC
 HAAT 227.0 m, ATV ERP 50.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	538120	14174.9
not affected by terrain losses	501457	12759.5
lost to NTSC IX	10838	450.6
lost to additional IX by ATV	39372	1998.3
lost to ATV IX only	43822	2263.7
lost to all IX	50210	2448.9

Potential Interfering Stations Included in above Scenario 8

30N CT NEW BRITAIN	BLCT	19791113LC	LIC
30N NY CORNING	BPET	19960126KE	CP
29A NY UTICA	DTVPLN	DTVP0712	PLN
30A MA BOSTON	BLC DT	20060420ABG	LIC
30A NY CORNING	BMPEDT	20040413AAJ	CP
30A NY NEW YORK	BPCDT	19991028ACH	CP
31A NY BURLINGTON, ETC.	BDFCDTT	20060403AKN	APP

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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 August 22, 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).