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COMPREHENSIVE TECHNICAL EXHIBIT

**APPLICATION FOR CONSTRUCTION PERMIT
WIIW-LD, FCC ID 168068, NASHVILLE, TN
FCC FILE NUMBER BDCCDTL-20070511AEM
U.S. TELEVISION, LLC**

Application for Minor Modification of Construction Permit.

The within application requests a minor modification of the above captioned construction permit. The facility is moved to a new tower in the same community, the antenna pattern and elevation are changed as is the ERP. The facility proposes service to this same community; the service contour is mostly contained within the underlying contour.

Interference Statement.

An OET 69 Longley-Rice study was performed for the above-captioned application. The study was performed on a Sun Blade computer running the official FCC Longley-Rice program as provided by Techware, Inc. The facility which is the subject of this exhibit does not cause interference in excess of 0.5% to full service and Class A facilities and 2.0% to low power facilities and translators as applicable and thus is in compliance with appropriate portions of §74.793.

In the study, interference shown to two adjacent channel NTSC facilities would be shown to be excessive if the standard OET69 vertical, or elevation, antenna pattern were used by the proposed facility, so in response to an informal discussion with FCC Low Power TV staff, the study used the actual elevation pattern associated with the sixteen bay LPTV slot antenna as provided by the manufacturer, Propagation Systems of Ebensburg, PA. That pattern is attached to the exhibit and made a portion hereof by reference. Further discussion of use of this elevation pattern is included on the following page.

The two affected lower and upper adjacent channel NTSC facilities are:

*WJDE-LP, BLTTA-20001208AEY, Nashville, TN (incorrectly located on FCC records; see note below).
WNTU-LP, BLTTL-20001018ABZ, Nashville, TN.*

Incorrect location of WJDE-LP.

On its license and hence on the FCC CDBS, the location of this facility is shown as NAD27 36-09-49 North, 86-45-45 West. After research, it was discovered there is no suitable tower at this location and that the facility is indeed located on antenna structure #1044629, located at NAD27 36-09-49 North, 86-~~46~~-45 West. Accordingly, it is believed that the location on the license and CDBS is a typographical error. For the purposes of the within study, the error was corrected to the actual NAD27 coordinates of ASR #1044629 with other variables remaining the same.

Use of actual elevation pattern in place of "default" OET69 elevation pattern in Longley-Rice study to more accurately ascertain interference to colocated adjacent channel (upper and lower) facilities.

Use of the standard OET69 elevation antenna pattern yields an FLR study report of excessive interference to the adjacent channel facilities. In informal discussions with FCC staff, it was requested that the actual 16 bay elevation be used for this study in order to facilitate a more "real world" study.

Accordingly, pursuant to directions from the manufacturer of the FCC "official" Longley-Rice study program, the applicant has performed this study using the actual 16 bay elevation pattern. In so doing, the interference was reduced to an amount affecting each of the studied facilities which is acceptable for filing in accordance with §74.793 (g) and (h), respectively. Copies of comparable portions of the same study series for the within proposed facility are attached following to demonstrate the effect of the actual pattern on the study results.

In Attachment 1, the setup of the within proposal using the OET69 standard pattern is shown together with the extracted final study scenarios for the two adjacent channel stations. The interference shown is the same as the "worst case" interference and is excessive.

In Attachment 2, the setup of the within proposal using the actual sixteen bay slot antenna pattern is shown together with the extracted final study scenarios (the same scenarios as shown previously) for the two adjacent channel stations. The interference shown is the same as the "worst case" interference and is less than that specified in 74.793 (g) and (h), respectively, with respect to these stations.

In Attachment 3, the actual elevation pattern employed in the second study is tabulated and graphed. Based on the within exhibit material which it is believed provides satisfactory evidence of the instant application's compliance with applicable portions of §74.793, it is respectfully requested that the application be granted.

J. R. McDonald
March 9, 2010

Following:
Attachments 1, 2, and 3

ATTACHMENT 1 - STANDARD OET ELEVATION PATTERN FLR STUDY WITH SAME EXTRACTED
SCENARIOS AS ACTUAL PATTERN STUDY - WORST CASE INTERFERENCE EXCEEDS §74.793 LIMITS.

STANDARD ELEVATION PATTERN - OET69

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-25-2010 Time: 16:37:56

Record Selected for Analysis

NEW25 USERRECORD-01 ?? TN US
Channel 25 ERP 10. kW HAAT 136. m RCAMSL 00299 m STRINGENT MASK
Latitude 036-09-49 Longitude 0086-46-45
Status APP Zone 1 Border
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	10.000	123.5	42.8
45.0	10.000	155.2	45.0
90.0	10.000	158.2	45.2
135.0	10.000	144.6	44.3
180.0	10.000	101.1	40.8
225.0	10.000	120.5	42.6
270.0	10.000	156.8	45.1
315.0	10.000	127.4	43.1

Contour Overlap to Proposed Station

Station
WJDE-LP 24 NASHVILLE TN BLTTA20001208AEY

Station inside contour of Digital LPTV station
NEW25 25 ?? TN USERRECORD01

Station
WNTU-LP 26 NASHVILLE TN BLTTTL20001018ABZ

Station inside contour of Digital LPTV 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 beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
25	NEW25	?? TN	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	W22CH	HOPKINSVILLE KY	103.5	LIC	BLTT	-19990914AAJ
24	WHIQ	HUNTSVILLE AL	160.2	LIC	BLEDT	-20060927ALU
24	WQTV-LP	MURRAY KY	145.4	LIC	BLTTL	-20010425AAF
24	WJDE-LP	NASHVILLE TN	1.5	LIC	BLTTA	-20001208AEY
25	WJMY-CA	DEMOPOLIS AL	373.1	LIC	BLTTA	-20050404ADB
25	WJMY-CA	DEMOPOLIS AL	373.1	APP	BSTA	-20060928AEP
25	WJMY-CA	DEMOPOLIS AL	352.7	CP	BDFCDTA	-20090824ABD
25	W25DR	JASPER AL	262.2	LIC	BLTT	-20070112AHS
25	NEW	TUSCALOOSA AL	348.8	APP	BNPDTL	-20090825BZU
25	WATL	ATLANTA GA	343.4	LIC	BLCDDT	-20020716AAH
25	K65GP	CARBONDALE IL	273.0	APP	BPTTL	-20020806ABD
25	NEW	EVANSVILLE IN	203.3	APP	BNPDTL	-20090825AZP
25	NEW	EVANSVILLE IN	213.1	APP	BNPDTL	-20090825BAD
25	NEW	EVANSVILLE IN	202.7	APP	BNPDTL	-20090825BSG
25	WKUT-LD	BOWLING GREEN KY	90.9	LIC	BLDTL	-20100121AAD
25	W24BT	LEXINGTON KY	296.4	APP	BPTTL	-20011010AAH
25	W25AD	COLUMBUS MS	325.9	LIC	BLTT	-20031126AOI
25	WUNF-TV	ASHEVILLE NC	371.8	CP	BPEDT	-20080619AEH
25	WJJV-LP	ASHEVILLE NC	392.3	LIC	BLTTL	-19990120JB
25	WUNF-TV	ASHEVILLE NC	371.8	LIC	BLEDT	-20030401BAI
25	WOTH-LP	CINCINNATI OH	385.5	LIC	BLTTL	-20050628AAX
25	W25DU-D	CLARKSVILLE TN	55.7	CP	BDCCDTL	-20070511ABJ
25	WPDP-LP	CLEVELAND TN	225.9	LIC	BLTTL	-19990810JD
25	W25BY	JACKSON TN	186.5	LIC	BLTTL	-20001130ABV
25	WKPT-LP	KINGSPORT TN	377.4	LIC	BLTT	-19871119IB
25	WKPT-LP	KINGSPORT TN	377.4	APP	BSTA	-20060331AXC
25	WWWB-LP	LIVINGSTON TN	135.2	LIC	BLTTL	-20080818ABC
25	WPTY-TV	MEMPHIS TN	288.0	LIC	BLCDDT	-20050628AAP
26	NEW	EVANSVILLE IN	203.3	APP	BNPDTL	-20090825AZW
26	W26BE	CHATTANOOGA TN	172.7	LIC	BLTTL	-19950313IR
26	W26CJ	CLARKSVILLE TN	55.7	LIC	BLTTL	-20041122AIZ
26	WNTU-LP	NASHVILLE TN	0.0	LIC	BLTTL	-20001018ABZ
26	WUWT-CD	UNION CITY TN	204.6	APP	BSTA	-20080804AEW
26	WUWT-CD	UNION CITY TN	204.6	LIC	BLDTA	-20090514AAD
26	WUWT-CD	UNION CITY TN	204.6	APP	BSTA	-20070904AAB

26 WUWT-CD UNION CITY VI 204.6 APP BDISTTA -20071016ABB

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Result key: 48
Scenario 48 Affected station 4 WJDE-LP
Before Analysis

Results for: 24N TN NASHVILLE	BLTTA	20001208AEY	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	623050	1370.2	
not affected by terrain losses	604939	1319.0	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	7035	63.0	
lost to all IX	7035	63.0	

Potential Interfering Stations Included in above Scenario 48

21A TN NASHVILLE	BLCDDT	20060414AAU	LIC
23A TN NASHVILLE	BLCDDT	20040712AAO	LIC
24A AL HUNTSVILLE	BLEDDT	20060927ALU	LIC
27A TN NASHVILLE	BLCDDT	20020528AAC	LIC

After Analysis

Results for: 24N TN NASHVILLE	BLTTA	20001208AEY	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	623050	1370.2	
not affected by terrain losses	604939	1319.0	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	69975	176.3	
lost to all IX	69975	176.3	

Potential Interfering Stations Included in above Scenario 48

21A TN NASHVILLE	BLCDDT	20060414AAU	LIC
23A TN NASHVILLE	BLCDDT	20040712AAO	LIC
24A AL HUNTSVILLE	BLEDDT	20060927ALU	LIC
27A TN NASHVILLE	BLCDDT	20020528AAC	LIC
25A TN ??	USERRECORD01		APP

The following station failed the de minimis interference criteria.

25D TN ?? USERRECORD01
ERP 10.00 kW HAAT 136.0 m RCAMSL 299.0 m
Antenna none

Due to interference to the following station and scenario: 48

24N TN NASHVILLE BLTTA 20001208AEY
ERP 13.60 kW HAAT 178.0 m RCAMSL 311.0 m
Antenna 9999999999999999

Percent new DTV interference without proposal:	1.1	BLTTA	20001208AEY
Percent new DTV interference with proposal:	11.2	BLTTA	20001208AEY

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Result key: 93
Scenario 12 Affected station 32 WNTU-LP
Before Analysis

Results for: 26N TN NASHVILLE BLTTL 20001018ABZ LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	599500	1289.4
not affected by terrain losses	581614	1222.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10942	70.9
lost to all IX	10942	70.9

Potential Interfering Stations Included in above Scenario 12

26A KY LOUISVILLE	DTVPLN	DTVP0941	PLN
27A TN NASHVILLE	BLCDT	20020528AAC	LIC

After Analysis

Results for: 26N TN NASHVILLE BLTTL 20001018ABZ LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	599500	1289.4
not affected by terrain losses	581614	1222.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	102842	141.8
lost to all IX	102842	141.8

Potential Interfering Stations Included in above Scenario 12

26A KY LOUISVILLE	DTVPLN	DTVP0941	PLN
27A TN NASHVILLE	BLCDT	20020528AAC	LIC
25A TN ??	USERRECORD01		APP

The following station failed the de minimis interference criteria.

25D TN ?? USERRECORD01
 ERP 10.00 kW HAAT 136.0 m RCAMSL 299.0 m
 Antenna none

Due to interference to the following station and scenario: 12

26N TN NASHVILLE BLTTL 20001018ABZ
 ERP 11.90 kW HAAT 178.0 m RCAMSL 311.0 m
 Antenna 9999999999999999

Percent new DTV interference without proposal:	1.8	BLTTL	20001018ABZ
Percent new DTV interference with proposal:	17.2	BLTTL	20001018ABZ

ATTACHMENT 2 - ACTUAL ELEVATION PATTERN FLR STUDY
WITH SAME EXTRACTED SCENARIOS AS STANDARD STUDY - WORST CASE INTERFERENCE SHOWN DOES
NOT EXCEED \$74.793 LIMITS.

ACTUAL ELEVATION PATTERN - 16 BAY SLOT

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-02-2010 Time: 17:35:41

Record Selected for Analysis

NEW25T USERRECORD-01 ?? TN US
Channel 25 ERP 10. kW HAAT 136. m RCAMSL 00299 m STRINGENT MASK
Latitude 036-09-49 Longitude 0086-46-45
Status APP Zone 1 Border
Dir Antenna Make usr Model 00000000099938 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	9.663	123.5	42.7
45.0	9.577	155.2	44.8
90.0	9.569	158.2	45.0
135.0	9.605	144.6	44.1
180.0	9.729	101.1	40.7
225.0	9.672	120.5	42.5
270.0	9.573	156.8	44.9
315.0	9.652	127.4	42.9

Contour Overlap to Proposed Station

Station
WJDE-LP 24 NASHVILLE TN BLTTA20001208AEY

Station inside contour of Digital LPTV station
NEW25T 25 ?? TN USERRECORD01

Station
WNTU-LP 26 NASHVILLE TN BLTTL20001018ABZ

Station inside contour of Digital LPTV station
NEW25T 25 ?? TN USERRECORD01

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 beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
25	NEW25T	?? TN	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
22	W22CH	HOPKINSVILLE KY	103.5	LIC	BLTT	-19990914AAJ
24	WHIQ	HUNTSVILLE AL	160.2	LIC	BLEDT	-20060927ALU
24	WQTV-LP	MURRAY KY	145.4	LIC	BLTTTL	-20010425AAF
24	WJDE-LP	NASHVILLE TN	0.0	LIC	BLTTA	-20001208AEY
25	WJMY-CA	DEMOPOLIS AL	373.1	LIC	BLTTA	-20050404ADB
25	WJMY-CA	DEMOPOLIS AL	373.1	APP	BSTA	-20060928AEP
25	WJMY-CA	DEMOPOLIS AL	352.7	CP	BDFCDTA	-20090824ABD
25	W25DR	JASPER AL	262.2	LIC	BLTT	-20070112AHS
25	NEW	TUSCALOOSA AL	348.8	APP	BNPDTL	-20090825BZU
25	WATL	ATLANTA GA	343.4	LIC	BLCDT	-20020716AAH
25	K65GP	CARBONDALE IL	273.0	APP	BPTTL	-20020806ABD
25	NEW	EVANSVILLE IN	203.3	APP	BNPDTL	-20090825AZP
25	NEW	EVANSVILLE IN	213.1	APP	BNPDTL	-20090825BAD
25	NEW	EVANSVILLE IN	202.7	APP	BNPDTL	-20090825BSG
25	WKUT-LD	BOWLING GREEN KY	90.9	LIC	BLDTL	-20100121AAD
25	W24BT	LEXINGTON KY	296.4	APP	BPTTL	-20011010AAH
25	W25AD	COLUMBUS MS	325.9	LIC	BLTT	-20031126AOI
25	WUNF-TV	ASHEVILLE NC	371.8	CP	BPEDT	-20080619AEH
25	WJ JV-LP	ASHEVILLE NC	392.3	LIC	BLTTTL	-19990120JB
25	WUNF-TV	ASHEVILLE NC	371.8	LIC	BLEDT	-20030401BAI
25	WOTH-LP	CINCINNATI OH	385.5	LIC	BLTTTL	-20050628AAX
25	W25DU-D	CLARKSVILLE TN	55.7	CP	BDCCDTL	-20070511ABJ
25	WPDP-LP	CLEVELAND TN	225.9	LIC	BLTTTL	-19990810JD
25	W25BY	JACKSON TN	186.5	LIC	BLTTTL	-20001130ABV
25	WKPT-LP	KINGSPORT TN	377.4	LIC	BLTT	-19871119IB
25	WKPT-LP	KINGSPORT TN	377.4	APP	BSTA	-20060331AXC
25	WWWB-LP	LIVINGSTON TN	135.2	LIC	BLTTTL	-20080818ABC
25	WPTY-TV	MEMPHIS TN	288.0	LIC	BLCDT	-20050628AAP
25	WIIW-LD	NASHVILLE TN	8.2	CP	BDCCDTL	-20070511AEM
26	NEW	EVANSVILLE IN	203.3	APP	BNPDTL	-20090825AZW
26	W26BE	CHATTANOOGA TN	172.7	LIC	BLTTTL	-19950313IR
26	W26CJ	CLARKSVILLE TN	55.7	LIC	BLTTTL	-20041122AIZ
26	WNTU-LP	NASHVILLE TN	0.0	LIC	BLTTTL	-20001018ABZ

Potential Interfering Stations Included in above Scenario 12

25A TN NASHVILLE	BDCCDTL	20070511AEM	CP
26A KY LOUISVILLE	DTVPLN	DTVP0941	PLN
27A TN NASHVILLE	BLCDT	20020528AAC	LIC

After Analysis

Results for: 26N TN NASHVILLE	BLTTL	20001018ABZ	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	599500	1289.4	
not affected by terrain losses	581614	1222.4	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	18194	87.7	
lost to all IX	18194	87.7	

Potential Interfering Stations Included in above Scenario 12

25A TN NASHVILLE	BDCCDTL	20070511AEM	CP
26A KY LOUISVILLE	DTVPLN	DTVP0941	PLN
27A TN NASHVILLE	BLCDT	20020528AAC	LIC
25A TN ??	USERRECORD01		APP

Percent new IX = 0.7613%

Vertical Elevation Pattern

Angle (deg)	Relative Field
-4.0	0.116
-3.0	0.172
-2.0	0.587
-1.75	0.676
-1.5	0.758
-1.25	0.831
-1.0	0.893
-0.75	0.942
-0.5	0.977
-0.25	0.996
0.0	1.0
0.25	0.988
0.5	0.961
0.75	0.918
1.0	0.863
1.25	0.795
1.5	0.718
1.75	0.632
2.0	0.541
2.25	0.447
2.5	0.353
2.75	0.26
3.0	0.172
3.25	0.092
3.5	0.034
3.75	0.064
4.0	0.116
4.25	0.158
4.5	0.19
4.75	0.211
5.0	0.22
5.25	0.219
5.5	0.208
5.75	0.189
6.0	0.163
6.25	0.132
6.5	0.098
6.75	0.062
7.0	0.025

