

ENGINEERING STATEMENT
SUPPORTING REQUEST FOR WAIVER
TELEVISION STATION WNUV(TV)
(FACILITY ID NO. 7933)
BALTIMORE, MARYLAND
CHANNEL 25

Background

This statement was prepared on behalf of Baltimore (WNUV-TV) Licensee, Inc., licensee of WNUV, Baltimore, MD, in support of a request for waiver of the FCC's Phase Assignment, Testing Period, and Phase Completion Date for television station WNUV in the Baltimore DMA^{*}. WNUV is licensed for operation on RF Channel 40 with a maximum directional effective radiated power (ERP) of 845 kW and an antenna height above average terrain (HAAT) of 372.8 m.[†]

As a result of the FCC's Incentive Auction repack process, the WNUV facility was reassigned to RF Channel 25. It was assigned with a baseline facility having a maximum directional ERP of 620 kW with an HAAT of 372.8 m. WNUV holds a construction permit (C.P.) for operation on Channel 25 with a maximum directional ERP of 425 kW and an antenna HAAT of 372.8 m.[‡] It is proposed to make the early transition on Channel 25 using the C.P. antenna system. FCC engineering database summary sheets for the WNUV license and C.P. facilities are attached hereto for reference.

In coordination with the wireless carrier T-Mobile, Baltimore (WNUV-TV) Licensee, Inc. seeks a waiver of the FCC's Phase Assignment, Testing Period, and Phase Completion Date to allow WNUV to make the transition to Channel 25 earlier than its given phase transition date. Specifically, the target date for WNUV to begin operations on Channel 25 is September 1, 2018. This will facilitate the early deployment of new 600 MHz band wireless broadband services.

^{*} Nielsen Designated Market Area abbreviated as DMA.

[†] See FCC File No. BMLCDT-20110131ASB.

[‡] See FCC File No. 0000027773. The C.P. facility was designed to meet the FCC service requirements of the WNUV given baseline facility with a slightly altered directional antenna pattern.

This statement demonstrates that WNUV can transition to Channel 25 before its assigned phase date without any disruption to the FCC's transition plans.

Assigned Phase

WNUV was assigned to transition Phase 8, with a testing begin date of January 18, 2020. This is based on the latest FCC Phase Assignment spreadsheet dated May 30, 2018.

Linked Station Sets and Linked Station Neighbor Stations

An inspection of the latest FCC Linked Station Set (LSS) and Linked Station Neighbor (LSN) spreadsheet databases indicates that the WNUV facility is not part of any LSSs or LSNs. These are based on the latest LSS and LSN spreadsheets available from the FCC, both dated May 30, 2018.

Interference Caused Analysis Under Current Allocation Environment

An interference analysis was conducted for the WNUV Channel 25 baseline facility utilizing the latest version[§] of the FCC's *TVStudy* coverage and interference analysis prediction software. The report of the results is attached hereto entitled 'Interference Caused Analysis for WNUV(TV) Channel 25 Baseline Facility Under Current Allocation Environment.'

Based on FCC procedure, the analysis was based on the WNUV Channel 25 baseline facility, which forms the basis for the WNUV C.P. authorization. In addition, the analysis includes the facility records that were in existence as of October 2015 in order to simulate the allocation conditions at that time to properly evaluate existing viewer populations.

The results of the analysis indicate that there are two cases of outgoing (caused) interference exceeding the normal 0.5% rounding tolerance level to other protected full-power or Class A television stations now operating. These cases are with respect to the following:

[§] *TVStudy* Version 2.2.5

1. WTVR-TV, Richmond, VA, Channel 25 (1.93% interference)
2. WDVM-TV, Hagerstown, MD, Channel 26 (0.71% interference)

As indicated, in both of these cases the predicted interference is within the FCC's permitted temporary transitional pairwise interference level of 2%.

Interference Received Analysis Under Current Allocation Environment

An interference analysis specifically for the 'received case' of interference was conducted for the WNUV Channel 25 baseline facility utilizing the FCC's *TVStudy* prediction software. The report of the results is attached hereto entitled 'Interference Received Analysis for WNUV(TV) Channel 25 Baseline Facility Under Current Allocation Environment.' The purpose of this study is to evaluate all current environment records in the received interference analysis.

As indicated in the attached, the analysis was based on an evaluation of the predicted service with respect to the cells of existing service for WNUV (Channel 40). The results of the analysis indicate that there is one case of incoming (received) interference exceeding the 0.5% interference level to the WNUV Channel 25 baseline early transition facility. The interference case is with respect to the following:

1. WTVR-TV, Richmond, VA, Channel 25 (1.85% interference).

As shown in the results, the predicted interference is 1.85% and, therefore, it does not exceed the FCC's permissible temporary 2% transitional interference level.

Effects on Linked Station Sets

It has been determined that the early transition of the WNUV facility to Channel 25 in advance of its phase transition date will not create any pairwise interference cases or new linked station sets as a result of interference caused cases.

Conclusion

It is concluded that the early transition of the WNUV facility on Channel 25 as described herein will not result in any interference cases that would result in the creation of any new linked station sets established in the Incentive Auction repack process.

A handwritten signature in black ink, appearing to read "Louis R. du Treil, Jr.", written in a cursive style.

Louis R. du Treil, Jr., P.E.

du Treil, Lundin & Rackley, Inc.
3135 Southgate Circle
Sarasota, Florida 34239

June 13, 2018

TV Inquiry

WNUV LICENSED FACILITY RECORD

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



Callsign: WNUV **Service:** DT **Status:** LIC **App. Status:** GRANT **Border Code:** **Rec. Type:** C
Channel: 40 **Offset:** **Zone:** 1 **Docket Number:** **DTV Type:**
Fac. ID: 7933 **Assoc. ID:** **Application File No.:** BMLCDT-20110131ASB **DT Emission Mask:**
City: BALTIMORE **State:** MD **Country:** US **CP Expiration Date:**
Party Name: BALTIMORE (WNUV-TV) LICENSEE, INC. **Last Change Date:** 10/5/2011

Latitude (NAD 27): 39-20-10 **Height AGL (m):** 374.8 **Polarization:** H
Longitude (NAD 27): 076-38-59 **Overall Height AGL (m):** 390.1 **Electrical Tilt (°):** 0.75
Latitude (NAD 83): 039-20-10.4 **ERP (kW):** 845 **Mechanical Tilt (°):**
Longitude (NAD 83): 076-38-57.9 **Maximum ERP (kW):** **Mechanical Tilt Azimuth (°):**
RCAMSL (m): 456.8 **Maximum ERP (dBk):** 29.3 **Degrees True (°):**
Site Elevation AMSL (m): 82 **Maximum ERP at any Angle (kW):** **Antenna Make:** DIE
HAAT (m): 372.8 **Antenna Model:** TUD-C5SP-10/36SPH-1-B
Maximum HAAT (m): 450

Antenna Type: D **Antenna ID:** 106798 **Rotation (°):** 0

0°	0.602	90°	0.348	180°	0.925	270°	0.875	282°	1.000
10°	0.530	100°	0.382	190°	0.825	280°	0.995		
20°	0.418	110°	0.405	200°	0.904	290°	0.933		
30°	0.305	120°	0.505	210°	1.000	300°	0.824		
40°	0.356	130°	0.597	220°	0.904	310°	0.901		
50°	0.340	140°	0.592	230°	0.825	320°	0.975		
60°	0.392	150°	0.659	240°	0.919	330°	0.887		
70°	0.400	160°	0.851	250°	0.936	340°	0.693		
80°	0.347	170°	0.971	260°	0.836	350°	0.592		

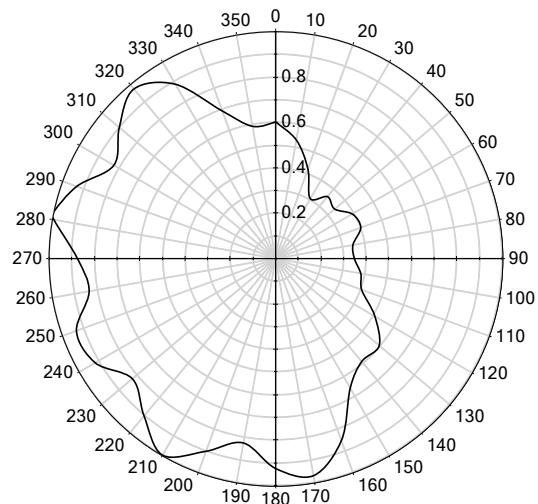
Standard Pattern:

Antenna Make: DIE

Antenna Model: TUD-C5SP-10/36SPH-1-B

Last Change Date:

Note: Rotation or tilt is not applied to the pattern shown



Type: GTOWER	ASRN: 1044237	FAA Study No.: 2012-AEA-4895-OE	Structure Height (m): 389.2
Latitude (NAD 27): 039-20-10	Date Received: 12/05/2012	Structure Height (ft): 1276.9	
Longitude (NAD 27): 076-38-59	Date Entered: 12/05/2012	Ground Elevation (m): 82.0	
Latitude (NAD 83): 39-20-10.4	Date Issued: 12/05/2012	Ground Elevation (ft): 269.0	
Longitude (NAD 83): 076-38-57.9	Date Constructed: 01/01/1987	Overall Height AGL (m): 390.1	
	Date Dismantled:	Overall Height AGL (ft): 1279.9	
Struct. Address:		Overall Height AMSL (m): 472.1	
3900 HOOPERAVE		Overall Height AMSL (ft): 1548.9	
BALTIMORE	MD		
Entity Name: CUNNINGHAM COMMUNICATIONS, INC			

TV Inquiry

WNUV C.P. FACILITY RECORD

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



Callsign: WNUV **Service:** DT **Status:** CP **App. Status:** GRANT **Border Code:** **Rec. Type:** C
Channel: 25 **Offset:** **Zone:** 1 **Docket Number:** **DTV Type:** POSTTRAN
Fac. ID: 7933 **Assoc. ID:** **Application File No.:** BLANK-0000027773 **DT Emission Mask:**
City: BALTIMORE **State:** MD **Country:** US **CP Expiration Date:**
Party Name: BALTIMORE (WNUV-TV) LICENSEE, INC. **Last Change Date:** 8/11/2017

Latitude (NAD 83): 39-20-10.4 **Height AGL (m):** 374.8 **Polarization:** H
Longitude (NAD 83): 076-38-57.9 **Overall Height AGL (m):** 390.1 **Electrical Tilt (°):** 0.9
ERP (kW): 425 **Mechanical Tilt (°):**
Maximum ERP (kW):
Maximum ERP (dBk): 26.3 **Mechanical Tilt Azimuth (°):**
Maximum ERP at any Angle (kW): **Degrees True (°):**
RCMSL (m): 456.8 **Antenna Make:**
Site Elevation AMSL (m): 82 **Antenna Model:**
HAAT (m): 372.8
Maximum HAAT (m):

Antenna Type: D **Antenna ID:** 1001700 **Rotation (°):** 30

0° 0.392	90° 0.518	180° 1.000	270° 0.864	16° 0.352
10° 0.362	100° 0.588	190° 0.929	280° 0.908	252° 1.000
20° 0.356	110° 0.595	200° 0.862	290° 0.959	
30° 0.396	120° 0.669	210° 0.918	300° 0.874	
40° 0.403	130° 0.842	220° 0.930	310° 0.700	
50° 0.362	140° 0.955	230° 0.866	320° 0.599	
60° 0.357	150° 0.924	240° 0.908	330° 0.593	
70° 0.386	160° 0.862	250° 0.997	340° 0.537	
80° 0.427	170° 0.929	260° 0.951	350° 0.441	

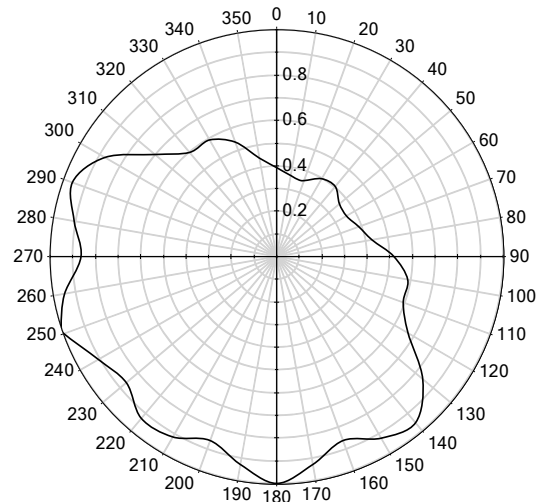
Standard Pattern:

Antenna Make: DIE

Antenna Model: TUD-C5SP-10/36SPH-1-B

Last Change Date:

Note: Rotation or tilt is not applied to the pattern shown



Type: GTOWER	ASRN: 1044237	FAA Study No.: 2012-AEA-4895-OE	Structure Height (m): 389.2
Latitude (NAD 27): 039-20-10	Date Received: 12/05/2012	Structure Height (ft): 1276.9	
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Latitude (NAD 83): 39-20-10.4	Date Issued: 12/05/2012	Ground Elevation (ft): 269.0	
Longitude (NAD 83): 076-38-57.9	Date Constructed: 01/01/1987	Overall Height AGL (m): 390.1	
	Date Dismantled:	Overall Height AGL (ft): 1279.9	
Struct. Address:		Overall Height AMSL (m): 472.1	
3900 HOOPERAVE		Overall Height AMSL (ft): 1548.9	
BALTIMORE	MD		
Entity Name: CUNNINGHAM COMMUNICATIONS, INC			

INTERFERENCE CAUSED ANALYSIS FOR WNUV(TV) CHANNEL 25 BASELINE FACILITY UNDER CURRENT ALLOCATION ENVIRONMENT

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: wnuv25bl3, Model: Longley-Rice

Study build station data: LMS TV 2018-06-12

Proposal: WNUV25BL3 D25 DT BL BALTIMORE, MD
File number: wnuvbl3
Facility ID: 7933
Station data: User record
Record ID: 2914
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
All post-transition APP, CP, and baseline records excluded

User records included:

2915 WTVE D25 DD LIC READING, PA BLCDT20100405ABM (Facility included to consider 2015 scenario.)
2916 WZDC-CD D25 DC LIC WASHINGTON, DC BLANK0000004303 (Facility included to consider 2015 scenario.)
2917 WNVC D24 DT LIC CULPEPER, VA BLEDT20090612ACS (Facility included to consider 2015 scenario.)

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	276.1 km
No	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLEDT20071228ABM	276.1
No	WATM-TV	D24	DT	LIC	ALTOONA, PA	BLCDT20050603ACF	205.2
No	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	144.1
No	WPHA-CD	D24	DC	CP	PHILADELPHIA, PA	BLANK0000036105	144.1
Yes	WNVC	D24	DT	LIC	CULPEPER, VA	BLEDT20090612ACS	71.3
Yes	WDCO-CD	D24	DC	CP	Woodstock, VA	BLANK0000034546	71.3
Yes	WZDC-CD	D25	DC	LIC	WASHINGTON, DC	BLANK0000004303	57.7
No	WUNC-TV	D25	DT	LIC	CHAPEL HILL, NC	BLANK0000053854	444.8
Yes	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	271.6
No	WVTT-CD	D25	DC	APP	OLEAN, NY	BDFCDTA20110531AGF	336.6
No	WCNY-TV	D25	DT	LIC	SYRACUSE, NY	BMLEDT20040916ABJ	403.6
Yes	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	314.7
Yes	WTVE	D25	DD	LIC	READING, PA	BLCDT20100405ABM	137.4
Yes	WTVE	D25	DD	LIC	WILLOW GROVE, PA	BLCDT20100405ABM	137.4
Yes	WTVR-TV	D25	DT	LIC	RICHMOND, VA	BLCDT20021204ABA	219.0
Yes	WDVM-TV	D26	DT	LIC	HAGERSTOWN, MD	BLCDT20090612AFP	118.5
Yes	KYW-TV	D26	DT	LIC	PHILADELPHIA, PA	BLCDT20090326ABH	143.7
No	WRLH-TV	D26	DT	LIC	RICHMOND, VA	BLCDT20041207AAW	219.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D25

Latitude: 39 20 10.38 N (NAD83)
Longitude: 76 38 57.89 W
Height AMSL: 456.8 m
HAAT: 372.8 m
Peak ERP: 620 kW
Antenna: DIE-TUD-C5SP-10/36SPH-1-B (ID 106798) 0.0 deg
Elev Pattnr: Generic
Elec Tilt: 0.75

39.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	225 kW	355.0 m	91.9 km
45.0	75.1	357.5	84.0
90.0	75.1	412.6	87.9
135.0	219	446.3	98.1
180.0	530	425.0	104.7
225.0	463	344.1	96.9
270.0	475	328.2	95.6
315.0	546	306.0	94.4

INTERFERENCE CAUSED ANALYSIS FOR WNUV(TV) CHANNEL 25 BASELINE FACILITY UNDER CURRENT ALLOCATION ENVIRONMENT

Database HAAT does not agree with computed HAAT
Database HAAT: 373 m Computed HAAT: 372 m

Distance to Canadian border: 432.8 km

Distance to Mexican border: 2399.5 km

**Proposal is within coordination distance of FCC monitoring station
**Proposal exceeds field strength limit at FCC monitoring station
Conditions at FCC monitoring station: Laurel MD
Bearing: 217.9 degrees Distance: 24.1 km
ERP: 530 kW HAAT: 358.0 m Field strength: 92.9 dBu, 43.9 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 281.3 degrees Distance: 2433.3 km

Study cell size: 2.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

----- Interference to BLANK0000054140 LIC scenario 1

Desired:	Call WWOR-TV	Chan D25	Svc DT	Status LIC	City, State SECAUCUS, NJ	File Number BLANK0000054140	Distance
Undesireds:	WNUV25BL3	D25	DT	BL	BALTIMORE, MD	wnuvbl3	271.6 km
	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	5.3
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	127.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
25364.9	19,853,836	23866.1	19,615,370	23753.4	19,586,408	23701.4 19,575,877	0.22 0.05
Undesired				Total IX	Unique IX, before	Unique IX, after	
WNUV25BL3	D25	DT	BL	52.0	10,531	52.0 10,531	
WNYE-TV	D24	DT	APP	112.8	28,962	112.8 28,962	

----- Interference to BLCDT20041004ACS LIC scenario 1

Desired:	Call KDKA-TV	Chan D25	Svc DT	Status LIC	City, State PITTSBURGH, PA	File Number BLCDT20041004ACS	Distance	
Undesireds:	WNUV25BL3	D25	DT	BL	BALTIMORE, MD	wnuvbl3	314.7 km	
	WOSC-CD	D26	DC	CP	PITTSBURGH, PA	BLANK0000029678	7.1	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
31466.0	3,611,796	29542.5	3,450,690	29538.4	3,450,685	29490.1	3,449,471	0.16 0.04
Undesired				Total IX	Unique IX, before		Unique IX, after	
WNUV25BL3	D25	DT	BL	48.3	1,214	48.3	1,214	
WOSC-CD	D26	DC	CP	4.0	5	4.0	5	

----- Interference to BLCDT20021204ABA LIC scenario 1

****IX: 1.93% interference caused (Compliant with temporary 2% predicted interference requirement.)**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTVR-TV	D25	DT	LIC	RICHMOND, VA	BLCDT20021204ABA	
Undesireds:	WNUV25BL3	D25	DT	BL	BALTIMORE, MD	wnuvbl3	219.0 km
	WNVC	D24	DT	LIC	CULPEPER, VA	BLEDT20090612ACS	154.9
	WZDC-CD	D25	DC	LIC	WASHINGTON, DC	BLANK0000004303	165.0
	WUNC-TV	D25	DT	LIC	CHAPEL HILL, NC	BLANK0000053854	230.1
	WTVE	D25	DD	LIC	WILLOW GROVE, PA	BLCDT20100405ABM	354.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX

INTERFERENCE CAUSED ANALYSIS FOR WNUV(TV) CHANNEL 25 BASELINE FACILITY UNDER CURRENT ALLOCATION ENVIRONMENT

28935.6	1,808,516	28693.6	1,802,164	28539.1	1,788,765	28030.7	1,754,223	1.78	1.93
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	Total IX	Unique IX, before	Unique IX, after
Undesired			
WNUV25BL3 D25 DT BL	631.1	47,136	508.4
WNVC D24 DT LIC	8.1	1,326	0.0
WZDC-CD D25 DC LIC	126.6	13,338	11.8
WUNC-TV D25 DT LIC	23.9	61	19.9
WTVE D25 DD LIC	4.0	1,326	0.0

Interference to BLCDT20090612AFP LIC scenario 1

****IX: 0.71% interference caused (Compliant with temporary 2% predicted interference requirement.)**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDVM-TV	D26	DT	LIC	HAGERSTOWN, MD	BLCDT20090612AFP	
Undesireds:	WNUV25BL3	D25	DT	BL	BALTIMORE, MD	wnuvbl3	118.5 km
	WZDC-CD	D25	DC	LIC	WASHINGTON, DC	BLANK0000004303	110.6
	WVIZ	D26	DT	LIC	CLEVELAND, OH	BLANK0000006262	368.3
	KYW-TV	D26	DT	LIC	PHILADELPHIA, PA	BLCDT20090326ABH	236.1
	WOSC-CD	D26	DC	CP	PITTSBURGH, PA	BLANK0000029678	191.1
	WRLH-TV	D26	DT	LIC	RICHMOND, VA	BLCDT20041207AAW	241.0
	WETA-TV	D27	DT	LIC	WASHINGTON, DC	BLEDT20120731ALN	109.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
30425.7	2,667,801	22319.3	1,632,782	0.43

	Total IX	Unique IX, before	Unique IX, after
Undesired			
WNUV25BL3 D25 DT BL	569.1	166,574	95.4
WZDC-CD D25 DC LIC	151.5	93,487	0.0
WVIZ D26 DT LIC	4.0	2	0.0
KYW-TV D26 DT LIC	2135.0	394,956	995.0
WOSC-CD D26 DC CP	84.3	16,811	52.4
WRLH-TV D26 DT LIC	1711.3	481,471	555.2
WETA-TV D27 DT LIC	682.3	393,865	119.8

Interference to BLCDT20090326ABH LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KYW-TV	D26	DT	LIC	PHILADELPHIA, PA	BLCDT20090326ABH	
Undesireds:	WNUV25BL3	D25	DT	BL	BALTIMORE, MD	wnuvbl3	143.7 km
	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	128.0
	WTVE	D25	DD	LIC	WILLOW GROVE, PA	BLCDT20100405ABM	50.0
	WHPX-TV	D26	DT	LIC	NEW LONDON, CT	BLCDT20090612AII	298.5
	WDVM-TV	D26	DT	LIC	HAGERSTOWN, MD	BLCDT20090612AFP	236.1
	WTEN	D26	DT	LIC	ALBANY, NY	BLCDT20060104ACC	304.9
	WRLH-TV	D26	DT	LIC	RICHMOND, VA	BLCDT20041207AAW	347.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
33849.8	11,061,941	31985.4	10,655,106	0.09

	Total IX	Unique IX, before	Unique IX, after
Undesired			
WNUV25BL3 D25 DT BL	67.6	10,457	27.8
WWOR-TV D25 DT LIC	184.1	109,595	156.0
WTVE D25 DD LIC	108.2	31,930	92.2
WHPX-TV D26 DT LIC	28.0	22,809	4.0
WDVM-TV D26 DT LIC	345.1	63,724	297.1
WTEN D26 DT LIC	24.0	10,501	12.0
WRLH-TV D26 DT LIC	51.9	6,682	7.9

INTERFERENCE RECEIVED ANALYSIS FOR WNUV(TV) CHANNEL 25 BASELINE FACILITY UNDER CURRENT ALLOCATION ENVIRONMENT

tvstudy v2.2.5 (4uoc83)

Database: localhost
Station Data: LMS TV 2018-05-03
Study: LMS180503
Model: Longley-Rice
Scenario: wnuv25bl3

Desired station	Service area		Terrain-limited		Interference-free	
Undesired station	Total interference		Unique interference			
WNUV D25 DT BL BALTIMORE, MD	28050.5	8,867,483	27098.3	8,704,025	26254.9	8,470,312
WDVM-TV D26 DT LIC HAGERSTOWN, MD	35.8	1,259	23.8	388	(0.00%)	
WWOR-TV D25 DT LIC SECAUCUS, NJ	32.3	3,739	8.1	268	(0.00%)	
KYW-TV D26 DT LIC PHILADELPHIA, PA	55.9	27,715	55.9	27,715	(0.32%)	
KDKA-TV D25 DT LIC PITTSBURGH, PA	40.2	4,839	4.0	101	(0.00%)	
WTVR-TV D25 DT LIC RICHMOND, VA	843.3	233,713	799.0	229,742	*	

* Considering Existing WNUV Predicted Service Cells

Desired station	Service area		Terrain-limited		Interference-free	
Undesired station	Total interference		Unique interference			
WNUV D40 DT LIC BALTIMORE, MD	28062.6	8,867,805	26961.5	8,667,390	26664.6	8,607,680
WUTB D41 DT LIC BALTIMORE, MD	52.1	2,972	52.1	2,972		
WJAL D39 DT LIC SILVER SPRING, MD	27.9	1,065	23.9	991		
WXTV-DT D40 DT LIC PATERSON, NJ	56.5	12,992	56.5	12,992		
WAHU-CD D40 DC LIC CHARLOTTESVILLE, VA	31.9	8,329	19.9	923		
WTKR D40 DT LIC NORFOLK, VA	140.6	41,758	132.6	34,426		
WTVR-TV D25 DT LIC RICHMOND, VA (to existing WNUV service cells)			582.2	160,018	(1.85%)	