

ENGINEERING EXHIBIT

Incentive Auction Channel Reassignment

Application for Minor Modification of Digital Television Station Construction Permit

prepared for

WNET

WLIW(DT) Garden City, NY
Facility ID 38336
Ch. 32 72 kW 496 m

WNET is the licensee of digital television station WLIW, Channel 21, Facility ID 38336, Garden City NY. Reassignment of WLIW from Channel 21 to Channel 32 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice* (“CCRPN”, DA 17-317, released April 13, 2017). A Construction Permit (“CP” file# 0000034431) authorizes WLIW to operate on Channel 32 at 71 kW effective radiated power (“ERP”) with a nondirectional antenna at 520 meters height above average terrain (“HAAT”). *WNET* proposes herein a minor modification of the reassignment CP to increase the ERP to 72 kW, reduce antenna HAAT to 496 meters, and change the nondirectional antenna model. No other changes are sought.

As with the current authorization, the proposed WLIW facility will employ one of the shared antenna systems which have been installed on the mast atop the One World Trade Center building (“1WTC”). The mast structure atop 1WTC is associated with FCC Antenna Structure Registration number 1263701. No change to the overall structure height will result.

The existing CP specifies the RFS PEP40E broadband UHF antenna which is located at the uppermost position on the rooftop mast and centered 526.1 meters above ground level (“AGL”). A separate broadband UHF antenna, RFS model PEP96L, is on a lower section of the mast and centered 24.4 meters below the PEP40E. Due to power handling capacity factors in combination with other UHF television stations that will be using the broadband UHF antennas post-repack, WLIW must utilize the PEP96L antenna for its main facility.

Therefore the modification proposed herein would reduce the WLIW antenna height slightly, to correspond to the PEP96L antenna as centered 501.7 meters AGL and 496 meters HAAT. The ERP is increased to 72 kW.

The nondirectional RFS PEP96L antenna will be configured for circular polarization for WLIW. That is, WLIW will employ 100 percent vertical polarization, such that the horizontally polarized ERP is 72 kW and the vertically polarized ERP is 72 kW.¹

Figure 1 supplies a map that demonstrates compliance with §73.625(a)(1) regarding coverage of the entire principal community. The proposed facility's predicted population exceeds 95 percent of the *CCRPN* baseline facility's population.

The presently authorized WLIW noise limited service contour ("NLSC") extends beyond that of the *CCRPN* facility and resulted from a minor modification application filed during the second filing window.² The modifications sought herein provide an NLSC which also exceeds that of the *CCRPN* facility but is within that of the present authorization. A comparison map of the WLIW authorized and proposed NLSC is provided as Figure 2. Therefore, the proposal complies with the FCC's NLSC expansion "freeze" Public Notice³ of April 5, 2013 (DA 13-618) to the extent it may be applicable to reassigned stations such as WLIW.

¹The proposed antenna provides for adjustable vertical polarization. The antenna provides separate inputs for horizontally polarized and vertically polarized radiators, which permits each of the television stations that share the antenna to individually choose how much vertical polarization to utilize.

²Public Notice "*Incentive Auction Task Force and Media Bureau Announce the Opening of the Second Filing Window for Eligible Full Power and Class A Television Station—October 3 Through November 2, 2017*" DA 17-911, released September 20, 2017.

³"*Media Bureau Announces Limitations on the Filing and Processing of Full Power and Class A Television Station Modification Applications, Effective Immediately, and Reminds Stations of Spectrum Act Preservation Mandate,*" DA 13-618, Public Notice, released April 5, 2013.

Interference study per FCC OET Bulletin 69⁴ shows that the proposal complies with the 0.5 percent limit of new interference caused to pertinent nearby post-auction full service and Class A television stations and reassignments as required by §73.616, except for WTXF-TV (CP, Ch. 31, file# 0000034830, Philadelphia PA) which does not represent a conflict for the proposed facility. FCC processing of this proposal is requested using a **0.5 km cell size and 0.2 km terrain profile increment**. The interference study output report is provided as Table 1. Note that the FCC Licensing and Management System database records for WPXN-TV file# 0000037694 (Ch. 31 New York NY), WCBS-TV file# 0000048556 (Ch. 33 New York NY) and WMPT baseline# 65942 (Ch. 31 Annapolis MD) are not relevant for post-repack analysis and must be excluded from the TVStudy analysis.

WTXF-TV's CP is an expansion facility which also came about from the second filing window and was granted on the same date as WLIW's CP (January 29, 2018). As shown in Table 2, the WLIW CP facility causes 1.89 percent existing interference to WTXF-TV. The modification proposed herein for WLIW reduces its unique interference to WTXF-TV to 1.88 percent. Thus, the proposal will not result in increased interference to WTXF-TV.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 15 percent antenna relative field in downward elevations (pattern data shows less than 15 percent relative field at angles 10 to 90 degrees below the antenna), the calculated signal density near the 1WTC building at two meters above ground level attributable to the proposed facility is $0.4 \mu\text{W}/\text{cm}^2$, which is 0.1 percent of the general population / uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b)(3) regarding sites with multiple emitters, categorically excluding the applicant

⁴FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004. This analysis employed the FCC's current "TVStudy" software with the default application processing template settings, 0.5 km cell size, and 0.2 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC's implementation of TVStudy show excellent correlation.

from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

Access to the 1WTC rooftop, antenna support structure, and any areas within the building that may exceed exposure limits will be strictly controlled by the building owner. *WNET* will participate in the building's RF exposure safety program along with other broadcasters and FCC licensees that may utilize the 1WTC as a transmission site. As necessary, based on calculations or actual measurements considering all emitters, exposure abatement procedures will be established. The RF safety program will be employed protecting maintenance and installation workers from excessive exposure when work must be performed in locations where high RF levels may be present. Such areas will be placed under strict restricted access and properly identified.

The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. The applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, mast or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field.

List of Attachments

Figure 1	Proposed Coverage Contours
Figure 2	Coverage Contour Comparison
Table 1	TVStudy Analysis of Proposal
Table 2	Interference Study Details Regarding WTXF-TV
Form 2100	Saved Version of Engineering Sections of FCC Form at Time of Upload

Chesapeake RF Consultants, LLC

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Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

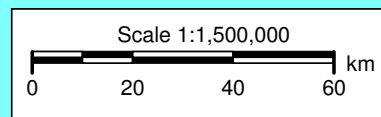
Figure 1
Proposed Coverage Contours
WLIW(DT) Garden City, NY
Facility ID 38336
Ch. 32 72 kW 496 m

prepared for
WNET

June, 2019

Proposed WLIW
48 dBu
(Principal Community)
41 dBu
(Noise Limited Service Contour)

Proposed Digital Coverage	Area (sq. km)	Population (2010 Census)
Within Noise Limited Service Contour	25,624.3	19,921,588
OET Bulletin 69: TVStudy		
Within noise limited contour	26,247.3	20,039,260
Not affected by terrain losses	24,783.8	19,745,597
Lost to all interference	797.2	151,156
Net Interference-Free Service	23,986.6	19,594,441





Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 2
Coverage Contour Comparison
WLIW(DT) Garden City, NY
Facility ID 38336
Ch. 32 72 kW 496 m

prepared for
WNET

June, 2019

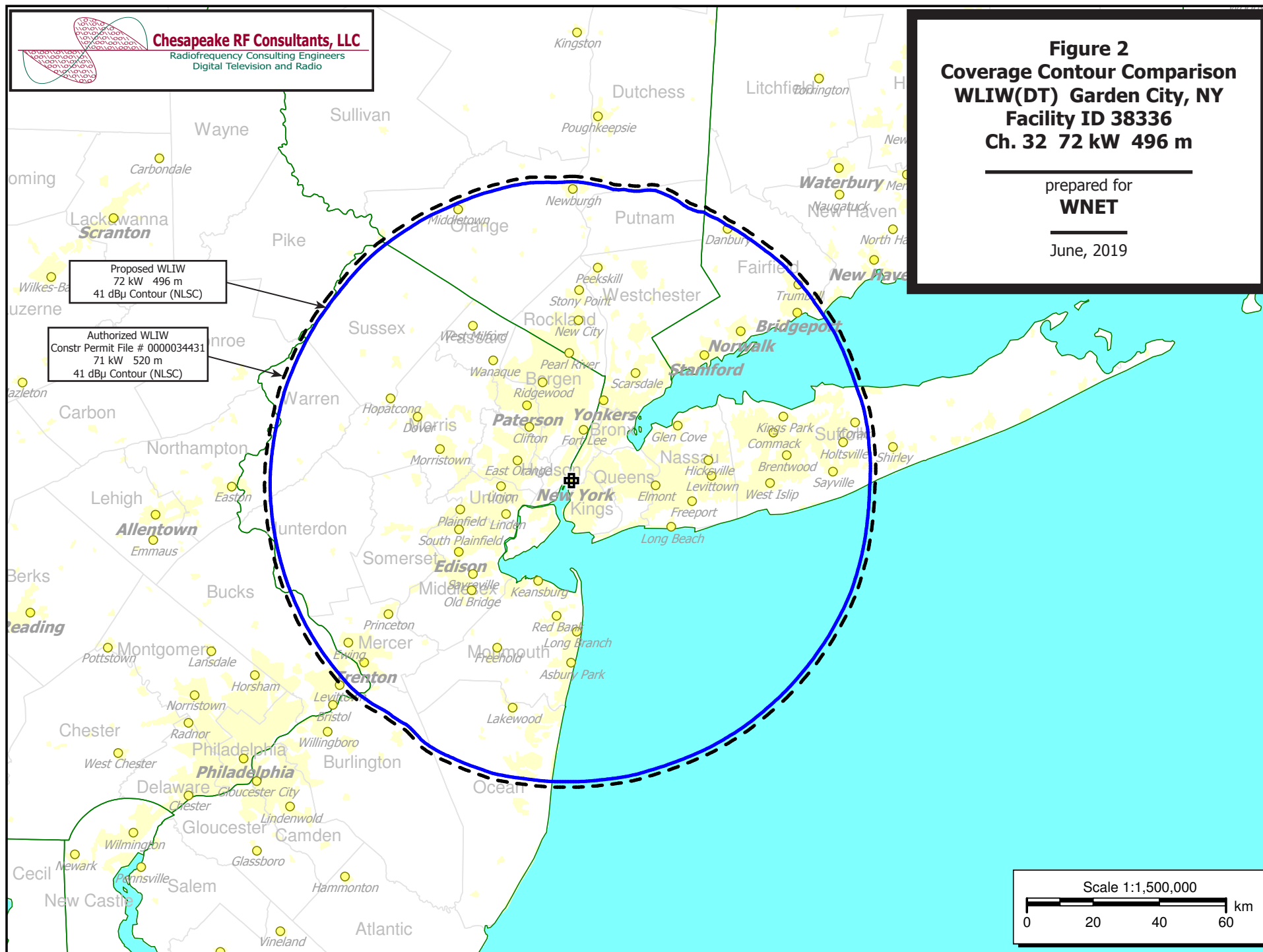


Table 1 WLIW TVStudy Analysis of Proposal (page 1 of 10)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WLIW PEP96 72kW 0.5-0.2, Model: Longley-Rice
Start: 2019.06.06 12:08:43

Study created: 2019.06.06 12:01:23

Study build station data: LMS TV 2019-06-06

Proposal: WLIW D32 DT APP GARDEN CITY, NY
File number: WLIW PEP96 72kW
Facility ID: 38336
Station data: User record
Record ID: 2734
Country: U.S.
Zone: I

Search options:
Baseline record excluded if station has CP

Individual records excluded:
0000037694 WPXN-TV D31 DT LIC NEW YORK, NY BLANK0000037694
0000048556 WCBX-TV D33 DT LIC NEW YORK, NY BLANK0000048556
65942 WMPT D31 DT BL ANNAPOLIS, MD DTVBL65942

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000034341	147.7 km
Yes	WVIT	D31	DT	APP	NEW BRITAIN, CT	BLANK0000074279	147.7
No	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	220.0
Yes	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	127.9
Yes	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	291.4
No	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	282.3
No	WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	295.2
No	WTKO-CD	D32	DC	APP	ONEIDA, NY	BLANK0000074509	295.2
Yes	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	244.7
No	WETK	D32	DT	LIC	BURLINGTON, VT	BLEDT20061011ADW	435.0
Yes	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	147.9
Yes	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	128.0
No	WQFX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	164.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D32
Latitude: 40 42 46.80 N (NAD83)
Longitude: 74 0 47.30 W
Height AMSL: 506.0 m
HAAT: 495.6 m
Peak ERP: 72.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.00

40.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	72.0 kW	489.4 m	91.0 km
45.0	72.0	503.4	92.0
90.0	72.0	486.3	90.7
135.0	72.0	493.3	91.2
180.0	72.0	497.2	91.5
225.0	72.0	499.8	91.7
270.0	72.0	499.3	91.7
315.0	72.0	495.7	91.4

Distance to Canadian border: 397.2 km

Distance to Mexican border: 2670.8 km

Conditions at FCC monitoring station: Laurel MD

Table 1 WLIW TVStudy Analysis of Proposal
(page 2 of 10)



Bearing: 235.2 degrees Distance: 294.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 279.0 degrees Distance: 2627.4 km

Study cell size: 0.50 km
Profile point spacing: 0.20 km

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

Interference to BLANK0000034341 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000034341	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	113.8 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	147.7
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	0.3
	WCSH	D31	DT	CP	PORTLAND, ME	BLANK0000034813	295.7
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	260.8
	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	191.7
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	273.8
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	148.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32908.8 5,858,875	30137.7 5,407,674	29574.3 5,297,701	29533.9 5,284,251	0.14 0.25

Undesired	Total IX	Unique IX, before	Unique IX, after
WLIW D32 DT BL	28.1 25,816	15.5 17,721	
WLIW D32 DT APP	99.3 63,750		55.8 31,171
WEDH D30 DT CP	34.7 2,230	34.0 2,230	34.0 2,230
WCSH D31 DT CP	243.5 31,234	159.5 16,502	159.5 16,502
WSKG-TV D31 DT CP	3.0 567	0.8 0	0.8 0
WNCE-CD D31 DC LIC	55.6 4,282	39.9 2,225	39.9 2,225
WTFX-TV D31 DT CP	140.8 47,713	111.7 36,994	81.3 12,510
WGBX-TV D32 DT CP	171.8 23,582	88.5 8,850	88.5 8,850

Interference to BLANK0000074279 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVIT	D31	DT	APP	NEW BRITAIN, CT	BLANK0000074279	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	113.8 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	147.7
	WEDH	D30	DT	CP	HARTFORD, CT	BLANK0000034543	0.3
	WCSH	D31	DT	CP	PORTLAND, ME	BLANK0000034813	295.7
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	260.8
	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	191.7
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	273.8
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	148.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32908.8 5,858,875	30137.7 5,407,674	29574.3 5,297,701	29533.9 5,284,251	0.14 0.25

Undesired	Total IX	Unique IX, before	Unique IX, after
WLIW D32 DT BL	28.1 25,816	15.5 17,721	
WLIW D32 DT APP	99.3 63,750		55.8 31,171
WEDH D30 DT CP	34.7 2,230	34.0 2,230	34.0 2,230
WCSH D31 DT CP	243.5 31,234	159.5 16,502	159.5 16,502
WSKG-TV D31 DT CP	3.0 567	0.8 0	0.8 0
WNCE-CD D31 DC LIC	55.6 4,282	39.9 2,225	39.9 2,225
WTFX-TV D31 DT CP	140.8 47,713	111.7 36,994	81.3 12,510
WGBX-TV D32 DT CP	171.8 23,582	88.5 8,850	88.5 8,850

Table 1 WLIW TVStudy Analysis of Proposal
(page 3 of 10)



Interference to BLANK0000034830 CP scenario 1

****IX: 1.88% interference caused**

See text and Table 2: interference to WTXF-TV is decreased

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTXF-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	172.5 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	127.9
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	0.4
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000034341	273.8
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	199.0
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	232.3
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	277.9
	WHRO-TV	D31	DT	CP	HAMPTON-NORFOLK, VA	BLANK0000026987	375.7
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	174.2
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
32648.1 10,824,985		30671.0 10,381,795		27449.6 9,597,089		27287.9 9,416,870	0.59 1.88
Undesired		Total IX		Unique IX, before		Unique IX, after	
WLIW D32 DT BL		0.0 0		0.0 0			
WLIW D32 DT APP		484.7 379,271				161.7 180,219	
KYW-TV D30 DT CP		120.3 20,134		105.2 16,875		105.2 16,875	
WVIT D31 DT CP		402.7 178,904		48.0 21,272		22.1 5,288	
WETA-TV D31 DT CP		2817.2 688,283		2072.9 406,331		1952.0 329,141	
WSKG-TV D31 DT CP		2.9 585		0.0 0		0.0 0	
WATM-TV D31 DT CP		429.3 126,944		80.6 25,965		80.6 25,965	
WHRO-TV D31 DT CP		5.2 0		0.0 0		0.0 0	
WBOC-TV D32 DT CP		3.7 11		0.0 0		0.0 0	
WHP-TV D32 DT CP		402.2 124,693		121.7 20,065		121.7 20,065	

Interference to BLANK0000034830 CP scenario 2

****IX: 1.88% interference caused**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTXF-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	172.5 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	127.9
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	0.4
	WVIT	D31	DT	APP	NEW BRITAIN, CT	BLANK0000074279	273.8
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	199.0
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	232.3
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	277.9
	WHRO-TV	D31	DT	CP	HAMPTON-NORFOLK, VA	BLANK0000026987	375.7
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	174.2
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
32648.1 10,824,985		30671.0 10,381,795		27449.6 9,597,089		27287.9 9,416,870	0.59 1.88
Undesired		Total IX		Unique IX, before		Unique IX, after	
WLIW D32 DT BL		0.0 0		0.0 0			
WLIW D32 DT APP		484.7 379,271				161.7 180,219	
KYW-TV D30 DT CP		120.3 20,134		105.2 16,875		105.2 16,875	
WVIT D31 DT APP		402.7 178,904		48.0 21,272		22.1 5,288	
WETA-TV D31 DT CP		2817.2 688,283		2072.9 406,331		1952.0 329,141	
WSKG-TV D31 DT CP		2.9 585		0.0 0		0.0 0	
WATM-TV D31 DT CP		429.3 126,944		80.6 25,965		80.6 25,965	
WHRO-TV D31 DT CP		5.2 0		0.0 0		0.0 0	
WBOC-TV D32 DT CP		3.7 11		0.0 0		0.0 0	
WHP-TV D32 DT CP		402.2 124,693		121.7 20,065		121.7 20,065	

Interference to BLANK0000073038 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	

Table 1 WLIW TVStudy Analysis of Proposal
(page 4 of 10)

Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	250.1	km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	291.4	
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000034341	148.2	
	WCSH	D31	DT	CP	PORTLAND, ME	BLANK0000034813	177.3	
	WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	371.6	
	WETK	D32	DT	LIC	BURLINGTON, VT	BLEDT20061011ADW	277.2	
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	148.0	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
34907.6	7,799,018	33290.9	7,640,843	33097.3	7,619,589	33113.4	7,620,696	-0.05 -0.01
Undesired		Total IX		Unique IX, before		Unique IX, after		
WLIW D32 DT BL	64.4	5,363	45.7	2,931				
WLIW D32 DT APP	46.0	3,783				29.6	1,824	
WVIT D31 DT CP	64.1	8,945	3.7	42		3.7	7	
WCSH D31 DT CP	24.0	362	23.3	362		23.3	362	
WETK D32 DT LIC	37.4	2,631	35.1	2,631		34.7	2,624	
WCCT-TV D33 DT CP	84.8	15,288	20.2	5,874		20.5	6,172	
Interference to BLANK0000073038 CP scenario 2								
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038		
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	250.1	km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	291.4	
	WVIT	D31	DT	APP	NEW BRITAIN, CT	BLANK0000074279	148.2	
	WCSH	D31	DT	CP	PORTLAND, ME	BLANK0000034813	177.3	
	WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	371.6	
	WETK	D32	DT	LIC	BURLINGTON, VT	BLEDT20061011ADW	277.2	
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	148.0	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
34907.6	7,799,018	33290.9	7,640,843	33097.3	7,619,589	33113.4	7,620,696	-0.05 -0.01
Undesired		Total IX		Unique IX, before		Unique IX, after		
WLIW D32 DT BL	64.4	5,363	45.7	2,931				
WLIW D32 DT APP	46.0	3,783				29.6	1,824	
WVIT D31 DT APP	64.1	8,945	3.7	42		3.7	7	
WCSH D31 DT CP	24.0	362	23.3	362		23.3	362	
WETK D32 DT LIC	37.4	2,631	35.1	2,631		34.7	2,624	
WCCT-TV D33 DT CP	84.8	15,288	20.2	5,874		20.5	6,172	
Interference to BLANK0000072963 CP scenario 1								
Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963		
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	292.7	km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	244.7	
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1	
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5	
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	142.5	
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0	
	WNLO	D32	DT	APP	BUFFALO, NY	BLANK0000036123	343.4	
	WUTV	D32	DT	APP	BUFFALO, NY	BLANK0000064271	343.4	
	WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	318.4	
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9	
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8	
	WHUT-TV	D33	DT	APP	WASHINGTON, DC	BLANK0000035679	156.1	
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2	
	WQFX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	154.6	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
33664.8	4,025,243	29731.5	3,512,233	28671.4	3,242,365	28658.9	3,239,749	0.04 0.08
Undesired		Total IX		Unique IX, before		Unique IX, after		
WLIW D32 DT BL	27.9	8,342	5.4	1,461				
WLIW D32 DT APP	82.1	19,077				17.9	4,077	
WETA-TV D31 DT CP	79.2	43,778	11.4	3,675		11.4	3,675	
WATM-TV D31 DT CP	22.3	858	22.1	858		22.1	858	

Table 1 WLIW TVStudy Analysis of Proposal
(page 5 of 10)

WTFX-TV D31 DT CP	147.3	46,548	2.0	45	2.2	45
WBOC-TV D32 DT CP	751.0	189,534	514.8	111,472	502.2	109,607
WNLO D32 DT APP	2.4	0	0.0	0	0.0	0
WUTV D32 DT APP	2.4	0	0.0	0	0.0	0
WCAV D32 DT CP	158.7	34,047	115.6	21,446	115.4	21,446
WPXV-TV D32 DT CP	35.4	22,860	2.7	2,533	2.0	2,134
WHUT-TV D33 DT APP	51.5	30,695	0.0	0	0.0	0
WPSG D33 DT CP	269.8	74,004	73.5	16,783	71.3	16,139
WQFX-TV D33 DT CP	5.8	31	4.6	31	4.6	31

Interference to BLANK0000072963 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	292.7 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	244.7
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	142.5
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0
	WNLO	D32	DT	APP	BUFFALO, NY	BLANK0000036123	343.4
	WUTV	D32	DT	APP	BUFFALO, NY	BLANK0000064271	343.4
	WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	318.4
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8
	WHUT-TV	D33	DT	LIC	WASHINGTON, DC	BLEDT20071018AIJ	156.1
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2
	WQFX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	154.6

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	33664.8	4,025,243	29731.5	3,512,233	28671.4	3,242,365	0.04 0.08

Undesired	Total IX	Unique IX, before	Unique IX, after
WLIW D32 DT BL	27.9	8,342	5.4 1,461
WLIW D32 DT APP	82.1	19,077	17.9 4,077
WETA-TV D31 DT CP	79.2	43,778	15.6 5,505
WATM-TV D31 DT CP	22.3	858	22.1 858
WTFX-TV D31 DT CP	147.3	46,548	2.0 45
WBOC-TV D32 DT CP	751.0	189,534	514.8 111,472
WNLO D32 DT APP	2.4	0	0.0 0
WUTV D32 DT APP	2.4	0	0.0 0
WCAV D32 DT CP	158.7	34,047	115.6 21,446
WPXV-TV D32 DT CP	35.4	22,860	2.7 2,533
WHUT-TV D33 DT LIC	25.7	14,517	0.0 0
WPSG D33 DT CP	269.8	74,004	73.5 16,783
WQFX-TV D33 DT CP	5.8	31	4.6 31

Interference to BLANK0000072963 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	292.7 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	244.7
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	142.5
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0
	WNLO	D32	DT	APP	BUFFALO, NY	BLANK0000036123	343.4
	WUTV	D32	DT	APP	BUFFALO, NY	BLANK0000064271	343.4
	WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	318.4
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8
	WHUT-TV	D33	DT	CP	WASHINGTON, DC	BPEDT20120627AAD	156.1
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2
	WQFX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	154.6

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	33664.8	4,025,243	29731.5	3,512,233	28660.7	3,240,332	0.04 0.08

Table 1 WLIW TVStudy Analysis of Proposal
(page 6 of 10)



Undesired		Total IX	Unique IX, before	Unique IX, after
WLIW D32 DT BL	27.9	8,342	5.4	1,461
WLIW D32 DT APP	82.1	19,077		17.9 4,077
WETA-TV D31 DT CP	79.2	43,778	0.0	0 0
WATM-TV D31 DT CP	22.3	858	22.1	858
WTXF-TV D31 DT CP	147.3	46,548	2.0	45
WBOC-TV D32 DT CP	751.0	189,534	506.9	110,750 494.3 108,885
WNLO D32 DT APP	2.4	0	0.0	0 0
WUTV D32 DT APP	2.4	0	0.0	0 0
WCAV D32 DT CP	158.7	34,047	115.6	21,446
WPXV-TV D32 DT CP	35.4	22,860	2.0	633
WHUT-TV D33 DT CP	100.2	49,458	10.6	2,033
WPSG D33 DT CP	269.8	74,004	73.5	16,783
WQPX-TV D33 DT CP	5.8	31	4.6	31

Interference to BLANK0000072963 CP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	292.7 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	244.7
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5
	WTXF-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	142.5
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0
	WNLO	D32	DT	LIC	BUFFALO, NY	BLANK0000053502	343.6
	WUTV	D32	DT	APP	BUFFALO, NY	BLANK0000064271	343.4
	WTKO-CD	D32	DT	CP	ONEIDA, NY	BLANK0000034943	318.4
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8
	WHUT-TV	D33	DT	APP	WASHINGTON, DC	BLANK0000035679	156.1
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2
	WQPX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	154.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
33664.8 4,025,243	29731.5 3,512,233	28670.1 3,242,365	28657.6 3,239,749	0.04 0.08

Undesired		Total IX	Unique IX, before	Unique IX, after
WLIW D32 DT BL	27.9	8,342	5.4	1,461
WLIW D32 DT APP	82.1	19,077		17.9 4,077
WETA-TV D31 DT CP	79.2	43,778	11.4	3,675
WATM-TV D31 DT CP	22.3	858	22.1	858
WTXF-TV D31 DT CP	147.3	46,548	2.0	45
WBOC-TV D32 DT CP	751.0	189,534	514.8	111,472 502.2 109,607
WNLO D32 DT LIC	3.2	0	1.2	0
WUTV D32 DT APP	2.4	0	0.5	0
WCAV D32 DT CP	158.7	34,047	115.6	21,446
WPXV-TV D32 DT CP	35.4	22,860	2.7	2,533
WHUT-TV D33 DT APP	51.5	30,695	0.0	0
WPSG D33 DT CP	269.8	74,004	73.5	16,783
WQPX-TV D33 DT CP	5.8	31	4.6	31

Interference to BLANK0000072963 CP scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	292.7 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	244.7
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5
	WTXF-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	142.5
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0
	WNLO	D32	DT	LIC	BUFFALO, NY	BLANK0000053502	343.6
	WUTV	D32	DT	APP	BUFFALO, NY	BLANK0000064271	343.4
	WTKO-CD	D32	DT	CP	ONEIDA, NY	BLANK0000034943	318.4
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8
	WHUT-TV	D33	DT	LIC	WASHINGTON, DC	BLEDT20071018AIJ	156.1
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2

Table 1 WLIW TVStudy Analysis of Proposal
(page 7 of 10)



WQPX-TV		D33	DT	CP	SCRANTON, PA		BLANK0000068029		154.6	
Service area		Terrain-limited			IX-free, before		IX-free, after		Percent New IX	
33664.8	4,025,243	29731.5	3,512,233		28670.1	3,242,365	28657.6	3,239,749	0.04	0.08
Undesired				Total IX	Unique IX, before		Unique IX, after			
WLIW D32 DT BL		27.9	8,342		5.4	1,461				
WLIW D32 DT APP		82.1	19,077				17.9	4,077		
WETA-TV D31 DT CP		79.2	43,778		15.6	5,505	15.6	5,505		
WATM-TV D31 DT CP		22.3	858		22.1	858	22.1	858		
WTFX-TV D31 DT CP		147.3	46,548		2.0	45	2.2	45		
WBOC-TV D32 DT CP		751.0	189,534		514.8	111,472	502.2	109,607		
WNLO D32 DT LIC		3.2	0		1.2	0	1.2	0		
WUTV D32 DT APP		2.4	0		0.5	0	0.5	0		
WCAV D32 DT CP		158.7	34,047		115.6	21,446	115.4	21,446		
WPXV-TV D32 DT CP		35.4	22,860		2.7	2,533	2.0	2,134		
WHUT-TV D33 DT LIC		25.7	14,517		0.0	0	0.0	0		
WPSG D33 DT CP		269.8	74,004		73.5	16,783	71.3	16,139		
WQPX-TV D33 DT CP		5.8	31		4.6	31	4.6	31		

Interference to BLANK0000072963 CP scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	292.7 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	244.7
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	156.1
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	135.5
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	142.5
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	230.0
	WNLO	D32	DT	LIC	BUFFALO, NY	BLANK0000053502	343.6
	WUTV	D32	DT	APP	BUFFALO, NY	BLANK0000064271	343.4
	WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	318.4
	WCAV	D32	DT	CP	CHARLOTTESVILLE, VA	BLANK0000034188	296.9
	WPXV-TV	D32	DT	CP	NORFOLK, VA	BLANK0000068420	393.8
	WHUT-TV	D33	DT	CP	WASHINGTON, DC	BPEDT20120627AAD	156.1
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	142.2
	WQPX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	154.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33664.8	4,025,243	29731.5	3,512,233	28659.5	3,240,332	28647.0	3,237,716	0.04	0.08
Undesired		Total IX		Unique IX, before		Unique IX, after			
WLIW D32 DT BL	27.9	8,342	5.4	1,461					
WLIW D32 DT APP	82.1	19,077				17.9	4,077		
WETA-TV D31 DT CP	79.2	43,778	0.0	0		0.0	0		
WATM-TV D31 DT CP	22.3	858	22.1	858		22.1	858		
WTFX-TV D31 DT CP	147.3	46,548	2.0	45		2.2	45		
WBOC-TV D32 DT CP	751.0	189,534	506.9	110,750		494.3	108,885		
WNLO D32 DT LIC	3.2	0	1.2	0		1.2	0		
WUTV D32 DT APP	2.4	0	0.5	0		0.5	0		
WCAV D32 DT CP	158.7	34,047	115.6	21,446		115.4	21,446		
WPXV-TV D32 DT CP	35.4	22,860	2.0	633		1.5	633		
WHUT-TV D33 DT CP	100.2	49,458	10.6	2,033		10.6	2,033		
WPSG D33 DT CP	269.8	74,004	73.5	16,783		71.3	16,139		
WQPX-TV D33 DT CP	5.8	31	4.6	31		4.6	31		

Interference to BLANK0000034241 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	114.1 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	147.9
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	148.0
	WCVB-TV	D33	DT	CP	BOSTON, MA	BLANK0000034567	148.0
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	274.1
	WQPX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	242.5
	WFXR	D34	DT	CP	BOSTON, MA	BLANK0000034907	149.0
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	147.9

Table 1 WLIW TVStudy Analysis of Proposal
(page 8 of 10)



Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32772.8 5,829,594	29909.9 5,368,439	27491.4 4,949,065	27491.7 4,949,672	-0.00 -0.01
Undesired	Total IX	Unique IX, before	Unique IX, after	
WLIW D32 DT BL	9.4 11,906	0.2 607		
WLIW D32 DT APP	63.5 45,673		0.0 0	
WGBX-TV D32 DT CP	152.8 21,878	0.0 0	0.0 0	
WCVB-TV D33 DT CP	2319.5 400,205	1835.1 262,775	1837.7 266,533	
WPSG D33 DT CP	258.7 95,217	23.6 3,671	24.3 3,786	
WQFX-TV D33 DT CP	121.2 23,145	30.4 1,996	30.4 1,996	
WFXT D34 DT CP	139.8 21,171	5.0 583	5.0 583	
WPXN-TV D34 DT CP	182.1 85,970	11.0 3,176	9.5 2,417	

Interference to BLANK0000034323 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	172.7 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	128.0
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.2
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	274.1
	WHUT-TV	D33	DT	APP	WASHINGTON, DC	BLANK0000035679	198.9
	WQFX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	160.1
	WTVZ-TV	D33	DT	LIC	NORFOLK, VA	BLCDT20090602ABA	375.8
	WRC-TV	D34	DT	APP	WASHINGTON, DC	BLANK0000074275	199.8
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	0.2
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	128.0
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	160.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32015.3 10,808,508	31014.9 10,509,110	29551.3 10,017,987	29551.3 10,017,987	0.00 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
WLIW D32 DT BL	0.0 0	0.0 0		
WLIW D32 DT APP	217.4 163,218		0.0 0	
WHP-TV D32 DT CP	269.4 79,009	231.9 67,786	231.9 67,786	
WCCT-TV D33 DT CP	138.5 98,713	26.5 9,682	26.5 9,682	
WHUT-TV D33 DT APP	769.6 117,624	680.5 74,154	680.5 74,154	
WQFX-TV D33 DT CP	33.2 25,637	9.3 10,945	9.3 10,945	
WTVZ-TV D33 DT LIC	1.0 0	0.0 0	0.0 0	
WPPX-TV D34 DT CP	0.2 0	0.2 0	0.2 0	
WPXN-TV D34 DT CP	449.0 302,720	356.7 224,665	226.8 137,657	

Interference to BLANK0000034323 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	172.7 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	128.0
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.2
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	274.1
	WHUT-TV	D33	DT	LIC	WASHINGTON, DC	BLEDT20071018AIJ	198.9
	WQFX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	160.1
	WTVZ-TV	D33	DT	LIC	NORFOLK, VA	BLCDT20090602ABA	375.8
	WRC-TV	D34	DT	APP	WASHINGTON, DC	BLANK0000074275	199.8
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	0.2
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	128.0
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	160.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32015.3 10,808,508	31014.9 10,509,110	29797.0 10,041,261	29797.0 10,041,261	0.00 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
WLIW D32 DT BL	0.0 0	0.0 0		
WLIW D32 DT APP	217.4 163,218		0.0 0	
WHP-TV D32 DT CP	269.4 79,009	251.0 74,452	251.0 74,452	
WCCT-TV D33 DT CP	138.5 98,713	36.9 15,640	36.9 15,640	
WHUT-TV D33 DT LIC	470.7 64,646	434.8 50,880	434.8 50,880	

Table 1 WLIW TVStudy Analysis of Proposal
(page 9 of 10)



WQFX-TV D33 DT CP	33.2	25,637	10.2	11,531	10.2	11,531
WTVZ-TV D33 DT LIC	1.0	0	0.0	0	0.0	0
WPPX-TV D34 DT CP	0.2	0	0.2	0	0.2	0
WPXN-TV D34 DT CP	449.0	302,720	360.3	226,147	227.2	137,725

Interference to BLANK0000034323 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	172.7 km
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	128.0
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.2
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	274.1
	WHUT-TV	D33	DT	CP	WASHINGTON, DC	BPEDT20120627AAD	198.9
	WQFX-TV	D33	DT	CP	SCRANTON, PA	BLANK0000068029	160.1
	WTVZ-TV	D33	DT	LIC	NORFOLK, VA	BLCDT20090602ABA	375.8
	WRC-TV	D34	DT	APP	WASHINGTON, DC	BLANK0000074275	199.8
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	0.2
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	128.0
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	160.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
32015.3 10,808,508		31014.9 10,509,110		29034.2 9,926,647		29034.2 9,926,647	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WLIW D32 DT BL		0.0 0		0.0 0			
WLIW D32 DT APP		217.4 163,218				0.0 0	
WHP-TV D32 DT CP		269.4 79,009		140.9 34,378		140.9 34,378	
WCCT-TV D33 DT CP		138.5 98,713		10.7 5,522		10.7 5,522	
WHUT-TV D33 DT CP		1490.3 324,815		1197.7 165,494		1197.7 165,494	
WQFX-TV D33 DT CP		33.2 25,637		5.8 2,503		5.8 2,503	
WTVZ-TV D33 DT LIC		1.0 0		0.0 0		0.0 0	
WPPX-TV D34 DT CP		0.2 0		0.2 0		0.2 0	
WPXN-TV D34 DT CP		449.0 302,720		315.0 202,788		220.9 135,919	

Interference to proposal scenario 1
0.77% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	
Undesireds:	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000034341	147.7 km
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	127.9
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	291.4
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	282.3
	WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	295.2
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	244.7
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	147.9
	WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	128.0
Service area		Terrain-limited		IX-free		Percent IX	
26247.3 20,039,260		24783.8 19,745,597		23986.6 19,594,441		3.22 0.77	
Undesired		Total IX		Unique IX		Prct Unique IX	
WVIT D31 DT CP		19.0 5,176		0.2 403		0.00 0.00	
WTFX-TV D31 DT CP		184.7 25,144		3.7 403		0.01 0.00	
WGBX-TV D32 DT CP		80.3 35,158		44.4 25,257		0.18 0.13	
WBOC-TV D32 DT CP		80.4 7,284		11.4 1,996		0.05 0.01	
WHP-TV D32 DT CP		314.8 36,087		153.5 21,520		0.62 0.11	
WCCT-TV D33 DT CP		27.6 10,012		4.2 2,434		0.02 0.01	
WPSG D33 DT CP		527.2 86,739		289.5 59,386		1.17 0.30	

Interference to proposal scenario 2
**MX: 0.77% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	
Undesireds:	WVIT	D31	DT	APP	NEW BRITAIN, CT	BLANK0000074279	147.7 km

Table 1 WLIW TVStudy Analysis of Proposal
(page 10 of 10)



WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	127.9
WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	291.4
WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	282.3
WTKO-CD	D32	DC	CP	ONEIDA, NY	BLANK0000034943	295.2
WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	244.7
WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	147.9
WPSG	D33	DT	CP	PHILADELPHIA, PA	BLANK0000034323	128.0

Service area	Terrain-limited		IX-free		Percent IX	
26247.3 20,039,260	24783.8	19,745,597	23986.6	19,594,441	3.22	0.77

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WVIT D31 DT APP	19.0	5,176	0.2	403	0.00	0.00
WTFX-TV D31 DT CP	184.7	25,144	3.7	403	0.01	0.00
WGBX-TV D32 DT CP	80.3	35,158	44.4	25,257	0.18	0.13
WBOC-TV D32 DT CP	80.4	7,284	11.4	1,996	0.05	0.01
WHP-TV D32 DT CP	314.8	36,087	153.5	21,520	0.62	0.11
WCCT-TV D33 DT CP	27.6	10,012	4.2	2,434	0.02	0.01
WPSG D33 DT CP	527.2	86,739	289.5	59,386	1.17	0.30



Desired:	Call WTXF-TV	Chan D31	Svc DT	Status CP	City, State PHILADELPHIA, PA	File Number BLANK0000034830	Distance		
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	172.5 km		
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000034431	127.9		
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	0.4		
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000034341	273.8		
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	199.0		
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	232.3		
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	277.9		
	WHRO-TV	D31	DT	CP	HAMPTON-NORFOLK, VA	BLANK0000026987	375.7		
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	174.2		
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.5		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32648.1	10,824,985	30671.0	10,381,795	27449.6	9,597,089	27285.5	9,416,129	0.60	1.89
Undesired				Total IX	Unique IX, before		Unique IX, after		
WLIW D32	DT	BL	0.0	0	0.0	0			
WLIW D32	DT	CP	507.9	390,108			164.2	180,960	
KYW-TV D30	DT	CP	120.3	20,134	105.2	16,875	105.2	16,875	
WVIT D31	DT	CP	402.7	178,904	48.0	21,272	20.9	4,773	
WETA-TV D31	DT	CP	2817.2	688,283	2072.9	406,331	1939.3	324,537	
WSKG-TV D31	DT	CP	2.9	585	0.0	0	0.0	0	
WATM-TV D31	DT	CP	429.3	126,944	80.6	25,965	80.6	25,965	
WHRO-TV D31	DT	CP	5.2	0	0.0	0	0.0	0	
WBOC-TV D32	DT	CP	3.7	11	0.0	0	0.0	0	
WHP-TV D32	DT	CP	402.2	124,693	121.7	20,065	121.7	20,065	



Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WTXF-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830		
Undesireds:	WLIW	D32	DT	BL	GARDEN CITY, NY	DTVBL38336	172.5 km	
	WLIW	D32	DT	APP	GARDEN CITY, NY	WLIW PEP96 72kW	127.9	
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	0.4	
	WVIT	D31	DT	CP	NEW BRITAIN, CT	BLANK0000034341	273.8	
	WETA-TV	D31	DT	CP	WASHINGTON, DC	BLANK0000029879	199.0	
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	232.3	
	WATM-TV	D31	DT	CP	ALTOONA, PA	BLANK0000028661	277.9	
	WHRO-TV	D31	DT	CP	HAMPTON-NORFOLK, VA	BLANK0000026987	375.7	
	WBOC-TV	D32	DT	CP	SALISBURY, MD	BLANK0000033790	174.2	
	WHP-TV	D32	DT	CP	HARRISBURG, PA	BLANK0000072963	142.5	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
32648.1	10,824,985	30671.0	10,381,795	27449.6	9,597,089	27287.9	9,416,870	0.59
Undesired		Total IX		Unique IX, before		Unique IX, after		
WLIW D32 DT BL		0.0	0	0.0	0			
WLIW D32 DT APP		484.7	379,271			161.7	180,219	
KYW-TV D30 DT CP		120.3	20,134	105.2	16,875	105.2	16,875	
WVIT D31 DT CP		402.7	178,904	48.0	21,272	22.1	5,288	
WETA-TV D31 DT CP		2817.2	688,283	2072.9	406,331	1952.0	329,141	
WSKG-TV D31 DT CP		2.9	585	0.0	0	0.0	0	
WATM-TV D31 DT CP		429.3	126,944	80.6	25,965	80.6	25,965	
WHRO-TV D31 DT CP		5.2	0	0.0	0	0.0	0	
WBOC-TV D32 DT CP		3.7	11	0.0	0	0.0	0	
WHP-TV D32 DT CP		402.2	124,693	121.7	20,065	121.7	20,065	

Channel and Facility Information

Section	Question	Response
Proposed Community of License	Facility ID	38336
	State	New York
	City	GARDEN CITY
	DTV Channel	32
	Designated Market Area	NEW YORK
Facility Type	Facility Type	Noncommercial Educational
	Station Type	Main
Zone	Zone	1

Antenna Location Data

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1263701
Coordinates (NAD83)	Latitude	40° 42' 46.8" N+
	Longitude	074° 00' 47.3" W-
	Structure Type	BTWR-Building with TOWER /ANTENNA on top
	Overall Structure Height	546.2 meters
	Support Structure Height	406.8 meters
	Ground Elevation (AMSL)	4.3 meters
Antenna Data	Height of Radiation Center Above Ground Level	501.7 meters
	Height of Radiation Center Above Average Terrain	495.6 meters
	Height of Radiation Center Above Mean Sea Level	506.0 meters
	Effective Radiated Power	72 kW

Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	RFS
	Model	PEP96E
	Rotation	
	Electrical Beam Tilt	1
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Circular
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	