

LP NYACK LIMITED PARTNERSHIP  
FCC FORM 301-CA  
AMENDMENT TO SECTION III

LP Nyack Limited Partnership seeks to amend Section III of its pending modification application for WRNN-LP, Nyack New York (File No. BPTTA-20020228ADF).

## ENVIRONMENTAL CONSIDERATIONS

LP Nyack Limited Partnership  
WRNN-LP (CA) Nyack, New York  
Facility ID 38945

The instant proposal is not believed to have a significant environmental impact as defined under Section 1.1306 of the Commission's Rules. Consequently, preparation of an Environmental Assessment is not required.

### **Nature of The Proposal**

*LP Nyack Limited Partnership ("LNLN")* is the licensee of WRNN-LP Channel 57, Nyack, New York (file number BLTTA-20010601AFV) and permittee of Channel 35. *LNLN* herein proposes to modify WRNN-LP to change from Channel 35 with an ERP of 0.8 kW to Channel 46 with an ERP of 2.5 kW while using the same directional antenna pattern and mounting location on an existing support structure with no increase in overall height.

The proposed WRNN-LP antenna system will be mounted on an authorized antenna supporting structure, having no FCC Antenna Structure Registration number as none is believed to be required due to the minimal overall height above ground level (38 meters). No change in overall height of this authorized structure will be necessary for the WRNN-LP antenna system. Note 1 of §1.1306 of the FCC rules indicates that the provisions of §1.1307(a) do not encompass the mounting of antennas on an existing antenna support structure unless the proposed use would affect a district, site, building, structure or object significant in American history or eligible for listing in the National Register of Historic Places. Based on information supplied by the applicant, it is believed that this does not apply to the relatively new tower on which *LNLN* has currently located WRNN-LP. Therefore, it is believed that this application may be categorically excluded from environmental processing pursuant to §1.1306 of the FCC Rules.

**ENVIRONMENTAL CONSIDERATIONS**  
(page 2 of 4)

**Human Exposure to Radiofrequency Radiation**

The proposed operation was evaluated for human exposure to radiofrequency energy using the procedures outlined in the Commission's OET Bulletin No. 65 ("OET 65"). OET 65 describes a means of determining whether a proposed facility exceeds the radiofrequency exposure guidelines adopted in §1.1310. Under present Commission policy, a facility may be presumed to comply with the limits specified in §1.1310 if it satisfies the exposure criteria set forth in OET 65. Based upon that methodology, and as demonstrated in the following, the proposed transmitting system will comply with the cited adopted guidelines.

The WRNN-LP antenna will be installed such that its center of radiation is 28 meters above ground level. An effective radiated power ("ERP") of 2.5 kilowatts, horizontally polarized, will be employed. According to elevation pattern data provided by the antenna manufacturer, the proposed KTBU antenna will have a relative field of 16 percent or less from 10 to 90 degrees below the horizontal plane (i.e.: below the antenna). Thus, a value of 16 percent relative field is used for this calculation. The "uncontrolled/general population" limit specified in §1.1310 for Channel 20 (center frequency 509 MHz) is 339.3  $\mu\text{W}/\text{cm}^2$ .

Using formula 2 from OET 65, Supplement A, (assuming typical 10 percent aural carrier level), the formula for NTSC television transmitting antennas as used for calculating signal density in this analysis is:

$$S(\mu\text{W}/\text{cm}^2) = \frac{(33.4098 \times F^2 \times [(0.4 \times \text{ERP}_{\text{Visual}}) + \text{ERP}_{\text{Aural}}])}{R^2}$$

Where:

- S = Plane Wave Power Density ( $\mu\text{W}/\text{cm}^2$ ) at specified point
- F = Relative Field Factor for Horizontal and Vertical Planes
- $\text{ERP}_{\text{Visual}}$  = total visual ERP in Watts

## ENVIRONMENTAL CONSIDERATIONS

(page 3 of 4)

$$\frac{ERP_{Aural}}{R^2} = \frac{\text{total aural ERP in Watts}}{\text{distance in meters from center of radiation to the specified point.}}$$

Using this formula, the proposed facility would contribute a power density of  $1.58 \mu\text{W}/\text{cm}^2$  at two meters above ground level near antenna support structure, or 0.47 percent of the general population/uncontrolled limit. At ground level locations away from the base of the tower, the calculated RF power density is even lower, due to the increasing distance from the transmitting antenna.

§1.1307(b)(3) states that facilities contributing less than five percent of the exposure limit at locations with multiple transmitters are categorically excluded from responsibility for taking any corrective action in the areas where their contribution is less than five percent. Since the instant situation meets the five percent exclusion test at all ground level areas, the impact of any other facilities near this site may be considered independently from this proposal. Accordingly, it is believed that the impact of the proposed operation should not be considered to be a factor at or near ground level as defined under §1.1307(b).

### **Safety of Tower Workers and the General Public**

As demonstrated herein, excessive levels of RF energy will not be caused at publicly accessible areas at ground level near the antenna supporting structure. Consequently, members of the general public will not be exposed to RF levels in excess of the Commission's guidelines. Nevertheless, tower access will be restricted and controlled through the use of a locked fence. Additionally, appropriate RF exposure warning signs will be posted.

With respect to worker safety, it is believed that based on the preceding analysis, excessive exposure would not occur in areas at ground level. A site exposure policy will be employed protecting maintenance workers from excessive exposure when

## ENVIRONMENTAL CONSIDERATIONS

(page 4 of 4)

work must be performed on the tower in areas where high RF levels may be present. Such protective measures may include, but will not be limited to, restriction of access to areas where levels in excess of the guidelines may be expected, power reduction, or the complete shutdown of facilities when work or inspections must be performed in areas where the exposure guidelines will be exceeded. On-site RF exposure measurements may also be undertaken to establish the bounds of safe working areas. The applicant will coordinate exposure procedures with all pertinent regulations.

### Conclusion

Based on the preceding, it is believed that the instant proposal may be categorically excluded from environmental processing under Section 1.1306 of the Rules, hence preparation of an Environmental Assessment is not required.

## Discussion

LP Nyack Limited Partnership ("LNLP") is the licensee of WRNN-LP Channel 57, Nyack, New York. LNLP has been granted a Class A construction permit to move to Channel 35. LNLP has determined that its authorized Channel 35 facility is displaced as it is 100.3 km from the allotted Channel 35 for WVIT-DT New Breton, CT. Therefore LNLP on February 28, 2002 filed a displacement application to change to Channel 20 on the same site as the Channel 35 C.P. However, Bergen County, New Jersey, operator of Channel 19 land mobile facilities, filed a petition to deny this Channel 20 application, and WTXN Channel 20 Waterbury, Connecticut filed an opposition. LNLP believes the channel 20 application complies in all respects with the Commission's rules, but is filing the instant application to change WRNN-LP to Channel 46 instead of Channel 20. The filed parameters of Channel 46 are identical to those of the Channel 20 filing, i.e., location, pattern, pointing, height and ERP are all the same, and, except for a small ERP increase, are all the same as the Channel 35 c.p. and the Channel 57 license.

A Longley-Rice analysis of all licenses, CP's, applications and STA's which could possibly receive interference from the instant application was performed, using 1.5 km resolution, even considering facilities which no longer exist. The total and unique interference to the STA modified on June 14, 2002 by WNJU is .017%. The total and unique interference to the most recent filing by WPXN on April 28, 2002 for 2800 kw is .068%, which is the maximum for all WPXN licenses, applications, CP's and STA's. The maximum for all WNJV licenses, applications, CP's and STA's is .061%, total and unique. The complete detailed analysis results for all 12 station filings considered is included herein.

2.5 KW PROPOSAL AT PLEASANTVILLE AS FOLLOWS:

WRNN-L.C  
 TRIAL AT 2.5 KW  
 Latitude: 41-09-07 N  
 Longitude: 073-47-10 W  
 Power: 2.50 kW  
 Channel: 46+  
 Frequency: 665.0 MHz  
 AMSL Height: 223.0 m  
 Elevation: 178.94 m  
 Horiz. Pattern: Directional B24US @230°  
 Vert. Pattern: Yes  
 Elec Tilt: 0.0  
 Prop Model: Longley/Rice  
 Climate: Cont temperate  
 Conductivity: 0.0050  
 Dielec Const: 15.0  
 Refractivity: 301.0  
 Receiver Ht AG: 10.0 m  
 Receiver Gain: 0 dB  
 Time Variability: 10.0%  
 Sit. Variability: 50.0%  
 ITM Mode: Broadcast

V-Soft Communications Population Report  
 NEW.A BNPTI.20000831ATO (46+) Port Jervis, NY  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's 74 dBu FCC contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 74.0

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 8,886.

Stations considered which do not cause interference:

WRNN-L.C (46+)

Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	82.8	106.9

Totals for NEW.A 20000831ATO (46+)

Calculation Area Population:	8,886	(	14.5 sq. km )
Not Affected by Terrain Loss:	8,886	(	14.5 sq. km )
Total NTSC Interference:	0	(	0.0 sq. km )
DTV Only Interference:	0	(	0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	0	(	0.0 sq. km )
Interference Free:	8,886	(	14.5 sq. km )

Percent Interference: 0.00

Terrain Blocked Population:	0	(	0.0 sq. km)
Contour Area Population:	10,501		



V-Soft Communications Population Report

WLBX-L.A. #PTTL20000915AAN (46Z) Jersey City, NJ  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's 74 dBu FCC contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 74.0

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 4,503,290.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (46+)	0	6781	0.151	2.09

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
WRNN-L.C (46+)	6781	0.151	6781	0.151

Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	51.7	24.1

Totals for WLBX-L.A (46Z)

Calculation Area Population:	4,571,732	(	734.9 sq. km)
Not Affected by Terrain Loss:	4,503,290	(	724.5 sq. km)
Total NTSC Interference:	6,781	(	2.1 sq. km)
DTV Only Interference:	0	(	0.0 sq. km)
Total DTV Interference:	0	(	0.0 sq. km)
Interfered Population:	6,781	(	2.1 sq. km)
Interference Free:	4,496,509	(	722.4 sq. km)

Percent Interference: 0.15

Terrain Blocked Population:	68,442	(	10.4 sq. km)
Contour Area Population:	4,642,234		

V-Soft Communications Population Report

WUVN-D.C. #MPCDT20011011AAU (46) Hartford, CT  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 41.679

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

2

Percentages calculated using a baseline population of 3,526,504.

Stations considered which do not cause interference:

WRNN-L.C (46+)

Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	107.5	230.3

Totals for WUVN-D.C (46)

Calculation Area Population:	3,784,053	( 19794.8 sq. km )
Not Affected by Terrain Loss:	3,526,504	( 18000.0 sq. km )
Total NTSC Interference:	0	( 0.0 sq. km )
DTV Only Interference:	0	( 0.0 sq. km )
Total DTV Interference:	0	( 0.0 sq. km )
Interfered Population:	0	( 0.0 sq. km )
Interference Free:	3,526,504	( 18000.0 sq. km )

Percent Interference: 0.00

Terrain Blocked Population:	257,549	( 1794.8 sq. km )
Contour Area Population:	3,784,405	

V-Soft Communications Population Report

WFMZ-D.C EMTCDT19990401KH (46) Allentown, PA  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 41.679

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 6,056,412.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (46+)	0	9861	0.163	27.18

Masking Summary:

Call Letters:	Total Interference Population	%	Unique Interference Population	%
WRNN-L.C (46+)	9861	0.163	9861	0.163

Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	154.0	64.4

Totals for WFMZ-D.C (46)

Calculation Area Population:	6,334,200	( 17730.9 sq. km )
Not Affected by Terrain Loss:	6,056,412	( 16288.9 sq. km )
Total NTSC Interference:	9,861	( 27.2 sq. km )

3

DTV Only Interference: 0 ( -0.0 sq. km )  
 Total DTV Interference: 0 ( 0.0 sq. km )  
 Interfered Population: 9,861 ( 27.2 sq. km )  
 Interference Free: 6,046,551 ( 16261.8 sq. km )

Percent Interference: 0.16

Terrain Blocked Population: 277,788 ( 1441.9 sq. km )  
 Contour Area Population: 6,333,460

V-Soft Communications Population Report

WFMZ-D.S (46) DISTA20020213ABL (46) Allentown, PA  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 41.679

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 1,488,063.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (46+)	0	331	0.022	2.08

Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
WRNN-L.C (46+)	331	0.022	331	0.022

Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	154.0	64.4

Totals for WFMZ-D.S (46)

Calculation Area Population:	1,714,686	(	9596.7 sq. km )
Not Affected by Terrain Loss:	1,488,063	(	8288.9 sq. km )
Total NTSC Interference:	331	(	2.1 sq. km )
DTV Only Interference:	0	(	-0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	331	(	2.1 sq. km )
Interference Free:	1,487,732	(	8286.8 sq. km )

Percent Interference: 0.02

Terrain Blocked Population: 226,623 ( 1307.8 sq. km )  
 Contour Area Population: 1,719,917

V-Soft Communications Population Report

WPXNTV BICT 9860703KH (31-) New York, NY  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.

4

LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC plotv/translators D/U rules.  
 Threshold for reception: 63.408

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 17,920,271.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (#6+)	0	8047	0.045	8.29

Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
WRNN-L.C (#6+)	8047	0.045	8047	0.045

Call Letters	City	State	Dist	Rear
WRNN-L.C (#6+)	Nyack	NY	52.5	21.3

Totals for WPXNTV (31-)

Calculation Area Population:	18,226,719	( 20283.9 sq. km )
Not Affected by Terrain Loss:	17,920,271	( 18535.2 sq. km )
Total NTSC Interference:	8,047	( 8.3 sq. km )
DTV Only Interference:	0	( 0.0 sq. km )
Total DTV Interference:	0	( 0.0 sq. km )
Interfered Population:	8,047	( 8.3 sq. km )
Interference Free:	17,912,224	( 18526.9 sq. km )
Percent Interference:	0.04	
Terrain Blocked Population:	306,448	( 1748.7 sq. km )
Contour Area Population:	18,230,116	

V-Soft Communications Population Report

WPXNTV.A BPPS20020425ABW (31-) New York, NY  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC plotv/translators D/U rules.  
 Threshold for reception: 63.408

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 16,217,004.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (#6+)	0	11093	0.068	18.65

Masking Summary:

Total Interference	Unique Interference
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5

Call Letters	Population	%	Population	%
WRNN-L.C (46+)	11093	0.068	11093	0.068

Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	54.9	44.8

Totals for WFXNTV.A (31-)

Calculation Area Population:	16,364,912	(	12634.3 sq. km )
Not Affected by Terrain Loss:	16,217,004	(	11999.4 sq. km )
Total NTSC Interference:	11,093	(	18.7 sq. km )
DTV Only Interference:	0	(	0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	11,093	(	18.7 sq. km )
Interference Free:	16,205,911	(	11980.7 sq. km )
Percent Interference:	0.07		
Terrain Blocked Population:	147,908	(	634.9 sq. km )
Contour Area Population:	16,362,555		

V-Soft Communications Population Report

WNJU.A BMECT20001121AHZ (47+) Linden, NJ  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 64.763

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 18,208,055.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (46+)	0	9259	0.051	16.59

Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
WRNN-L.C (46+)	9259	0.051	9259	0.051

Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	47.9	20.5

Totals for WNJU.A (47+)

Calculation Area Population:	18,535,531	(	21134.1 sq. km )
Not Affected by Terrain Loss:	18,208,055	(	19456.1 sq. km )
Total NTSC Interference:	9,259	(	16.6 sq. km )
DTV Only Interference:	0	(	0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	9,259	(	16.6 sq. km )
Interference Free:	18,198,796	(	19439.5 sq. km )

6

Percent Interference: 0.05  
 Terrain Blocked Population: 327,476 ( 1677.9 sq. km)  
 Contour Area Population: 18,532,233

V-Soft Communications Population Report

WNJU BLCT19800423KE (47+) Linden, NJ  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 64.763

Study Date: 9/3/02  
 TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 18,068,122.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (46+)	0	10104	0.056	18.65

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
WRNN-L.C (46+)	10104	0.056	10104	0.056

Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	52.5	21.3

Totals for WNJU (47+)

Calculation Area Population:	18,460,576	( 19543.6 sq. km )
Not Affected by Terrain Loss:	18,068,122	( 18106.6 sq. km )
Total NTSC Interference:	10,104	( 18.7 sq. km )
DTV Only Interference:	0	( -0.0 sq. km )
Total DTV Interference:	0	( 0.0 sq. km )
Interfered Population:	10,104	( 18.7 sq. km )
Interference Free:	18,058,018	( 18088.0 sq. km )

Percent Interference: 0.06

Terrain Blocked Population: 392,454 ( 1436.9 sq. km)  
 Contour Area Population: 18,461,339

V-Soft Communications Population Report

WNJU.C BLCT19991028AAN (47+) Linden, NJ  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 64.763

7

Study Date: 9/3/02  
TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 18,688,105.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (46+)	0	11374	0.061	18.65

Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
WRNN-L.C (46+)	11374	0.061	11374	0.061

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Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	52.5	21.3

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Totals for WNJU.C (47+)

Calculation Area Population:	19,071,377	(	23632.5 sq. km )
Not Affected by Terrain Loss:	18,688,105	(	21544.8 sq. km )
Total NTSC Interference:	11,374	(	18.7 sq. km )
DTV Only Interference:	0	(	-0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	11,374	(	18.7 sq. km )
Interference Free:	18,676,731	(	21526.1 sq. km )

Percent Interference: 0.06

Terrain Blocked Population:	383,272	(	2087.7 sq. km)
Contour Area Population:	19,081,072		

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V-Soft Communications Population Report

WABC-D.C EMFCDT20000508AAS (45) New York, NY  
TV Incoming Interference Study  
Signal Resolution: 1.5 km  
Consider NTSC Taboo: Yes  
KWX error points are considered to  
be interference free coverage.  
# of radials computed for contours: 36  
Contours calculated using 8 radial HAAT.  
LR Profile Spacing Increment: 0.1 km  
Interference considered within the  
reference station's noise limited contour.  
Using NTSC lptv/translators D/U rules.  
Threshold for reception: 41.6

Study Date: 9/3/02  
TV Database Date: 08-23-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 19,285,321.

Stations considered which do not cause interference:

WRNN-L.C (46+)

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Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	52.5	21.3

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8

Totals for WABC-D.C (45)

Calculation Area Population:	19,585,055	(	27280.6 sq. km )
Not Affected by Terrain Loss:	19,285,321	(	25599.2 sq. km )
Total NTSC Interference:	0	(	0.0 sq. km )
DTV Only Interference:	0	(	0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	0	(	0.0 sq. km )
Interference Free:	19,285,321	(	25599.2 sq. km )
Percent Interference:	0.00		
Terrain Blocked Population:	299,734	(	1681.4 sq. km)
Contour Area Population:	19,585,934		

9

V-Soft Communications Population Report

WNJU.STA (47+) Linden, NJ  
 TV Incoming Interference Study  
 Signal Resolution: 1.5 km  
 Consider NTSC Taboo: Yes  
 KWX error points are considered to  
 be interference free coverage.  
 # of radials computed for contours: 36  
 Contours calculated using 8 radial HAAT.  
 LR Profile Spacing Increment: 0.1 km  
 Interference considered within the  
 reference station's noise limited contour.  
 Using NTSC lptv/translators D/U rules.  
 Threshold for reception: 64.763

Study Date: 9/5/02  
 TV Database Date: 09-04-02

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of  
 16,882,141.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WRNN-L.C (46+)	0	2840	0.017	22.80

Masking Summary:

Interference	Total Interference		Unique	
	Population	%	Population	%
WRNN-L.C (46+)	2840	0.017	2840	0.017

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Call Letters	City	State	Dist	Bear
WRNN-L.C (46+)	Nyack	NY	47.9	20.5

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Totals for WNJU.STA (47+)

Calculation Area Population:	17,132,966	(	15449.5
sq. km )			
Not Affected by Terrain Loss:	16,882,141	(	14624.6
sq. km )			
Total NTSC Interference:	2,840	(	22.8
sq. km )			
DTV Only Interference:	0	(	-0.0
sq. km )			

(10)

Total DTV Interference:	0	(	0.0
sq. km )			
Interfered Population:	2,840	(	22.8
sq. km )			
Interference Free:	16,879,301	(	14601.8
sq. km )			
Percent Interference:	0.02		
Terrain Blocked Population:	250,825	(	824.9
sq. km)			
Contour Area Population:	17,133,535		

(1)