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B. W. St. Clair

**ENGINEERING STATEMENT
IN SUPPORT OF APPLICATION
FOR LPTV CONSTRUCTION PERMIT**

IN REGARD TO:

**Application to channel 69
WNYN-LP, FCC ID 74305
Island Broadcasting Company
New York, NY**

The following facilities' protected contours are intersected by the appropriate respective interfering contours or are short-spaced by rule from the applicant's proposal. Accordingly, Longley Rice studies were performed using OET Bulletin 69 methodology to determine the presence or absence of actual interference.

The stations studied following are:

WLNY (55+) Riverhead, NY - BLCT19850429KJ
NEW.A (69+) Port Jervis, NY - BNPTTL20000831ALB
WFMZTV.C (69Z) Allentown, PA - BXPCT20010830AAB
WFMZTV (69Z) Allentown, PA - BLCT19990205KE
WFUT (68Z) Newark, NJ - BLCT19950901KG
WPXQ.C (69-) Block Island, RI - BPCT19980706KF
WPXQ (69-) Block Island, RI - BLCT19980217KE
WTBY (54+) Poughkeepsie, NY - BLCT19921016KF

A summary of the studies indicates that interference caused/contributed by the within application to the listed stations, respectively, is as follows:

Interference to:

WLNY (55+) Riverhead, NY - BLCT19850429KJ - NONE.
NEW.A (69+) Port Jervis, NY - BNPTTL20000831ALB - NONE.
WFMZTV.C (69Z) Allentown, PA - BXPCT20010830AAB - NONE.
WFMZTV (69Z) Allentown, PA - BLCT19990205KE - 0.033%
WFUT (68Z) Newark, NJ - BLCT19950901KG - 0.000%
WPXQ.C (69-) Block Island, RI - BPCT19980706KF - NONE.
WPXQ (69-) Block Island, RI - BLCT19980217KE - NONE.
WTBY (54+) Poughkeepsie, NY - BLCT19921016KF - 0.307%

Because all interferences shown are less than 0.5%, waiver of §73.705, 73.706 and 73.707 is requested as applicable in order to allow the within application to proceed to the permitting process.

The printouts of these studies as run on V-Soft, Inc. Probe II software are appended following. Interference signal resolution is 2 km; terrain intervals are 1.0 km.

J. R. McDonald
July 17, 2003

B. W. St. Clair

V-Soft Communications Population Report
 INCOMING TO WLNY (55+) Riverhead, NY - BLCT19850429KJ FROM WNYN-LP PROPOSAL, NEW YORK
 TV Incoming Interference Study
 Signal Resolution: 2 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: 1.0 km
 Interference considered within the
 reference station's noise limited contour.
 Using NTSC lptv/translators D/U rules.
 Threshold for reception: 65.363

Study Date: 7/15/2003
 TV Database Date: 06-25-03
 Population Database: 1990 US Census
 Percentages calculated using a baseline population of 3,357,055.

Stations considered which do not cause interference:
 WNYN-LP (69-)

Call Letters	City	State	Dist	Bear
WNYN-LP (69-)	New York	NY	88.3	259.5

Totals for WLNY (55+)

Calculation Area Population:	3,388,094	(	10377.0 sq. km)
Not Affected by Terrain Loss:	3,357,055	(	10321.8 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:	3,357,055	(	10321.8 sq. km)
Percent Interference:	0.00		
Terrain Blocked Population:	31,039	(	55.2 sq. km)
Contour Area Population:	3,386,446		

V-Soft Communications Population Report
INCOMING TO NEW.A (69+) Port Jervis, NY - BNPTTL20000831ALB FROM WNYN-LP PROPOSAL, NEW YORK

TV Incoming Interference Study
Signal Resolution: 2 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: 1.0 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: 7/15/2003
TV Database Date: 06-25-03
Population Database: 1990 US Census
Percentages calculated using a baseline population of 10,765.

Stations considered which do not cause interference:
WNYN-LP (69-)

Call Letters	City	State	Dist	Bear
WNYN-LP (69-)	New York	NY	95.9	136.2

Totals for BNPTTL20000831ALB (69+)

Calculation Area Population:	10,765	(	14.7 sq. km)
Not Affected by Terrain Loss:	10,765	(	14.7 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:	10,765	(	14.7 sq. km)
Percent Interference:	0.00		
Terrain Blocked Population:	0	(	0.0 sq. km)
Contour Area Population:	10,410		

V-Soft Communications Population Report
 INCOMING TO WFMZTV.C (69Z) Allentown, PA - BXPCT20010830AAB FROM WNYN-LP PROPOSAL, NEW YORK
 TV Incoming Interference Study
 Signal Resolution: 2 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: 1.0 km
 Interference considered within the
 reference station's noise limited contour.
 Using NTSC lptv/translators D/U rules.
 Threshold for reception: 66.317

Study Date: 7/14/2003
 TV Database Date: 06-25-03
 Population Database: 1990 US Census
 Percentages calculated using a baseline population of 1,131,305.

Stations considered which do not cause interference:
 WNYN-LP (69-)

Call Letters	City	State	Dist	Bear
WNYN-LP (69-)	New York	NY	128.1	80.4

Totals for WFMZTV.C (69Z)

Calculation Area Population:	1,333,001	(	7476.0 sq. km)
Not Affected by Terrain Loss:	1,131,305	(	5865.8 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:	1,131,305	(	5865.8 sq. km)
Percent Interference:	0.00		
Terrain Blocked Population:	201,696	(	1610.2 sq. km)
Contour Area Population:	1,320,979		

V-Soft Communications Population Report
 INCOMING TO WFMZTV (69Z) Allentown, PA - BLCT19990205KE FROM WNYN-LP PROPOSAL, NEW YORK
 TV Incoming Interference Study
 Signal Resolution: 2 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: 1.0 km
 Interference considered within the
 reference station's noise limited contour.
 Using NTSC lptv/translators D/U rules.
 Threshold for reception: 66.317

Study Date: 7/15/2003
 TV Database Date: 06-25-03
 Population Database: 1990 US Census
 Percentages calculated using a baseline population of 2,364,384.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WNYN-LP (69-)	296	791	0.033	7.41

Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
WNYN-LP (69-)	791	0.033	791	0.033

Call Letters	City	State	Dist	Bear
WNYN-LP (69-)	New York	NY	128.1	80.4

Totals for WFMZTV (69Z)

Calculation Area Population:	2,802,448	(13975.5 sq. km)
Not Affected by Terrain Loss:	2,364,384	(11126.8 sq. km)
Total NTSC Interference:	791	(7.4 sq. km)
DTV Only Interference:	0	(-0.0 sq. km)
Total DTV Interference:	0	(0.0 sq. km)
Interfered Population:	791	(7.4 sq. km)
Interference Free:	2,363,593	(11119.4 sq. km)

Percent Interference: 0.03

Terrain Blocked Population:	438,064	(2848.8 sq. km)
Contour Area Population:	2,793,046	

V-Soft Communications Population Report
 INCOMING TO WFUT (68Z) Newark, NJ - BLCT19950901KG FROM WNYN-LP PROPOSAL, NEW YORK
 TV Incoming Interference Study
 Signal Resolution: 2 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: 1.0 km
 Interference considered within the
 reference station's noise limited contour.
 Using NTSC lptv/translators D/U rules.
 Threshold for reception: 66.252

Study Date: 7/14/2003
 TV Database Date: 06-25-03
 Population Database: 1990 US Census
 Percentages calculated using a baseline population of 15,948,835.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WNYN-LP (69-)	0	0	0.000	7.38

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
WNYN-LP (69-)	0	0.000	0	0.000

Call Letters	City	State	Dist	Bear
WNYN-LP (69-)	New York	NY	3.6	92.0

Totals for WFUT (68Z)

Calculation Area Population:	16,239,252	(	17878.8 sq. km)
Not Affected by Terrain Loss:	15,948,835	(	15892.9 sq. km)
Total NTSC Interference:	0	(	7.4 sq. km)
DTV Only Interference:	0	(	-0.0 sq. km)
Total DTV Interference:	0	(	0.0 sq. km)
Interfered Population:	0	(	7.4 sq. km)
Interference Free:	15,948,835	(	15885.5 sq. km)

Percent Interference: 0.00

Terrain Blocked Population:	290,417	(	1986.0 sq. km)
Contour Area Population:	16,244,745		

V-Soft Communications Population Report
 INCOMING TO WPXQ.C (69-) Block Island, RI - BPCT19980706KF FROM WNYN-LP PROPOSAL, NEW YORK
 TV Incoming Interference Study
 Signal Resolution: 2 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: 1.0 km
 Interference considered within the
 reference station's noise limited contour.
 Using NTSC lptv/translators D/U rules.
 Threshold for reception: 66.311

Study Date: 7/14/2003
 TV Database Date: 06-25-03
 Population Database: 1990 US Census
 Percentages calculated using a baseline population of 2,607,473.

Stations considered which do not cause interference:
 WNYN-LP (69-)

Call Letters	City	State	Dist	Bear
WNYN-LP (69-)	New York	NY	214.6	245.6

Totals for WPXQ.C (69-)

Calculation Area Population:	2,697,291	(	18322.4 sq. km)
Not Affected by Terrain Loss:	2,607,473	(	17889.0 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:	2,607,473	(	17889.0 sq. km)
Percent Interference:	0.00		
Terrain Blocked Population:	89,818	(	433.4 sq. km)
Contour Area Population:	2,692,200		

V-Soft Communications Population Report
 INCOMING TO WPXQ (69-) Block Island, RI - BLCT19980217KE FROM WNYN-LP PROPOSAL, NEW YORK
 TV Incoming Interference Study
 Signal Resolution: 2 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: 1.0 km
 Interference considered within the
 reference station's noise limited contour.
 Using NTSC lptv/translators D/U rules.
 Threshold for reception: 66.311

Study Date: 7/15/2003
 TV Database Date: 06-25-03
 Population Database: 1990 US Census
 Percentages calculated using a baseline population of 1,546,637.

Stations considered which do not cause interference:
 WNYN-LP (69-)

Call Letters	City	State	Dist	Bear
WNYN-LP (69-)	New York	NY	199.4	246.1

Totals for WPXQ (69-)

Calculation Area Population:	1,626,919	(	11643.7 sq. km)
Not Affected by Terrain Loss:	1,546,637	(	11257.1 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:	1,546,637	(	11257.1 sq. km)
Percent Interference:	0.00		
Terrain Blocked Population:	80,282	(	386.5 sq. km)
Contour Area Population:	1,629,087		

V-Soft Communications Population Report
 INCOMING TO WTBY (54+) Poughkeepsie, NY - BLCT19921016KF FROM WNYN-LP PROPOSAL, NEW YORK
 TV Incoming Interference Study
 Signal Resolution: 2 km
 Consider NTSC Taboo: Yes
 KWX error points are considered as
 possible interference points.
 # of radials computed for contours: 36
 Contours calculated using 8 radial HAAT.
 LR Profile Spacing Increment: 1.0 km
 Interference considered within the
 reference station's 64 dBu FCC contour.
 Using NTSC lptv/translators D/U rules.
 Threshold for reception: 64

Study Date: 7/17/2003
 TV Database Date: 06-25-03
 Population Database: 1990 US Census
 Percentages calculated using a baseline population of 2,072,278.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WGGB-D.C (55)	748	2134	0.103	14.62
WNJU (47+)	249477	649994	31.366	726.79
WSTM-D.C (54)	1925	3428	0.165	168.18
WLNY (55+)	93387	239612	11.563	902.65
WCBS-D (56)	134833	347575	16.773	144.16
WPHL-D.C (54)	214352	549599	26.521	1441.63
WFMZTV (69Z)	79	268	0.013	7.37
trial 69 (69-)	180645	469892	22.675	236.08

Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
WGGB-D.C (55)	2134	0.103	2134	0.103
WNJU (47+)	649994	31.366	19001	0.917
WSTM-D.C (54)	3428	0.165	1681	0.081
WLNY (55+)	239612	11.563	59448	2.869
WCBS-D (56)	347575	16.773	0	0.000
WPHL-D.C (54)	549599	26.521	66471	3.208
WFMZTV (69Z)	268	0.013	0	0.000
trial 69 (69-)	469892	22.675	7574	0.365

Call Letters	City	State	Dist	Bear
WGGB-D.C (55)	Springfield	MA	125.8	62.1
WNJU (47+)	Linden	NJ	111.9	180.7
WSTM-D.C (54)	Syracuse	NY	221.6	308.6
WLNY (55+)	Riverhead	NY	128.5	134.9
WCBS-D (56)	New York	NY	107.8	179.5
WPHL-D.C (54)	Philadelphia	PA	213.6	209.7
WFMZTV (69Z)	Allentown	PA	176.4	223.9
trial 69 (69-)	New York	NY	108.0	177.6

Totals for WTBY (54+)

Calculation Area Population:	5,812,288	(24133.3 sq. km)
Not Affected by Terrain Loss:	2,072,278	(12896.0 sq. km)
Total NTSC Interference:	734,562	(1271.6 sq. km)
DTV Only Interference:	72,033	(839.7 sq. km)
Total DTV Interference:	566,598	(1503.8 sq. km)
Interfered Population:	806,595	(2111.2 sq. km)
Interference Free:	1,265,683	(10784.7 sq. km)

Percent Interference: 38.92

Terrain Blocked Population:	3,740,010	(11237.3 sq. km)
Contour Area Population:	5,754,903	

END OF EXHIBIT