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**B. W. St. Clair**

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## **ENGINEERING STATEMENT**

### **APPLICATION FOR LPTV CONSTRUCTION PERMIT**

**Application of:**  
**WDLP Broadcasting Company, LLC**  
**W64AN, FID 4332**  
**Channel 57, Miami, FL**

1. The within application is filed as a minor change application for a protected contour overlap move of the transmitter site pursuant to §73.3572(a)(2)(ii) and simultaneously the applicant wishes to avail himself of displacement relief by changing from channel 64 to 57 as contemplated in §73.3572(a)(4)(ii).

2. The following facilities' protected contours are intersected by the appropriate interfering F50,10 contours from the applicant's proposal. Accordingly, Longley Rice interference studies were performed using OET Bulletin 69 methodology to determine the presence or absence of actual interference. Summaries are shown directly below; following later are the actual printouts of these studies as performed on V-soft, Inc. Probe II software.

The stations studied following are:

W56AZ, Channel 56 CP, BPTTL-20020129ABP  
WTTA-DT, Channel 57 CP, BPCDT-19991007AAX  
WBWP-LP, Channel 57, BLTTL-19991118ABB  
W58BU, Channel 58, BLTT-19950922ID  
W58BU, Channel 58 CP, BPTT-20030103ABZ

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

Interference to W56AZ, Channel 56 CP, BPTTL-20020129ABP - 0.003%  
Interference to WTTA-DT, Channel 57 CP, BPCDT-19991007AAX - NONE  
Interference to WBWP-LP, Channel 57, BLTTL-19991118ABB - NONE  
Interference to W58BU, Channel 58, BLTT-19950922ID - NONE  
Interference to W58BU, Channel 58 CP, BPTT-20030103ABZ - 0.378%

To achieve these results, reliance on masking by other facilities was not required. Waiver of §73.706 and §73.707 is requested as applicable in order to allow the within application to proceed to the permitting process.

Jim McDonald  
April 30, 2003

B. W. St. Clair

V-Soft Communications Population Report  
 INCOMING TO W56AZ.C (56-) Homestead, FL FROM W64AN APPLICATION

TV Incoming Interference Study

Signal Resolution: 1 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: 4/30/2003

TV Database Date: 04-17-03

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 1,869,720.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
W64AN (57-)	0	50	0.003	6.59

Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
W64AN (57-)	50	0.003	50	0.003

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Call Letters	City	State	Dist	Bear
W64AN (57-)	Miami	FL	0.0	0.0

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Totals for W56AZ.C (56-)

Calculation Area Population:	1,874,493	(	4161.6 sq. km )
Not Affected by Terrain Loss:	1,869,720	(	4119.8 sq. km )
Total NTSC Interference:	50	(	6.6 sq. km )
DTV Only Interference:	0	(	-0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	50	(	6.6 sq. km )
Interference Free:	1,869,670	(	4113.2 sq. km )

Percent Interference: 0.003

Terrain Blocked Population:	4,773	(	41.8 sq. km)
Contour Area Population:	1,871,551		

V-Soft Communications Population Report  
INCOMING TO WTTA-D.C (57) St. Petersburg, FL FROM W64AN APPLICATION

TV Incoming Interference Study  
Signal Resolution: 1 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: 42.501

Study Date: 4/29/2003  
TV Database Date: 04-17-03

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 4,086,335.

Stations considered which do not cause interference:

W64AN (57-)

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Call Letters      City                      State      Dist      Bear  
W64AN (57-)      Miami                      FL          311.3      144.6  
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Totals for WTTA-D.C (57)

Calculation Area Population:	4,086,679	(	35240.9 sq. km )
Not Affected by Terrain Loss:	4,086,335	(	35234.5 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:	4,086,335	(	35234.5 sq. km )
Percent Interference:	0.000		
Terrain Blocked Population:	344	(	6.4 sq. km)
Contour Area Population:	4,084,646		

V-Soft Communications Population Report  
INCOMING TO WBWP-L (57+) West Palm Beach, FL FROM W64AN APPLICATION

TV Incoming Interference Study

Signal Resolution: 1 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: 4/29/2003

TV Database Date: 04-17-03

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 547,759.

Stations considered which do not cause interference:

W64AN (57-)

-----  
Call Letters      City                      State      Dist      Bear  
W64AN (57-)      Miami                      FL          140.8      196.2  
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Totals for WBWP-L (57+)

Calculation Area Population:	547,759	(	1096.3 sq. km )
Not Affected by Terrain Loss:	547,759	(	1096.3 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:	547,759	(	1096.3 sq. km )

Percent Interference: 0.000

Terrain Blocked Population:	0	(	0.0 sq. km)
Contour Area Population:	549,280		

V-Soft Communications Population Report  
INCOMING TO W58BU (58N) Hallandale, FL FROM W64AN APPLICATION

TV Incoming Interference Study

Signal Resolution: 1 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: 4/29/2003

TV Database Date: 04-17-03

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 2,524,265.

Stations considered which do not cause interference:

W64AN (57-)

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Call Letters      City                      State      Dist      Bear  
W64AN (57-)      Miami                      FL          56.6      209.2  
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Totals for W58BU (58N)

Calculation Area Population:	2,524,265	(	2090.5 sq. km )
Not Affected by Terrain Loss:	2,524,265	(	2090.5 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:	2,524,265	(	2090.5 sq. km )

Percent Interference:                      0.000

Terrain Blocked Population:	0	(	0.0 sq. km)
Contour Area Population:	2,520,669		

V-Soft Communications Population Report  
 INCOMING TO W58BU.C (58N) Hallandale, FL FROM W64AN APPLICATION

TV Incoming Interference Study

Signal Resolution: 1 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: 4/30/2003

TV Database Date: 04-17-03

Population Database: 2000 US Census (PL)

Percentages calculated using a baseline population of 3,241,113.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
W64AN (57-)	0	12262	0.378	6.57

Masking Summary:

Call Letters	Total Interference Population	%	Unique Interference Population	%
W64AN (57-)	12262	0.378	12262	0.378

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Call Letters	City	State	Dist	Bear
W64AN (57-)	Miami	FL	56.6	209.2

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Totals for W58BU.C (58N)

Calculation Area Population:	3,241,113	(	2690.6 sq. km )
Not Affected by Terrain Loss:	3,241,113	(	2690.6 sq. km )
Total NTSC Interference:	12,262	(	6.6 sq. km )
DTV Only Interference:	0	(	-0.0 sq. km )
Total DTV Interference:	0	(	0.0 sq. km )
Interfered Population:	12,262	(	6.6 sq. km )
Interference Free:	3,228,851	(	2684.1 sq. km )

Percent Interference: 0.378

Terrain Blocked Population:	0	(	0.0 sq. km)
Contour Area Population:	3,241,342		

- END OF EXHIBIT, W64AN -