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ENGINEERING STATEMENT

**In regard to the application of:
Abacus Television
W56DX, FID 264
Channel 56, Wheeling, WV
For Minor change to license BLTTL-20000810ABX**

The following facilities' protected contours are intersected by the appropriate respective interfering F50,10 contours 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:

NEW.A (56-) Clarksburg, WV - BNPTT20000831BSE
WTOV-D.C (57) Steubenville, OH - BPCDT19991029ABP
WTOV-D.A (57) Steubenville, OH - BMPCDT20020408AAK
W56CG (56+) Greensburg, PA - BLTTL19990309JA

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

Interference to:

NEW.A (56-) Clarksburg, WV - BNPTT20000831BSE - NONE.
WTOV-D.C (57) Steubenville, OH - BPCDT19991029ABP - 0.125%
WTOV-D.A (57) Steubenville, OH - BMPCDT20020408AAK - 0.006%
W56CG (56+) Greensburg, PA - BLTTL19990309JA - 0.191%

Interference shown by these studies to all considered facilities is less than 0.5%. To achieve these results, reliance on masking by other facilities was not required. Accordingly, 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.

J. R. McDonald
May 30, 2003

V-Soft Communications Population Report
INCOMING TO NEW.A (56-) Clarksburg, WV - BNPTT20000831BSE FROM W56DX PROPOSAL, Channel 56,
Wheeling, WV

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 countour.
Using NTSC lptv/translators D/U rules.
Threshold for reception: 74.0

Study Date: 5/29/2003
TV Database Date: 05-09-03

Population Database: 1990 US Census

Percentages calculated using a baseline population of 40,038.

Stations considered which do not cause interference:

W56DX.A (56Z)

Call Letters City State Dist Bear
W56DX.A (56Z) Wheeling WV 91.5 337.6

Totals for NEW.A (56-)

| | | | |
|-------------------------------|--------|---|----------------|
| Calculation Area Population: | 40,052 | (| 244.7 sq. km) |
| Not Affected by Terrain Loss: | 40,038 | (| 242.6 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: | 40,038 | (| 242.6 sq. km) |
| Percent Interference: | 0.00 | | |
| Terrain Blocked Population: | 14 | (| 2.1 sq. km) |
| Contour Area Population: | 41,193 | | |

V-Soft Communications Population Report
 INCOMING TO WTOV-D.C (57) Steubenville, OH - BPCDT19991029ABP FROM W56DX PROPOSAL, Channel
 56, Wheeling, WV

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: 42.501

Study Date: 5/29/2003
 TV Database Date: 05-09-03

Population Database: 1990 US Census

Percentages calculated using a baseline population of 2,440,951.

Stations which cause interference:

| Call Letters | H Units | Population | % | Area (sq. km) |
|---------------|---------|------------|-------|---------------|
| W56DX.A (56Z) | 1625 | 3042 | 0.125 | 4.21 |

Masking Summary:

| Call Letters | Total Interference | | Unique Interference | |
|---------------|--------------------|-------|---------------------|-------|
| | Population | % | Population | % |
| W56DX.A (56Z) | 3042 | 0.125 | 3042 | 0.125 |

| Call Letters | City | State | Dist | Bear |
|---------------|----------|-------|------|-------|
| W56DX.A (56Z) | Wheeling | WV | 41.3 | 226.4 |

Totals for WTOV-D.C (57)

| | | | |
|-------------------------------|-----------|---|------------------|
| Calculation Area Population: | 2,519,850 | (| 15567.5 sq. km) |
| Not Affected by Terrain Loss: | 2,440,951 | (| 15069.8 sq. km) |
| Total NTSC Interference: | 3,042 | (| 4.2 sq. km) |
| DTV Only Interference: | 0 | (| -0.0 sq. km) |
| Total DTV Interference: | 0 | (| 0.0 sq. km) |
| Interfered Population: | 3,042 | (| 4.2 sq. km) |
| Interference Free: | 2,437,909 | (| 15065.5 sq. km) |
| Percent Interference: | 0.12 | | |
| Terrain Blocked Population: | 78,899 | (| 497.7 sq. km) |
| Contour Area Population: | 2,523,239 | | |

V-Soft Communications Population Report
 INCOMING TO WTOV-D.A (57) Steubenville, OH - BMPCDT20020408AAK FROM W56DX PROPOSAL,
 Channel 56, Wheeling, WV

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: 42.501

Study Date: 5/29/2003
 TV Database Date: 05-09-03

Population Database: 1990 US Census

Percentages calculated using a baseline population of 3,081,844.

Stations which cause interference:

| Call Letters | H Units | Population | % | Area (sq. km) |
|---------------|---------|------------|-------|---------------|
| W56DX.A (56Z) | 71 | 177 | 0.006 | 2.11 |

Masking Summary:

| Call Letters | Total Interference Population | % | Unique Interference Population | % |
|---------------|----------------------------------|-------|-----------------------------------|-------|
| W56DX.A (56Z) | 177 | 0.006 | 177 | 0.006 |

| Call Letters | City | State | Dist | Bear |
|---------------|----------|-------|------|-------|
| W56DX.A (56Z) | Wheeling | WV | 33.2 | 199.8 |

Totals for WTOV-D.A (57)

| | | | |
|-------------------------------|-----------|---|------------------|
| Calculation Area Population: | 3,188,127 | (| 23537.3 sq. km) |
| Not Affected by Terrain Loss: | 3,081,844 | (| 22613.9 sq. km) |
| Total NTSC Interference: | 177 | (| 2.1 sq. km) |
| DTV Only Interference: | 0 | (| -0.0 sq. km) |
| Total DTV Interference: | 0 | (| 0.0 sq. km) |
| Interfered Population: | 177 | (| 2.1 sq. km) |
| Interference Free: | 3,081,667 | (| 22611.8 sq. km) |

Percent Interference: 0.01

| | | | |
|-----------------------------|-----------|---|---------------|
| Terrain Blocked Population: | 106,283 | (| 923.4 sq. km) |
| Contour Area Population: | 3,182,703 | | |

V-Soft Communications Population Report
 INCOMING TO W56CG (56+) Greensburg, PA - BLTTL19990309JA FROM W56DX PROPOSAL, Channel 56,
 Wheeling, WV

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 countour.
 Using NTSC lptv/translators D/U rules.
 Threshold for reception: 74.0

Study Date: 5/30/2003
 TV Database Date: 05-29-03

Population Database: 1990 US Census

Percentages calculated using a baseline population of 282,242.

Stations which cause interference:

| Call Letters | H Units | Population | % | Area (sq. km) |
|---------------|---------|------------|-------|---------------|
| W56DX.A (56Z) | 203 | 540 | 0.191 | 2.10 |

Masking Summary:

| Call Letters | Total Interference | | Unique Interference | |
|---------------|--------------------|-------|---------------------|-------|
| | Population | % | Population | % |
| W56DX.A (56Z) | 540 | 0.191 | 540 | 0.191 |

| Call Letters | City | State | Dist | Bear |
|---------------|----------|-------|-------|-------|
| W56DX.A (56Z) | Wheeling | WV | 102.0 | 255.1 |

Totals for W56CG (56+)

| | | | |
|-------------------------------|---------|---|----------------|
| Calculation Area Population: | 314,210 | (| 952.5 sq. km) |
| Not Affected by Terrain Loss: | 282,242 | (| 883.3 sq. km) |
| Total NTSC Interference: | 540 | (| 2.1 sq. km) |
| DTV Only Interference: | 0 | (| -0.0 sq. km) |
| Total DTV Interference: | 0 | (| 0.0 sq. km) |
| Interfered Population: | 540 | (| 2.1 sq. km) |
| Interference Free: | 281,702 | (| 881.2 sq. km) |
| Percent Interference: | 0.19 | | |
| Terrain Blocked Population: | 31,968 | (| 69.2 sq. km) |
| Contour Area Population: | 311,726 | | |

END OF EXHIBIT