



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN AMENDMENT TO AN APPLICATION FOR A  
MINOR MODIFICATION TO THE WLOS LICENSED FACILITY  
FOR RELOCATION TO A DIFFERENT TRANSMITTER SITE  
WLOS - ASHEVILLE, NORTH CAROLINA  
CH. 13 - 144 kW - 552 meters HAAT**

Prepared for: WLOS LICENSEE, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, No. 7418, and in New York State, No. 63418.

**GENERAL**

This office has been authorized by WLOS LICENSEE, LLC, licensee of WLOS, channel 13, facility ID number 56537, license file number 0000190297, licensed to Asheville, North Carolina, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an amendment to application for a minor modification of license to relocate WLOS's transmitter and antenna site to a tower more favorably positioned within its DMA so that many areas within its DMA not currently being served can be added to its service area, as the DMA map exhibit shows. The network service map shows the proposed "loss area" outside the DMA, that except for 272 persons, fully maintains ABC network coverage for that entire area. The service maintenance map shows that the entire "loss area" is covered by 5 or more full service DTV stations, except for a small area containing 418 persons which is covered by only four services. These population numbers are considered to be *de minimis*.

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The WLOS licensee believes the proposed relocation of the WLOS transmitter site will allow WLOS to more favorably serve the viewing population that is located within its Designated Market Area.

**DIRECTIONAL ANTENNA**

The applicant intends to install a Dielectric model THV-7A13/VP-R C150 elliptically polarized directional antenna at an existing tower, ASR 1023079. The antenna's center of radiation will be located at a height above ground of 211.8 meters, and a height above average terrain of 552 meters. The antenna's horizontal azimuth radiation patterns for both its horizontally and vertically polarized components and its vertical elevation pattern, showing its radiation characteristics above and below the horizontal plane are shown and tabulated in the antenna exhibit.

**PREDICTED COVERAGE CONTOURS**

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. The map exhibit shows the predicted Noise Limited (36 dBu) contour, and the principal community (43 dBu) contour which completely encompasses the principal community of license, Asheville, North Carolina.

**DETERMINATION OF THE “LARGEST STATION IN THE MARKET”**

It appears from an analysis of the stations licensed to communities located within the Greenville-Spartanburg-Asheville-Anderson North Carolina-South Carolina Designated Market Area (DMA) that the largest station in geographic area is WLOS itself, license file number, 0000190297, for channel 13 Asheville, North Carolina with a 36 dBu noise limited contour coverage area encompassing 53,263 square kilometers. The instant application to relocate WLOS's transmitter site results in a predicted 36 dBu noise limited contour coverage area encompassing 53,254 square kilometers. The map exhibit compares the proposed facility to the licensed facility. The proposed relocated facility is intended to replicate but not to exceed WLOS's license authorization area while providing a significant improvement to its potential viewership within its DMA. According to Section 73.622(f)(5) WLOS should be entitled to the coverage area encompassed by the proposed facility.

**ALLOCATION CONSIDERATIONS**

***Post-Transition DTV Considerations***

A study was performed, using the FCC's application processing software, *tvstudy*, v. 2.2.5, to determine if the instant application for construction permit is predicted to cause new prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant application for construction permit is predicted to cause no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment or Class A DTV stations. (See Appendix B)

***International DTV Considerations***

The WLOS site is located more than 700 kilometers from the nearest point on the US-Canadian border and is located more than 1700 kilometers from the nearest point on the US-Mexican border. Therefore no international coordination is necessary.

***Class A Television Allocation Considerations***

As required in Section 73.616(f) of the FCC's Rules, the study results in Appendix B shows no Class A station predicted to be affected by the relocation of the WLOS site.

***Land Mobile and FM radio Considerations***

The *tvstudy* results found no Land Mobile violations for this site, and the site is deemed OK toward AM radio stations. .

**BLANKETING AND INTERMODULATION INTERFERENCE**

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 kilometers of the proposed WLOS site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

**RADIO FREQUENCY IMPACT, SAFETY & STATEMENT OF COMPLIANCE**

The licensee of WLOS is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WLOS antenna and will reduce power or cease operation, when necessary, to ensure protection to personnel.

The relocated WLOS channel 13 facility, as proposed herein, will operate with a maximum ERP of 144 kW from an elliptically polarized directional transmitting antenna with



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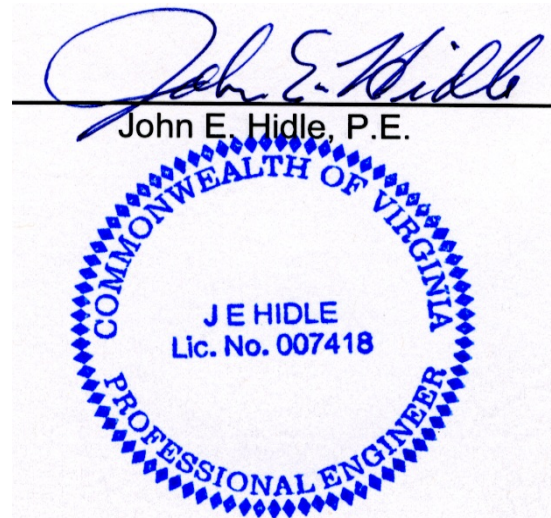
a centerline height of 211.8 meters above ground level (AGL). Considering the antenna's elevation pattern provided elsewhere in this submission, the vertical plane relative field factor is less than 0.175 at all depression angles greater than 10 degrees. The proposed WLOS channel 13 facility is predicted to produce a worst-case power density at two meters above ground level, at 146.9 meters from the tower base, of  $2.999 \mu\text{W}/\text{cm}^2$ , which is 1.50% of the FCC guideline value of  $200.0 \mu\text{W}/\text{cm}^2$  for an "uncontrolled" environment, and 0.30% of the FCC's guideline value for "controlled" environments. Therefore, pursuant to Section 1.1307(b)(3) of the FCC Rules, because the proposed facility would not exceed 5% of the uncontrolled and controlled exposure limits, the proposal's power density contribution is considered insignificant. Further, the Applicant will continue to cooperate/coordinate with other site users and reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel. In light of the above, the proposed facility should be excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.

**SUMMARY**

It is submitted that the instant amendment to WLOS's application for a minor modification of its license to relocate its transmitter and antenna to a more favorably positioned site within its DMA is intended to provide service to more of the areas within the DMA that are not currently being served by WLOS, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement was prepared by me, or under my direct supervision, and its contents are believed to be true and correct to the best of my knowledge and belief.

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DATED: May 10, 2023





## PREDICTED COVERAGE CONTOURS

WLOS.A - ASHEVILLE, NORTH CAROLINA  
DTV Channel 13 - 144 kW ERP - 552 M HAAT  
MAY, 2023

Predicted Noise Limited 36.0 dBu  
F(50,90) Coverage Contour



Predicted Principal Community 43.0 dBu  
F(50,90) Coverage Contour

## WLOS-D 13 Asheville, NC

Using NED 03 sec terrain data, 360 radials

App must be turned down to 144 kW ERP  
to prevent the coverage area from  
exceeding the licensed facility.

### WLOS-D - 213.0 MHz

CH132C - FACID:56537  
Asheville, NC  
File:0000190297  
Wlos Licensee, LLC  
Lat: 35-25-32 N  
Long: 082-45-24 W  
ERP: 50.00 kW HAAT: 849.4  
RCAMSL: 1832.2 m

### WLOS-D.A - 213.0 MHz

CH132C - FACID:56537  
Asheville, NC  
File:0000213075  
Wlos Licensee, LLC  
Lat: 35-13-20 N  
Long: 082-32-58 W  
ERP: 144.00 kW HAAT: 552.0  
RCAMSL: 1255.8 m

36 dBu

- WLOS-D (13)
- WLOS-D.A (13)

### LICENSED / NED 03 - 360 radials

Population Report  
Station: WLOS-D (13)

Total Population: 4,087,483  
Housing Units: 1,924,607  
Total Area: 53,263.0 sq. km

### APP / NED 03 - 360 radials

Population Report  
Station: WLOS-D (13)

144 kW  
Total Population: 3,680,736  
Housing Units: 1,732,694  
Total Area: 53,254.0 sq. km



Scale 1:2,000,000  
0 20 40 60 km



# Greenville-Spartanburg-Asheville-Anderson DMA - WLOS-D Asheville, NC

- WLOS-D (13)
- WLOS-D.A (13)

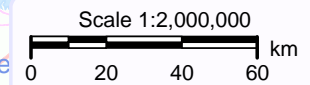
**WLOS-D - 213.0 MHz**  
CH132C - FACID:56537  
Asheville, NC  
File:0000190297  
Wlos Licensee, LLC  
Lat: 35-25-32 N  
Long: 082-45-24 W  
ERP: 50.00 kW HAAT: 849.4  
RCAMSL: 1832.2 m

**WLOS-D.A - 213.0 MHz**  
Asheville, NC  
Lat: 35-13-20 N  
Long: 082-32-58 W  
ERP: 144.00 kW HAAT: 552.0  
RCAMSL: 1255.8 m



Roswell  
and Springs

Athens



# ABC Network Stations Covering Proposed Loss Area - WLOS

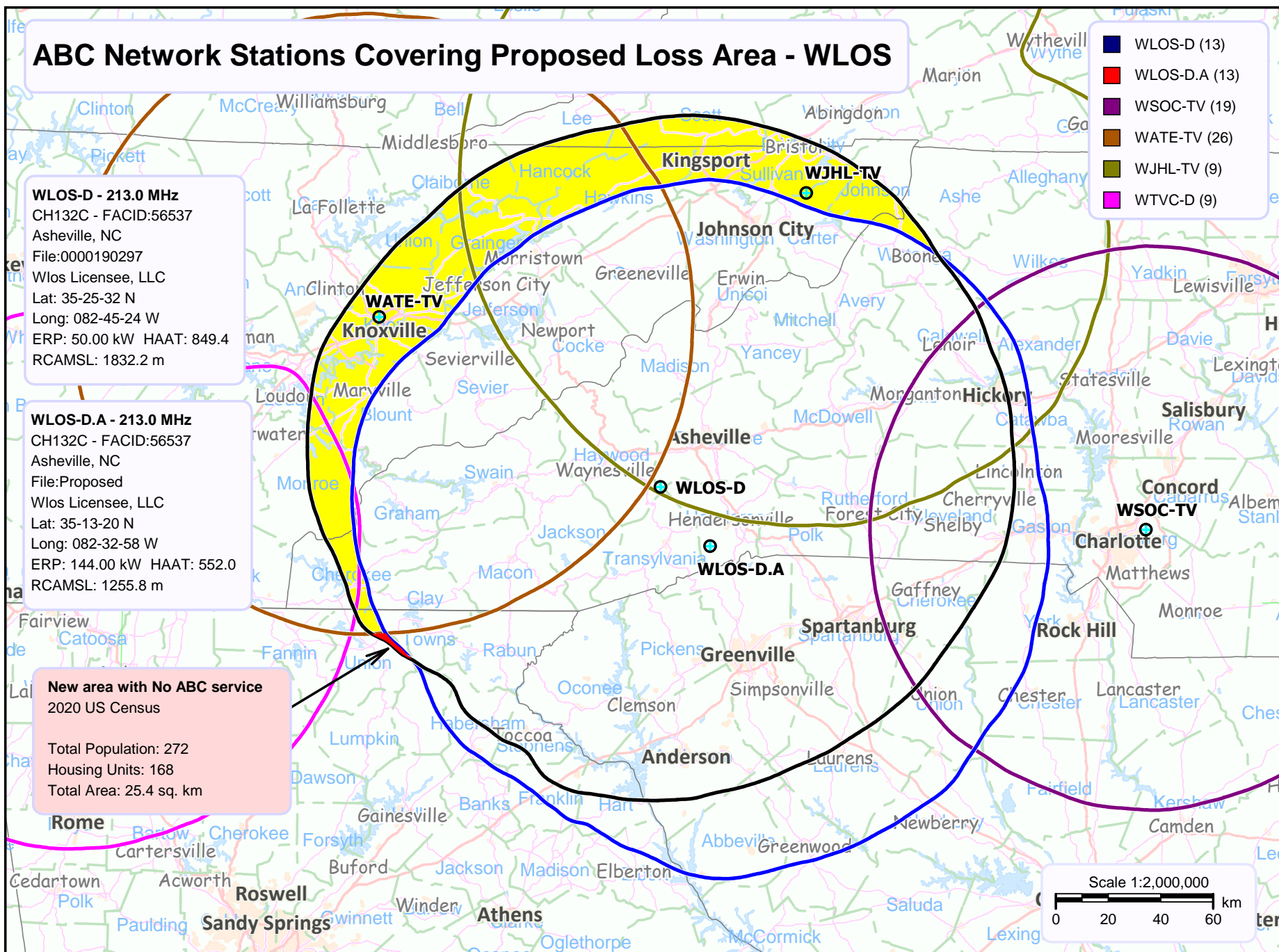
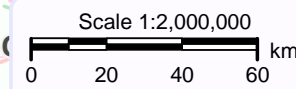
**WLOS-D - 213.0 MHz**  
 CH132C - FACID:56537  
 Asheville, NC  
 File:0000190297  
 Wlos Licensee, LLC  
 Lat: 35-25-32 N  
 Long: 082-45-24 W  
 ERP: 50.00 kW HAAT: 849.4  
 RCAMSL: 1832.2 m

**WLOS-D.A - 213.0 MHz**  
 CH132C - FACID:56537  
 Asheville, NC  
 File:Proposed  
 Wlos Licensee, LLC  
 Lat: 35-13-20 N  
 Long: 082-32-58 W  
 ERP: 144.00 kW HAAT: 552.0  
 RCAMSL: 1255.8 m

**New area with No ABC service**  
 2020 US Census

Total Population: 272  
 Housing Units: 168  
 Total Area: 25.4 sq. km

- WLOS-D (13)
- WLOS-D.A (13)
- WSOC-TV (19)
- WATE-TV (26)
- WJHL-TV (9)
- WTVC-D (9)





# WLOS-D Loss Area Service Count



**WLOS-D - 213.0 MHz**  
CH132C - FACID:56537  
Asheville, NC  
File:0000190297  
Wlos Licensee, LLC  
Lat: 35-25-32 N  
Long: 082-45-24 W  
ERP: 50.00 kW HAAT: 849.4  
RCAMSL: 1832.2 m

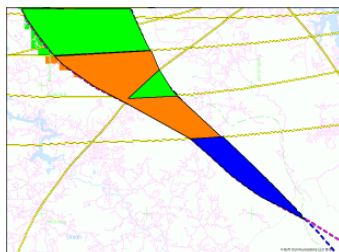
**WLOS\_Proposed -**  
213.0 MHz  
Lat: 35-13-20 N  
Long: 082-32-58 W  
ERP: 144.00 kW  
HAAT: 552.0  
RCAMSL: 1255.8 m

**Polygon Population Report**  
2020 US Census  
Area with Only 4 Other Services  
inside of the proposed  
WLOS-D Loss Area

Total Population: 418  
Housing Units: 263  
Total Area: 26.3 sq. km

**Polygon Population Report**  
2020 US Census  
Area with Only 3 Other Services  
inside of the proposed  
WLOS-D Loss Area

Total Population: 0  
Total Area: 11.1 sq. km



**Close Up**

Service Count:

- 1
- 2
- 3
- 4
- 5 or more

Scale 1:2,000,000  
0 20 40 60 km



# WLOS - Ch. 13 - Asheville, North Carolina

## LIST OF DTV STATIONS USED TO DETERMINE REMAINING SERVICE

Call Sign	Lic	Chan.	Svc	Cls	City	ST	DA	Power
-----	---	----	---	---	-----	--	--	-----
WNGH-TV	LI	4	T	2E	Chatsworth	GA	No	11.2
WPXA-TV	LI	16	T	2C	Rome	GA	Yes	687.0
WGTA-D	LI	24	T	2C	Toccoa	GA	Yes	240.0
WYMT-TV	LI	12	T	2C	Hazard	KY	No	50.0
WKPI-TV	LI	23	T	2E	Pikeville	KY	No	45.1
WKHA-D	LI	33	T	2E	Hazard	KY	No	55.9
WAGV-D	LI	51	T	2C	Harlan	KY	No	550.0
WTVI-D	LI	9	T	2E	Charlotte	NC	No	2.57
WYCW-D	LI	11	H	2C	Asheville	NC	No	33.5
WCCB-D	LI	18	T	2C	Charlotte	NC	Yes	3.0
WSOC-TV	LI	19	T	2C	Charlotte	NC	No	1000.0
WUNG-TV	LI	21	T	2E	Concord	NC	No	260.0
WBTB-D	LI	23	T	2C	Charlotte	NC	No	1000.0
WCNC-TV	LI	24	T	2C	Charlotte	NC	Yes	857.0
WJZY-D	LI	25	T	2C	Belmont	NC	Yes	000.0
WAXN-TV	LI	32	T	2C	Kannapolis	NC	Yes	200.0
WUNE-TV	LI	36	T	2E	Linville	NC	Yes	1000.0
WGGT-TV	LI	2	T	2C	Greenville	SC	No	33.0
WNTV-D	LI	8	T	2E	Greenville	SC	Yes	180.0
WRET-TV	LI	9	H	2E	Spartanburg	SC	Yes	180.0
WSPA-TV	LI	11	T	2C	Spartanburg	SC	No	33.5
WHNS-D	LI	17	T	2C	Greenville	SC	Yes	364.0
WMYT-TV	LI	25	H	2C	Rock Hill	SC	Yes	1000.0
WNEH-D	LI	26	T	2E	Greenwood	SC	No	147.0
WYFF-D	LI	30	T	2C	Greenville	SC	No	1000.0
WNSC-TV	LI	34	T	2E	Rock Hill	SC	Yes	1000.0
WMYA-TV	LI	35	T	2C	Anderson	SC	Yes	750.0
WKNX-TV	LI	7	T	2C	Knoxville	TN	Yes	55.0
WJHL-TV	LI	9	T	2C	Johnson City	TN	Yes	38.0
WBIR-TV	LI	10	T	2C	Knoxville	TN	No	40.9
WTNZ-D	LI	15	T	2C	Knoxville	TN	No	280.0
WPXK-TV	LI	18	T	2C	Jellico	TN	Yes	1000.0
WETP-TV	LI	24	T	2E	Sneedville	TN	No	313.0
WATE-TV	LI	26	T	2C	Knoxville	TN	No	930.0
WEMT-D	LI	28	T	2C	Greeneville	TN	Yes	1000.0
WKOP-TV	LI	29	T	2E	Knoxville	TN	No	146.0

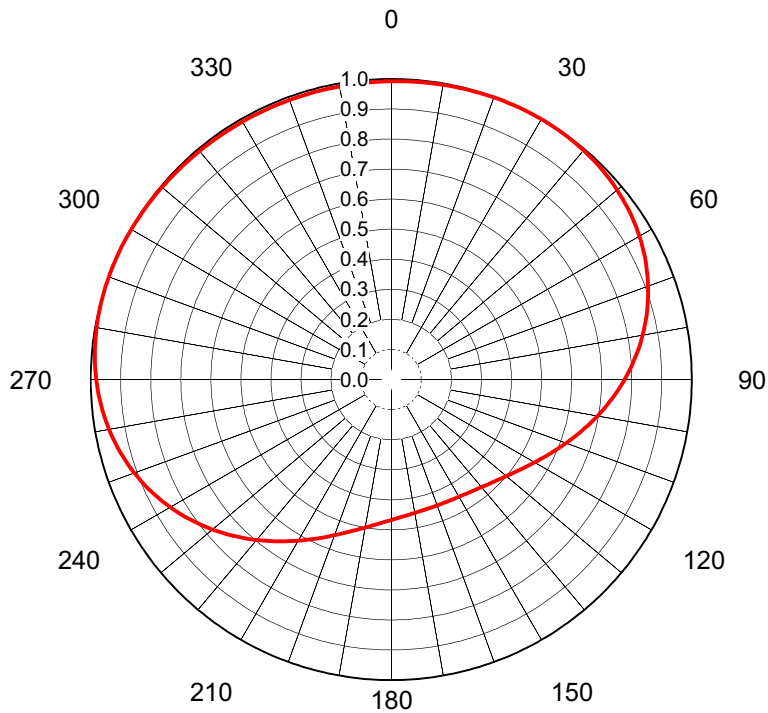


**WLOS - Ch. 13 - Asheville, North Carolina**

**List of DTV stations used to determine remaining services**

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<b>WBXX-TV</b>	<b>LI</b>	<b>31</b>	<b>T</b>	<b>2C</b>	<b>Crossville</b>	<b>TN</b>	<b>No</b>	<b>834.0</b>
<b>WKPT-TV</b>	<b>LI</b>	<b>32</b>	<b>T</b>	<b>2C</b>	<b>Kingsport</b>	<b>TN</b>	<b>Yes</b>	<b>265.0</b>
<b>WVLT-TV</b>	<b>LI</b>	<b>34</b>	<b>T</b>	<b>2C</b>	<b>Knoxville</b>	<b>TN</b>	<b>No</b>	<b>1000.0</b>
<b>WVLR-D</b>	<b>LI</b>	<b>36</b>	<b>T</b>	<b>2C</b>	<b>Tazewell</b>	<b>TN</b>	<b>Yes</b>	<b>798.0</b>
<b>WCYB-TV</b>	<b>LI</b>	<b>35</b>	<b>T</b>	<b>2C</b>	<b>Bristol</b>	<b>VA</b>	<b>No</b>	<b>1000.0</b>
<b>WLFG-D</b>	<b>LI</b>	<b>49</b>	<b>T</b>	<b>2C</b>	<b>Grundy</b>	<b>VA</b>	<b>No</b>	<b>1000.0</b>



## AZIMUTH PATTERN Horizontal Polarization

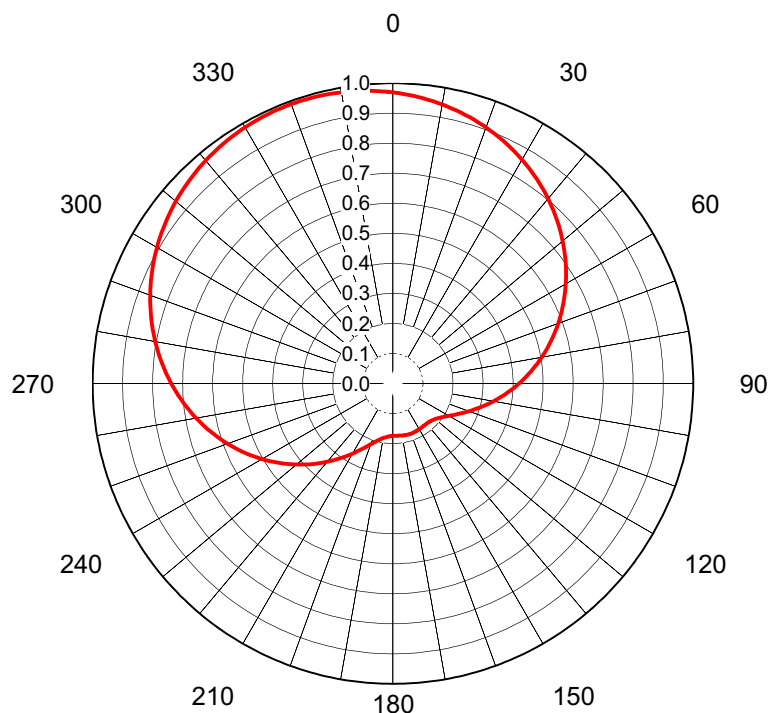
Proposal No. **C-80011-3**  
 Date **10-May-23**  
 Call Letters **WLOS**  
 Channel **13**  
 Frequency **213 MHz**  
 Antenna Type **THV-7A13/VP-R C150**  
 Gain **1.45 (1.62dB)**  
 Calculated

Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.992	36	0.998	72	0.899	108	0.634	144	0.459	180	0.467	216	0.665	252	0.920	288	1.000
1	0.993	37	0.998	73	0.893	109	0.627	145	0.457	181	0.470	217	0.673	253	0.924	289	1.000
2	0.993	38	0.997	74	0.887	110	0.619	146	0.456	182	0.472	218	0.681	254	0.929	290	1.000
3	0.993	39	0.996	75	0.881	111	0.612	147	0.454	183	0.475	219	0.689	255	0.933	291	1.000
4	0.993	40	0.995	76	0.875	112	0.604	148	0.453	184	0.478	220	0.697	256	0.938	292	1.000
5	0.994	41	0.995	77	0.869	113	0.597	149	0.452	185	0.481	221	0.705	257	0.942	293	1.000
6	0.994	42	0.994	78	0.863	114	0.590	150	0.451	186	0.485	222	0.713	258	0.946	294	1.000
7	0.994	43	0.992	79	0.856	115	0.583	151	0.450	187	0.488	223	0.721	259	0.950	295	1.000
8	0.995	44	0.991	80	0.849	116	0.577	152	0.449	188	0.492	224	0.729	260	0.953	296	1.000
9	0.995	45	0.990	81	0.843	117	0.570	153	0.448	189	0.496	225	0.737	261	0.957	297	0.999
10	0.995	46	0.988	82	0.836	118	0.564	154	0.448	190	0.500	226	0.745	262	0.960	298	0.999
11	0.996	47	0.987	83	0.829	119	0.557	155	0.447	191	0.504	227	0.753	263	0.963	299	0.999
12	0.996	48	0.985	84	0.822	120	0.551	156	0.447	192	0.509	228	0.761	264	0.966	300	0.999
13	0.997	49	0.983	85	0.814	121	0.545	157	0.446	193	0.513	229	0.769	265	0.969	301	0.998
14	0.997	50	0.981	86	0.807	122	0.539	158	0.446	194	0.518	230	0.777	266	0.972	302	0.998
15	0.997	51	0.979	87	0.799	123	0.534	159	0.446	195	0.523	231	0.784	267	0.974	303	0.998
16	0.998	52	0.977	88	0.792	124	0.528	160	0.446	196	0.528	232	0.792	268	0.977	304	0.998
17	0.998	53	0.974	89	0.784	125	0.523	161	0.446	197	0.534	233	0.799	269	0.979	305	0.997
18	0.998	54	0.972	90	0.777	126	0.518	162	0.446	198	0.539	234	0.807	270	0.981	306	0.997
19	0.998	55	0.969	91	0.769	127	0.513	163	0.446	199	0.545	235	0.814	271	0.983	307	0.997
20	0.999	56	0.966	92	0.761	128	0.509	164	0.447	200	0.551	236	0.822	272	0.985	308	0.996
21	0.999	57	0.963	93	0.753	129	0.504	165	0.447	201	0.557	237	0.829	273	0.987	309	0.996
22	0.999	58	0.960	94	0.745	130	0.500	166	0.448	202	0.564	238	0.836	274	0.988	310	0.995
23	0.999	59	0.957	95	0.737	131	0.496	167	0.448	203	0.570	239	0.843	275	0.990	311	0.995
24	1.000	60	0.953	96	0.729	132	0.492	168	0.449	204	0.577	240	0.849	276	0.991	312	0.995
25	1.000	61	0.950	97	0.721	133	0.488	169	0.450	205	0.583	241	0.856	277	0.992	313	0.994
26	1.000	62	0.946	98	0.713	134	0.485	170	0.451	206	0.590	242	0.863	278	0.994	314	0.994
27	1.000	63	0.942	99	0.705	135	0.481	171	0.452	207	0.597	243	0.869	279	0.995	315	0.994
28	1.000	64	0.938	100	0.697	136	0.478	172	0.453	208	0.604	244	0.875	280	0.995	316	0.993
29	1.000	65	0.933	101	0.689	137	0.475	173	0.454	209	0.612	245	0.881	281	0.996	317	0.993
30	1.000	66	0.929	102	0.681	138	0.472	174	0.456	210	0.619	246	0.887	282	0.997	318	0.993
31	1.000	67	0.924	103	0.673	139	0.470	175	0.457	211	0.627	247	0.893	283	0.998	319	0.993
32	1.000	68	0.920	104	0.665	140	0.467	176	0.459	212	0.634	248	0.899	284	0.998	320	0.992
33	0.999	69	0.914	105	0.657	141	0.465	177	0.461	213	0.642	249	0.904	285	0.999	321	0.992
34	0.999	70	0.909	106	0.649	142	0.463	178	0.463	214	0.649	250	0.909	286	0.999	322	0.992
35	0.999	71	0.904	107	0.642	143	0.461	179	0.465	215	0.657	251	0.914	287	0.999	323	0.992

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## AZIMUTH PATTERN Vertical Polarization

Proposal No. **C-80011-3**  
 Date **10-May-23**  
 Call Letters **WLOS**  
 Channel **13**  
 Frequency **213 MHz**  
 Antenna Type **THV-7A13/VP-R C150**  
 Gain **2.32 (3.66dB)**  
 Calculated



Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value	Deg	Value
0	0.969	36	0.827	72	0.569	108	0.282	144	0.174	180	0.174	216	0.310	252	0.602	288	0.850
1	0.967	37	0.822	73	0.561	109	0.276	145	0.174	181	0.175	217	0.317	253	0.610	289	0.855
2	0.965	38	0.816	74	0.553	110	0.269	146	0.175	182	0.175	218	0.325	254	0.618	290	0.860
3	0.963	39	0.810	75	0.545	111	0.263	147	0.175	183	0.176	219	0.332	255	0.626	291	0.865
4	0.960	40	0.804	76	0.536	112	0.257	148	0.175	184	0.176	220	0.340	256	0.634	292	0.870
5	0.958	41	0.797	77	0.528	113	0.251	149	0.175	185	0.177	221	0.348	257	0.642	293	0.875
6	0.955	42	0.791	78	0.520	114	0.245	150	0.176	186	0.178	222	0.355	258	0.649	294	0.880
7	0.952	43	0.785	79	0.511	115	0.240	151	0.176	187	0.179	223	0.363	259	0.657	295	0.885
8	0.950	44	0.778	80	0.503	116	0.234	152	0.176	188	0.181	224	0.371	260	0.665	296	0.890
9	0.947	45	0.772	81	0.495	117	0.229	153	0.176	189	0.182	225	0.379	261	0.672	297	0.894
10	0.944	46	0.765	82	0.486	118	0.224	154	0.177	190	0.184	226	0.387	262	0.680	298	0.899
11	0.940	47	0.758	83	0.478	119	0.220	155	0.177	191	0.186	227	0.395	263	0.687	299	0.903
12	0.937	48	0.752	84	0.470	120	0.215	156	0.177	192	0.188	228	0.403	264	0.695	300	0.907
13	0.934	49	0.745	85	0.461	121	0.211	157	0.177	193	0.191	229	0.412	265	0.702	301	0.911
14	0.930	50	0.738	86	0.453	122	0.207	158	0.177	194	0.194	230	0.420	266	0.710	302	0.915
15	0.927	51	0.731	87	0.445	123	0.203	159	0.177	195	0.197	231	0.428	267	0.717	303	0.919
16	0.923	52	0.724	88	0.436	124	0.200	160	0.177	196	0.200	232	0.436	268	0.724	304	0.923
17	0.919	53	0.717	89	0.428	125	0.197	161	0.177	197	0.203	233	0.445	269	0.731	305	0.927
18	0.915	54	0.710	90	0.420	126	0.194	162	0.177	198	0.207	234	0.453	270	0.738	306	0.930
19	0.911	55	0.702	91	0.412	127	0.191	163	0.177	199	0.211	235	0.461	271	0.745	307	0.934
20	0.907	56	0.695	92	0.403	128	0.188	164	0.177	200	0.215	236	0.470	272	0.752	308	0.937
21	0.903	57	0.687	93	0.395	129	0.186	165	0.177	201	0.220	237	0.478	273	0.758	309	0.940
22	0.899	58	0.680	94	0.387	130	0.184	166	0.177	202	0.224	238	0.486	274	0.765	310	0.944
23	0.894	59	0.672	95	0.379	131	0.182	167	0.176	203	0.229	239	0.495	275	0.772	311	0.947
24	0.890	60	0.665	96	0.371	132	0.181	168	0.176	204	0.234	240	0.503	276	0.778	312	0.950
25	0.885	61	0.657	97	0.363	133	0.179	169	0.176	205	0.240	241	0.511	277	0.785	313	0.952
26	0.880	62	0.649	98	0.355	134	0.178	170	0.176	206	0.245	242	0.520	278	0.791	314	0.955
27	0.875	63	0.642	99	0.348	135	0.177	171	0.175	207	0.251	243	0.528	279	0.797	315	0.958
28	0.870	64	0.634	100	0.340	136	0.176	172	0.175	208	0.257	244	0.536	280	0.804	316	0.960
29	0.865	65	0.626	101	0.332	137	0.176	173	0.175	209	0.263	245	0.545	281	0.810	317	0.963
30	0.860	66	0.618	102	0.325	138	0.175	174	0.175	210	0.269	246	0.553	282	0.816	318	0.965
31	0.855	67	0.610	103	0.317	139	0.175	175	0.174	211	0.276	247	0.561	283	0.822	319	0.967
32	0.850	68	0.602	104	0.310	140	0.174	176	0.174	212	0.282	248	0.569	284	0.827	320	0.969
33	0.844	69	0.594	105	0.303	141	0.174	177	0.174	213	0.289	249	0.578	285	0.833	321	0.971
34	0.839	70	0.586	106	0.296	142	0.174	178	0.174	214	0.296	250	0.586	286	0.839	322	0.973
35	0.833	71	0.578	107	0.289	143	0.174	179	0.174	215	0.303	251	0.594	287	0.844	323	0.975

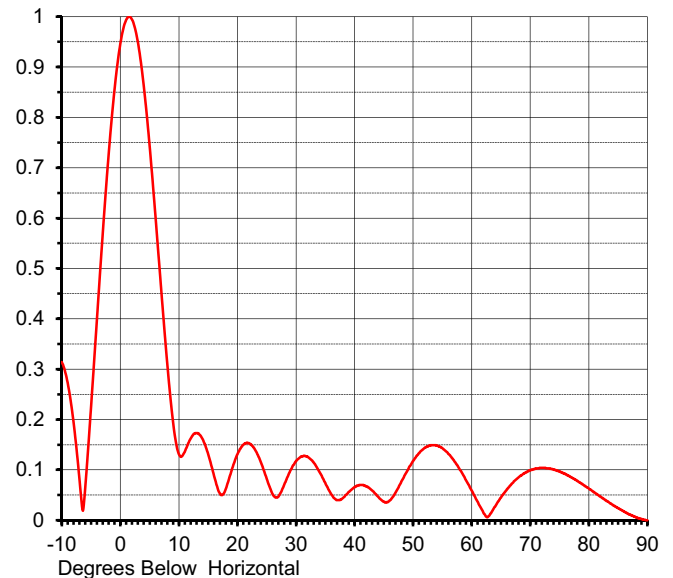
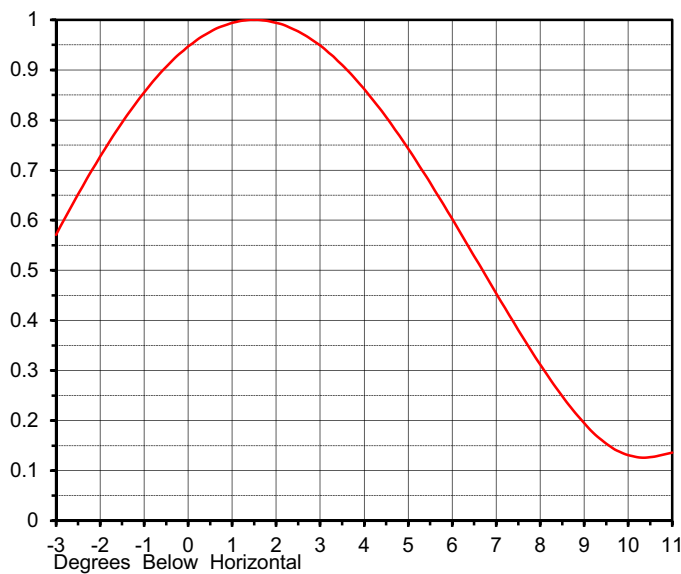
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## ELEVATION PATTERN

Proposal No. **C-80011-3**  
 Date **10-May-23**  
 Call Letters **WLOS**  
 Channel **13**  
 Frequency **213 MHz**  
 Antenna Type **THV-7A13/VP-R C150**

RMS Directivity at Main Lobe **7.0 ( 8.45 dB )**  
 RMS Directivity at Horizontal **6.3 ( 7.99 dB )**  
**Calculated**

Beam Tilt **1.50 deg**  
 Pattern Number **07V070150**



Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.314	10.0	0.131	30.0	0.117	50.0	0.118	70.0	0.099
-9.0	0.273	11.0	0.136	31.0	0.127	51.0	0.133	71.0	0.103
-8.0	0.195	12.0	0.162	32.0	0.126	52.0	0.144	72.0	0.104
-7.0	0.083	13.0	0.173	33.0	0.115	53.0	0.149	73.0	0.103
-6.0	0.065	14.0	0.162	34.0	0.096	54.0	0.148	74.0	0.101
-5.0	0.226	15.0	0.131	35.0	0.074	55.0	0.143	75.0	0.097
-4.0	0.400	16.0	0.088	36.0	0.052	56.0	0.132	76.0	0.092
-3.0	0.571	17.0	0.053	37.0	0.040	57.0	0.118	77.0	0.085
-2.0	0.727	18.0	0.062	38.0	0.044	58.0	0.100	78.0	0.078
-1.0	0.855	19.0	0.099	39.0	0.056	59.0	0.080	79.0	0.071
0.0	0.947	20.0	0.131	40.0	0.066	60.0	0.059	80.0	0.063
1.0	0.994	21.0	0.150	41.0	0.070	61.0	0.037	81.0	0.055
2.0	0.994	22.0	0.153	42.0	0.067	62.0	0.015	82.0	0.047
3.0	0.949	23.0	0.140	43.0	0.059	63.0	0.009	83.0	0.039
4.0	0.862	24.0	0.115	44.0	0.047	64.0	0.027	84.0	0.031
5.0	0.743	25.0	0.082	45.0	0.037	65.0	0.045	85.0	0.024
6.0	0.603	26.0	0.052	46.0	0.039	66.0	0.061	86.0	0.017
7.0	0.454	27.0	0.047	47.0	0.055	67.0	0.074	87.0	0.011
8.0	0.312	28.0	0.071	48.0	0.077	68.0	0.085	88.0	0.006
9.0	0.195	29.0	0.098	49.0	0.098	69.0	0.093	89.0	0.002
								90.0	0.000

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# WLOS

Channel 13 - Asheville, North Carolina

ERP = 144000.00 WATTS

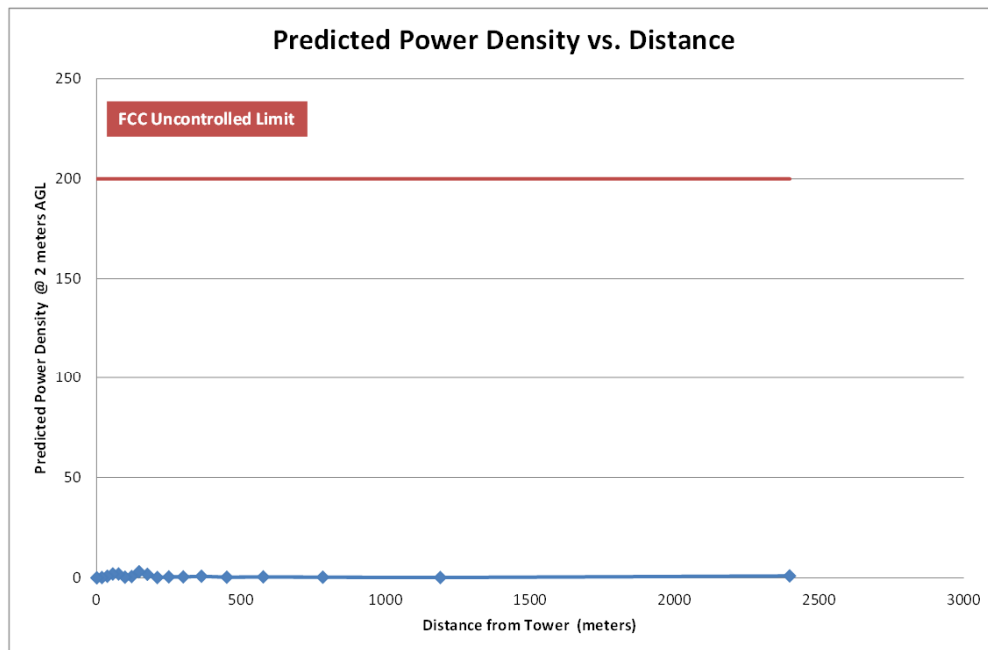
## APPENDIX A

Maximum ERP 144 kW

Polarization ----- 2 Circular  
Antenna Height Above Ground -- 211.8 meters 694.9 feet  
FCC Uncontrolled RFR Limit ---- 200  $\mu\text{W}/\text{cm}^2$

Maximum Computed Power Density 2.999  $\mu\text{W}/\text{cm}^2$   
1.50% of limit

Angle Below Horizontal (degrees)	<Point X> Horiz Distance from tower to 2 m AGL (meters)	Slant Distance from antenna to Point X (meters)	Vertical Pattern (REL. FIELD)	WLOS ERP (kW)	WLOS Calculated Power Density $\mu\text{W}/\text{cm}^2$	Percent Limit	Limit Exceeded?
0			0.947	129.1405			
5	2398.0	2407.2	0.743	79.4951	0.916	0.46%	No
10	1189.8	1208.2	0.131	2.4712	0.113	0.06%	No
15	783.0	810.6	0.131	2.4712	0.251	0.13%	No
20	576.4	613.4	0.131	2.4712	0.439	0.22%	No
25	449.9	496.4	0.082	0.9683	0.262	0.13%	No
30	363.4	419.6	0.117	1.9712	0.748	0.37%	No
35	299.6	365.8	0.074	0.7885	0.394	0.20%	No
40	250.0	326.4	0.066	0.6273	0.393	0.20%	No
45	209.8	296.7	0.037	0.1971	0.150	0.07%	No
50	176.0	273.9	0.118	2.0051	1.786	0.89%	No
55	146.9	256.1	0.143	2.9447	2.999	1.50%	No
60	121.1	242.3	0.059	0.5013	0.571	0.29%	No
65	97.8	231.5	0.045	0.2916	0.364	0.18%	No
70	76.4	223.3	0.099	1.4113	1.891	0.95%	No
75	56.2	217.2	0.097	1.3549	1.918	0.96%	No
80	37.0	213.0	0.063	0.5715	0.841	0.42%	No
85	18.4	210.6	0.024	0.0829	0.125	0.06%	No
90	0.0	209.8	0.000	0.0000	0.000	0.00%	No





# WLOS - ASHEVILLE, NORTH CAROLINA

## MAY 2023

### APPENDIX B

### Longley-Rice Interference Analysis

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: WLOS 13 1255p8C 552H C150 oo, Model: Longley-Rice  
Start: 2023.02.27 11:48:29

Study created: 2023.02.27 11:48:29

Study build station data: LMS TV 2023-02-27

Proposal: WLOS D13 DT APP ASHEVILLE, NC  
File number: WLOS 13 1255p8C 552H C150 oo  
Facility ID: 56537  
Station data: User record  
Record ID: 57  
Country: U.S.  
Zone: II

Build options:  
tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: WLOS APP 144 kW 1Xp2, Model: Longley-Rice  
Start: 2023.05.09 12:22:22

Study created: 2023.05.09 12:22:22

Study build station data: LMS TV 2023-05-09

Proposal: WLOS D13 DT APP ASHEVILLE, NC  
File number: WLOS APP reduced 144 kW  
Facility ID: 56537  
Station data: User record  
Record ID: 778  
Country: U.S.  
Zone: II

Build options:  
Protect pre-transition records not on baseline channel

Search options:  
Non-U.S. records included  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WRDW-TV	D12	DT	LIC	AUGUSTA, GA	BLCDT20090227ABQ	211.6 km
No	WYMT-TV	D12	DT	LIC	HAZARD, KY	BLCDT20040109ACY	226.4
Yes	WMAZ-TV	D13	DT	LIC	MACON, GA	BLCDT20090617AAN	289.8
Yes	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	355.6
Yes	WBKO	D13	DT	CP	BOWLING GREEN, KY	BLANK0000035946	404.3
Yes	WBKO	D13	DT	LIC	BOWLING GREEN, KY	BLCDT20090423ABM	404.3
Yes	WBTW	D13	DT	LIC	FLORENCE, SC	BLCDT20090612AIR	309.5
Yes	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	251.2
Yes	WBRA-TV	D13	DT	CP	ROANOKE, VA	BLANK0000213023	307.0

No non-directional AM stations found within 0.8 km

# **Appendix B - Interference Analysis** **WLOS - Asheville, North Carolina** **Channel 13 -144 kW - Page 2**

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D13  
Latitude: 35 13 20.00 N (NAD83)  
Longitude: 82 32 58.00 W  
Height AMSL: 1255.8 m  
HAAT: 552.0 m  
Peak ERP: 144 kW  
Antenna: Dielectric-THV-7A13/VP-R C150 (ID 1010591) 0.0 deg  
Elev Pattn: Generic  
Elec Tilt: 1.50

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	142 kW	568.4 m	139.1 km
45.0	141	596.9	140.7
90.0	86.9	511.8	128.2
135.0	33.7	691.3	128.5
180.0	31.4	649.5	126.0
225.0	78.2	406.4	118.3
270.0	139	497.8	132.7
315.0	142	490.9	132.4

ERP exceeds maximum

ERP: 144 kW ERP maximum: 39.7 kW

Distance to Canadian border: 717.5 km

Distance to Mexican border: 1713.7 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 233.4 degrees Distance: 249.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 292.1 degrees Distance: 2061.5 km

Please process according the these size and spacing parameters.

Study cell size: 1.00 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 BLCDT20090617AAN LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMAZ-TV	D13	DT	LIC	MACON, GA	BLCDT20090617AAN	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	306.1 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	289.8
	WTLV	D13	DT	LIC	JACKSONVILLE, FL	BLCDT20090702AAJ	334.7
	WMBB	D13	DT	LIC	PANAMA CITY, FL	BLCDT20090220AAF	318.3
	WBFL-CD	D13-	DC	LIC	VALDOSTA, GA	BLANK0000004604	232.7
	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	312.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
32865.1	1,182,470	31258.4	1,132,235	29340.4	1,048,477	29576.4 1,049,964	-0.80 -0.14
Undesired		Total IX		Unique IX, before		Unique IX, after	
WLOS D13 DT BL		998.5	50,477	873.6	36,820		
WLOS D13 DT APP		873.1	55,216			637.6 35,333	
WTLV D13 DT LIC		251.9	5,033	185.3	4,726	175.3 4,502	

**Appendix B - Interference Analysis**  
**WLOS - Asheville, North Carolina**  
**Channel 13 -144 kW - Page 3**

WMBB D13 DT LIC	516.2	15,743	446.6	15,436	446.6	15,436
WBFL-CD D13- DC LIC	34.3	71	0.0	0	0.0	0
WRCB D13 DT LIC	341.8	26,454	216.9	12,812	116.4	6,810

-----  
Interference to BLANK0000117277 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	334.3 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	355.6
	WTHR	D13	DT	LIC	INDIANAPOLIS, IN	BLANK0000153712	366.3
	WTVG	D13	DT	LIC	TOLEDO, OH	BLANK0000143483	372.8
	WBRA-TV	D13	DT	CP	ROANOKE, VA	BLANK0000213023	239.7
	WVFX	D13	DT	LIC	CLARKSBURG, WV	BLANK0000179139	203.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
22264.4	923,428	21272.8	851,130	21016.9	841,692	21018.9 841,433	-0.01 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WLOS D13 DT BL	9.1 96	3.0 0	
WLOS D13 DT APP	2.0 259		1.0 259
WTHR D13 DT LIC	1.0 0	0.0 0	0.0 0
WTVG D13 DT LIC	2.0 0	0.0 0	0.0 0
WBRA-TV D13 DT CP	86.9 4,713	40.0 3,265	42.0 3,265
WVFX D13 DT LIC	209.9 6,173	162.0 4,648	164.0 4,725

-----  
Interference to BLANK0000117277 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	334.3 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	355.6
	WTHR	D13	DT	APP	INDIANAPOLIS, IN	BPCDT20130702ABM	366.3
	WTVG	D13	DT	LIC	TOLEDO, OH	BLANK0000143483	372.8
	WBRA-TV	D13	DT	CP	ROANOKE, VA	BLANK0000213023	239.7
	WVFX	D13	DT	LIC	CLARKSBURG, WV	BLANK0000179139	203.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
22264.4	923,428	21272.8	851,130	21016.9	841,692	21018.9 841,433	-0.01 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WLOS D13 DT BL	9.1 96	3.0 0	
WLOS D13 DT APP	2.0 259		1.0 259
WTHR D13 DT APP	2.0 10	0.0 0	0.0 0
WTVG D13 DT LIC	2.0 0	0.0 0	0.0 0
WBRA-TV D13 DT CP	86.9 4,713	40.0 3,265	42.0 3,265
WVFX D13 DT LIC	209.9 6,173	161.0 4,638	163.0 4,715

-----  
Interference to BLANK0000035946 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBKO	D13	DT	CP	BOWLING GREEN, KY	BLANK0000035946	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	376.6 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	404.3
	WEHT	D12	DT	LIC	EVANSVILLE, IN	BLANK0000120480	133.9
	WPXS	D13	DT	LIC	MOUNT VERNON, IL	BLANK0000116945	336.4
	WTHR	D13	DT	LIC	INDIANAPOLIS, IN	BLANK0000153712	319.2
	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	234.2
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDT20100917AAC	371.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31272.7	1,333,816	29298.6	1,204,749	28769.0	1,127,373	28776.0 1,127,445	-0.02 -0.01



**Appendix B - Interference Analysis**  
**WLOS - Asheville, North Carolina**  
**Channel 13 -144 kW - Page 4**

Undesired		Total IX	Unique IX, before	Unique IX, after
WLOS D13 DT BL	20.0	785	7.0	72
WEHT D12 DT LIC	113.5	39,309	47.6	19,005
WPXS D13 DT LIC	212.2	25,987	116.2	2,752
WTHR D13 DT LIC	146.8	19,582	98.2	9,212
WRCB D13 DT LIC	68.1	8,287	52.1	7,371
WHBQ-TV D13 DT LIC	112.4	17,549	93.3	14,813

-----  
Interference to BLANK0000035946 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBKO	D13	DT	CP	BOWLING GREEN, KY	BLANK0000035946	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	376.6 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	404.3
	WEHT	D12	DT	LIC	EVANSVILLE, IN	BLANK0000120480	133.9
	WPXS	D13	DT	LIC	MOUNT VERNON, IL	BLANK0000116945	336.4
	WTHR	D13	DT	APP	INDIANAPOLIS, IN	BPCDT20130702ABM	319.2
	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	234.2
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDDT20100917AAC	371.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31272.7		1,333,816		29298.6		1,204,749	-0.02 -0.01

Undesired		Total IX	Unique IX, before	Unique IX, after
WLOS D13 DT BL	20.0	785	7.0	72
WEHT D12 DT LIC	113.5	39,309	43.6	16,968
WPXS D13 DT LIC	212.2	25,987	91.8	2,613
WTHR D13 DT APP	263.4	35,740	172.1	16,563
WRCB D13 DT LIC	68.1	8,287	51.1	7,320
WHBQ-TV D13 DT LIC	112.4	17,549	93.3	14,813

-----  
Interference to BLCDDT20090423ABM LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBKO	D13	DT	LIC	BOWLING GREEN, KY	BLCDDT20090423ABM	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	376.6 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	404.3
	WEHT	D12	DT	LIC	EVANSVILLE, IN	BLANK0000120480	133.9
	WPXS	D13	DT	LIC	MOUNT VERNON, IL	BLANK0000116945	336.4
	WTHR	D13	DT	LIC	INDIANAPOLIS, IN	BLANK0000153712	319.2
	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	234.2
	WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDDT20100917AAC	371.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
27763.8		968,584		25881.2		852,803	-0.01 -0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WLOS D13 DT BL	9.0	66	2.0	10
WEHT D12 DT LIC	51.7	5,144	10.1	1,752
WPXS D13 DT LIC	227.5	5,952	145.6	1,511
WTHR D13 DT LIC	122.6	4,995	72.9	3,497
WRCB D13 DT LIC	50.2	7,388	43.2	7,332
WHBQ-TV D13 DT LIC	107.3	6,099	91.3	5,175

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Interference to BLCDDT20090423ABM LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBKO	D13	DT	LIC	BOWLING GREEN, KY	BLCDDT20090423ABM	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	376.6 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	404.3
	WEHT	D12	DT	LIC	EVANSVILLE, IN	BLANK0000120480	133.9

**Appendix B - Interference Analysis**  
**WLOS - Asheville, North Carolina**  
**Channel 13 -144 kW - Page 5**

WPXS	D13	DT	LIC	MOUNT VERNON, IL	BLANK0000116945	336.4
WTHR	D13	DT	APP	INDIANAPOLIS, IN	BPCDT20130702AEM	319.2
WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	234.2
WHBQ-TV	D13	DT	LIC	MEMPHIS, TN	BLCDT20100917AAC	371.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27763.8	968,584	25881.2	852,803	25345.0	825,786	25347.0	825,796	-0.01	-0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
WLOS D13 DT BL	9.0	66	2.0	10					
WEHT D12 DT LIC	51.7	5,144	8.1	1,633	8.1	1,633			
WPXS D13 DT LIC	227.5	5,952	100.9	1,095	100.9	1,095			
WTHR D13 DT APP	264.5	9,626	155.0	6,740	155.0	6,740			
WRCB D13 DT LIC	50.2	7,388	39.2	7,329	46.2	7,385			
WHBQ-TV D13 DT LIC	107.3	6,099	91.3	5,175	91.3	5,175			

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Interference to BLCDT20090612AIR LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBTW	D13	DT	LIC	FLORENCE, SC	BLCDT20090612AIR	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	334.4 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	309.5
	WSKY-TV	D13	DT	LIC	MANTEO, NC	BLANK0000116863	363.2
	WBRA-TV	D13	DT	CP	ROANOKE, VA	BLANK0000213023	323.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
47646.6	1,979,371	46715.8	1,953,451	45357.6	1,902,838	45256.9	1,902,760	0.22	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
WLOS D13 DT BL	1028.7	32,063	882.1	28,810					
WLOS D13 DT APP	1184.1	33,254			982.8	28,888			
WSKY-TV D13 DT LIC	83.7	4,696	32.9	1,709	32.9	1,709			
WBRA-TV D13 DT CP	443.1	20,094	245.8	13,854	193.1	12,836			

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Interference to BLANK0000212015 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	233.9 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	251.2
	WCIQ	D12	DT	LIC	MOUNT CHEAHA, AL	BLANK0000117443	191.7
	WMAZ-TV	D13	DT	LIC	MACON, GA	BLCDT20090617AAN	312.8
	WBKO	D13	DT	CP	BOWLING GREEN, KY	BLANK0000035946	234.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34918.8	1,692,809	29759.7	1,441,947	28825.0	1,393,297	28891.0	1,395,431	-0.23	-0.15
Undesired		Total IX		Unique IX, before		Unique IX, after			
WLOS D13 DT BL	274.9	12,162	154.4	6,681					
WLOS D13 DT APP	171.9	10,832			88.4	4,547			
WCIQ D12 DT LIC	1.0	0	0.0	0	0.0	0			
WMAZ-TV D13 DT LIC	188.2	13,371	142.9	12,012	109.7	7,092			
WBKO D13 DT CP	597.1	28,730	512.8	24,426	584.1	28,517			

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Interference to BLANK0000212015 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	233.9 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	251.2
	WCIQ	D12	DT	LIC	MOUNT CHEAHA, AL	BLANK0000117443	191.7
	WMAZ-TV	D13	DT	LIC	MACON, GA	BLCDT20090617AAN	312.8

**Appendix B - Interference Analysis**  
**WLOS - Asheville, North Carolina**  
**Channel 13 -144 kW - Page 6**

WBKO	D13	DT	LIC	BOWLING GREEN, KY	BLCDT20090423ABM	234.2		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
34918.8	1,692,809	29759.7	1,441,947	29038.8	1,405,522	29109.8	1,407,739	-0.24 -0.16
Undesired		Total IX		Unique IX, before		Unique IX, after		
WLOS D13 DT BL		274.9	12,162	161.4	6,807			
WLOS D13 DT APP		171.9	10,832			90.4	4,590	
WCIQ D12 DT LIC		1.0	0	0.0	0	0.0	0	
WMAZ-TV D13 DT LIC		188.2	13,371	143.9	12,012	110.7	7,156	
WBKO D13 DT LIC		374.2	16,315	298.9	12,201	365.2	16,209	

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Interference to BLANK0000213023 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBRA-TV	D13	DT	CP	ROANOKE, VA	BLANK0000213023	
Undesireds:	WLOS	D13	DT	BL	ASHEVILLE, NC	DTVBL56537	305.0 km
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	307.0
	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	239.7
	WSKY-TV	D13	DT	LIC	MANTEO, NC	BLANK0000116863	350.5
	WBTW	D13	DT	LIC	FLORENCE, SC	BLCDT20090612AIR	323.2
	WVFX	D13	DT	LIC	CLARKSBURG, WV	BLANK0000179139	234.5
	WWPX-TV	D13	DT	LIC	MARTINSBURG, WV	BLANK0000117578	308.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
51058.7	1,689,844	46044.2	1,509,734	45491.1	1,485,745	45450.8	1,484,422	0.09 0.09
Undesired		Total IX		Unique IX, before		Unique IX, after		
WLOS D13 DT BL		170.2	9,631	89.4	2,734			
WLOS D13 DT APP		205.3	8,711			129.7	4,057	
WTSF D13 DT LIC		150.4	8,352	65.4	1,590	70.5	1,999	
WSKY-TV D13 DT LIC		142.0	2,201	119.0	1,574	119.0	1,574	
WBTW D13 DT LIC		128.7	6,934	56.3	2,322	46.3	1,694	
WVFX D13 DT LIC		130.4	10,214	48.4	3,600	52.5	3,887	
WWPX-TV D13 DT LIC		9.1	508	9.1	508	9.1	508	

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Interference to proposal scenario 1 **Applicant Accepts predicted received interference**  
2.35% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	
Undesireds:	WMAZ-TV	D13	DT	LIC	MACON, GA	BLCDT20090617AAN	289.8 km
	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	355.6
	WBKO	D13	DT	CP	BOWLING GREEN, KY	BLANK0000035946	404.3
	WBTW	D13	DT	LIC	FLORENCE, SC	BLCDT20090612AIR	309.5
	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	251.2
	WBRA-TV	D13	DT	CP	ROANOKE, VA	BLANK0000213023	307.0

Service area		Terrain-limited		IX-free		Percent IX	
54053.4	3,468,856	46568.7	2,951,653	46002.5	2,882,261	1.22	2.35
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WMAZ-TV D13 DT LIC		134.4	6,210	116.4	5,072	0.25	0.17
WTSF D13 DT LIC		3.0	52	0.0	0	0.00	0.00
WBKO D13 DT CP		5.0	155	1.0	0	0.00	0.00
WBTW D13 DT LIC		254.5	46,864	182.8	34,914	0.39	1.18
WRCB D13 DT LIC		111.3	4,281	77.2	2,502	0.17	0.08
WBRA-TV D13 DT CP		164.8	25,561	81.9	13,173	0.18	0.45

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Interference to proposal scenario 2 **Applicant Accepts predicted received interference**  
2.35% interference received

**Appendix B - Interference Analysis**  
**WLOS - Asheville, North Carolina**  
**Channel 13 -144 kW - Page 7**

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLOS	D13	DT	APP	ASHEVILLE, NC	WLOS APP reduced 144 k	
Undesireds:	WMAZ-TV	D13	DT	LIC	MACON, GA	BLCDT20090617AAN	289.8 km
	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	355.6
	WBKO	D13	DT	LIC	BOWLING GREEN, KY	BLCDT20090423ABM	404.3
	WBTW	D13	DT	LIC	FLORENCE, SC	BLCDT20090612AIR	309.5
	WRCB	D13	DT	LIC	CHATTANOOGA, TN	BLANK0000212015	251.2
	WBRA-TV	D13	DT	CP	ROANOKE, VA	BLANK0000213023	307.0

	Service area	Terrain-limited	IX-free	Percent IX
54053.4	3,468,856	46568.7	2,951,653	46002.5
			2,882,261	1.22
				2.35

Undesired	Total IX	Unique IX	Prcnt Unique IX
WMAZ-TV D13 DT LIC	134.4	6,210	116.4
		5,072	0.25
WTSF D13 DT LIC	3.0	52	0.0
		0	0.00
WBKO D13 DT LIC	1.0	0	1.0
		0	0.00
WBTW D13 DT LIC	254.5	46,864	182.8
		34,914	0.39
WRCB D13 DT LIC	111.3	4,281	81.2
		2,657	0.17
WBRA-TV D13 DT CP	164.8	25,561	81.9
		13,173	0.18
			0.45