Consulting Engineers
CTJC
CARL T. JONES CORPORATION

STATEMENT OF JOHN E. HIDLE, P.E.
IN SUPPORT OF AN APPLICATION FOR
CONSTRUCTION PERMIT
FOR AUXILIARY FACILITIES
WTVD - DURHAM, NORTH CAROLINA
CH. 11 - 45.0 kW - 473.6 meters HAAT

Prepared for: WTVD TELEVISION, 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, License No. 7418, and in the State of New York, License No. 63418.

GENERAL

This office has been authorized by WTVD TELEVISION, LLC, Licensee of WTVD, channel 11, Durham, North Carolina, to prepare this statement, FCC Form 301, Section III, and associated exhibits, in support of an application for construction permit for auxiliary transmission facilities.

PURPOSE OF APPLICATION

WTVD proposes to construct an auxiliary transmission facility to be used during times when the main facility might be unavailable for broadcast service. It is proposed herein to install a new auxiliary circularly polarized directional antenna on the main tower support structure at a center line height above ground level (AGL) of 457.5 meters, with a Height Above Average Terrain (HAAT) of 473.6 meters.

AUTHORIZED MAIN FACILITY & PROPOSED AUXILIARY FACILITY

WTVD's current authorization specifies a main transmission facility with an Effective Radiated Power (ERP) of 45.0 kW at a HAAT of 615 meters. WTVD's proposed auxiliary antenna is a Dielectric Model TLS-V8/VP-R S180 channel 11 directional circularly polarized antenna to be side-mounted on the tower bearing registration number 1010348, with its radiation center line located at 457.5 meters AGL, and HAAT of 473.6 meters. The proposed auxiliary antenna employs an electrical beam-tilt of 0.5 degree below the horizontal plane. The antenna manufacturer's azimuth pattern for the horizontally polarized component is shown in exhibit 1 and tabulated in exhibit 2. The azimuth pattern for the vertically polarized component is shown in exhibit 3 and tabulated in exhibit 4. The elevation plane radiation pattern is shown in exhibits 5 and 6, and is tabulated in exhibit 7.

ALLOCATION CONSIDERATIONS

A separate allocation study was performed, using the Commission's application processing and interference analysis software, the results of which are shown in Appendix B. The allocation study utilized WTVD's authorized main facility as a baseline for the instant study because WTVD has negotiated interference agreements in place. Therefore, since the study considers an auxiliary facility, any station showing a predicted positive change in interference would be predicted to receive impermissible interference. The study shows that, in every instance, every potentially affected station is predicted to receive less interference from the proposed auxiliary facility than from the authorized main facility.

PREDICTED COVERAGE CONTOURS

The predicted coverage contours were calculated in accordance with the method described in Section 73.684 of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), 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 National Geophysical Data Center Thirty Second Point Database (TPG-0050) as prescribed in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 8 contains the predicted DTV Noise Limited Contour (36dBu) of WTVD's main facility, the predicted Noise Limited Contour of the proposed Auxiliary facility and the auxiliary facility's predicted principal community (43 dBu) contour. The predicted Noise Limited Contour of the proposed auxiliary facility is contained wholly within the predicted Noise Limited Contour of WTVD's main facility. The auxiliary facility's predicted 43 dBu contour entirely encompasses the principal community, Durham, North Carolina.

BLANKETING AND INTERMODULATION INTERFERENCE

No other broadcast facilities are co-located with WTVD, but there are other broadcast and non-broadcast technical facilities that are located within 10 km of WTVD's transmitter/antenna site. The applicant recognizes its responsibility to remedy complaints of interference which might result from this proposal in accordance with applicable Rules.

RADIO FREQUENCY IMPACT

Effective October 15, 1997 the FCC adopted modified guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions. The guidelines are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986) and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, LLC (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines establish maximum permissible exposure (MPE) levels for both occupational or "controlled" environments, as well as for "uncontrolled" environments that apply in cases that could affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65, titled "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (DA 04-319, February 6, 2004), provides assistance in the determination of whether FCC-regulated transmitting facilities, operations or devices comply with guideline limits for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. Bulletin No. 65 provides the technical data required to evaluate compliance with the FCC's policies and guidelines.

The FCC's Maximum Permitted Exposure (MPE) level established for "uncontrolled" environments is 0.2 milliwatts per centimeter squared (mW/cm^2) when applied to broadcast facilities operating between 30 MHz and 300 MHz. For broadcast facilities operating between 300 MHZ and 1500 MHz, primarily UHF TV stations, the MPE is derived from the formula, (frequency (MHz)/1500). The MPE level that is established for occupational, or "controlled" environments is 1.0 milliwatts per centimeter squared (mW/cm^2) for operations

between 30 MHz and 300 MHz. For broadcast stations operating between 300 MHz and 1500 MHz, the MPE is derived from the formula, (frequency (MHz)/300).

The predicted emissions of WTVD operating on channel 11 must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WTVD, which will operate on television channel 11 (198-204 MHz), the MPE is 0.200 milliwatts per centimeter squared (mW/cm^2) in an "uncontrolled" environment and 1.000 mW/cm^2 in a "controlled" environment. The WTVD auxiliary facility will operate with a maximum ERP of 45 kW using a circularly polarized directional transmitting antenna with a centerline height of 457.5 meters above ground level (AGL). Considering the proposed antenna's relative field factor of 0.37, the WTVD auxiliary facility is predicted to produce a power density at two meters above ground level of 0.00198 mW/cm^2, which is 0.99% of the FCC guideline value for an "uncontrolled" environment, and 0.198% of the FCC's guideline value for "controlled" environments. (See Appendix A). There are no other broadcast stations located at the site, or within 315 meters. Therefore, the total percentage of the ANSI value predicted for WTVD's site is only WTVD's individual contribution.

OCCUPATIONAL SAFETY

The applicant is committed to the protection of station personnel and/or tower contractors working on the tower support structure, or in the vicinity of the WTVD antenna, by reducing power and/or ceasing operation during maintenance of the transmission systems, when necessary, to ensure the proper protection of persons who might be required to perform their assigned tasks in this "controlled" environment.

SUMMARY

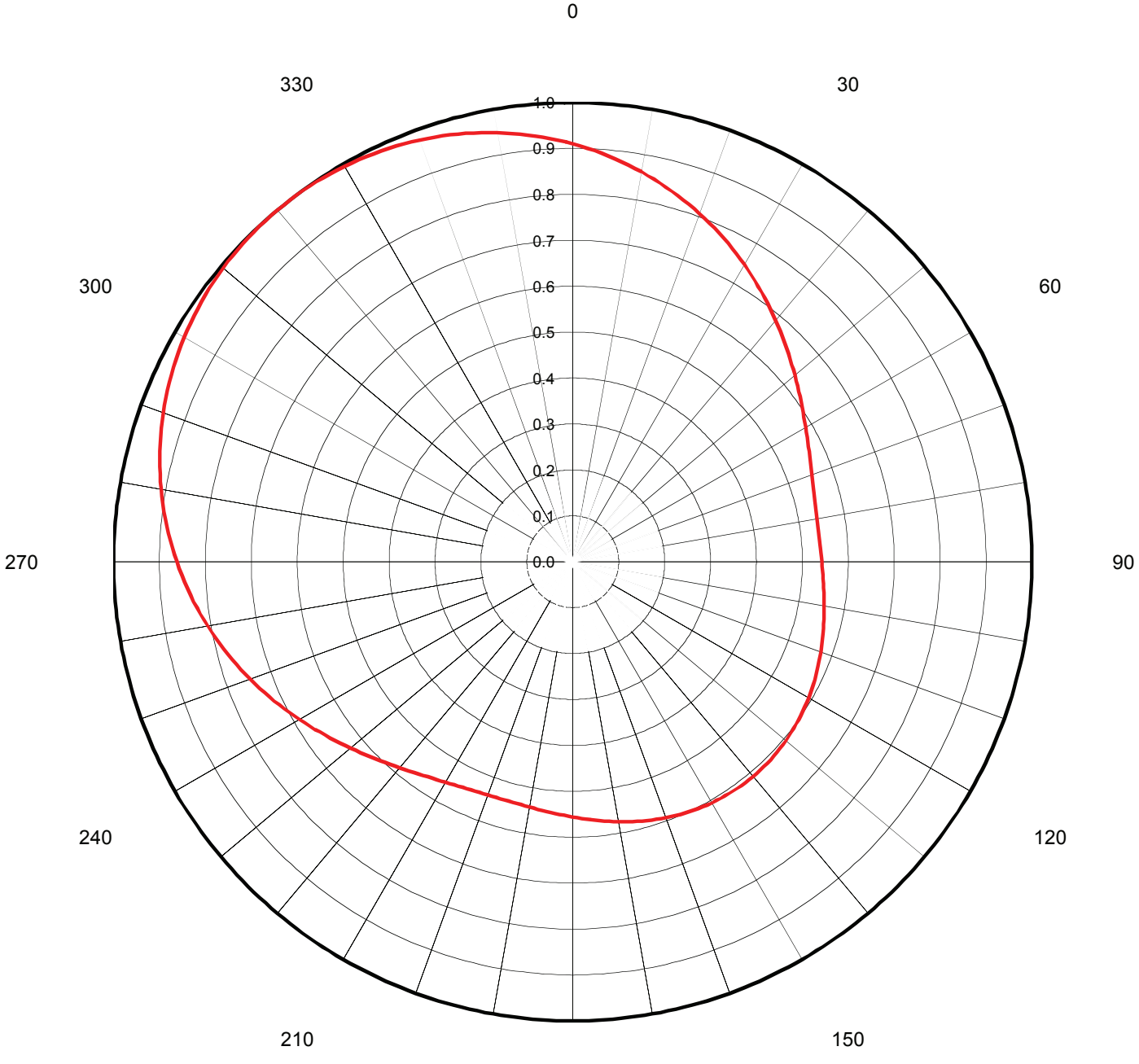
It is submitted that the instant application for construction permit for an auxiliary facility for WTVD, as described herein, complies with the Rules, Regulations, and Policies of the Federal Communications Commission. This statement, FCC Form 301, Section III, and the attached exhibits were prepared by me, or under my direct supervision, and are believed to be true and correct to the best of my knowledge and belief.

DATED: August 21, 2012

Proposal Number	**C-04310**	**Exhibit 1**
Date	**5-Aug-10**	
Call Letters	**WTVD**	Channel **11**
Location	**Durham, NC**	
Customer	**ABC**	
Antenna Type	**TLS-V8/VP-R S180**	

AZIMUTH PATTERN

Gain	**1.80**	**(2.55 dB)**	Frequency	**201.00 MHz**
Calculated / Measured		**Calculated**	Drawing #	**TLS-S180H**



Dielectric

Proposal Number	**C-04310**		**Exhibit 2**
Date	**5-Aug-10**		
Call Letters	**WTVD**	Channel	**11**
Location	**Durham, NC**		
Customer	**ABC**		
Antenna Type	**TLS-V8/VP-R S180**		

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TLS-S180H**

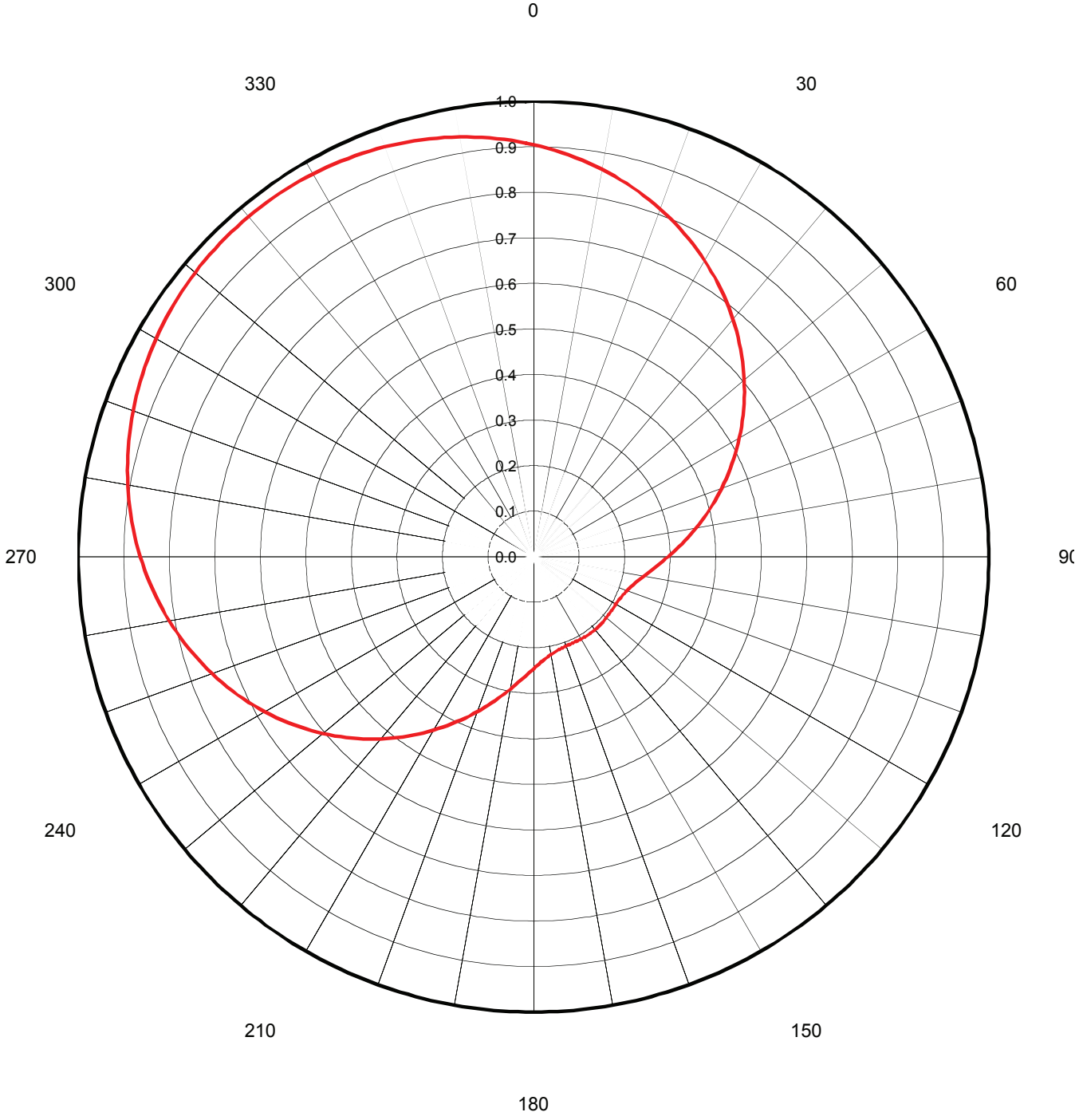
Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.910	45	0.659	90	0.542	135	0.610	180	0.556	225	0.607	270	0.862	315	0.999
1	0.906	46	0.653	91	0.543	136	0.610	181	0.554	226	0.612	271	0.867	316	0.999
2	0.901	47	0.647	92	0.544	137	0.610	182	0.553	227	0.617	272	0.872	317	0.999
3	0.897	48	0.642	93	0.546	138	0.611	183	0.551	228	0.621	273	0.877	318	1.000
4	0.892	49	0.637	94	0.547	139	0.611	184	0.550	229	0.626	274	0.882	319	1.000
5	0.887	50	0.632	95	0.548	140	0.611	185	0.548	230	0.632	275	0.887	320	1.000
6	0.882	51	0.626	96	0.550	141	0.611	186	0.547	231	0.637	276	0.892	321	1.000
7	0.877	52	0.621	97	0.551	142	0.611	187	0.546	232	0.642	277	0.897	322	1.000
8	0.872	53	0.617	98	0.553	143	0.610	188	0.544	233	0.648	278	0.901	323	0.999
9	0.867	54	0.612	99	0.554	144	0.610	189	0.543	234	0.653	279	0.906	324	0.999
10	0.862	55	0.607	100	0.556	145	0.610	190	0.542	235	0.659	280	0.910	325	0.999
11	0.857	56	0.603	101	0.558	146	0.609	191	0.542	236	0.664	281	0.914	326	0.998
12	0.852	57	0.598	102	0.560	147	0.608	192	0.541	237	0.670	282	0.919	327	0.997
13	0.846	58	0.594	103	0.561	148	0.608	193	0.540	238	0.676	283	0.923	328	0.996
14	0.841	59	0.590	104	0.563	149	0.607	194	0.540	239	0.681	284	0.927	329	0.995
15	0.835	60	0.586	105	0.565	150	0.606	195	0.540	240	0.687	285	0.931	330	0.994
16	0.830	61	0.582	106	0.567	151	0.605	196	0.540	241	0.693	286	0.935	331	0.993
17	0.824	62	0.578	107	0.569	152	0.604	197	0.540	242	0.699	287	0.938	332	0.992
18	0.818	63	0.575	108	0.571	153	0.603	198	0.540	243	0.705	288	0.942	333	0.990
19	0.813	64	0.571	109	0.573	154	0.602	199	0.540	244	0.711	289	0.945	334	0.989
20	0.807	65	0.568	110	0.575	155	0.601	200	0.541	245	0.717	290	0.949	335	0.987
21	0.801	66	0.565	111	0.577	156	0.599	201	0.541	246	0.723	291	0.952	336	0.985
22	0.795	67	0.562	112	0.579	157	0.598	202	0.542	247	0.729	292	0.955	337	0.983
23	0.789	68	0.559	113	0.581	158	0.596	203	0.543	248	0.735	293	0.958	338	0.981
24	0.783	69	0.557	114	0.583	159	0.595	204	0.544	249	0.741	294	0.961	339	0.979
25	0.777	70	0.555	115	0.584	160	0.593	205	0.545	250	0.747	295	0.964	340	0.977
26	0.771	71	0.552	116	0.586	161	0.592	206	0.547	251	0.753	296	0.967	341	0.975
27	0.765	72	0.550	117	0.588	162	0.590	207	0.549	252	0.759	297	0.970	342	0.972
28	0.759	73	0.549	118	0.590	163	0.588	208	0.550	253	0.765	298	0.972	343	0.970
29	0.753	74	0.547	119	0.592	164	0.586	209	0.552	254	0.771	299	0.975	344	0.967
30	0.747	75	0.545	120	0.593	165	0.584	210	0.555	255	0.777	300	0.977	345	0.964
31	0.741	76	0.544	121	0.595	166	0.583	211	0.557	256	0.783	301	0.979	346	0.961
32	0.735	77	0.543	122	0.596	167	0.581	212	0.559	257	0.789	302	0.981	347	0.958
33	0.729	78	0.542	123	0.598	168	0.579	213	0.562	258	0.795	303	0.983	348	0.955
34	0.723	79	0.541	124	0.599	169	0.577	214	0.565	259	0.801	304	0.985	349	0.952
35	0.717	80	0.540	125	0.601	170	0.575	215	0.568	260	0.807	305	0.987	350	0.949
36	0.711	81	0.540	126	0.602	171	0.573	216	0.571	261	0.813	306	0.989	351	0.945
37	0.705	82	0.540	127	0.603	172	0.571	217	0.575	262	0.818	307	0.990	352	0.942
38	0.699	83	0.540	128	0.604	173	0.569	218	0.578	263	0.824	308	0.992	353	0.938
39	0.693	84	0.540	129	0.605	174	0.567	219	0.582	264	0.830	309	0.993	354	0.935
40	0.687	85	0.540	130	0.606	175	0.565	220	0.586	265	0.835	310	0.994	355	0.931
41	0.681	86	0.540	131	0.607	176	0.563	221	0.590	266	0.841	311	0.995	356	0.927
42	0.676	87	0.540	132	0.608	177	0.561	222	0.594	267	0.846	312	0.996	357	0.923
43	0.670	88	0.541	133	0.608	178	0.560	223	0.598	268	0.852	313	0.997	358	0.919
44	0.664	89	0.542	134	0.609	179	0.558	224	0.603	269	0.857	314	0.998	359	0.914

Dielectric

Proposal Number	**C-04310**		**Exhibit 3**
Date	**5-Aug-10**		
Call Letters	**WTVD**	Channel	**11**
Location	**Durham, NC**		
Customer	**ABC**		
Antenna Type	**TLS-V8/VP-R S180**		

AZIMUTH PATTERN/VERTICAL POLARIZATION

Gain	**2.20**	**(3.42 dB)**	
Calculated / Measured	**Calculated**		
Frequency	**201.00 MHz**		
Drawing #	**TLS-S220-V**		



Dielectric

Proposal Number	**C-04310**		**Exhibit 4**
Date	**5-Aug-10**		
Call Letters	**WTVD**	Channel	**11**
Location	**Durham, NC**		
Customer	**ABC**		
Antenna Type	**TLS-V8/VP-R S180**		

TABULATION OF AZIMUTH PATTERN/VERTICAL POLARIZATION

Azimuth Pattern Drawing #: **TLS-S220-V**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.905	45	0.643	90	0.296	135	0.209	180	0.246	225	0.563	270	0.864	315	0.973
1	0.901	46	0.636	91	0.290	136	0.210	181	0.250	226	0.572	271	0.868	316	0.974
2	0.897	47	0.628	92	0.284	137	0.210	182	0.254	227	0.580	272	0.873	317	0.974
3	0.894	48	0.620	93	0.279	138	0.210	183	0.259	228	0.588	273	0.877	318	0.974
4	0.890	49	0.612	94	0.273	139	0.210	184	0.263	229	0.596	274	0.881	319	0.974
5	0.886	50	0.604	95	0.268	140	0.210	185	0.268	230	0.604	275	0.886	320	0.974
6	0.881	51	0.596	96	0.263	141	0.210	186	0.273	231	0.612	276	0.890	321	0.974
7	0.877	52	0.588	97	0.259	142	0.210	187	0.279	232	0.620	277	0.894	322	0.974
8	0.873	53	0.580	98	0.254	143	0.210	188	0.284	233	0.628	278	0.897	323	0.974
9	0.868	54	0.572	99	0.250	144	0.210	189	0.290	234	0.636	279	0.901	324	0.974
10	0.864	55	0.563	100	0.246	145	0.209	190	0.296	235	0.643	280	0.905	325	0.973
11	0.859	56	0.555	101	0.242	146	0.209	191	0.302	236	0.651	281	0.908	326	0.973
12	0.854	57	0.547	102	0.239	147	0.209	192	0.308	237	0.659	282	0.912	327	0.972
13	0.849	58	0.539	103	0.236	148	0.209	193	0.314	238	0.666	283	0.915	328	0.972
14	0.844	59	0.531	104	0.232	149	0.209	194	0.321	239	0.674	284	0.918	329	0.971
15	0.839	60	0.522	105	0.230	150	0.209	195	0.327	240	0.681	285	0.922	330	0.970
16	0.834	61	0.514	106	0.227	151	0.209	196	0.334	241	0.689	286	0.925	331	0.969
17	0.829	62	0.506	107	0.224	152	0.208	197	0.341	242	0.696	287	0.928	332	0.968
18	0.824	63	0.497	108	0.222	153	0.208	198	0.348	243	0.703	288	0.930	333	0.967
19	0.818	64	0.489	109	0.220	154	0.208	199	0.355	244	0.710	289	0.933	334	0.966
20	0.812	65	0.481	110	0.218	155	0.208	200	0.362	245	0.717	290	0.936	335	0.965
21	0.807	66	0.473	111	0.217	156	0.208	201	0.370	246	0.724	291	0.938	336	0.964
22	0.801	67	0.465	112	0.215	157	0.208	202	0.377	247	0.731	292	0.941	337	0.962
23	0.795	68	0.456	113	0.214	158	0.208	203	0.385	248	0.738	293	0.943	338	0.961
24	0.789	69	0.448	114	0.213	159	0.209	204	0.393	249	0.745	294	0.946	339	0.959
25	0.783	70	0.440	115	0.212	160	0.209	205	0.400	250	0.751	295	0.948	340	0.957
26	0.777	71	0.432	116	0.211	161	0.209	206	0.408	251	0.758	296	0.950	341	0.956
27	0.771	72	0.424	117	0.210	162	0.210	207	0.416	252	0.764	297	0.952	342	0.954
28	0.764	73	0.416	118	0.210	163	0.210	208	0.424	253	0.771	298	0.954	343	0.952
29	0.758	74	0.408	119	0.209	164	0.211	209	0.432	254	0.777	299	0.956	344	0.950
30	0.751	75	0.400	120	0.209	165	0.212	210	0.440	255	0.783	300	0.957	345	0.948
31	0.745	76	0.393	121	0.209	166	0.213	211	0.448	256	0.789	301	0.959	346	0.946
32	0.738	77	0.385	122	0.208	167	0.214	212	0.456	257	0.795	302	0.961	347	0.943
33	0.731	78	0.377	123	0.208	168	0.215	213	0.465	258	0.801	303	0.962	348	0.941
34	0.724	79	0.370	124	0.208	169	0.217	214	0.473	259	0.807	304	0.964	349	0.938
35	0.717	80	0.362	125	0.208	170	0.218	215	0.481	260	0.812	305	0.965	350	0.936
36	0.710	81	0.355	126	0.208	171	0.220	216	0.489	261	0.818	306	0.966	351	0.933
37	0.703	82	0.348	127	0.208	172	0.222	217	0.497	262	0.824	307	0.967	352	0.930
38	0.696	83	0.341	128	0.208	173	0.224	218	0.506	263	0.829	308	0.968	353	0.928
39	0.689	84	0.334	129	0.209	174	0.227	219	0.514	264	0.834	309	0.969	354	0.925
40	0.681	85	0.327	130	0.209	175	0.230	220	0.522	265	0.839	310	0.970	355	0.922
41	0.674	86	0.321	131	0.209	176	0.232	221	0.531	266	0.844	311	0.971	356	0.918
42	0.666	87	0.314	132	0.209	177	0.236	222	0.539	267	0.849	312	0.972	357	0.915
43	0.659	88	0.308	133	0.209	178	0.239	223	0.547	268	0.854	313	0.972	358	0.912
44	0.651	89	0.302	134	0.209	179	0.242	224	0.555	269	0.859	314	0.973	359	0.908

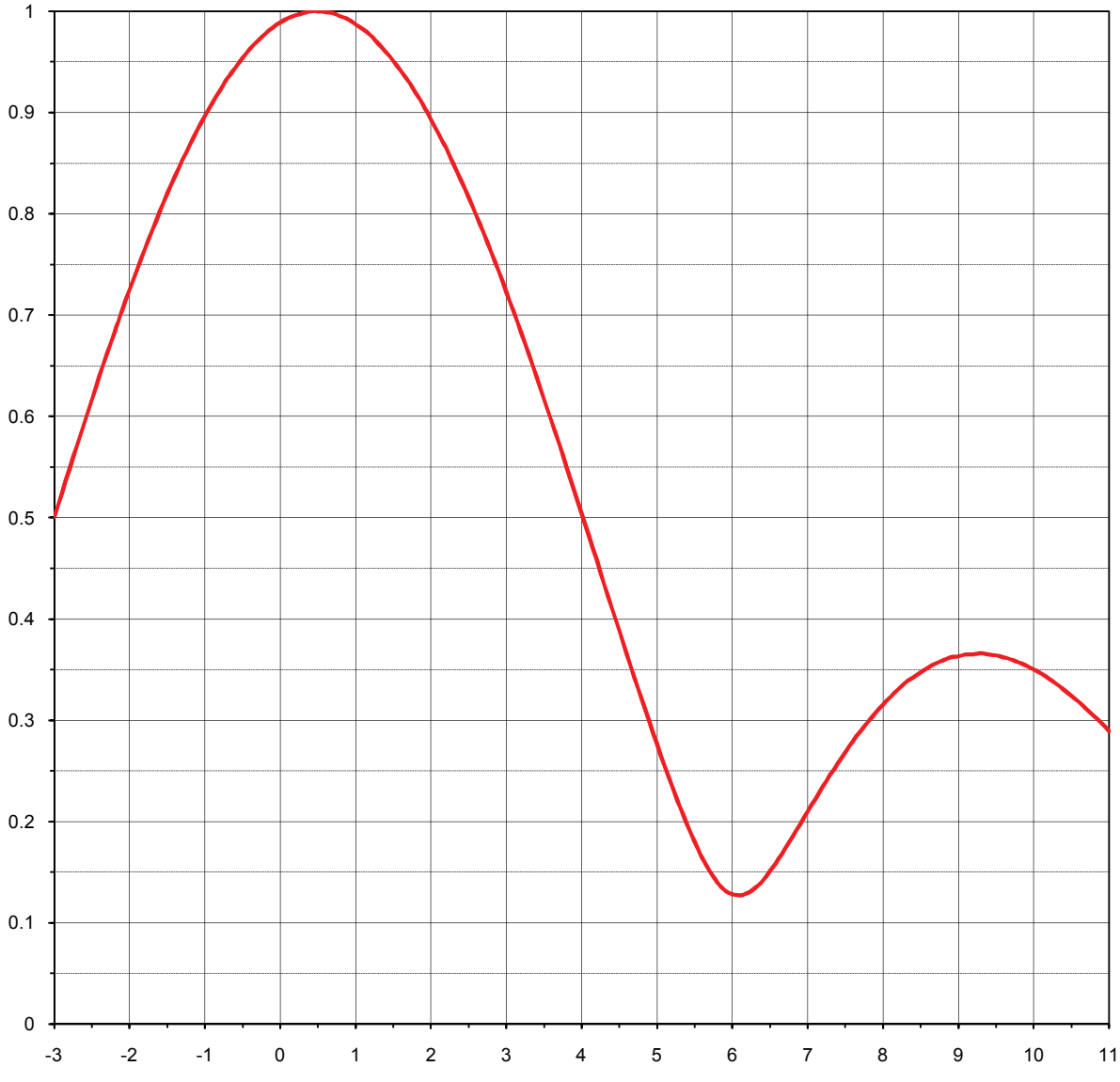
Dielectric

Proposal Number	**C-04310**		**Exhibit 5**
Date	**5-Aug-10**		
Call Letters	**WTVD**	Channel	**11**
Location	**Durham, NC**		
Customer	**ABC**		
Antenna Type	**TLS-V8/VP-R S180**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**8.00**	**(9.03 dB)**	
RMS Gain at Horizontal	**7.80**	**(8.92 dB)**	
Calculated / Measured	**Calculated**		

Beam Tilt	**0.50 deg**
Frequency	**201.00 MHz**
Drawing #	**08S080050**

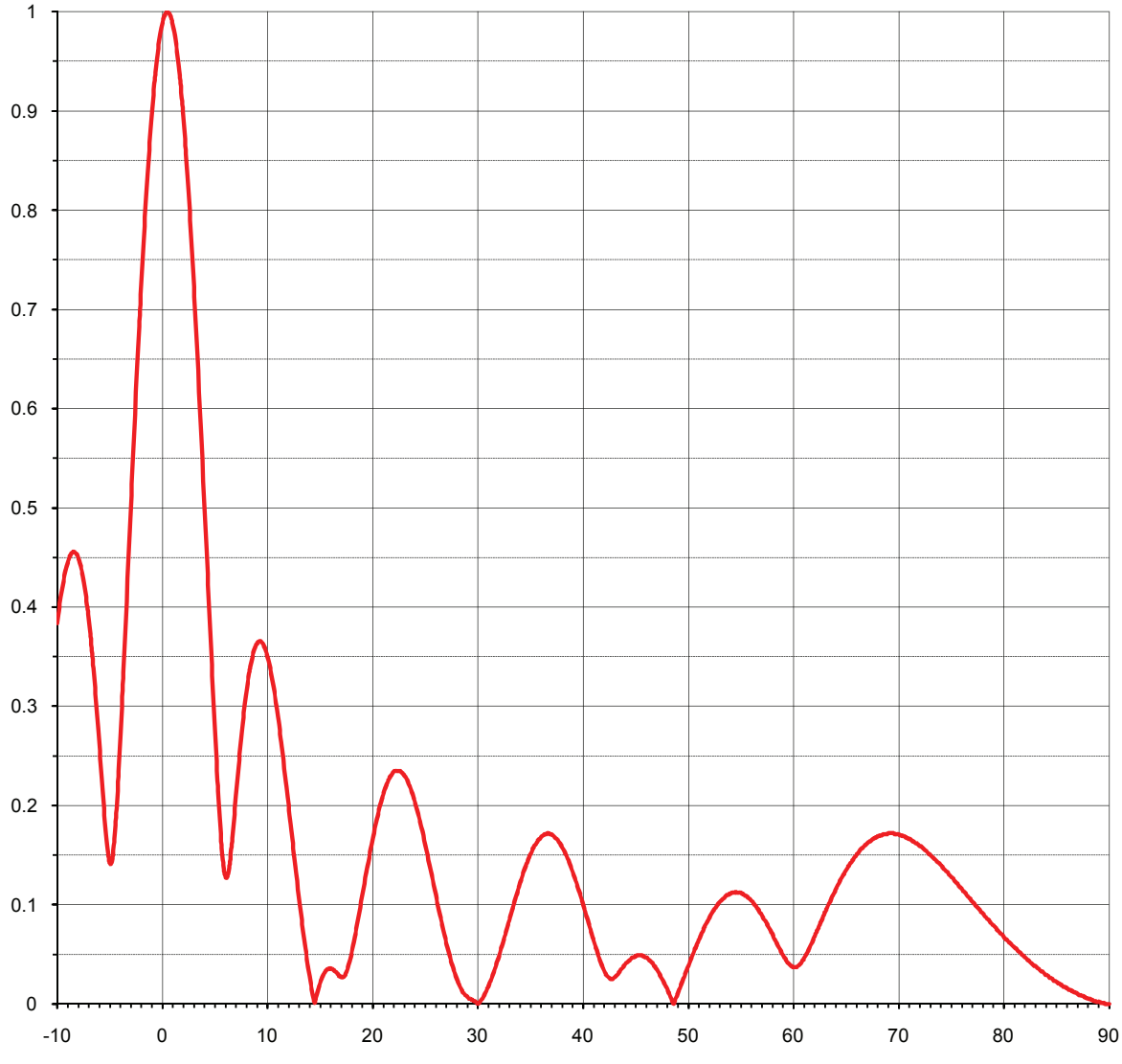


Degrees Below Horizontal

Proposal Number	**C-04310**		**Exhibit 6**
Date	**5-Aug-10**		
Call Letters	**WTVD**	Channel	**11**
Location	**Durham, NC**		
Customer	**ABC**		
Antenna Type	**TLS-V8/VP-R S180**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**8.00**	**(9.03 dB)**	Beam Tilt **0.50 deg**
RMS Gain at Horizontal	**7.80**	**(8.92 dB)**	Frequency **201.00 MHz**
Calculated / Measured	**Calculated**		Drawing # **08S080050-90**



Dielectric

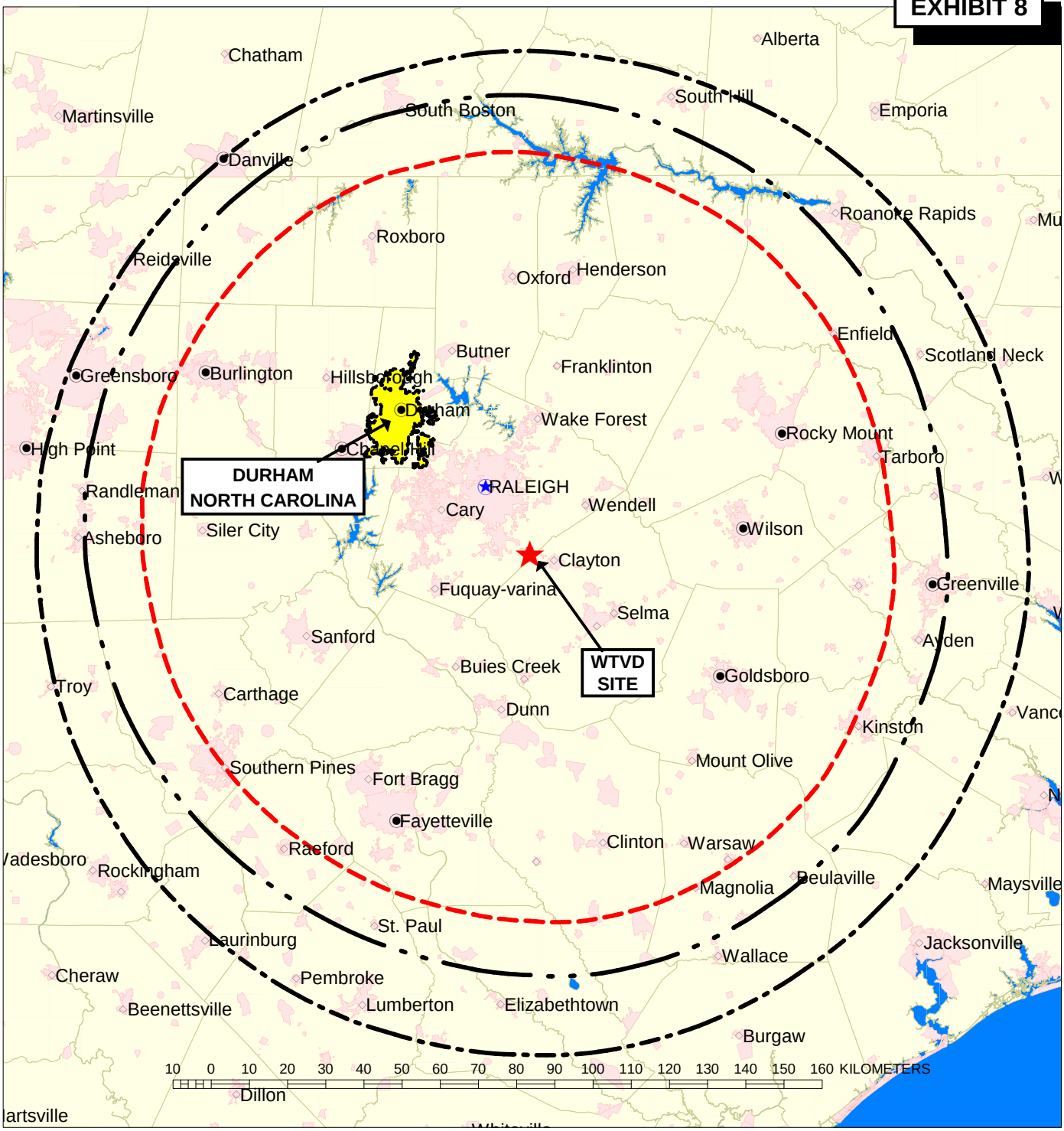
Proposal Number	**C-04310**		**Exhibit 7**
Date	**5-Aug-10**		
Call Letters	**WTVD**	Channel	**11**
Location	**Durham, NC**		
Customer	**ABC**		
Antenna Type	**TLS-V8/VP-R S180**		

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **08S080050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.384	2.4	0.833	10.6	0.324	30.5	0.005	51.0	0.062	71.5	0.163
-9.5	0.420	2.6	0.799	10.8	0.311	31.0	0.016	51.5	0.074	72.0	0.159
-9.0	0.445	2.8	0.762	11.0	0.297	31.5	0.029	52.0	0.085	72.5	0.155
-8.5	0.456	3.0	0.723	11.5	0.255	32.0	0.045	52.5	0.094	73.0	0.150
-8.0	0.450	3.2	0.682	12.0	0.209	32.5	0.063	53.0	0.102	73.5	0.145
-7.5	0.428	3.4	0.639	12.5	0.162	33.0	0.082	53.5	0.107	74.0	0.140
-7.0	0.388	3.6	0.595	13.0	0.115	33.5	0.100	54.0	0.111	74.5	0.134
-6.5	0.332	3.8	0.550	13.5	0.072	34.0	0.118	54.5	0.112	75.0	0.128
-6.0	0.263	4.0	0.504	14.0	0.034	34.5	0.135	55.0	0.112	75.5	0.122
-5.5	0.190	4.2	0.458	14.5	0.004	35.0	0.149	55.5	0.109	76.0	0.116
-5.0	0.142	4.4	0.411	15.0	0.018	35.5	0.160	56.0	0.105	76.5	0.109
-4.5	0.173	4.6	0.365	15.5	0.031	36.0	0.167	56.5	0.099	77.0	0.103
-4.0	0.266	4.8	0.320	16.0	0.036	36.5	0.171	57.0	0.091	77.5	0.097
-3.5	0.381	5.0	0.276	16.5	0.033	37.0	0.171	57.5	0.082	78.0	0.091
-3.0	0.501	5.2	0.235	17.0	0.028	37.5	0.167	58.0	0.072	78.5	0.085
-2.8	0.548	5.4	0.197	17.5	0.030	38.0	0.160	58.5	0.061	79.0	0.079
-2.6	0.594	5.6	0.164	18.0	0.047	38.5	0.150	59.0	0.051	79.5	0.073
-2.4	0.640	5.8	0.140	18.5	0.073	39.0	0.136	59.5	0.042	80.0	0.067
-2.2	0.683	6.0	0.128	19.0	0.103	39.5	0.121	60.0	0.037	80.5	0.062
-2.0	0.725	6.2	0.129	19.5	0.133	40.0	0.104	60.5	0.038	81.0	0.057
-1.8	0.765	6.4	0.141	20.0	0.161	40.5	0.086	61.0	0.044	81.5	0.052
-1.6	0.802	6.6	0.161	20.5	0.187	41.0	0.067	61.5	0.054	82.0	0.047
-1.4	0.837	6.8	0.185	21.0	0.208	41.5	0.050	62.0	0.066	82.5	0.042
-1.2	0.868	7.0	0.210	21.5	0.223	42.0	0.036	62.5	0.078	83.0	0.038
-1.0	0.897	7.2	0.234	22.0	0.233	42.5	0.027	63.0	0.090	83.5	0.033
-0.8	0.922	7.4	0.257	22.5	0.235	43.0	0.026	63.5	0.102	84.0	0.029
-0.6	0.944	7.6	0.279	23.0	0.232	43.5	0.032	64.0	0.113	84.5	0.026
-0.4	0.963	7.8	0.298	23.5	0.222	44.0	0.039	64.5	0.126	85.0	0.022
-0.2	0.978	8.0	0.315	24.0	0.207	44.5	0.044	65.0	0.135	85.5	0.019
0.0	0.989	8.2	0.330	24.5	0.188	45.0	0.048	65.5	0.143	86.0	0.016
0.2	0.996	8.4	0.342	25.0	0.165	45.5	0.049	66.0	0.151	86.5	0.013
0.4	1.000	8.6	0.352	25.5	0.140	46.0	0.047	66.5	0.157	87.0	0.010
0.6	0.999	8.8	0.359	26.0	0.115	46.5	0.043	67.0	0.162	87.5	0.008
0.8	0.995	9.0	0.363	26.5	0.089	47.0	0.036	67.5	0.166	88.0	0.005
1.0	0.987	9.2	0.365	27.0	0.066	47.5	0.027	68.0	0.169	88.5	0.003
1.2	0.976	9.4	0.365	27.5	0.045	48.0	0.017	68.5	0.171	89.0	0.002
1.4	0.960	9.6	0.362	28.0	0.028	48.5	0.005	69.0	0.172	89.5	0.001
1.6	0.941	9.8	0.360	28.5	0.015	49.0	0.008	69.5	0.172	90.0	0.000
1.8	0.919	10.0	0.354	29.0	0.008	49.5	0.022	70.0	0.171		
2.0	0.893	10.2	0.346	29.5	0.004	50.0	0.036	70.5	0.169		
2.2	0.865	10.4	0.336	30.0	0.001	50.5	0.049	71.0	0.166		

EXHIBIT 8



PREDICTED COVERAGE CONTOURS

WTVD, DURHAM, NORTH CAROLINA

MAIN DTV - CH. 11- 45 kW - 615 m HAAT

AUX DTV - CH 11 - 45 kW - 473.6 m HAAT

Predicted Principal Community Contour

Auxiliary Facility

F(50,90) - 43 dBu

AUGUST 2012

Consulting Engineers
CTJC
CARL T. JONES CORPORATION

Main Facility

Auxiliary Facility

Predicted Noise Limited Contours

F(50,90) - 36 dBu

APPENDIX A

SUMMARY OF RADIOFREQUENCY
RADIATION STUDY
WTVD, DURHAM, NORTH CAROLINA
CHANNEL 11, AUXILIARY FACILITY - 45 kW ERP, 473.6 m HAAT
AUGUST, 2012

CALL	SERVICE	CHANNEL	FREQUENCY	POLARIZATION	ANTENNA HEIGHT ** mAGL	ERP (kW)	VERT. RELATIVE FIELD FACTOR	PREDICTED POWER DENSITY (mW/cm^2)	FCC UNCONTROLLED LIMIT (mW/cm^2)	PERCENT OF UNCONTROLLED LIMIT
WTVD	DT	11	201	H & V	455.5	45.000	0.370	0.00198	0.200	0.99%
								TOTAL PERCENTAGE OF ANSI VALUE=		0.99%

*** The antenna heights indicated above are 2 meters less than the actual antenna heights*
so that the predicted power densities consider the 2 meter human height allowance.
This evaluation includes facilities collocated at the site, and facilities located within 315 meters.

Consulting Engineers
CTJC
CARL T. JONES CORPORATION

Consulting Engineers
CTJC
CARL T. JONES CORPORATION

WTVD - APPENDIX B
LONGLEY-RICE INTERFERENCE ANALYSIS
AUGUST 2012

```
Percent allowed new interference:   0.500
Percent allowed new interference to non Class A LPTV:   2.000
 Census data selected 2000
 Data Base Selected
 ./data/tvdb.sff
              TV INTERFERENCE and SPACING ANALYSIS PROGRAM

 Date: 08-13-2012    Time: 14:12:30

 Record Selected for Analysis

 WTVD     BPCDT     -NEWWTVDAUX       DURHAM                NC US
 Channel 11 ERP 45     kW   HAAT  473. m  RCAMSL 554.7 m
 Latitude 035-40- 5  Longitude 0078-31-59
 Status APP       Zone 2    Border      Site number: 01
 Dir Antenna Make CDB  Model 00000000999999  Beam tilt N  Ref Azimuth   0.0
 Last update 00000000  Cutoff date 20110520  Docket
 Comments
 Applicant WTVD TELEVISION, LLC

 Cell Size for Service Analysis 2.0 km/side

 Distance Increments for Longley-Rice Analysis 1.00 km

 Facility (site # 01) meets maximum height/power limits

    Site number  1
    Azimuth     ERP        HAAT   36.0 dBu F(50,90)
     (Deg)      (kW)       (m)        (km)
      0.0       37.264     485.0      117.8
     45.0       19.572     482.8      111.7
     90.0       13.219     480.6      107.9
    135.0       16.662     474.7      109.6
    180.0       13.911     482.2      108.5
    225.0       16.690     470.8      109.4
    270.0       33.437     458.8      115.1
    315.0       44.730     467.5      118.5

             Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap
to Class A stations from site # 01

                   Class A Evaluation Complete

                   SPACING VIOLATION FOUND BETWEEN STATION

 WTVD     11 DURHAM               NC BPCDT     NEWWTVDAUX   Site # 01
```

Carl T. Jones Corporation
7901 Yarnwood Court, Springfield, Virginia 22153-2827 (703) 569-7704 Fax: (703) 569-6417

and station

SHORT TO: WNCT-TV 10 GREENVILLE NC BLCDT 20110504ACA
035-21-55 0077-23-38
Req. separation => 23.0 <= 110.0 Actual separation 108.7 Short 1.3(85.7) km

SHORT TO: WTVI 11 CHARLOTTE NC BLEDT 20101222ABA
035-17-14 0080-41-45
Req. separation 273.6 Actual separation 200.8 Short 72.8 km

SHORT TO: WGSI-CD 11 MURRELLS INLET SC BLDVA 20110930AWE
033-35-27 0079-02-55
Req. separation 273.6 Actual separation 235.2 Short 38.4 km

SHORT TO: WGSI-CD 11 MYRTLE BEACH SC BPDVA 20120605AAF
033-35-27 0079-02-55
Req. separation 273.6 Actual separation 235.2 Short 38.4 km

SHORT TO: WTVD 11 DURHAM NC DTVPLN DTVP0319
035-40- 5 0078-31-59
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations
Proposed facility OK toward West Virginia quiet zone
Proposed facility OK toward Table Mountain
Proposed facility is beyond the Canadian coordination distance
Proposed facility is beyond the Mexican coordination distance
Proposed station is OK toward AM broadcast stations
****

Start of Interference Analysis

Proposed Station

Channel	Call	City/State	ARN	
11	WTVD	DURHAM NC	BPCDT	NEWWTVDAUX

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.		
10	WNCT-TV	GREENVILLE NC	108.4	LIC	BLCDT	20110504ACA	
11	WTVI	CHARLOTTE NC	200.3	LIC	BLEDT	20101222ABA	
11	WGSI-CD	MURRELLS INLET SC	235.6	LIC	BLDVA	20110930AWE	
11	WGSI-CD	MYRTLE BEACH SC	235.6	CP	BPDVA	20120605AAF	
11	WJHL-TV	JOHNSON CITY TN	334.8	LIC	BLCDT	20100910AAC	
11	WVPT	STAUNTON VA	286.1	CP	BPEDT	20120321ADL	+
11	WVPT	STAUNTON VA	286.1	LIC	BLEDT	20120109ACF	
12	WCTI-TV	NEW BERN NC	125.2	LIC	BLCDT	20090622ADO	
12	WWBT	RICHMOND VA	224.0	LIC	BLCDT	20090803ABS	

\+ Indicates station is part of a DTS

%%

```
     Analysis of Interference to Affected Station   1
Analysis of current record
Channel     Call           City/State        Application Ref. No.
   10      WNCT-TV    GREENVILLE NC             BLCDT     -20110504ACA

     Stations Potentially Affecting This Station
Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 09   WSKY-TV  MANTEO NC                161.6  LIC    BLCDT     -20100514ADM
 09   WHMC     CONWAY SC                222.1  LIC    BLEDT     -20090622ADN
 09   WHMC-TV  CONWAY SC                222.1  LIC    BPRM      -20030318AIM
 10   WIS      COLUMBIA SC              336.6  LIC    BLCDT     -20090624ABZ
 10   WSWP-TV  GRANDVIEW WV             426.5  LIC    BLEDT     -20100210AAQ
 11   WTVD     DURHAM NC                108.4  APP    BPCDT     -NEWWTVDAUX
 11   WTVD     DURHAM NC                108.4  PLN    DTVPLN    -DTVP0319

 Total scenarios =   1
Result key:        1
Scenario        1  Affected station        1
Before Analysis

Results for: 10A NC GREENVILLE           BLCDT     20110504ACA  LIC
   HAAT  575.0 m, ATV ERP   35.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     1644150      47351.5
   not affected by terrain losses   1628032      47219.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      293698       2662.6
   lost to ATV IX only               293698       2662.6
   lost to all IX                    293698       2662.6

 Potential Interfering Stations Included in above Scenario     1
 9A NC MANTEO               BLCDT     20100514ADM  LIC
10A SC COLUMBIA             BLCDT     20090624ABZ  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 10A NC GREENVILLE           BLCDT     20110504ACA  LIC
   HAAT  575.0 m, ATV ERP   35.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     1644150      47351.5
   not affected by terrain losses   1628032      47219.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      248189       1904.1
   lost to ATV IX only               248189       1904.1
   lost to all IX                    248189       1904.1

 Potential Interfering Stations Included in above Scenario     1
 9A NC MANTEO               BLCDT     20100514ADM  LIC
10A SC COLUMBIA             BLCDT     20090624ABZ  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -3.4106%
Worst case new IX   -3.4106% Scenario      1
```

```
########################################################################

     Analysis of Interference to Affected Station   2

Analysis of current record
Channel     Call           City/State        Application Ref. No.
   11      WTVI       CHARLOTTE NC             BLEDT     -20101222ABA

     Stations Potentially Affecting This Station
Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 10   WIS       COLUMBIA SC             129.3  LIC    BLCDT     -20090624ABZ
 11   WTOC-TV   SAVANNAH GA             364.4  LIC    BLCDT     -20090622ABP
 11   WTVD      DURHAM NC               200.3  APP    BPCDT     -NEWWTVDAUX
 11   WJHL-TV   JOHNSON CITY TN         181.8  LIC    BLCDT     -20100910AAC
 11   WVPT      STAUNTON VA             342.7  CP     BPEDT     -20120321ADL
 11   WVPT      STAUNTON VA             342.7  LIC    BLEDT     -20120109ACF
 11   WVPT      STAUNTON VA             353.6  CP     BPEDT     -20120321ADL
 11   WVPT      STAUNTON VA             358.8  CP     BPEDT     -20120321ADL
 11   WTVD      DURHAM NC               200.3  PLN    DTVPLN    -DTVP0319

 Total scenarios =   2
Result key:        2
Scenario        1  Affected station        2
Before Analysis

Results for: 11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
   HAAT  363.0 m, ATV ERP    2.6 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     2322392      23534.0
   not affected by terrain losses   2294546      22770.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      146215       2645.1
   lost to ATV IX only               146215       2645.1
   lost to all IX                    146215       2645.1

 Potential Interfering Stations Included in above Scenario     1
10A SC COLUMBIA             BLCDT     20090624ABZ  LIC
11A GA SAVANNAH             BLCDT     20090622ABP  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A VA STAUNTON             BPEDT     20120321ADL  CP
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
   HAAT  363.0 m, ATV ERP    2.6 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     2322392      23534.0
   not affected by terrain losses   2294546      22770.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      110964       1961.8
   lost to ATV IX only               110964       1961.8
   lost to all IX                    110964       1961.8
```

```
 Potential Interfering Stations Included in above Scenario     1
10A SC COLUMBIA             BLCDT     20090624ABZ  LIC
11A GA SAVANNAH             BLCDT     20090622ABP  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A VA STAUNTON             BPEDT     20120321ADL  CP
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -1.6409%

Result key:        3
Scenario        2  Affected station        2
Before Analysis

Results for: 11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
   HAAT  363.0 m, ATV ERP    2.6 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     2322392      23534.0
   not affected by terrain losses   2294546      22770.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      146215       2645.1
   lost to ATV IX only               146215       2645.1
   lost to all IX                    146215       2645.1

 Potential Interfering Stations Included in above Scenario     2
10A SC COLUMBIA             BLCDT     20090624ABZ  LIC
11A GA SAVANNAH             BLCDT     20090622ABP  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A VA STAUNTON             BLEDT     20120109ACF  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
   HAAT  363.0 m, ATV ERP    2.6 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour     2322392      23534.0
   not affected by terrain losses   2294546      22770.8
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      110964       1961.8
   lost to ATV IX only               110964       1961.8
   lost to all IX                    110964       1961.8

 Potential Interfering Stations Included in above Scenario     2
10A SC COLUMBIA             BLCDT     20090624ABZ  LIC
11A GA SAVANNAH             BLCDT     20090622ABP  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A VA STAUNTON             BLEDT     20120109ACF  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -1.6409%

Worst case new IX   -1.6409% Scenario      1

###########################################################################
```

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	WGSI-CD	MURRELLS INLET SC	BLDVA -20110930AWE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WTOC-TV	SAVANNAH GA	274.6	LIC	BLCDT	-20090622ABP
11	WTVI	CHARLOTTE NC	241.6	LIC	BLEDT	-20101222ABA
11	WTVD	DURHAM NC	235.6	APP	BPCDT	-NEWWTVDAUX
11	WTVD	DURHAM NC	235.6	PLN	DTVPLN	-DTVP0319

Proposal causes no interference

##

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	WGSI-CD	MYRTLE BEACH SC	BPDVA -20120605AAF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WTOC-TV	SAVANNAH GA	274.6	LIC	BLCDT	-20090622ABP
11	WTVI	CHARLOTTE NC	241.6	LIC	BLEDT	-20101222ABA
11	WTVD	DURHAM NC	235.6	APP	BPCDT	-NEWWTVDAUX
11	WTVD	DURHAM NC	235.6	PLN	DTVPLN	-DTVP0319

Proposal causes no interference

##

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	WJHL-TV	JOHNSON CITY TN	BLCDT -20100910AAC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
10	WBIR-TV	KNOXVILLE TN	168.4	LIC	BLCDT	-20090619ADG
10	WSWP-TV	GRANDVIEW WV	191.9	LIC	BLEDT	-20100210AAQ
11	WHAS-TV	LOUISVILLE KY	391.2	LIC	BLCDT	-20100628AWQ
11	WTVI	CHARLOTTE NC	181.8	LIC	BLEDT	-20101222ABA
11	WTVD	DURHAM NC	334.8	APP	BPCDT	-NEWWTVDAUX
11	WVPT	STAUNTON VA	315.3	CP	BPEDT	-20120321ADL
11	WVPT	STAUNTON VA	315.3	LIC	BLEDT	-20120109ACF
11	WVPT	STAUNTON VA	309.1	CP	BPEDT	-20120321ADL
11	WVPT	STAUNTON VA	366.5	CP	BPEDT	-20120321ADL
12	WYMT-TV	HAZARD KY	125.7	LIC	BLCDT	-20040109ACY
11	WTVD	DURHAM NC	334.8	PLN	DTVPLN	-DTVP0319

Total scenarios = 2

```
Result key:        4
Scenario        1  Affected station        5
Before Analysis

Results for: 11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
   HAAT  708.0 m, ATV ERP   34.5 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     2087406      49236.0
   not affected by terrain losses   1455928      37327.7
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      106648       1921.5
   lost to ATV IX only               106648       1921.5
   lost to all IX                    106648       1921.5

 Potential Interfering Stations Included in above Scenario     1
10A TN KNOXVILLE            BLCDT     20090619ADG  LIC
11A KY LOUISVILLE           BLCDT     20100628AWQ  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A VA STAUNTON             BPEDT     20120321ADL  CP
12A KY HAZARD               BLCDT     20040109ACY  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
   HAAT  708.0 m, ATV ERP   34.5 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     2087406      49236.0
   not affected by terrain losses   1455928      37327.7
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      106026       1893.2
   lost to ATV IX only               106026       1893.2
   lost to all IX                    106026       1893.2

 Potential Interfering Stations Included in above Scenario     1
10A TN KNOXVILLE            BLCDT     20090619ADG  LIC
11A KY LOUISVILLE           BLCDT     20100628AWQ  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A VA STAUNTON             BPEDT     20120321ADL  CP
12A KY HAZARD               BLCDT     20040109ACY  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.0461%

Result key:        5
Scenario        2  Affected station        5
Before Analysis

Results for: 11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
   HAAT  708.0 m, ATV ERP   34.5 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     2087406      49236.0
   not affected by terrain losses   1455928      37327.7
   lost to NTSC IX                        0          0.0
```

```
   lost to additional IX by ATV      106439       1917.4
   lost to ATV IX only               106439       1917.4
   lost to all IX                    106439       1917.4

 Potential Interfering Stations Included in above Scenario     2
10A TN KNOXVILLE            BLCDT     20090619ADG  LIC
11A KY LOUISVILLE           BLCDT     20100628AWQ  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A VA STAUNTON             BLEDT     20120109ACF  LIC
12A KY HAZARD               BLCDT     20040109ACY  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
   HAAT  708.0 m, ATV ERP   34.5 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour     2087406      49236.0
   not affected by terrain losses   1455928      37327.7
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      105817       1889.2
   lost to ATV IX only               105817       1889.2
   lost to all IX                    105817       1889.2

 Potential Interfering Stations Included in above Scenario     2
10A TN KNOXVILLE            BLCDT     20090619ADG  LIC
11A KY LOUISVILLE           BLCDT     20100628AWQ  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A VA STAUNTON             BLEDT     20120109ACF  LIC
12A KY HAZARD               BLCDT     20040109ACY  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.0461%

Worst case new IX   -0.0461% Scenario      2

################################################################################

     Analysis of Interference to Affected Station   6

Analysis of current record
DTS STATION
Channel     Call           City/State        Application Ref. No.
   11      WVPT       STAUNTON VA              BPEDT     -20120321ADL

     Stations Potentially Affecting This Station
Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 10   WVFX     CLARKSBURG WV            217.9  LIC    BLCDT     -20090612AJY
 10   WVFX-DR  CLARKSBURG WV            217.9  LIC    BPRM      -20000328AAA
 10   WSWP-TV  GRANDVIEW WV             219.8  LIC    BLEDT     -20100210AAQ
 11   WBAL-TV  BALTIMORE MD             218.8  LIC    BLCDT     -20111102ACP
 11   WTVI     CHARLOTTE NC             358.8  LIC    BLEDT     -20101222ABA
 11   WTVD     DURHAM NC                257.4  APP    BPCDT     -NEWWTVDAUX
 11   NEW      JEANETTE PA              290.2  APP    BPRM      -20070724ABH
```

```
 11   WPCW     JEANNETTE PA              308.8  LIC    BLCDT     -20090626AAT
 11   WPCW     JEANNETTE PA              308.8  CP MOD BMPCDT    -20080616ABM
 11   WJHL-TV  JOHNSON CITY TN           366.5  LIC    BLCDT     -20100910AAC
 12   WWBT     RICHMOND VA               101.2  LIC    BLCDT     -20090803ABS
 12   WBOY-TV  CLARKSBURG WV             215.9  LIC    BLCDT     -20090227ABW
 12   WWPX-TV  MARTINSBURG WV            167.8  LIC    BLCDT     -20021108AAX
 11   WTVD     DURHAM NC                 257.4  PLN    DTVPLN    -DTVP0319

 Total scenarios =   2

Result key:        6
Scenario        1  Affected station        6
Before Analysis

Results for: 11A VA STAUNTON             BPEDT     20120321ADL  CP
   HAAT  689.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      882438      27088.2
   not affected by terrain losses    743399      24633.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       45820       1759.0
   lost to ATV IX only                45820       1759.0
   lost to all IX                     45820       1759.0

 Potential Interfering Stations Included in above Scenario     1
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BLCDT     20090626AAT  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A VA STAUNTON             BPEDT     20120321ADL  CP
   HAAT  689.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      882438      27088.2
   not affected by terrain losses    743399      24633.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       42569       1623.1
   lost to ATV IX only                42569       1623.1
   lost to all IX                     42569       1623.1

 Potential Interfering Stations Included in above Scenario     1
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BLCDT     20090626AAT  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.4660%

Result key:        7
Scenario        2  Affected station        6
```

```
Before Analysis

Results for: 11A VA STAUNTON             BPEDT     20120321ADL  CP
   HAAT  689.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      882438      27088.2
   not affected by terrain losses    743399      24633.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       45820       1759.0
   lost to ATV IX only                45820       1759.0
   lost to all IX                     45820       1759.0

 Potential Interfering Stations Included in above Scenario     2
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BMPCDT    20080616ABM  CP
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A VA STAUNTON             BPEDT     20120321ADL  CP
   HAAT  689.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      882438      27088.2
   not affected by terrain losses    743399      24633.6
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       42569       1623.1
   lost to ATV IX only                42569       1623.1
   lost to all IX                     42569       1623.1

 Potential Interfering Stations Included in above Scenario     2
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BMPCDT    20080616ABM  CP
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.4660%

Worst case new IX   -0.4660% Scenario      1

###############################################################################

     Analysis of Interference to Affected Station   7

Analysis of current record
Channel     Call           City/State        Application Ref. No.
   11      WVPT       STAUNTON VA              BLEDT     -20120109ACF

     Stations Potentially Affecting This Station
Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 10   WVFX     CLARKSBURG WV            154.6  LIC    BLCDT     -20090612AJY
 10   WVFX-DR  CLARKSBURG WV            154.6  LIC    BPRM      -20000328AAA
```

```
 10   WSWP-TV  GRANDVIEW WV              149.7  LIC     BLEDT     -20100210AAQ
 11   WBAL-TV  BALTIMORE MD              264.9  LIC     BLCDT     -20111102ACP
 11   WTVI     CHARLOTTE NC              342.7  LIC     BLEDT     -20101222ABA
 11   WTVD     DURHAM NC                 286.1  APP     BPCDT     -NEWWTVDAUX
 11   NEW      JEANETTE PA               250.9  APP     BPRM      -20070724ABH
 11   WPCW     JEANNETTE PA              265.9  LIC     BLCDT     -20090626AAT
 11   WPCW     JEANNETTE PA              265.9  CP MOD  BMPCDT    -20080616ABM
 11   WJHL-TV  JOHNSON CITY TN           315.3  LIC     BLCDT     -20100910AAC
 12   WWBT     RICHMOND VA               175.0  LIC     BLCDT     -20090803ABS
 12   WBOY-TV  CLARKSBURG WV             152.5  LIC     BLCDT     -20090227ABW
 12   WWPX-TV  MARTINSBURG WV            179.9  LIC     BLCDT     -20021108AAX
 11   WTVD     DURHAM NC                 286.1  PLN     DTVPLN    -DTVP0319

 Total scenarios =   6

Result key:        8
Scenario        1  Affected station        7
Before Analysis
Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       57444       2046.9
   lost to ATV IX only                57444       2046.9
   lost to all IX                     57444       2046.9

 Potential Interfering Stations Included in above Scenario     1
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BLCDT     20090626AAT  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis
Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       54412       1910.7
   lost to ATV IX only                54412       1910.7
   lost to all IX                     54412       1910.7

 Potential Interfering Stations Included in above Scenario     1
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BLCDT     20090626AAT  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.4963%
```

```
Result key:        9
Scenario        2  Affected station        7
Before Analysis

Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       57444       2046.9
   lost to ATV IX only                57444       2046.9
   lost to all IX                     57444       2046.9

 Potential Interfering Stations Included in above Scenario     2
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BMPCDT    20080616ABM  CP
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       54412       1910.7
   lost to ATV IX only                54412       1910.7
   lost to all IX                     54412       1910.7

 Potential Interfering Stations Included in above Scenario     2
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BMPCDT    20080616ABM  CP
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.4963%

Result key:       10
Scenario        3  Affected station        7
Before Analysis

Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       57444       2046.9
   lost to ATV IX only                57444       2046.9
```

```
   lost to all IX                      57444       2046.9

 Potential Interfering Stations Included in above Scenario     3
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANETTE             BPRM      20070724ABH  APP
11A PA JEANNETTE            BLCDT     20090626AAT  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A VA STAUNTON            BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour       836995      26801.7
   not affected by terrain losses     668323      21646.4
   lost to NTSC IX                         0          0.0
   lost to additional IX by ATV        54412       1910.7
   lost to ATV IX only                 54412       1910.7
   lost to all IX                      54412       1910.7

 Potential Interfering Stations Included in above Scenario     3
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANETTE             BPRM      20070724ABH  APP
11A PA JEANNETTE            BLCDT     20090626AAT  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.4963%

Result key:       11
Scenario        4  Affected station        7
Before Analysis

Results for: 11A VA STAUNTON            BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                    POPULATION   AREA (sq km)
   within Noise Limited Contour       836995      26801.7
   not affected by terrain losses     668323      21646.4
   lost to NTSC IX                         0          0.0
   lost to additional IX by ATV        57444       2046.9
   lost to ATV IX only                 57444       2046.9
   lost to all IX                      57444       2046.9

 Potential Interfering Stations Included in above Scenario     4
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANETTE             BPRM      20070724ABH  APP
11A PA JEANNETTE            BMPCDT    20080616ABM  CP
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN
```

```
After Analysis

Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       54412       1910.7
   lost to ATV IX only                54412       1910.7
   lost to all IX                     54412       1910.7

 Potential Interfering Stations Included in above Scenario     4
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANETTE             BPRM      20070724ABH  APP
11A PA JEANNETTE            BMPCDT    20080616ABM  CP
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.4963%

Result key:       12
Scenario        5  Affected station        7
Before Analysis

Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       57444       2046.9
   lost to ATV IX only                57444       2046.9
   lost to all IX                     57444       2046.9

 Potential Interfering Stations Included in above Scenario     5
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BLCDT     20090626AAT  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       54412       1910.7
   lost to ATV IX only                54412       1910.7
   lost to all IX                     54412       1910.7
```

```
 Potential Interfering Stations Included in above Scenario     5
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BLCDT     20090626AAT  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.4963%

Result key:       13
Scenario        6  Affected station        7
Before Analysis

Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       57444       2046.9
   lost to ATV IX only                57444       2046.9
   lost to all IX                     57444       2046.9

 Potential Interfering Stations Included in above Scenario     6
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BMPCDT    20080616ABM  CP
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 11A VA STAUNTON             BLEDT     20120109ACF  LIC
   HAAT  680.0 m, ATV ERP   10.0 kW
                                POPULATION   AREA (sq km)
   within Noise Limited Contour      836995      26801.7
   not affected by terrain losses    668323      21646.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       54412       1910.7
   lost to ATV IX only                54412       1910.7
   lost to all IX                     54412       1910.7

 Potential Interfering Stations Included in above Scenario     6
11A MD BALTIMORE            BLCDT     20111102ACP  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A PA JEANNETTE            BMPCDT    20080616ABM  CP
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -0.4963%

Worst case new IX   -0.4963% Scenario      1

###############################################################################
```

```
     Analysis of Interference to Affected Station   8

Analysis of current record
Channel     Call           City/State        Application Ref. No.
   12      WCTI-TV    NEW BERN NC               BLCDT     -20090622ADO

     Stations Potentially Affecting This Station
Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 11   WTVD     DURHAM NC                125.2  APP    BPCDT     -NEWWTVDAUX
 12   WWBT     RICHMOND VA              267.4  LIC    BLCDT     -20090803ABS
 13   WBTW     FLORENCE SC              199.0  LIC    BLCDT     -20090612AIR
 13   WVEC     HAMPTON VA               205.7  LIC    BLCDT     -20090612AJJ
 11   WTVD     DURHAM NC                125.2  PLN    DTVPLN    -DTVP0319

 Total scenarios =   1

Result key:       14
Scenario        1  Affected station        8
Before Analysis

Results for: 12A NC NEW BERN             BLCDT     20090622ADO  LIC
   HAAT  589.0 m, ATV ERP   32.8 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     1448744      47560.6
   not affected by terrain losses   1444269      47492.5
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       98110       1633.9
   lost to ATV IX only                98110       1633.9
   lost to all IX                     98110       1633.9

 Potential Interfering Stations Included in above Scenario     1
12A VA RICHMOND             BLCDT     20090803ABS  LIC
11A NC DURHAM               DTVPLN    DTVP0319     PLN

After Analysis

Results for: 12A NC NEW BERN             BLCDT     20090622ADO  LIC
   HAAT  589.0 m, ATV ERP   32.8 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     1448744      47560.6
   not affected by terrain losses   1444269      47492.5
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV       57613        837.0
   lost to ATV IX only                57613        837.0
   lost to all IX                     57613        837.0

 Potential Interfering Stations Included in above Scenario     1
12A VA RICHMOND             BLCDT     20090803ABS  LIC
11A NC DURHAM               BPCDT     NEWWTVDAUX   APP

Percent new IX =   -3.0083%
Worst case new IX   -3.0083% Scenario      1

################################################################################
```

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	WWBT	RICHMOND VA	BLCDT -20090803ABS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	WBAL-TV	BALTIMORE MD	216.4	LIC	BLCDT -20111102ACP
11	WTVD	DURHAM NC	224.0	APP	BPCDT -NEWWTVDAUX
11	WVPT	STAUNTON VA	175.0	CP	BPEDT -20120321ADL
11	WVPT	STAUNTON VA	175.0	LIC	BLEDT -20120109ACF
11	WVPT	STAUNTON VA	205.8	CP	BPEDT -20120321ADL
11	WVPT	STAUNTON VA	101.2	CP	BPEDT -20120321ADL
12	WHYY-TV	WILMINGTON DE	343.3	LIC	BLEDT -20110907ADS
12	WCTI-TV	NEW BERN NC	267.4	LIC	BLCDT -20090622ADO
12	WBOY-TV	CLARKSBURG WV	315.7	LIC	BLCDT -20090227ABW
12	WWPX-TV	MARTINSBURG WV	222.3	LIC	BLCDT -20021108AAX
13	WJZ-TV	BALTIMORE MD	216.4	LIC	BLCDT -20110914AAS
13	WVEC	HAMPTON VA	119.5	LIC	BLCDT -20090612AJJ
13	WSET-TV	LYNCHBURG VA	189.4	LIC	BLCDT -20091013ABE
11	WTVD	DURHAM NC	224.0	PLN	DTVPLN -DTVP0319

Proposed station is beyond the site to nearest cell evaluation distance

##

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	WTVD	DURHAM NC	BPCDT -NEWWTVDAUX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
10	WNCT-TV	GREENVILLE NC	108.4	LIC	BLCDT -20110504ACA
11	WTVI	CHARLOTTE NC	200.3	LIC	BLEDT -20101222ABA
11	WJHL-TV	JOHNSON CITY TN	334.8	LIC	BLCDT -20100910AAC
11	WVPT	STAUNTON VA	286.1	CP	BPEDT -20120321ADL
11	WVPT	STAUNTON VA	286.1	LIC	BLEDT -20120109ACF
11	WVPT	STAUNTON VA	312.1	CP	BPEDT -20120321ADL
11	WVPT	STAUNTON VA	257.4	CP	BPEDT -20120321ADL
12	WCTI-TV	NEW BERN NC	125.2	LIC	BLCDT -20090622ADO
12	WWBT	RICHMOND VA	224.0	LIC	BLCDT -20090803ABS

Total scenarios = 2

Result key: 15
Scenario 1 Affected station 10
Before Analysis

Results for: 11A NC DURHAM BPCDT NEWWTVDAUX APP
HAAT 473.0 m, ATV ERP 45.0 kW

```
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     2817015      39662.3
   not affected by terrain losses   2793729      38817.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      173848       2636.4
   lost to ATV IX only               173848       2636.4
   lost to all IX                    173848       2636.4

 Potential Interfering Stations Included in above Scenario     1
10A NC GREENVILLE           BLCDT     20110504ACA  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A VA STAUNTON             BPEDT     20120321ADL  CP
12A NC NEW BERN             BLCDT     20090622ADO  LIC

Result key:       16
Scenario        2  Affected station       10
Before Analysis

Results for: 11A NC DURHAM               BPCDT     NEWWTVDAUX   APP
   HAAT  473.0 m, ATV ERP   45.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     2817015      39662.3
   not affected by terrain losses   2793729      38817.0
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      173803       2632.3
   lost to ATV IX only               173803       2632.3
   lost to all IX                    173803       2632.3

 Potential Interfering Stations Included in above Scenario     2
10A NC GREENVILLE           BLCDT     20110504ACA  LIC
11A NC CHARLOTTE            BLEDT     20101222ABA  LIC
11A TN JOHNSON CITY         BLCDT     20100910AAC  LIC
11A VA STAUNTON             BLEDT     20120109ACF  LIC
12A NC NEW BERN             BLCDT     20090622ADO  LIC

################################################################################

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
```