

PETITION FOR RULE MAKING FOR
THE DIGITAL TELEVISION BROADCAST
STATION WGTV-DT TO OPERATE ON
DTV CHANNEL 12 WITH AN ERP OF
16 KW AT AN ANTENNA HEIGHT
RADIATION CENTER OF 305.4 METERS
ABOVE AVERAGE TERRAIN
ATHENS, GEORGIA
(GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION)

KESSLER & GEHMAN ASSOCIATES, INC.
TELECOMMUNICATIONS CONSULTING ENGINEERS

20020220

Prepared by William T. Godfrey

KGGA

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ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM T. GODFREY OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH THE GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION'S PETITION FOR RULE MAKING TO AMEND THE DTV TABLE OF ALLOTMENTS IN ORDER TO SUBSTITUTE THE PROPOSED DTV VHF CHANNEL 12 FOR THE ALLOTTED DTV UHF CHANNEL 22 AT THE LICENSED STONE MOUNTAIN, GEORGIA SITE.

The firm Kessler and Gehman Associates, Inc., has been retained by the Georgia Public Telecommunications Commission ("GPTC"), Atlanta, Georgia in order to prepare engineering studies and the engineering portion of a Petition for Rule Making ("PFRM") to amend the DTV Table of Allotments in order to substitute the proposed DTV VHF Channel 12 for the allotted DTV UHF Channel 22 at the licensed Stone Mountain, GA site.

Discussion

The GPTC is the licensee of WGTV-DT Channel 22. The allotted location for WGTV-DT is on a support structure atop Stone Mountain. There are a myriad of political issues that surface every time a major change is proposed on Stone Mountain. One major change pertains to tower strengthening. The GPTC has already been informed that extensive tower strengthening would not be permitted. A recent tower analysis report of the Stone Mountain support structure indicates that the tower is already over stressed in certain areas. Obviously, the tower would require a great deal of additional strengthening to add a high-power UHF antenna as compared to the proposed VHF antenna. Furthermore, studies indicate that there are no other sites with existing towers that would allow The CH 22 station to meet the 2005 principal community requirement over Athens; even if they were to operate with an ERP of one megawatt. For these reasons, in addition to the obvious equipment and operational savings, a UHF-for-VHF substitution is crucial.

The objective of the enclosed DTV PFRM is to amend the DTV Table of Allotments as follows: (1) substitute DTV Channel 12 for assigned DTV Channel 22; (2) change effective radiated power ("ERP") from assigned 600.2 kW to 16 kW using a directional antenna (skull) with the main lobe oriented toward N175°E; and (3) change the antenna radiation center ("R/C") height above average terrain ("HAAT") from the assigned 326.0 meters to 305.4 meters.

The GPTC is licensed to operate WGTV-TV on VHF, NTSC Channel 8(o) with an ERP of 316 kW at an antenna height R/C of 326.0 meters AAT using a nondirectional antenna. The assigned principal community for WGTV is Athens, Georgia and the file number for WGTV-TV is BMLET-19890727KG.

According to the initial allotment plan and reference coordinates (DTV Table of Allotments) set forth in Appendix B of the *Sixth Report and Order* in MM Docket 87-268, FCC 97-115, adopted April 3, 1997, WGTV is allotted UHF, DTV Channel 22 at an antenna height R/C of 326.0 meters AAT and an ERP of 600.2 kW in order to replicate its licensed VHF, Channel 8 Grade B Contour.

The GPTC has a construction permit for DTV Channel 22 (file number BPEDT-200000419AAR), which authorizes WGTV to operate with an ERP of 600.0 kW at an antenna height radiation of 304.0 meters AAT using a nondirectional antenna. Specifically, the GPTC requests authorization to substitute WGTV-DT Channel 12 in lieu of the WGTV-DT Channel 22 construction permit, and take any other steps necessary to enable WGTV to construct and ultimately operate its digital facilities on Channel 12.

Transmitter

It is proposed to side-mount a Dielectric model THA-S4-12/48-1 circularly polarized, directional (skull oriented at N175E°), VHF, DTV antenna on the existing WGTV-TV support structure owned by the GPTC. The tower is registered with the FCC and has a registration number of 1018776. The support structure is located at 2 Robert E Lee Blvd, atop of Stone Mountain in Stone Mountain, GA. The proposed antenna height radiation center is 85.5 meters above ground level (“AGL”). The antenna’s highest point will extend to 95 meters AGL and the overall height of the structure will extend to 123 meters AGL as depicted in Exhibit 3’s elevation view of the support structure.

Interference Studies

The enclosed interference studies were computed using a Sun Microsystems SPARC 5 computer work station loaded with the FCC’s DTV analysis software. This software is in accordance with the standards established in the FCC Public Notice #3060-0841 pertaining to DTV studies and DTV application preparation dated August 10, 1998.

Initial spacing studies, which considered DTV allotments (allot), DTV/NTSC licenses (lic), DTV/NTSC construction permits (cp), DTV/NTSC applications (app) and Class A/Class A-eligible low power television (“LPTV”) stations in the applicable areas surrounding Stone Mountain, GA revealed that VHF Channel 12 was a possible option for the GPTC station. After the spacing studies were completed additional studies were conducted to verify that the proposed station met the principal community coverage requirements of §73.625(a) located in the Federal Communications Commission’s (“FCC”) rules. Exhibit 11 depicts the proposed WGTV-DT CH 12 F(50,90) 36 dBuV/m noise limited contour and verifies that the proposed station’s noise limited contour fully encompasses the assigned principal community of Athens, GA. It has also been confirmed that the proposed WGTV-DT CH 12 F(50,90) 43 dBuV/m principal community requirement would be met by completely encompassing the city of Athens, GA (100%). After it was determined that the existing and future principal community coverage requirements were met, we performed detailed interference studies on all applicable surrounding stations using the terrain dependent Longley-Rice, point-to-point propagation algorithm which is detailed in the FCC’s Office of Engineering and Technology Bulletin Number 69 (“OET 69”).

The initial interference studies predicted that the proposed WGTV-DT may cause interference to the stations listed below (Exhibit 12) and therefore, are the stations we performed detailed interference studies on to verify that all interference remains within the *de minimis* standard:

- WXIA-TV • WSFA-TV • WFXL-DT • WRDW-TV • WYMT-DT
- WDEF-TV • WMAZ-TV • WRCB-DT • WRCB-TV

Exhibit 12 is an interference study printout using all possible combinations. As you can see, all *de minimis* requirements have been met due to the fact that the proposed WGTV-DT CH 12 does not cause above *de minimis* interference to any applicable surrounding station nor does it increase the total interference above 10% to any applicable surrounding station. The interference studies exhibit does indicate that the proposed WGTV-DT CH 12 would have unacceptable contour overlap to WIRE-LP CH 13 (Class A). I have confirmed with the FCC and WIRE-LP officials that the WIRE-LP CH 13 CP has expired and no longer exists. WIRE-LP is a Class A station licensed to operate on CH 40. Therefore, all interference study scenarios are clean and it has been shown that the proposed WGTV-DT CH 12 station

could operate at the proposed parameters in accordance with all FCC rules and without needing a waiver for approval.

Exhibits

Exhibits 1 and 2 represent WGTV-DT's administration data, antenna and antenna structure specifications as per §VII item 10 in the DTV Engineering Technical Specifications portion of the application regarding directional antennas and beam tilt.

Exhibit 3 depicts the profile view of the proposed antenna on the antenna structure with all the appropriate elevations as per §VII item 10 in the DTV Engineering Technical Specifications portion of the application regarding supporting structures and elevations.

Exhibits 4 and 5 display the azimuth pattern and the elevation pattern tabulation respectively.

Exhibits 6 and 7 display the elevation pattern and the elevation pattern tabulation respectively.

Exhibits 8 and 9 display the ERP/dBk pattern and the ERP/dBk pattern tabulation respectively.

Exhibit 10 depicts the site location of the proposed WGTV-DT site on a 7.5-Minute (Series) Topographic Map as per §VII item 10 in the DTV Engineering Technical Specifications portion of the application regarding topographic maps.

Exhibit 11 depicts the proposed WGTV-DT coverage contour, boundaries of the principal community to be served, and the proposed transmitting location with radials every 45° as per §VII item 10 in the DTV Engineering Technical Specifications portion of the application regarding Sectional Aeronautical Charts.

Exhibit 12 is a detailed interference study depicting all scenarios.

Environmental Impact

The proposed construction will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The DTV transmitter, 3-1/8 inch (50-ohm) transmission line and antenna system will produce an ERP of 16 kW. Assuming that the maximum lobe of radiation is oriented at the base of the tower, it will produce a power density six feet above the ground of 0.016 mW/cm². This is only 1.60% of the maximum permissible exposure ("MPE") authorized by the American National Standards Institute ("ANSI"). Since the proposed operation of WGTV-DT Channel 12 will not exceed 5.0% of the MPE limit for population/uncontrolled at any point on the ground, WGTV-DT is not considered to be a "significant contributor" to the RF exposure environment pursuant to OET Bulletin 65, Edition 97-01. Therefore, contributions of exposure from other sources were not accounted for in this analysis. It is safe to conclude that the emissions will be insignificant and well within the maximum allowable requirements.

If other antennas are placed on the tower in the future, the applicant will cooperate with those users by reducing or completely terminating the power to the antenna when maintenance workers are in danger from the electromagnetic radiation emanating from the antenna. The tower will be enclosed within a fence with warning signs posted at the locked gate.

Certification

The applicant accepts full responsibility for the elimination of any objectionable interference including that caused by intermodulation to facilities in existence or authorized prior to the grant of this application.

This technical statement was prepared by William T. Godfrey, Telecommunications Consultant with Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida and has been working in the field of radio and television broadcast consulting since 1998. He graduated from the University of North Florida with a Bachelor of Arts degree in Criminal Justice and a minor in Mathematics and received a Commission in the Aviation Branch of the United States Army in 1993. As a Professional in the field of Telecommunications and as a Captain in the United States Army, he states under penalty of perjury that the information contained in this report is true and correct to the best of his knowledge and belief.



KESSLER AND GEHMAN ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'William T. Godfrey', written over a horizontal line.

WILLIAM T. GODFREY
Telecommunications Consultant

February 21, 2002

**WGTV-DT
ATHENS, GA**

ENGINEERING SPECIFICATIONS

A. Transmitter Site:

Geographic coordinates:

North Latitude	33° 48' 18"
West Longitude	84° 08' 40"

Transmitter Site Address: **2 Robert E. Lee Blvd. atop Stone Mountain
Stone Mountain, Georgia**

B. Main Studio Site Address: 260 14th Street N.W., Atlanta, GA 30318.

C. Proposed Facility:

DTV Channel	Number	12
	Frequency	204-210 MHz

D. Antenna Height:

Height of Site Above Mean Sea Level (AMSL)	496.4 M
Overall Height of Structure Above Ground	123.0 M
(including all appurtenances)	
Overall Height of Structure Above Mean Sea Level	619.4 M
(including all appurtenances)	
Height of Site Above Average Terrain	193.8 M
Antenna Height Radiation Center (R/C) Above Ground	85.5 M
Antenna Height R/C Above Mean Sea Level	581.9 M
Average of All Non-Odd Radials	276.5 M
Antenna Height R/C Above Average Terrain	305.4 M

E. System Parameters – Circular Polarization:

Transmitter Power Required	2.00 kW
Maximum Power Input to Antenna	1.43 kW
Total System Loss	1.46 dB
Transmission Line Efficiency	71.4%
Maximum Antenna Gain in Beam Maximum	13.50 dB
Maximum Antenna Gain in Horizontal Plane	13.32 dB
Maximum Effective Radiated Power	12.04 dBk
In Beam Maximum	16.0 kW
Maximum Effective Radiated Power	11.86 dBk
In Horizontal Plane	15.3 kW

**WGTV-DT
ATHENS, GA**

**DATA FOR PROPOSED DTV
DIRECTIONAL TRANSMITTING ANTENNA**

- A. **Antenna:** Dielectric THA-S4-12/48-1, Circularly Polarized, Directional (Skull), Side-mount Antenna.
- B. **Electrical Beam Tilt:** 0.6°
- C. **Mechanical Beam Tilt:** None.
- D. **Maximum Power Gain** **Horizontal Polarization**
Maximum: 22.4 (13.50 dB)
Horizontal: 21.5 (13.32 dB)
- E. **Length:** 62.4 feet (19.0 meters) not including appurtenances.
- F. **Average Power DTV:** 2.0 kW
- G. **Null Fill:** 13.8%
- H. **Transmission Line:** 3 1/8" 50-ohm Heliax.
- I. **Transmission Line Loss:** 0.216 dB/100-feet
- J. **Total Transmission Line:** 675 feet
- K. **Transmission Line Attenuation:** 1.46 dB

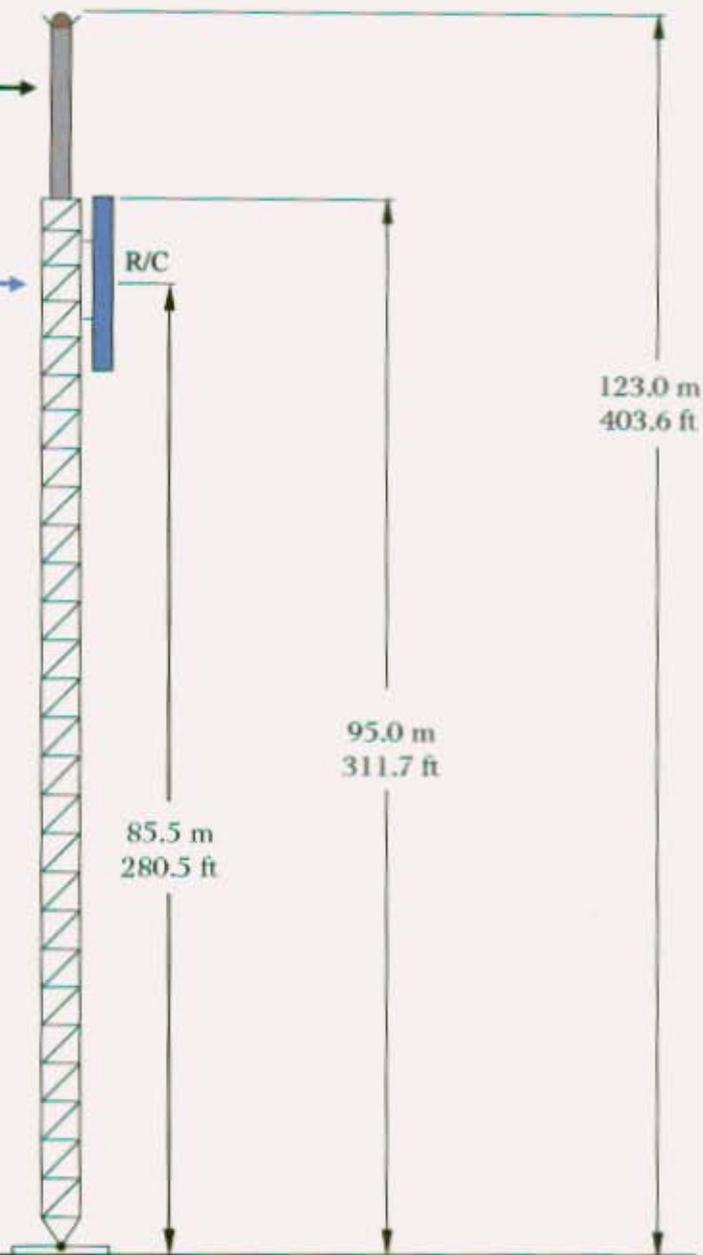
ELEVATION VIEW

EXISTING ANDREW
ATW16V3-DTO/S-8
NTSC ANTENNA

PROPOSED
DIELECTRIC
THA-S4-12/48-1
DTV ANTENNA

GUYED TOWER AND
ANTENNA: LIGHTED
AND PAINTED IN
ACCORDANCE WITH
FCC REQUIREMENTS

SITE ELEVATION: 496.4 M AMSL



OVERALL HEIGHT AGL: 123.0 M
 OVERALL HEIGHT AMSL: 619.4 M
 RADIATION CENTER AGL: 85.5 M
 RADIATION CENTER AMSL: 581.9 M
 RADIATION CENTER AAT: 305.4 M
 AVG OF NON-ODD RADIALS: 276.5 M
 SITE HEIGHT AAT: 193.8 M

COORDINATES NAD 27:
 N. LATITUDE 33 ° 48 ' 18 "
 W. LONGITUDE 84 ° 08 ' 40 "

Antenna Structure Registration Number
 1018776

NOTE: NOT TO SCALE

KESSLER & GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

507 N.W. 60th Street, Suite C
 Gainesville, Florida 32607

WGTV-DT

ATHENS, GEORGIA

20020219

EXHIBIT 3

Date	19 Feb 2002	Channel	12
Call Letters	WGTV		
Location	Athens, GA		
Customer	GPTC		
Antenna Type	THA-S4-12/48-1		

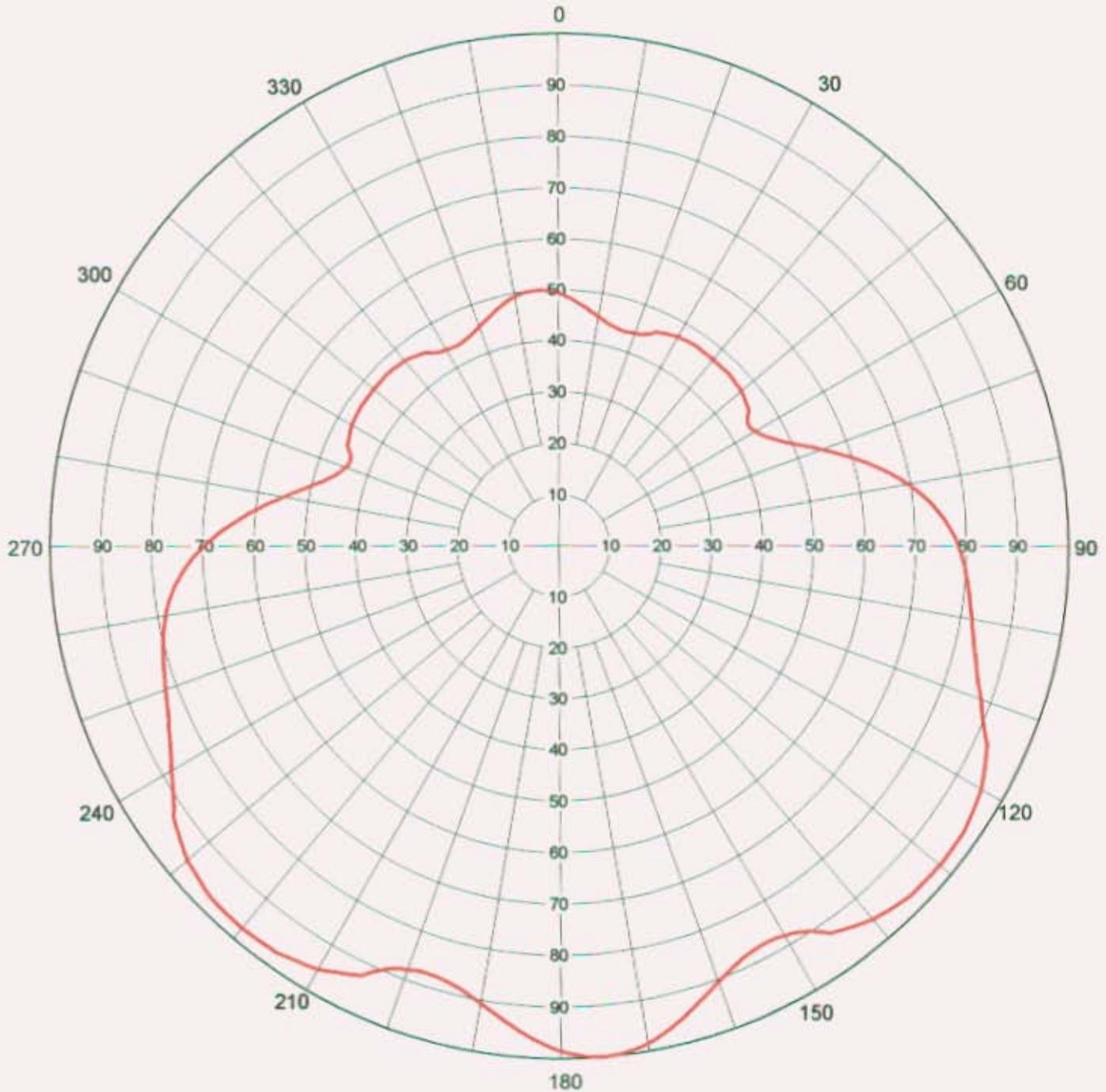
AZIMUTH PATTERN

RMS Gain at Main Lobe
Calculated / Measured

1.90 (2.79 dB)
Calculated

Frequency
Drawing #

207 MHz
THA-S4



Remarks:

Exhibit 4



Date **19 Feb 2002**
 Call Letters **WGTV** Channel **12**
 Location **Athens, GA**
 Customer **GPTC**
 Antenna Type **THA-S4-12/48-1**

TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing # **THA-S4**

Angle	Field														
0	0.493	45	0.473	90	0.785	135	0.970	180	0.986	225	0.971	270	0.696	315	0.474
1	0.490	46	0.472	91	0.789	136	0.967	181	0.980	226	0.968	271	0.683	316	0.473
2	0.486	47	0.471	92	0.794	137	0.964	182	0.973	227	0.965	272	0.670	317	0.472
3	0.483	48	0.470	93	0.798	138	0.960	183	0.965	228	0.962	273	0.656	318	0.471
4	0.479	49	0.469	94	0.801	139	0.957	184	0.957	229	0.959	274	0.641	319	0.470
5	0.474	50	0.468	95	0.805	140	0.954	185	0.949	230	0.956	275	0.625	320	0.470
6	0.470	51	0.466	96	0.808	141	0.948	186	0.940	231	0.950	276	0.610	321	0.467
7	0.466	52	0.464	97	0.812	142	0.942	187	0.931	232	0.944	277	0.595	322	0.465
8	0.461	53	0.462	98	0.815	143	0.936	188	0.923	233	0.938	278	0.579	323	0.463
9	0.457	54	0.460	99	0.819	144	0.931	189	0.914	234	0.932	279	0.564	324	0.461
10	0.453	55	0.457	100	0.823	145	0.925	190	0.906	235	0.926	280	0.548	325	0.459
11	0.449	56	0.449	101	0.827	146	0.910	191	0.899	236	0.915	281	0.534	326	0.452
12	0.446	57	0.443	102	0.831	147	0.899	192	0.892	237	0.904	282	0.520	327	0.447
13	0.443	58	0.440	103	0.835	148	0.890	193	0.886	238	0.895	283	0.506	328	0.443
14	0.441	59	0.441	104	0.840	149	0.884	194	0.882	239	0.887	284	0.494	329	0.441
15	0.439	60	0.446	105	0.846	150	0.880	195	0.878	240	0.881	285	0.482	330	0.440
16	0.438	61	0.450	106	0.852	151	0.877	196	0.876	241	0.872	286	0.472	331	0.438
17	0.437	62	0.456	107	0.858	152	0.875	197	0.874	242	0.864	287	0.463	332	0.437
18	0.437	63	0.463	108	0.864	153	0.874	198	0.875	243	0.858	288	0.456	333	0.437
19	0.438	64	0.472	109	0.872	154	0.876	199	0.877	244	0.852	289	0.450	334	0.438
20	0.440	65	0.482	110	0.881	155	0.878	200	0.880	245	0.846	290	0.446	335	0.439
21	0.441	66	0.494	111	0.887	156	0.882	201	0.884	246	0.840	291	0.441	336	0.441
22	0.443	67	0.506	112	0.895	157	0.886	202	0.890	247	0.835	292	0.440	337	0.443
23	0.447	68	0.520	113	0.904	158	0.892	203	0.899	248	0.831	293	0.443	338	0.446
24	0.452	69	0.534	114	0.915	159	0.899	204	0.910	249	0.827	294	0.449	339	0.449
25	0.459	70	0.548	115	0.926	160	0.906	205	0.925	250	0.823	295	0.457	340	0.453
26	0.461	71	0.564	116	0.932	161	0.914	206	0.931	251	0.819	296	0.460	341	0.457
27	0.463	72	0.579	117	0.938	162	0.923	207	0.936	252	0.815	297	0.462	342	0.461
28	0.465	73	0.595	118	0.944	163	0.931	208	0.942	253	0.812	298	0.464	343	0.466
29	0.467	74	0.610	119	0.950	164	0.940	209	0.948	254	0.808	299	0.466	344	0.470
30	0.470	75	0.625	120	0.956	165	0.949	210	0.954	255	0.805	300	0.468	345	0.474
31	0.470	76	0.641	121	0.959	166	0.957	211	0.957	256	0.801	301	0.469	346	0.479
32	0.471	77	0.656	122	0.962	167	0.965	212	0.960	257	0.798	302	0.470	347	0.483
33	0.472	78	0.670	123	0.965	168	0.973	213	0.964	258	0.794	303	0.471	348	0.486
34	0.473	79	0.683	124	0.968	169	0.980	214	0.967	259	0.789	304	0.472	349	0.490
35	0.474	80	0.696	125	0.971	170	0.986	215	0.970	260	0.785	305	0.473	350	0.493
36	0.473	81	0.709	126	0.971	171	0.991	216	0.971	261	0.779	306	0.473	351	0.495
37	0.473	82	0.720	127	0.972	172	0.995	217	0.971	262	0.773	307	0.473	352	0.497
38	0.473	83	0.731	128	0.972	173	0.998	218	0.972	263	0.766	308	0.473	353	0.499
39	0.473	84	0.741	129	0.973	174	0.999	219	0.973	264	0.758	309	0.473	354	0.500
40	0.473	85	0.750	130	0.974	175	1.000	220	0.974	265	0.750	310	0.473	355	0.500
41	0.473	86	0.758	131	0.973	176	0.999	221	0.973	266	0.741	311	0.473	356	0.500
42	0.473	87	0.766	132	0.972	177	0.998	222	0.972	267	0.731	312	0.473	357	0.499
43	0.473	88	0.773	133	0.971	178	0.995	223	0.972	268	0.720	313	0.473	358	0.497
44	0.473	89	0.779	134	0.971	179	0.991	224	0.971	269	0.709	314	0.473	359	0.495

Remarks:

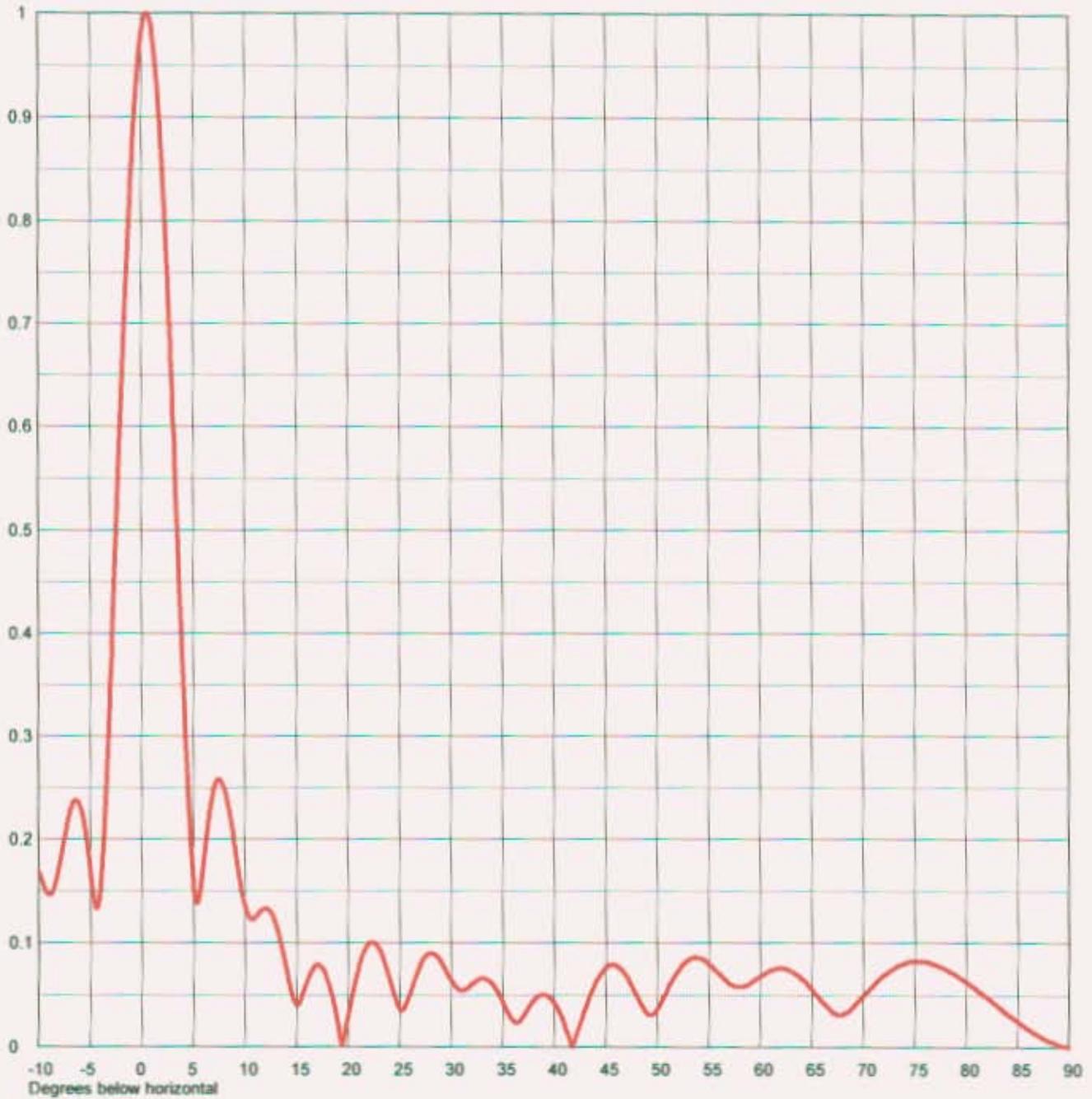
Exhibit 5



Date	19 Feb 2002	Channel	12
Call Letters	WGTV		
Location	Athens, GA		
Customer	GPTC		
Antenna Type	THA-S4-12/48-1		

ELEVATION PATTERN

RMS Gain at Main Lobe	11.8 (10.72 dB)	Beam Tilt	0.60 Degrees
RMS Gain at Horizontal	11.3 (10.53 dB)	Frequency	207.00 MHz
Calculated / Measured	Calculated	Drawing #	12H118060-90



Remarks:

Exhibit 6



Date **19 Feb 2002**
 Call Letters **WGTV** Channel **12**
 Location **Athens, GA**
 Customer **GPTC**
 Antenna Type **THA-S4-12/48-1**

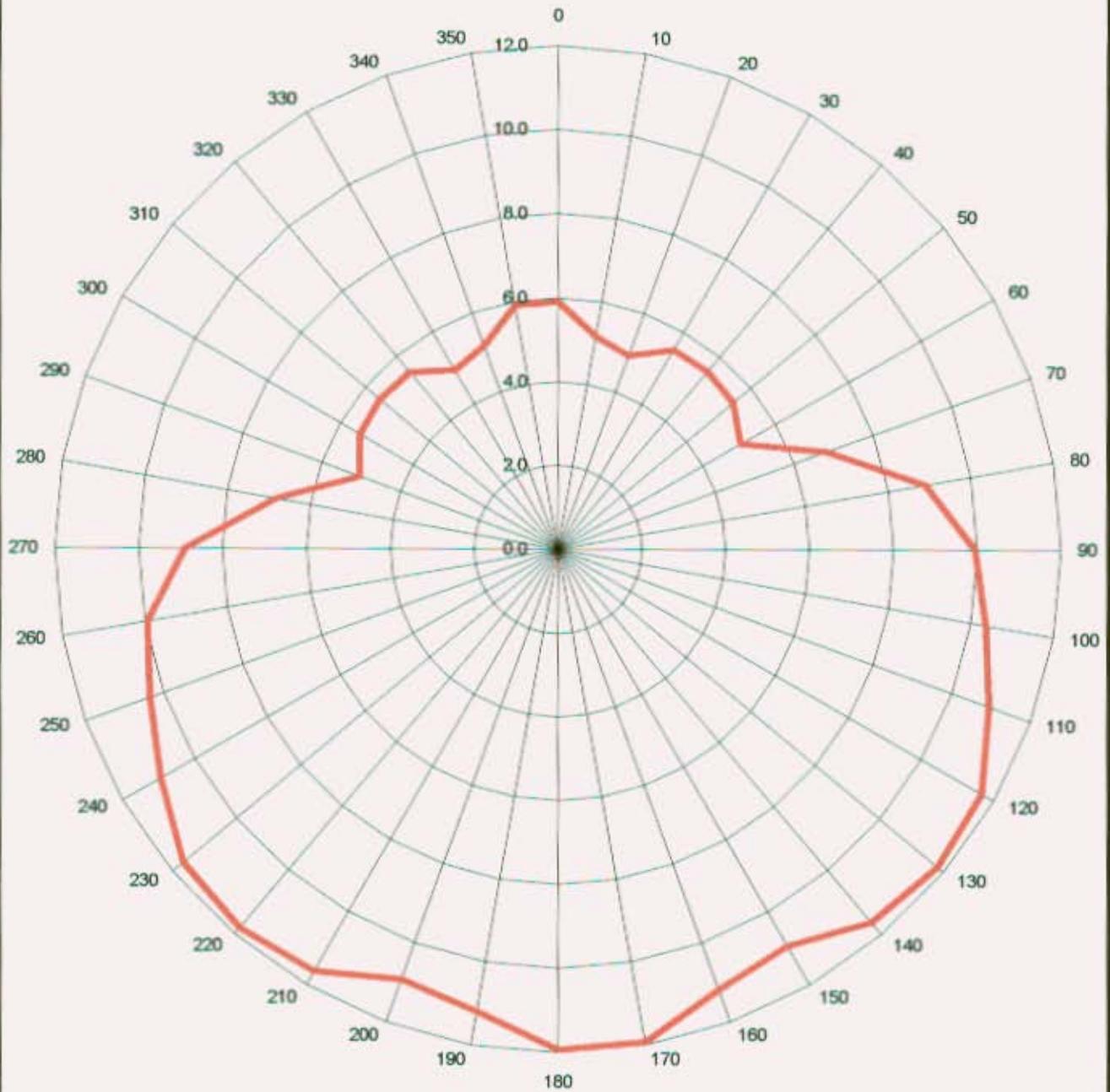
TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing # **12H118060-90**

Angle	Field										
-10.0	0.170	2.4	0.781	10.6	0.123	30.5	0.058	51.0	0.055	71.5	0.064
-9.5	0.155	2.6	0.735	10.8	0.122	31.0	0.055	51.5	0.064	72.0	0.069
-9.0	0.146	2.8	0.687	11.0	0.124	31.5	0.056	52.0	0.072	72.5	0.073
-8.5	0.152	3.0	0.637	11.5	0.130	32.0	0.060	52.5	0.079	73.0	0.076
-8.0	0.173	3.2	0.585	12.0	0.133	32.5	0.064	53.0	0.083	73.5	0.079
-7.5	0.200	3.4	0.532	12.5	0.130	33.0	0.066	53.5	0.085	74.0	0.080
-7.0	0.224	3.6	0.479	13.0	0.118	33.5	0.065	54.0	0.085	74.5	0.082
-6.5	0.237	3.8	0.426	13.5	0.100	34.0	0.061	54.5	0.084	75.0	0.082
-6.0	0.233	4.0	0.373	14.0	0.076	34.5	0.054	55.0	0.080	75.5	0.082
-5.5	0.211	4.2	0.323	14.5	0.053	35.0	0.044	55.5	0.076	76.0	0.082
-5.0	0.172	4.4	0.275	15.0	0.041	35.5	0.034	56.0	0.071	76.5	0.081
-4.5	0.136	4.6	0.231	15.5	0.047	36.0	0.026	56.5	0.066	77.0	0.079
-4.0	0.150	4.8	0.193	16.0	0.061	36.5	0.024	57.0	0.061	77.5	0.077
-3.5	0.232	5.0	0.163	16.5	0.073	37.0	0.029	57.5	0.059	78.0	0.075
-3.0	0.350	5.2	0.144	17.0	0.079	37.5	0.037	58.0	0.058	78.5	0.072
-2.8	0.401	5.4	0.138	17.5	0.076	38.0	0.044	58.5	0.059	79.0	0.069
-2.6	0.454	5.6	0.144	18.0	0.065	38.5	0.049	59.0	0.061	79.5	0.066
-2.4	0.507	5.8	0.157	18.5	0.048	39.0	0.050	59.5	0.064	80.0	0.063
-2.2	0.561	6.0	0.175	19.0	0.025	39.5	0.048	60.0	0.068	80.5	0.059
-2.0	0.613	6.2	0.193	19.5	0.002	40.0	0.043	60.5	0.071	81.0	0.055
-1.8	0.664	6.4	0.210	20.0	0.028	40.5	0.034	61.0	0.074	81.5	0.052
-1.6	0.713	6.6	0.226	20.5	0.053	41.0	0.023	61.5	0.075	82.0	0.048
-1.4	0.760	6.8	0.238	21.0	0.074	41.5	0.009	62.0	0.076	82.5	0.044
-1.2	0.803	7.0	0.248	21.5	0.090	42.0	0.006	62.5	0.075	83.0	0.040
-1.0	0.843	7.2	0.254	22.0	0.099	42.5	0.021	63.0	0.073	83.5	0.036
-0.8	0.880	7.4	0.258	22.5	0.100	43.0	0.036	63.5	0.070	84.0	0.032
-0.6	0.912	7.6	0.258	23.0	0.095	43.5	0.049	64.0	0.066	84.5	0.028
-0.4	0.939	7.8	0.255	23.5	0.083	44.0	0.061	64.5	0.062	85.0	0.025
-0.2	0.962	8.0	0.250	24.0	0.067	44.5	0.070	65.0	0.056	85.5	0.021
0.0	0.980	8.2	0.243	24.5	0.050	45.0	0.076	65.5	0.050	86.0	0.018
0.2	0.992	8.4	0.233	25.0	0.037	45.5	0.079	66.0	0.044	86.5	0.015
0.4	0.999	8.6	0.222	25.5	0.038	46.0	0.078	66.5	0.039	87.0	0.012
0.6	1.000	8.8	0.210	26.0	0.050	46.5	0.075	67.0	0.034	87.5	0.009
0.8	0.996	9.0	0.197	26.5	0.065	47.0	0.069	67.5	0.032	88.0	0.006
1.0	0.986	9.2	0.183	27.0	0.078	47.5	0.060	68.0	0.031	88.5	0.004
1.2	0.971	9.4	0.170	27.5	0.086	48.0	0.050	68.5	0.034	89.0	0.002
1.4	0.951	9.6	0.157	28.0	0.089	48.5	0.040	69.0	0.038	89.5	0.001
1.6	0.926	9.8	0.146	28.5	0.088	49.0	0.033	69.5	0.043	90.0	0.000
1.8	0.896	10.0	0.137	29.0	0.082	49.5	0.031	70.0	0.048		
2.0	0.861	10.2	0.130	29.5	0.074	50.0	0.036	70.5	0.054		
2.2	0.823	10.4	0.125	30.0	0.065	50.5	0.045	71.0	0.059		

Remarks:

ERP - dBk



**DIELECTRIC THA-S4-12/48-1
DIRECTIONAL ANTENNA
ORIENTED WITH BEAM MAXIMUM AT 175 DEGREES
0.60 DEGREES ELECTRICAL BEAM TILT
MAXIMUM ANTENNA GAIN IN BEAM MAXIMUM 13.50 dB**

KESSLER & GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

507 N.W. 60th Street, Suite C

Gainesville, Florida 32607

WGTV-DT CHANNEL 12

ATHENS, GA

20020220

EXHIBIT 8

WGTV-DT CHANNEL 12

ATHENS, GEORGIA

TABULATION OF RELATIVE FIELDS FOR PROPOSED DIRECTIONAL ANTENNA

<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>	<u>AZIMUTH</u>	<u>RELATIVE FIELD</u>
N000°E	0.493	N180°E	0.986
N010°E	0.453	N190°E	0.906
N020°E	0.440	N200°E	0.880
N030°E	0.470	N210°E	0.954
N040°E	0.473	N220°E	0.974
N050°E	0.468	N230°E	0.956
N060°E	0.446	N240°E	0.881
N070°E	0.548	N250°E	0.823
N080°E	0.696	N260°E	0.785
N090°E	0.785	N270°E	0.696
N100°E	0.823	N280°E	0.548
N110°E	0.881	N290°E	0.446
N120°E	0.956	N300°E	0.468
N130°E	0.974	N310°E	0.473
N140°E	0.954	N320°E	0.470
N150°E	0.880	N330°E	0.440
N160°E	0.906	N340°E	0.453
N170°E	0.986	N350°E	0.493

MINIMUM OF 0.437 AT N017°E & N332°E

MAXIMA OF 1.000 AT N175°E

KESSLER & GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

507 N.W. 60th Street, Suite C

Gainesville, Florida 32607

WGTV-DT CHANNEL 12

ATHENS, GA

20020220

EXHIBIT 9



KESSLER & GEHMAN

TELECOMMUNICATIONS CONSULTING ENGINEERS

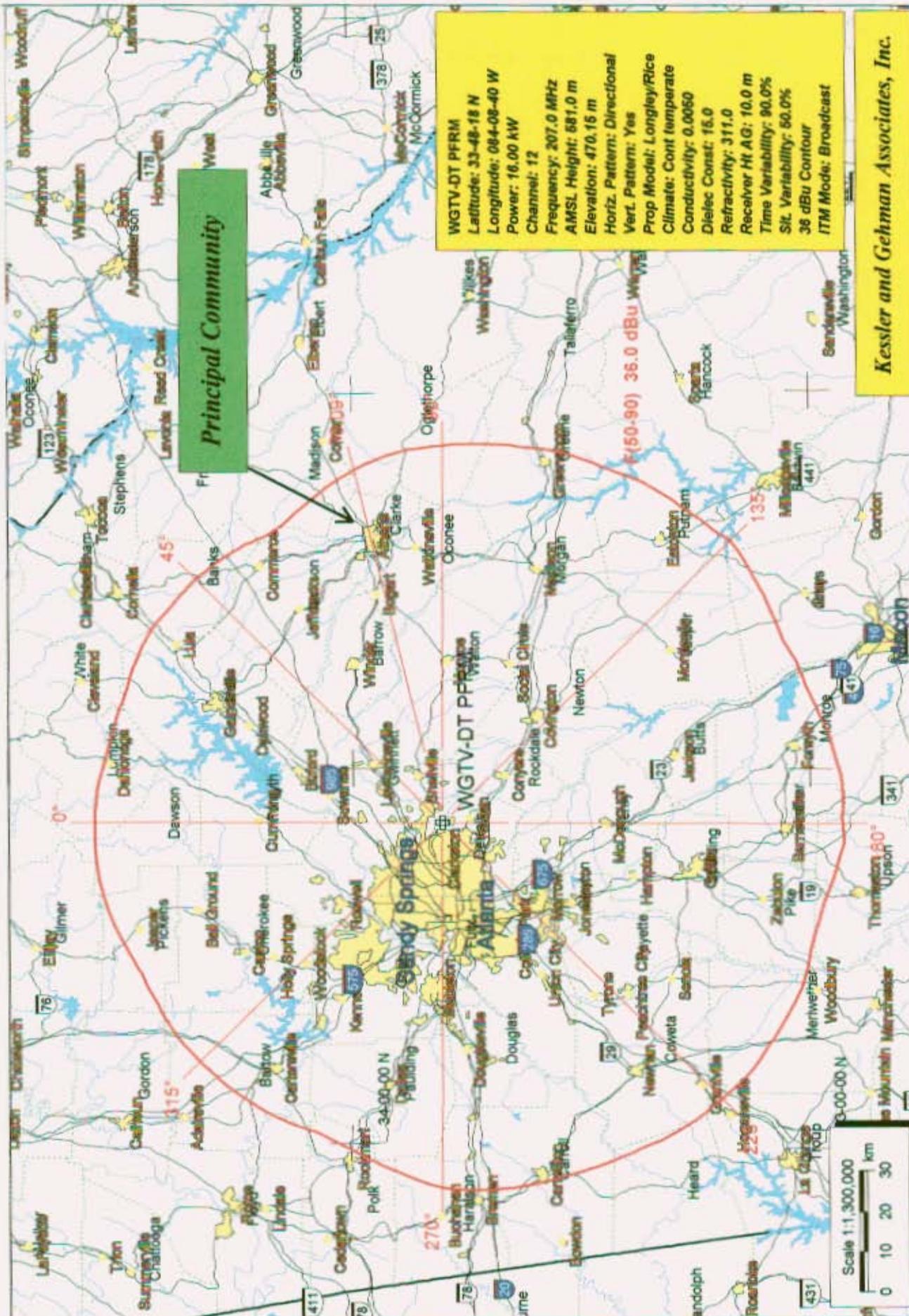
507 N.W. 60th Street, Suite C
Gainesville, Florida 32607

WGTV-DT CHANNEL 12

ATHENS, GEORGIA

20020220

EXHIBIT 10



Kessler and Gehman Associates, Inc.

KESSLER & GEHMAN
 TELECOMMUNICATIONS CONSULTING ENGINEERS
 507 N.W. 60th Street, Suite C
 Gainesville, Florida 32607

WGTV-DT CHANNEL 12

ATHENS, GEORGIA

20020220

EXHIBIT 11

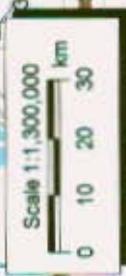


EXHIBIT 12

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-20-2002 Time: 13:29:55

Record Selected for Analysis

WGTV-DT CUR -PROPOSED Athens GA US
 Channel 12 ERP 16.0 kW HAAT 00304 m RCAMSL 00581 m
 Latitude 033-48-18 Longitude 0084-08-40
 Status Zone Border
 Dir Antenna Make CDB Model 00000000000001 Beam tilt N Ref Azimuth 130.0
 Last update 00000000 Cutoff date 00000000 Docket
 Comments
 Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	3.889	287.7	84.6
45.0	3.542	305.6	84.9
90.0	9.860	313.1	93.2
135.0	14.869	343.9	98.7
180.0	15.555	319.0	97.1
225.0	14.900	308.5	96.0
270.0	7.751	285.9	89.8
315.0	3.557	275.4	83.3

Evaluation toward Class A Stations

Contour overlap to Class A station
 WIRE-LP 13 ATLANTA GA BPTVL 19880623QP
 D/U ratio at contour -15.0 dB
 Offset Proposed Offset Class A Z Required D/U ratio: -14.0
 Radial 50.0 degrees
 Bearing to point on contour 266.7 degrees
 D/U ratio at contour -15.8 dB
 Radial 60.0 degrees
 Bearing to point on contour 262.6 degrees
 D/U ratio at contour -16.1 dB
 Radial 70.0 degrees
 Bearing to point on contour 258.4 degrees
 D/U ratio at contour -15.8 dB
 Radial 80.0 degrees
 Bearing to point on contour 254.7 degrees

D/U ratio at contour -15.1 dB
Radial 90.0 degrees
Bearing to point on contour 252.4 degrees
D/U ratio at contour -14.3 dB
Radial 100.0 degrees
Bearing to point on contour 251.2 degrees

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WGTV-DT 12 Athens GA CUR PROPOSED

and station

SHORT TO: WXIA-TV 11 ATLANTA GA BMLCT 19960208KF
033-45-24 0084-19-55
Req. separation => 11.0 <= 125.0 Actual separation 18.2 Short 106.8(7.2) km

SHORT TO: WRDW-TV 12 AUGUSTA GA BMLCT 557
033-24-29 0081-50-36
Req. separation 273.6 Actual separation 218.1 Short 55.5 km

SHORT TO: WDEF-TV 12 CHATTANOOGA TN BLCT 1619
035-08- 6 0085-19-25
Req. separation 273.6 Actual separation 183.0 Short 90.6 km

- Proposed facility OK to FCC Monitoring Stations
- Proposed facility OK toward West Virginia quite 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

Channel	Proposed Station Call	City/State	ARN	
12	WGTV-DT	Athens GA	CUR	PROPOSED

Stations Potentially Affected by Proposed Station

Proposal causes no interference

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Analysis of Interference to Affected Station 2

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
12	WSFA	MONTGOMERY AL	DTVPLN	-NPLN0028

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	WVTMTV	BIRMINGHAM AL	178.5	PLN	DTVPLN	-NPLN0030
13	WMBB	PANAMA CITY FL	194.8	PLN	DTVPLN	-NPLN0329
12	WMAETV	BOONEVILLE MS	383.7	PLN	DTVPLN	-NPLN0846
12	WJTV	JACKSON MS	400.4	PLN	DTVPLN	-NPLN0847
12	WDEFTV	CHATTANOOGA TN	359.7	PLN	DTVPLN	-NPLN1336

Results for: 12N AL MONTGOMERY		DTVPLN	NPLN0028	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		923335	44906.8	
not affected by terrain losses		899790	42502.0	
lost to NTSC IX		31434	1286.2	
lost to additional IX by ATV		0	0.0	
lost to all IX		31434	1286.2	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WSFA	MONTGOMERY AL	BLCT	-2576

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WDIQ	DOZIER AL	51.6	APP	BPEDT	-20010116AHN
11	WDIQ	DOZIER AL	51.6	APP	BPRM	-20000328AAJ
12	WFXL-DT	ALBANY GA	229.2	CP	BPCDT	-20000427ABX
12	WMAE-TV	BOONEVILLE MS	383.7	LIC	BLET	-20001011ABQ
12	WJTV	JACKSON MS	400.4	LIC	BMLCT	-19850919KV
12	WDEF-TV	CHATTANOOGA TN	359.7	LIC	BLCT	-1619
13	WVTM-TV	BIRMINGHAM AL	178.5	LIC	BLCT	-19801209KE
13	WMBB	PANAMA CITY FL	194.8	LIC	BLCT	-19900816KE
12	WGTV-DT	Athens GA	277.2		CUR	-PROPOSED

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 2
Before Analysis

Results for: 12N AL MONTGOMERY		BLCT	2576	LIC
		POPULATION	AREA (sq km)	
within Noise Limited Contour		923335	44906.8	
not affected by terrain losses		899790	42502.0	

lost to NTSC IX	31434	1286.2
lost to additional IX by ATV	12307	822.9
lost to all IX	43741	2109.1

Potential Interferring Stations Included in above Scenario 1

12N MS BOONEVILLE	BLET	20001011ABQ	LIC
12N MS JACKSON	BMLCT	19850919KV	LIC
12N TN CHATTANOOGA	BLCT	1619	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
12A GA ALBANY	BPCDT	20000427ABX	CP

After Analysis

Results for: 12N AL MONTGOMERY	BLCT	2576	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	923335	44906.8	
not affected by terrain losses	899790	42502.0	
lost to NTSC IX	31434	1286.2	
lost to additional IX by ATV	19149	1242.3	
lost to all IX	50583	2528.6	

Potential Interferring Stations Included in above Scenario 1

12N MS BOONEVILLE	BLET	20001011ABQ	LIC
12N MS JACKSON	BMLCT	19850919KV	LIC
12N TN CHATTANOOGA	BLCT	1619	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
12A GA ALBANY	BPCDT	20000427ABX	CP
12A GA Athens	CUR	PROPOSED	
*Percent new DTV interference without proposal:	1.3	BLCT	2576
*Percent new DTV interference with proposal:	2.1	BLCT	2576

#####

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WFXL-DT	ALBANY GA	BPCDT	-20000427ABX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WFSU-TV	TALLAHASSEE FL	129.6	CP	BPET	-19790718KF
12	WSFA	MONTGOMERY AL	229.2	LIC	BLCT	-2576
12	WTLV	JACKSONVILLE FL	249.8	LIC	BLCT	-19860102KE
12	WTVT	TAMPA FL	420.7	LIC	BLCDT	-20000501ABM
12	WTVT-DT	TAMPA FL	420.6	PLN	DTVPLN	-DTVP0092
12	WTVT-DT	TAMPA FL	420.7	CP MOD	BMPCDT	-19990526KG
12	WRDW-TV	AUGUSTA GA	298.7	LIC	BMLCT	-557
13	WMBB	PANAMA CITY FL	182.0	LIC	BLCT	-19900816KE

13	WMAZ-TV	MACON GA	160.6	LIC	BLCT	-2397
12	WGTV-DT	Athens GA	276.2		CUR	-PROPOSED

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 3
 Before Analysis

Results for: 12A GA ALBANY BPCDT 20000427ABX CP
 HAAT 287.0 m, ATV ERP 60.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	659412	29581.3
not affected by terrain losses	645170	29331.9
lost to NTSC IX	14532	1162.5
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	14532	1162.5

Potential Interfering Stations Included in above Scenario 1

11N FL TALLAHASSEE	BPET	19790718KF	CP
12N AL MONTGOMERY	BLCT	2576	LIC
12N FL JACKSONVILLE	BLCT	19860102KE	LIC
12N GA AUGUSTA	BMLCT	557	LIC

After Analysis

Results for: 12A GA ALBANY BPCDT 20000427ABX CP
 HAAT 287.0 m, ATV ERP 60.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	659412	29581.3
not affected by terrain losses	645170	29331.9
lost to NTSC IX	14532	1162.5
lost to additional IX by ATV	41	20.1
lost to ATV IX only	587	245.4
lost to all IX	14573	1182.6

Potential Interfering Stations Included in above Scenario 1

11N FL TALLAHASSEE	BPET	19790718KF	CP
12N AL MONTGOMERY	BLCT	2576	LIC
12N FL JACKSONVILLE	BLCT	19860102KE	LIC
12N GA AUGUSTA	BMLCT	557	LIC
12A GA Athens	CUR	PROPOSED	

*Percent Service lost without proposal: 0.0 to BPCDT 20000427ABX
 *Percent Service lost with proposal: 0.0 to BPCDT 20000427ABX

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Analysis of Interference to Affected Station 4

NTSC Baseline Analysis

13N GA MACON	BLCT	2397	LIC
12A GA ALBANY	BPCDT	20000427ABX	CP

After Analysis

Results for: 12N GA AUGUSTA	BMLCT	557	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1232896	38591.1	
not affected by terrain losses	1181556	36863.9	
lost to NTSC IX	260672	4644.8	
lost to additional IX by ATV	37395	2469.7	
lost to all IX	298067	7114.5	

Potential Interfering Stations Included in above Scenario 1

11N GA SAVANNAH	BLCT	2311	LIC
12N FL JACKSONVILLE	BLCT	19860102KE	LIC
12N NC WINSTON-SALEM	BLCT	2283	LIC
12N TN CHATTANOOGA	BLCT	1619	LIC
13N GA MACON	BLCT	2397	LIC
12A GA ALBANY	BPCDT	20000427ABX	CP
12A GA Athens	CUR	PROPOSED	
*Percent new DTV interference without proposal:		1.1	BMLCT 557
*Percent new DTV interference with proposal:		3.0	BMLCT 557

Result key: 4
Scenario 2 Affected station 4
Before Analysis

Results for: 12N GA AUGUSTA	BMLCT	557	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1232896	38591.1	
not affected by terrain losses	1181556	36863.9	
lost to NTSC IX	260672	4644.8	
lost to additional IX by ATV	14044	678.0	
lost to all IX	274716	5322.8	

Potential Interfering Stations Included in above Scenario 2

11N GA SAVANNAH	BLCT	2311	LIC
12N FL JACKSONVILLE	BLCT	19860102KE	LIC
12N NC WINSTON-SALEM	BLCT	2283	LIC
12N TN CHATTANOOGA	BLCT	1619	LIC
13N GA MACON	BLCT	2397	LIC
12A GA ALBANY	BPCDT	20000427ABX	CP
13A GA SAVANNAH	BPRM	20010327AJC	APP

After Analysis

Results for: 12N GA AUGUSTA	BMLCT	557	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1232896	38591.1	
not affected by terrain losses	1181556	36863.9	
lost to NTSC IX	260672	4644.8	
lost to additional IX by ATV	37395	2469.7	
lost to all IX	298067	7114.5	

Potential Interfering Stations Included in above Scenario 2

11N GA SAVANNAH	BLCT	2311	LIC
12N FL JACKSONVILLE	BLCT	19860102KE	LIC
12N NC WINSTON-SALEM	BLCT	2283	LIC
12N TN CHATTANOOGA	BLCT	1619	LIC
13N GA MACON	BLCT	2397	LIC
12A GA ALBANY	BPCDT	20000427ABX	CP
13A GA SAVANNAH	BPRM	20010327AJC	APP
12A GA Athens	CUR	PROPOSED	
*Percent new DTV interference without proposal:		1.1	BMLCT 557
*Percent new DTV interference with proposal:		3.0	BMLCT 557

#####

Analysis of Interference to Affected Station 5

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
12	WYMT-DT	HAZARD KY	DTVPLN	-DTVP0094

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WMFD-DT	MANSFIELD OH	399.8	PLN	DTVPLN	-DTVP0099
12	WXII	WINSTON-SALEM NC	265.9	PLN	DTVPLN	-NPLN0942
13	WLOS	ASHEVILLE NC	200.2	PLN	DTVPLN	-NPLN0948
12	WKRCTV	CINCINNATI OH	242.8	PLN	DTVPLN	-NPLN1127
11	WJHLTV	JOHNSON CITY TN	125.7	PLN	DTVPLN	-NPLN1333
12	WDEFTV	CHATTANOOGA TN	298.9	PLN	DTVPLN	-NPLN1336
11	WVAHTV	CHARLESTON WV	175.4	PLN	DTVPLN	-NPLN1721
12	WBOYTV	CLARKSBURG WV	340.6	PLN	DTVPLN	-NPLN1725
13	WOWKTV	HUNTINGTON WV	168.9	PLN	DTVPLN	-NPLN1727

Results for: 12A KY HAZARD DTVPLN DTVP0094 PLN

HAAT 475.0 m, ATV ERP 3.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	580344	22243.7
not affected by terrain losses	442364	18726.3
lost to NTSC IX	12900	575.6
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	12900	575.6

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
57	WYMTTV	HAZARD KY	DTVPLN	-NPLN0692

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	WLFQ-DT	GRUNDY VA	105.8	PLN	DTVPLN	-DTVP1364
56	WLOS-DT	ASHEVILLE NC	200.2	PLN	DTVPLN	-DTVP1515

57	WHNS-DT	ASHEVILLE NC	228.0	PLN	DTVPLN	-DTVP1536
58	WJHL-DT	JOHNSON CITY TN	125.7	PLN	DTVPLN	-DTVP1562
57	WATC	ATLANTA GA	366.2	PLN	DTVPLN	-NPLN0393
65	WLJC	BEATTYVILLE KY	64.1	PLN	DTVPLN	-NPLN0597
56	WDKYTV	DANVILLE KY	147.8	PLN	DTVPLN	-NPLN0690
54	WPMC	JELLICO TN	124.3	PLN	DTVPLN	-NPLN1392
57	WACH	COLUMBIA SC	401.8	PLN	DTVPLN	-NPLN1394

Results for: 57N KY HAZARD

	DTVPLN	NPLN0692	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	465689	19621.6	
not affected by terrain losses	323921	14617.3	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	1300	68.0	
lost to all IX	1300	68.0	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WYMT-DT	HAZARD KY	BPCDT	-19990823LC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WJHL-TV	JOHNSON CITY TN	125.7	LIC	BLCT	-2111
11	WVAH-TV	CHARLESTON WV	175.4	LIC	BLCT	-19880421KF
12	WNIN	EVANSVILLE IN	370.7	CP	BPEDT	-19990615KE
12	WNIN	EVANSVILLE IN	379.5	APP	BPRM	-20000328AAW
12	WNIN	EVANSVILLE IN	370.7	APP	BPEDT	-20011213ABT
12	WXII	WINSTON-SALEM NC	265.9	LIC	BLCT	-2283
12	WKRC-TV	CINCINNATI OH	242.9	LIC	BMLCT	-19860814KF
12	WMFD-DT	MANSFIELD OH	399.8	LIC	BLCDT	-19990301KE
12	WMFD-DT	MANSFIELD OH	399.8	PLN	DTVPLN	-DTVP0099
12	WMFD-DT	MANSFIELD OH	399.8	CP MOD	BMPCDT	-19990315KE
12	WDEF-TV	CHATTANOOGA TN	298.9	LIC	BLCT	-1619
12	WBOY-TV	CLARKSBURG WV	340.6	LIC	BLCT	-19860107KG
13	WKYT-DT	LEXINGTON KY	142.9	CP MOD	BMPCDT	-20010716AAH
13	WKYTTV	LEXINGTON KY	142.9	APP	BPRM	-20000419AAF
13	WLOS	ASHEVILLE NC	200.2	LIC	BLCT	-2599
13	WOWK-TV	HUNTINGTON WV	168.9	LIC	BLCT	-2422
12	WGTV-DT	Athens GA	386.6		CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WYMT-DT	HAZARD KY	DTVPLN	-DTVP0094

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WJHL-TV	JOHNSON CITY TN	125.7	LIC	BLCT	-2111
11	WVAH-TV	CHARLESTON WV	175.4	LIC	BLCT	-19880421KF

12	WNIN	EVANSVILLE IN	370.7	CP	BPEDT	-19990615KE
12	WNIN	EVANSVILLE IN	379.5	APP	BPRM	-20000328AAW
12	WNIN	EVANSVILLE IN	370.7	APP	BMPEDT	-20011213ABT
12	WXII	WINSTON-SALEM NC	265.9	LIC	BLCT	-2283
12	WKRC-TV	CINCINNATI OH	242.9	LIC	BMLCT	-19860814KF
12	WMFD-DT	MANSFIELD OH	399.8	LIC	BLCDT	-19990301KE
12	WMFD-DT	MANSFIELD OH	399.8	PLN	DTVPLN	-DTVP0099
12	WMFD-DT	MANSFIELD OH	399.8	CP MOD	BMPCDT	-19990315KE
12	WDEF-TV	CHATTANOOGA TN	298.9	LIC	BLCT	-1619
12	WBOY-TV	CLARKSBURG WV	340.6	LIC	BLCT	-19860107KG
13	WKYT-DT	LEXINGTON KY	142.9	CP MOD	BMPCDT	-20010716AAH
13	WKYTTV	LEXINGTON KY	142.9	APP	BPRM	-20000419AAF
13	WLOS	ASHEVILLE NC	200.2	LIC	BLCT	-2599
13	WOWK-TV	HUNTINGTON WV	168.9	LIC	BLCT	-2422
12	WGTV-DT	Athens GA	386.6		CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 7

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
12	WDEFTV	CHATTANOOGA TN	DTVPLN	-NPLN1336

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WSFA	MONTGOMERY AL	359.7	PLN	DTVPLN	-NPLN0028
12	WYMT-DT	HAZARD KY	298.9	PLN	DTVPLN	-DTVP0094
11	WXIATV	ATLANTA GA	178.1	PLN	DTVPLN	-NPLN0325
12	WRDWTV	AUGUSTA GA	372.8	PLN	DTVPLN	-NPLN0328
12	WMAETV	BOONEVILLE MS	316.8	PLN	DTVPLN	-NPLN0846

Results for: 12N TN CHATTANOOGA		DTVPLN	NPLN1336	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		1269072	35519.6	
not affected by terrain losses		1031649	27014.5	
lost to NTSC IX		30813	1070.2	
lost to additional IX by ATV		0	0.0	
lost to all IX		30813	1070.2	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WDEF-TV	CHATTANOOGA TN	BLCT	-1619

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WXIA-TV	ATLANTA GA	178.1	LIC	BMLCT	-19960208KF
12	WSFA	MONTGOMERY AL	359.7	LIC	BLCT	-2576
12	WRDW-TV	AUGUSTA GA	372.8	LIC	BMLCT	-557
12	WNIN	EVANSVILLE IN	361.2	CP	BPEDT	-19990615KE
12	WNIN	EVANSVILLE IN	369.1	APP	BPRM	-20000328AAW
12	WNIN	EVANSVILLE IN	361.2	APP	BMPEDT	-20011213ABT

12	WYMT-DT	HAZARD KY	298.9	CP	BPCDT	-19990823LC
12	WYMT-DT	HAZARD KY	298.9	PLN	DTVPLN	-DTVP0094
12	WMAE-TV	BOONEVILLE MS	316.8	LIC	BLET	-20001011ABQ
13	WRCB-DT	CHATTANOOGA TN	3.0	CP	BPCDT	-20010502AAO
13	WRCBTV	CHATTANOOGA TN	3.0	APP	BPRM	-20000328AAG
12	WGTV-DT	Athens GA	183.1		CUR	-PROPOSED

Total scenarios = 2

Result key: 5
Scenario 1 Affected station 7
Before Analysis

Results for: 12N TN CHATTANOOGA	BLCT	1619	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1269072	35519.6	
not affected by terrain losses	1031649	27014.5	
lost to NTSC IX	30790	1066.2	
lost to additional IX by ATV	23606	837.7	
lost to all IX	54396	1903.8	

Potential Interfering Stations Included in above Scenario 1

11N GA ATLANTA	BMLCT	19960208KF	LIC
12N AL MONTGOMERY	BLCT	2576	LIC
12N GA AUGUSTA	BMLCT	557	LIC
12N MS BOONEVILLE	BLET	20001011ABQ	LIC
12A KY HAZARD	BPCDT	19990823LC	CP

After Analysis

Results for: 12N TN CHATTANOOGA	BLCT	1619	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1269072	35519.6	
not affected by terrain losses	1031649	27014.5	
lost to NTSC IX	30790	1066.2	
lost to additional IX by ATV	48739	1446.9	
lost to all IX	79529	2513.1	

Potential Interfering Stations Included in above Scenario 1

11N GA ATLANTA	BMLCT	19960208KF	LIC
12N AL MONTGOMERY	BLCT	2576	LIC
12N GA AUGUSTA	BMLCT	557	LIC
12N MS BOONEVILLE	BLET	20001011ABQ	LIC
12A KY HAZARD	BPCDT	19990823LC	CP
12A GA Athens	CUR	PROPOSED	
*Percent new DTV interference without proposal:	1.9	BLCT	1619
*Percent new DTV interference with proposal:	3.8	BLCT	1619

Result key: 6
Scenario 2 Affected station 7
Before Analysis

Results for: 12N TN CHATTANOOGA	BLCT	1619	LIC
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	POPULATION	AREA (sq km)
within Noise Limited Contour	1269072	35519.6
not affected by terrain losses	1031649	27014.5
lost to NTSC IX	30790	1066.2
lost to additional IX by ATV	23687	841.7
lost to all IX	54477	1907.8

Potential Interfering Stations Included in above Scenario 2

11N GA ATLANTA	BMLCT	19960208KF	LIC
12N AL MONTGOMERY	BLCT	2576	LIC
12N GA AUGUSTA	BMLCT	557	LIC
12N MS BOONEVILLE	BLET	20001011ABQ	LIC
12A IN EVANSVILLE	BMPEDT	20011213ABT	APP
12A KY HAZARD	BPCDT	19990823LC	CP
13A TN CHATTANOOGA	BPRM	20000328AAG	APP

After Analysis

Results for: 12N TN CHATTANOOGA		BLCT	1619	LIC
	POPULATION	AREA (sq km)		
within Noise Limited Contour	1269072	35519.6		
not affected by terrain losses	1031649	27014.5		
lost to NTSC IX	30790	1066.2		
lost to additional IX by ATV	48820	1450.9		
lost to all IX	79610	2517.1		

Potential Interfering Stations Included in above Scenario 2

11N GA ATLANTA	BMLCT	19960208KF	LIC
12N AL MONTGOMERY	BLCT	2576	LIC
12N GA AUGUSTA	BMLCT	557	LIC
12N MS BOONEVILLE	BLET	20001011ABQ	LIC
12A IN EVANSVILLE	BMPEDT	20011213ABT	APP
12A KY HAZARD	BPCDT	19990823LC	CP
13A TN CHATTANOOGA	BPRM	20000328AAG	APP
12A GA Athens	CUR	PROPOSED	

*Percent new DTV interference without proposal: 1.9 BLCT 1619
 *Percent new DTV interference with proposal: 3.8 BLCT 1619

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Analysis of Interference to Affected Station 8

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
13	WMAZTV	MACON GA	DTVPLN	-NPLN0438

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
13	WVTMTV	BIRMINGHAM AL	312.3	PLN	DTVPLN	-NPLN0030
13	WTLV-DT	JACKSONVILLE FL	334.8	PLN	DTVPLN	-DTVP0104
12	WRDWTW	AUGUSTA GA	175.6	PLN	DTVPLN	-NPLN0328

13	WMBB	PANAMA CITY FL	318.2	PLN	DTVPLN	-NPLN0329
13	WLOS	ASHEVILLE NC	306.1	PLN	DTVPLN	-NPLN0948

Results for: 13N GA MACON

	POPULATION	AREA (sq km)	DTVPLN	NPLN0438	PLN
within Noise Limited Contour	678103	25905.5			
not affected by terrain losses	658816	24516.9			
lost to NTSC IX	69266	3640.0			
lost to additional IX by ATV	0	4.0			
lost to all IX	69266	3644.0			

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WMAZ-TV	MACON GA	BLCT	-2397

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WFXL-DT	ALBANY GA	160.6	CP	BPCDT	-20000427ABX
12	WRDW-TV	AUGUSTA GA	175.6	LIC	BMLCT	-557
13	WVTM-TV	BIRMINGHAM AL	312.3	LIC	BLCT	-19801209KE
13	WTLV	JACKSONVILLE FL	334.7	CP MOD	BMPCDT	-20000501ADK
13	WTLV-DT	JACKSONVILLE FL	334.8	PLN	DTVPLN	-DTVP0104
13	WMBB	PANAMA CITY FL	318.2	LIC	BLCT	-19900816KE
13	WVAN-TV	SAVANNAH GA	194.1	APP	BPRM	-20010327AJC
13	WLOS	ASHEVILLE NC	306.1	LIC	BLCT	-2599
13	WRCB-DT	CHATTANOOGA TN	312.8	CP	BPCDT	-20010502AAO
13	WRCBTV	CHATTANOOGA TN	312.8	APP	BPRM	-20000328AAG
12	WGTV-DT	Athens GA	129.0		CUR	-PROPOSED

Total scenarios = 4

Result key: 7
 Scenario 1 Affected station 8
 Before Analysis

Results for: 13N GA MACON

	POPULATION	AREA (sq km)	BLCT	2397	LIC
within Noise Limited Contour	678103	25905.5			
not affected by terrain losses	658816	24516.9			
lost to NTSC IX	69266	3640.0			
lost to additional IX by ATV	1449	76.3			
lost to all IX	70715	3716.3			

Potential Interfering Stations Included in above Scenario 1

12N GA AUGUSTA	BMLCT	557	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A FL JACKSONVILLE	BMPCDT	20000501ADK	CP
13A TN CHATTANOOGA	BPCDT	20010502AAO	CP

After Analysis

Results for: 13N GA MACON

	POPULATION	AREA (sq km)	BLCT	2397	LIC
within Noise Limited Contour	678103	25905.5			
not affected by terrain losses	658816	24516.9			
lost to NTSC IX	69266	3640.0			
lost to additional IX by ATV	1449	76.3			
lost to all IX	70715	3716.3			

	POPULATION	AREA (sq km)
within Noise Limited Contour	678103	25905.5
not affected by terrain losses	658816	24516.9
lost to NTSC IX	69266	3640.0
lost to additional IX by ATV	1796	84.3
lost to all IX	71062	3724.3

Potential Interfering Stations Included in above Scenario 1

12N GA AUGUSTA	BMLCT	557	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A FL JACKSONVILLE	BMPCDT	20000501ADK	CP
13A TN CHATTANOOGA	BPCDT	20010502AAO	CP
12A GA Athens	CUR	PROPOSED	
*Percent new DTV interference without proposal:		0.2	BLCT 2397
*Percent new DTV interference with proposal:		0.3	BLCT 2397

Result key: 8
Scenario 2 Affected station 8
Before Analysis

Results for: 13N GA MACON	BLCT	2397	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	678103	25905.5	
not affected by terrain losses	658816	24516.9	
lost to NTSC IX	69266	3640.0	
lost to additional IX by ATV	1191	16.1	
lost to all IX	70457	3656.1	

Potential Interfering Stations Included in above Scenario 2

12N GA AUGUSTA	BMLCT	557	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A FL JACKSONVILLE	DTVPLN	DTVP0104	PLN
13A TN CHATTANOOGA	BPCDT	20010502AAO	CP

After Analysis

Results for: 13N GA MACON	BLCT	2397	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	678103	25905.5	
not affected by terrain losses	658816	24516.9	
lost to NTSC IX	69266	3640.0	
lost to additional IX by ATV	1538	24.1	
lost to all IX	70804	3664.1	

Potential Interfering Stations Included in above Scenario 2

12N GA AUGUSTA	BMLCT	557	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC

13A FL JACKSONVILLE	DTVPLN	DTVP0104	PLN		
13A TN CHATTANOOGA	BPCDT	20010502AAO	CP		
12A GA Athens	CUR	PROPOSED			
*Percent new DTV interference without proposal:				0.2	BLCT 2397
*Percent new DTV interference with proposal:				0.2	BLCT 2397

Result key: 9
Scenario 3 Affected station 8
Before Analysis

Results for: 13N GA MACON	BLCT	2397	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	678103	25905.5	
not affected by terrain losses	658816	24516.9	
lost to NTSC IX	69266	3640.0	
lost to additional IX by ATV	3522	437.4	
lost to all IX	72788	4077.5	

Potential Interfering Stations Included in above Scenario 3

12N GA AUGUSTA	BMLCT	557	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A FL JACKSONVILLE	BMPCDT	20000501ADK	CP
13A GA SAVANNAH	BPRM	20010327AJC	APP
13A TN CHATTANOOGA	BPCDT	20010502AAO	CP
13A TN CHATTANOOGA	BPRM	20000328AAG	APP

After Analysis

Results for: 13N GA MACON	BLCT	2397	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	678103	25905.5	
not affected by terrain losses	658816	24516.9	
lost to NTSC IX	69266	3640.0	
lost to additional IX by ATV	3869	445.5	
lost to all IX	73135	4085.5	

Potential Interfering Stations Included in above Scenario 3

12N GA AUGUSTA	BMLCT	557	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A FL JACKSONVILLE	BMPCDT	20000501ADK	CP
13A GA SAVANNAH	BPRM	20010327AJC	APP
13A TN CHATTANOOGA	BPCDT	20010502AAO	CP
13A TN CHATTANOOGA	BPRM	20000328AAG	APP
12A GA Athens	CUR	PROPOSED	
*Percent new DTV interference without proposal: 0.5 BLCT 2397			
*Percent new DTV interference with proposal: 0.6 BLCT 2397			

Result key: 10
Scenario 4 Affected station 8

Before Analysis

Results for: 13N GA MACON	BLCT	2397	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	678103	25905.5	
not affected by terrain losses	658816	24516.9	
lost to NTSC IX	69266	3640.0	
lost to additional IX by ATV	3419	433.4	
lost to all IX	72685	4073.4	

Potential Interfering Stations Included in above Scenario 4

12N GA AUGUSTA	BMLCT	557	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A FL JACKSONVILLE	DTVPLN	DTVP0104	PLN
13A GA SAVANNAH	BPRM	20010327AJC	APP
13A TN CHATTANOOGA	BPCDT	20010502AAO	CP
13A TN CHATTANOOGA	BPRM	20000328AAG	APP

After Analysis

Results for: 13N GA MACON	BLCT	2397	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	678103	25905.5	
not affected by terrain losses	658816	24516.9	
lost to NTSC IX	69266	3640.0	
lost to additional IX by ATV	3766	441.5	
lost to all IX	73032	4081.5	

Potential Interfering Stations Included in above Scenario 4

12N GA AUGUSTA	BMLCT	557	LIC
13N AL BIRMINGHAM	BLCT	19801209KE	LIC
13N FL PANAMA CITY	BLCT	19900816KE	LIC
13N NC ASHEVILLE	BLCT	2599	LIC
13A FL JACKSONVILLE	DTVPLN	DTVP0104	PLN
13A GA SAVANNAH	BPRM	20010327AJC	APP
13A TN CHATTANOOGA	BPCDT	20010502AAO	CP
13A TN CHATTANOOGA	BPRM	20000328AAG	APP
12A GA Athens	CUR	PROPOSED	

*Percent new DTV interference without proposal: 0.5 BLCT 2397
 *Percent new DTV interference with proposal: 0.6 BLCT 2397

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WRCB-DT	CHATTANOOGA TN	BPCDT	-20010502AAO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WDEF-TV	CHATTANOOGA TN	3.0	LIC	BLCT	-1619
13	WVTM-TV	BIRMINGHAM AL	230.2	LIC	BLCT	-19801209KE
13	WMAZ-TV	MACON GA	312.8	LIC	BLCT	-2397
13	WBKO	BOWLING GREEN KY	234.3	LIC	BLCT	-2061
13	WBKO	BOWLING GREEN KY	234.2	APP	BPCT	-20001129AAG
13	WKYT-DT	LEXINGTON KY	330.1	CP MOD	BMPCDT	-20010716AAH
13	WKYTTV	LEXINGTON KY	330.1	APP	BPRM	-20000419AAF
13	WLOS	ASHEVILLE NC	233.8	LIC	BLCT	-2599
13	WRCBTV	CHATTANOOGA TN	0.0	APP	BPRM	-20000328AAG
13	WHBQ-TV	MEMPHIS TN	411.6	LIC	BLCT	-19890801KI
12	WGTV-DT	Athens GA	184.9		CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	WRCBTV	CHATTANOOGA TN	BPRM	-20000328AAG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	WDEF-TV	CHATTANOOGA TN	3.0	LIC	BLCT	-1619
13	WVTM-TV	BIRMINGHAM AL	230.2	LIC	BLCT	-19801209KE
13	WMAZ-TV	MACON GA	312.8	LIC	BLCT	-2397
13	WBKO	BOWLING GREEN KY	234.3	LIC	BLCT	-2061
13	WBKO	BOWLING GREEN KY	234.2	APP	BPCT	-20001129AAG
13	WKYT-DT	LEXINGTON KY	330.1	CP MOD	BMPCDT	-20010716AAH
13	WKYTTV	LEXINGTON KY	330.1	APP	BPRM	-20000419AAF
13	WLOS	ASHEVILLE NC	233.9	LIC	BLCT	-2599
13	WRCB-DT	CHATTANOOGA TN	0.0	CP	BPCDT	-20010502AAO
13	WHBQ-TV	MEMPHIS TN	411.6	LIC	BLCT	-19890801KI
12	WGTV-DT	Athens GA	185.0		CUR	-PROPOSED

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	WGTV-DT	Athens GA	CUR	-PROPOSED

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	WXIA-TV	ATLANTA GA	18.1	LIC	BMLCT	-19960208KF
12	WSFA	MONTGOMERY AL	277.2	LIC	BLCT	-2576
12	WFXL-DT	ALBANY GA	276.2	CP	BPCDT	-20000427ABX

12	WRDW-TV	AUGUSTA GA	217.5	LIC	BMLCT	-557
12	WYMT-DT	HAZARD KY	386.6	CP	BPCDT	-19990823LC
12	WYMT-DT	HAZARD KY	386.6	PLN	DTVPLN	-DTVP0094
12	WDEF-TV	CHATTANOOGA TN	183.1	LIC	BLCT	-1619
13	WMAZ-TV	MACON GA	129.0	LIC	BLCT	-2397
13	WLOS	ASHEVILLE NC	220.3	LIC	BLCT	-2599
13	WRCB-DT	CHATTANOOGA TN	184.9	CP	BPCDT	-20010502AAO
13	WRCBTV	CHATTANOOGA TN	185.0	APP	BPRM	-20000328AAG

Total scenarios = 1

Result key: 11
Scenario 1 Affected station 11
Before Analysis

Results for: 12A GA Athens CUR PROPOSED
HAAT 304.0 m, ATV ERP 16.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3297133	25698.9
not affected by terrain losses	3266149	24867.1
lost to NTSC IX	55214	1567.3
lost to additional IX by ATV	895	76.4
lost to ATV IX only	12042	397.8
lost to all IX	56109	1643.6

Potential Interferring Stations Included in above Scenario 1

12N AL MONTGOMERY	BLCT	2576	LIC	
12N GA AUGUSTA	BMLCT	557	LIC	
12N TN CHATTANOOGA	BLCT	1619	LIC	
12A GA ALBANY	BPCDT	20000427ABX	CP	
*Percent Service lost without proposal:		0.0	to CUR	PROPOSED
*Percent Service lost with proposal:		0.0	to CUR	PROPOSED

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