

WABW-DT CHANNEL 6 SPECIAL TEMPORARY  
AUTHORITY (STA) TO OPERATE THE  
POST-TRANSITION DTV FACILITY AT  
FULL AUTHORIZED PARAMETERS  
*PELHAM, GEORGIA*  
*(Georgia Public Telecommunications Commission)*

KESSLER AND GEHMAN ASSOCIATES, INC.  
TELECOMMUNICATIONS CONSULTING ENGINEERS

20090316

*Prepared by William T. Godfrey, Jr.*

*KG&A*

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*Kessler and Gehman Associates, Inc.*

Telecommunications Consulting Engineers

**ENGINEERING TECHNICAL STATEMENT PREPARED BY WILLIAM T. GODFREY, JR. OF THE FIRM KESSLER AND GEHMAN ASSOCIATES, INC., TELECOMMUNICATIONS CONSULTING ENGINEERS IN CONNECTION WITH A SPECIAL TEMPORARY AUTHORITY (STA) REQUESTING AUTHORIZATION TO OPERATE THE GEORGIA PUBLIC TELECOMMUNICATIONS COMMISSION (GPTC) DIGITAL TELEVISION BROADCAST FACILITY, WABW-DT CHANNEL 6, ON ITS POST-TRANSITION DIGITAL CHANNEL AT FULL AUTHORIZED POWER.**

The firm Kessler and Gehman Associates, Inc. has been retained by Georgia Public Telecommunications Commission (GPTC), Atlanta, GA to prepare engineering studies and the engineering portion of a Special Temporary Authority (STA) requesting authorization to operate the WABW-DT facility on its post-transition digital channel (Channel 6) at its full authorized post-transition parameters pursuant to the procedures adopted in the Report and Order in MB Docket No. 07-91, FCC 07-228 *In the Matter of Third Periodic Review of the Commission's Rules and Policies Affecting the Conversion to Digital Television*, Released on December 31, 2007 (*Third DTV Periodic Report and Order*).

**Discussion**

GPTC is authorized to operate the WABW-DT Channel 6 DTV facility at reduced post-transition facilities under an STA (BDSTA-20090209ALS). GPTC could not initially request its full authorized post-transition parameters when it filed an STA last month for post-transition operation because the antenna used for the WABW-TV Channel 14 analog facility was still top-mounted on the WABW tower at the time and had to be removed before the new top-mount Channel 6 antenna could be installed for the post-transition DTV facility. Therefore, GPTC filed an STA last month requesting to temporarily operate with its post-transition channel (Channel 6) using the existing Channel 5 side-mount antenna that was previously used by the WABW-DT pre-transition DTV facility. The Channel 5 pre-transition antenna was also tuned for Channel 6 operation. The top-mount antenna used by the WABW-TV Channel 14 analog facility has been removed and the new WABW-DT Channel 6 top-mount antenna is installed and operational.



Accordingly, this STA requests authorization to operate the WABW-DT Channel 6 facility using its full authorized post-transition parameters pursuant to its post-transition DTV construction permit (BMPEDT-20080619AKP). GPTC will file its license application of June 12, 2009 when the DTV transition officially comes to an end.

Exhibit 8 demonstrates that the proposed WABW-DT Channel 6 STA F(50,90) 35.0 dBuV/m principal community contour will completely encompass the principal community of Pelham, GA. Referring to Exhibit 9, it can be seen the proposed WABW-DT Channel 6 STA F(50,90) 28.0 dBuV/m protected noise limited contour (dashed green) is exactly the same as the authorized F(50,90) 28.0 dBuV/m protected noise limited contour (red) in all azimuthal directions.

### **Post-transition operation before DTV transition deadline**

Pursuant to the *Third DTV Periodic Report and Order*, a station may request permission to operate its post-transition facility before the transition deadline, provided it demonstrates the following:

- 1) It will not cause impermissible interference to any authorized analog or pre-transition digital stations;
- 2) It will maintain at least its current digital service; and
- 3) It will commence full, authorized post-transition operations on the transition deadline.

The *Third DTV Periodic Report and Order* also states that stations requesting such approval must also indicate whether such early operation would result in loss of their own analog or digital service.

### **Exhibits**

Exhibits 1 and 2 represent WABW's administration data, antenna and antenna structure specifications.



Exhibit 3 depicts the profile view of the proposed antenna on the antenna structure with all the appropriate elevations.

Exhibits 4 (11 deg) and 5 (90 deg) display the elevation pattern and Exhibit 6 displays the elevation pattern tabulation.

Exhibit 7 depicts the location of the WABW-DT transmitter site on a USGS 7.5-Minute (Series) Topographic map.

Exhibit 8 is a principal community contour map demonstrating that the proposed WABW-DT Channel 6 STA facility's F(50,90) 35.0 dBuV/m Principal Community contour would completely encompass the principal community of Pelham, GA.

Exhibit 9 is a contour map comparing the authorized (post-transition DTV CP) WABW-DT Channel 6 facility's F(50,90) 28.0 dBuV/m contour (red) and the proposed WABW-DT Channel 6 STA facility's F(50,90) 28.0 dBuV/m contour (dashed red).

Exhibit 10 is a Longley-Rice interference studies that was computed using a Sun Microsystems SPARC 5 computer work station loaded with the FCC's DTV analysis software. The exhibits demonstrate compliance with the 2.0% de minimis interference standard.

Exhibit 11 is a "Before" Longley-Rice interference study considering only pre-transition DTV stations and analog stations that have not ceased operation.

Exhibit 12 is an "After" Longley-Rice interference study considering pre-transition DTV stations and analog stations that have not ceased operation as well as the proposed WABW-DT Channel 6 STA facility.



Exhibit 13 is a contour map comparing the existing WABW-DT Channel 6 STA facility's F(50,90) 28.0 dBuV/m contour (green) and the proposed WABW-DT Channel 6 STA facility's F(50,90) 28.0 dBuV/m contour (blue).

### **Interference Studies**

Exhibit 10 is a Longley-Rice interference study that was computed using a Sun Microsystems SPARC 5 computer work station loaded with the FCC's DTV analysis software. The interference percentages are exactly the same as the FCC calculations since the studies were performed using the same type computers and the same interference analysis software. Exhibit 10 demonstrates that the proposed WABW-DT Channel 6 STA would not cause more than *de minimis* interference (2.0%) to surrounding low-band VHF pre-transition analog and DTV stations. However, page 6 indicates that the study failed because the WBRC-TV Channel 6 facility is predicted to receive 11.7% interference without WABW-DT Channel 6 in operation (Before Study) and 13.1% interference with WABW-DT Channel 6 in operation (After Study). The interference from the WABW-DT STA facility is predicted to be only 1.4% which is less than the 2.0% *de minimis* standard but the 10% interference threshold is exceeded even without the WABW-DT Channel 6 STA facility in operation. However, this study assumed that all Channel 6 analog stations were still in operation which is not the case. According to the Public Notice (DA-09-221) released by the Commission on February 10, 2009 (*FCC Releases Lists of Stations Whose Analog Operations Terminate Before February 17, 2009 or that Intend to Terminate Analog Operations on February 17, 2009*) the WBRC-TV Channel 6 station will operate as a "nitelite" facility throughout the transition and therefore, must be protected. According to the Public Notice, the WATE-TV Channel 6 Knoxville, TN facility ceased analog Channel 6 operation on February 17, 2009 and therefore should no longer be considered in the interference study. The Tuscaloosa, AL Channel 6 facility considered in the interference study is a post-transition facility and is not on the air. Therefore, the only stations that should be considered in the "Before" analysis are the following: 1) Greenwood, MS Channel 6; 2) Tuscaloosa, AL Channel 5; 3) Montgomery, AL Channel 5 (Class A); and 4) Chattanooga, TN Channel 6 (Class A).



Exhibit 11 is an updated Longley-Rice interference “Before” study which did not consider the stations that ceased analog operation and did not consider the proposed WABW-DT Channel 6 STA facility. Referring to Exhibit 11, it can be seen that the interference to WBRC-TV Channel 6 facility from all applicable surrounding analog and pre-transition DTV stations that are still in operation is 4.23%. Exhibit 12 is an updated Longley-Rice interference “After” study which also did not consider the stations that ceased analog operation but did consider the proposed WABW-DT Channel 6 STA facility. Referring to Exhibit 12, it can be seen that the interference to WBRC-TV Channel 6 facility from all applicable surrounding analog and pre-transition DTV stations that are still in operation as well as the proposed WABW-DT Channel 6 STA facility is 5.25%. Therefore, the licensed WBRC-TV Channel 6 facility is not predicted to receive more than 10% interference from all surrounding stations and is not predicted to receive more than 2.0% de minimis interference from the proposed WABW-DT Channel 6 STA facility. Accordingly, the proposed WABW-DT Channel 6 STA facility will not cause impermissible interference to any authorized analog or pre-transition digital stations and thus meets requirement #1 in the *Third DTV Periodic Report and Order* for stations requesting permission to operate their post-transition facilities before the transition deadline.

Exhibit 13 is a contour comparison map depicting the F(50,90) 28.0 dBuV/m protected noise limited contour of the existing WABW-DT Channel 6 STA facility (green) and the F(50,90) 28.0 dBuV/m protected noise limited contour of the proposed WABW-DT Channel 6 STA facility (blue). Referring to Exhibit 13, it can be seen that proposed WABW-DT Channel 6 STA will more than maintain “at least its digital service” and thus meets requirement #2 in the *Third DTV Periodic Report and Order* for stations requesting permission to operate their post-transition facilities before the transition deadline.

The parameters of the proposed WABW-DT Channel 6 STA facility are exactly the same as the parameters authorized in the WABW-DT Channel 6 post-transition DTV construction permit (BMPEDT-20080619AKP); therefore, requirement #3 in the *Third DTV Periodic Report and Order* with respect to “commencing full, authorized post-transition operations” will be met.



## **Environmental Impact**

The proposed WABW-DT Channel 6 STA facility will have no significant environmental impact as defined in §1.1307 of the FCC Rules. The digital transmitter, 3 inch transmission line and antenna system shall produce an ERP of 10.5 kW (horizontal polarization). Assuming the maximum lobe of radiation were oriented toward the base of the tower, the proposed WABW-DT Channel 6 STA facility's power density six feet above the ground would be  $0.0027 \text{ mW/cm}^2$  which equates to only 0.27% of the Maximum Permissible Exposure (MPE) limits for Occupational/Controlled Exposure and only 1.34% of the MPE limits for General Population/Uncontrolled Exposure authorized by the American National Standards Institute (ANSI). Since operation of the proposed WABW-DT Channel 6 STA facility will not exceed 5.0% of the MPE limit for Occupational/Controlled Exposure or General Population/Uncontrolled Exposure at any point on the ground, the proposed facility is not considered 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 would be insignificant and well within the maximum allowable requirements.

If other antennas are placed on the tower in the future, the licensee 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. It is also understood that additional antennas on the support structure could increase the overall RF exposure levels and it is the responsibility of each licensee to ensure that the total RF exposure resulting from the operation of all antennas on the support structure do not exceed the maximum permissible exposure level at any point on the ground.

## **Certification**

This technical statement was prepared by William T. Godfrey, Telecommunications Consultant with Kessler and Gehman Associates, Inc. having offices in Gainesville, Florida and



*Kessler and Gehman Associates, Inc.*

Telecommunications Consulting Engineers

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 in 1993. As a Professional in the field of Telecommunications 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.

*William T. Godfrey, Jr.*

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WILLIAM T. GODFREY, JR.  
Telecommunications Technical Consultant

16 March, 2009



# WABW-DT CHANNEL 6 STA

PELHAM, GEORGIA

## ENGINEERING SPECIFICATIONS

**A. Transmitter Site:**

Geographic coordinates (NAD27):

North Latitude ..... 31° 08' 05"

West Longitude ..... 84° 06' 16"

Transmitter Site Address: 3 miles east of Pelham, GA off of Highway 93E

**B. Main Studio Site Address: 260 14<sup>th</sup> Street N.W., Atlanta, GA 30318.**

**C. Post-Transition Facility:**

DTV Channel	Number .....	6
	Frequency .....	82-88 MHz
	Offset .....	N/A

**D. Antenna Height:**

Height of Site Above Mean Sea Level (AMSL) ..... 99.1 M

Overall Height of Structure Above Ground ..... 372.8 M  
(including all appurtenances)

Overall Height of Structure Above Mean Sea Level ..... 471.9 M  
(including all appurtenances)

Height of Site Above Average Terrain ..... 15.6 M

Antenna Height Radiation Center (R/C) Above Ground ..... 363.3 M

Antenna Height R/C Above Mean Sea Level ..... 462.4 M

Average of All Non-Odd Radials ..... 83.5 M

Antenna Height R/C Above Average Terrain ..... 378.9 M

**E. System Parameters – Horizontal Polarization:**

Transmitter Power Required ..... 3.5 kW

Maximum Power Input to Antenna ..... 2.4 kW

Total System Loss ..... 1.65 dB

Transmission Line Efficiency ..... 68.4%

Maximum Antenna Gain in Beam Maximum ..... 6.43 dB

Maximum Antenna Gain in Horizontal Plane ..... 6.41 dB

Maximum Effective Radiated Power ..... 10.21 dBk

In Beam Maximum ..... 10.5 kW

Maximum Effective Radiated Power ..... 10.19 dBk

In Horizontal Plane ..... 10.4 kW

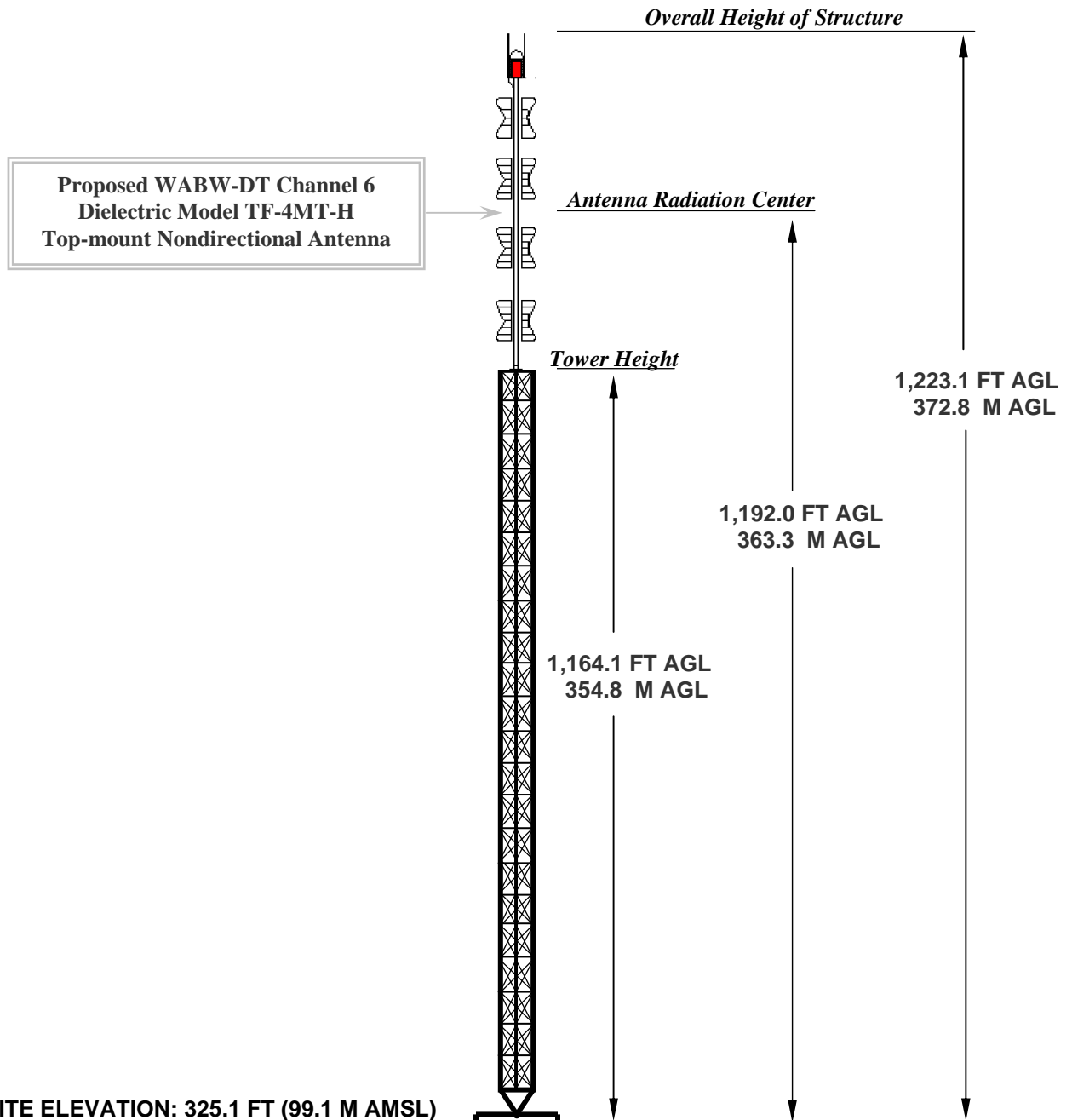
**WABW-DT CHANNEL 6 STA**  
**PELHAM, GEORGIA**

**DATA FOR PROPOSED NONDIRECTIONAL  
TRANSMITTING ANTENNA**

- A. **Antenna:** Dielectric Model TF-4MT-H, Horizontally Polarized, Nondirectional, Top-mount Antenna.
- B. **Electrical Beam Tilt:** 0.5°
- C. **Mechanical Beam Tilt:** None
- D. 

<b><u>Maximum Power Gain</u></b>	<b><u>Horizontal Polarization</u></b>
Maximum:	4.4 (6.43 dB)
Horizontal:	4.4 (6.41 dB)
- E. **Length:** 55.0 feet (16.8 meters) not including appurtenances.
- F. **TPO:** 3.5 kW
- G. **Null Fill:** 5.2%
- H. **Transmission Line:** 3" 50 ohm Flexline
- I. **Transmission Line Efficiency:** 68.4%
- J. **Transmission Line Length:** 1,275 feet (388.6 meters)
- K. **Transmission Line Attenuation:** 0.1294 dB/100-feet
- L. **Transmission Line Loss:** 1.65 dB

## WABW-DT CHANNEL 6 STA TOWER ELEVATION VIEW



OVERALL HEIGHT AGL: 372.8 M  
OVERALL HEIGHT AMSL: 471.9 M  
RADIATION CENTER AGL: 363.3 M  
RADIATION CENTER AMSL: 462.4 M  
RADIATION CENTER HAAT: 378.9 M  
AVG OF ALL NON-ODD RADIALS: 83.5 M  
SITE HAAT: 15.6 M

### COORDINATES (NAD 27):

N. LATITUDE 31° 08' 05"  
W. LONGITUDE 84° 06' 16"

Antenna Structure Registration Number:  
1018785

**NOTE: NOT TO SCALE**

**KESSLER AND GEHMAN**

TELECOMMUNICATIONS CONSULTING ENGINEERS

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**WABW-DT CHANNEL 6 STA**

PELHAM, GEORGIA

20090316

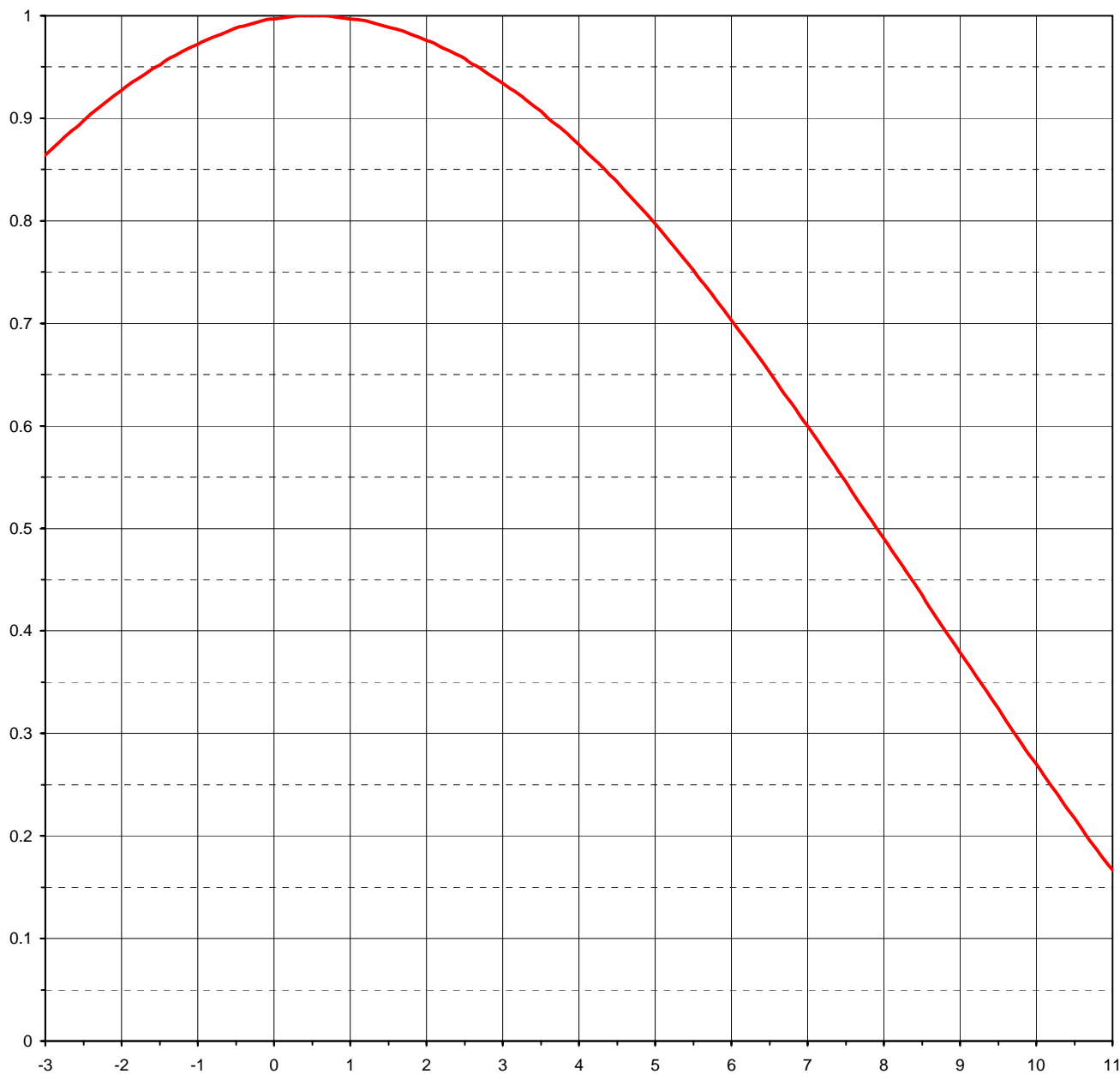
EXHIBIT 3



Proposal Number	<b>C-02120</b>	
Date	<b>9-Nov-07</b>	
Call Letters	<b>WABW-DT</b>	Channel <b>6</b>
Location	<b>Pelham, GA</b>	
Customer		
Antenna Type	<b>TF-4MT-H</b>	

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>4.40 ( 6.43 dB )</b>	Beam Tilt	<b>0.50 deg</b>
RMS Gain at Horizontal	<b>4.40 ( 6.43 dB )</b>	Frequency	<b>85.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>04S044050</b>



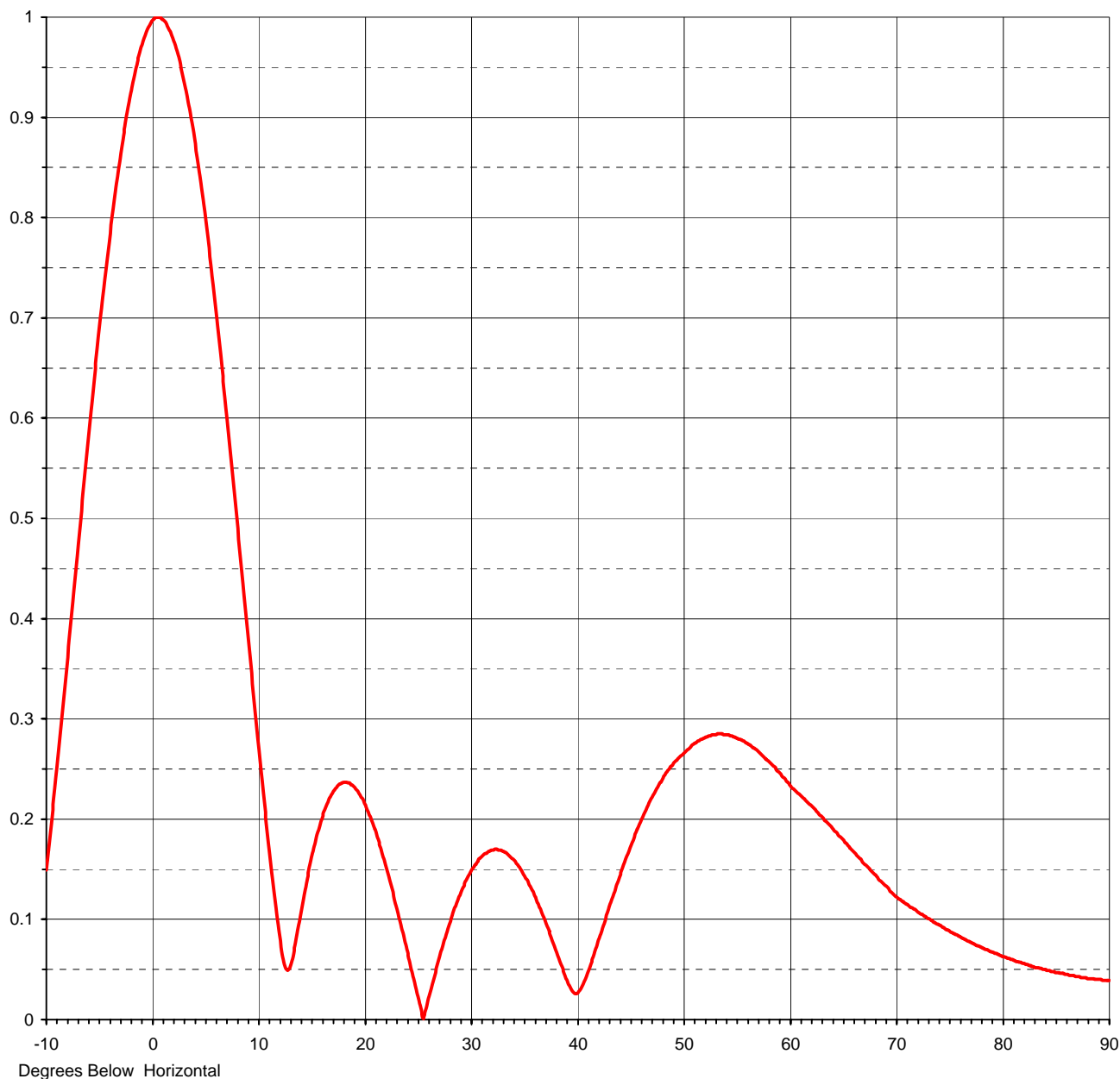
Degrees Below Horizontal



Proposal Number	<b>C-02120</b>	
Date	<b>9-Nov-07</b>	
Call Letters	<b>WABW-DT</b>	Channel <b>6</b>
Location	<b>Pelham, GA</b>	
Customer		
Antenna Type	<b>TF-4MT-H</b>	

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>4.40 ( 6.43 dB )</b>	Beam Tilt	<b>0.50 deg</b>
RMS Gain at Horizontal	<b>4.40 ( 6.43 dB )</b>	Frequency	<b>85.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>04S044050-90</b>





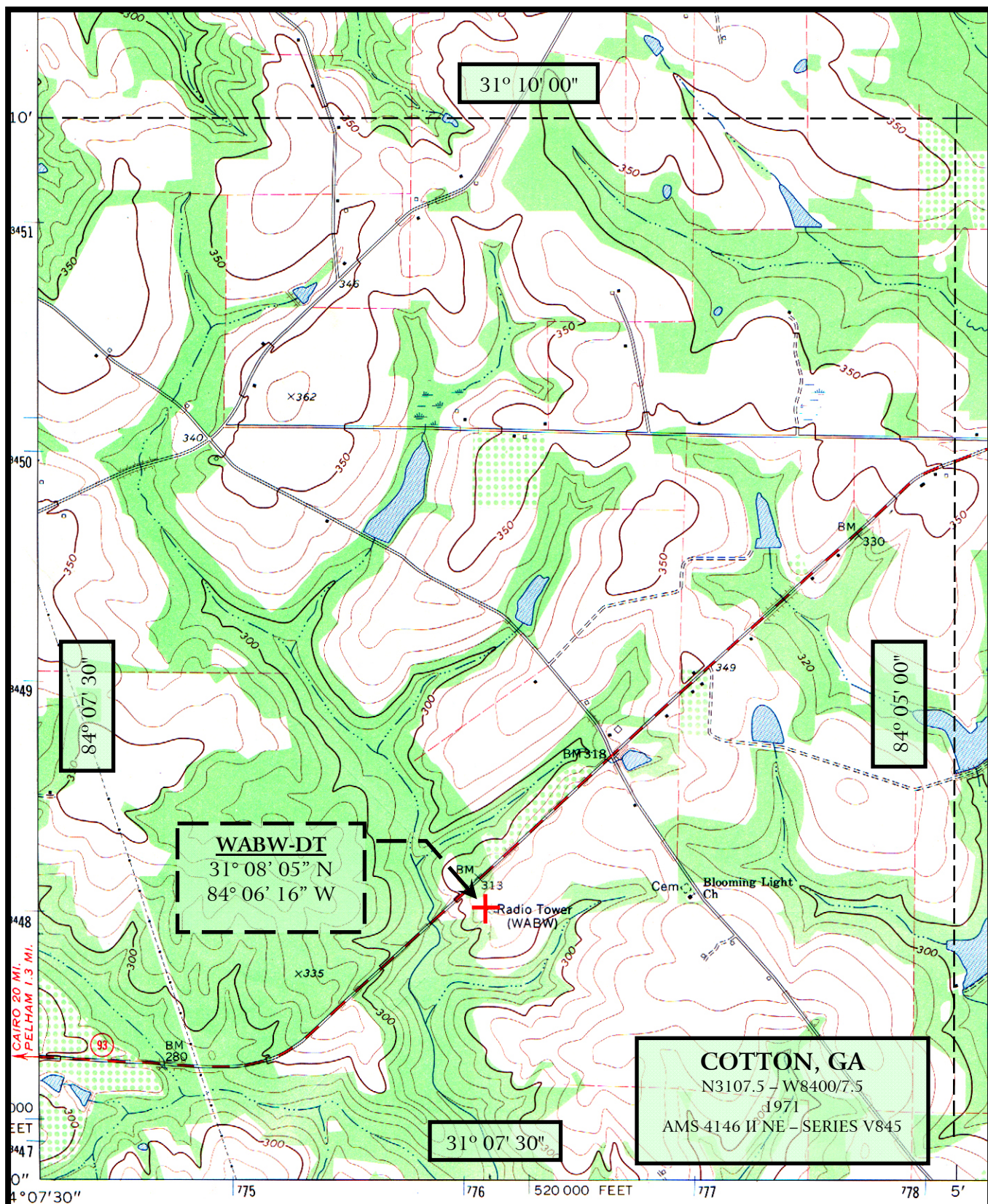
Proposal Number **C-02120**  
Date **9-Nov-07**  
Call Letters **WABW-DT** Channel **6**  
Location **Pelham, GA**  
Customer  
Antenna Type **TF-4MT-H**

## TABULATION OF ELEVATION PATTERN

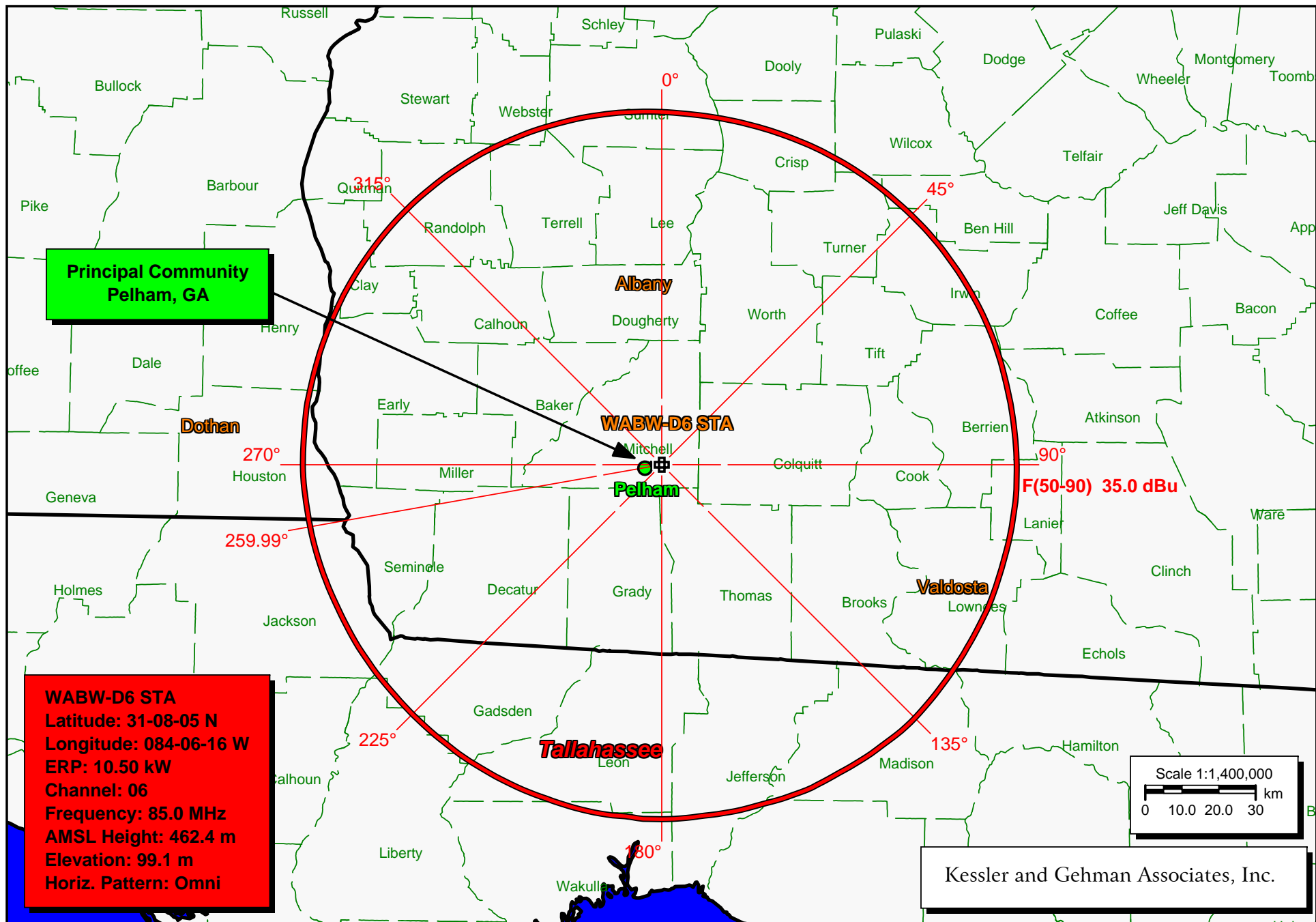
Elevation Pattern Drawing #: **04S044050-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.149	2.4	0.962	10.6	0.217	30.5	0.155	51.0	0.275	71.5	0.111
-9.5	0.199	2.6	0.953	10.8	0.196	31.0	0.162	51.5	0.278	72.0	0.107
-9.0	0.251	2.8	0.944	11.0	0.176	31.5	0.166	52.0	0.281	72.5	0.104
-8.5	0.306	3.0	0.934	11.5	0.129	32.0	0.169	52.5	0.283	73.0	0.101
-8.0	0.361	3.2	0.924	12.0	0.086	32.5	0.170	53.0	0.284	73.5	0.097
-7.5	0.417	3.4	0.912	12.5	0.055	33.0	0.168	53.5	0.285	74.0	0.094
-7.0	0.474	3.6	0.900	13.0	0.052	33.5	0.165	54.0	0.284	74.5	0.091
-6.5	0.530	3.8	0.888	13.5	0.074	34.0	0.160	54.5	0.283	75.0	0.088
-6.0	0.585	4.0	0.874	14.0	0.103	34.5	0.153	55.0	0.281	75.5	0.085
-5.5	0.639	4.2	0.860	14.5	0.132	35.0	0.145	55.5	0.279	76.0	0.082
-5.0	0.691	4.4	0.845	15.0	0.159	35.5	0.135	56.0	0.276	76.5	0.080
-4.5	0.739	4.6	0.830	15.5	0.182	36.0	0.124	56.5	0.272	77.0	0.077
-4.0	0.784	4.8	0.814	16.0	0.200	36.5	0.112	57.0	0.268	77.5	0.074
-3.5	0.826	5.0	0.797	16.5	0.215	37.0	0.099	57.5	0.263	78.0	0.072
-3.0	0.864	5.2	0.779	17.0	0.226	37.5	0.085	58.0	0.258	78.5	0.070
-2.8	0.878	5.4	0.761	17.5	0.233	38.0	0.070	58.5	0.253	79.0	0.067
-2.6	0.891	5.6	0.742	18.0	0.236	38.5	0.055	59.0	0.247	79.5	0.065
-2.4	0.904	5.8	0.723	18.5	0.236	39.0	0.041	59.5	0.241	80.0	0.063
-2.2	0.916	6.0	0.703	19.0	0.233	39.5	0.030	60.0	0.234	80.5	0.061
-2.0	0.927	6.2	0.683	19.5	0.226	40.0	0.026	60.5	0.229	81.0	0.059
-1.8	0.938	6.4	0.663	20.0	0.216	40.5	0.033	61.0	0.224	81.5	0.057
-1.6	0.948	6.6	0.642	20.5	0.204	41.0	0.046	61.5	0.219	82.0	0.056
-1.4	0.957	6.8	0.621	21.0	0.190	41.5	0.061	62.0	0.214	82.5	0.054
-1.2	0.965	7.0	0.600	21.5	0.173	42.0	0.078	62.5	0.208	83.0	0.052
-1.0	0.972	7.2	0.578	22.0	0.155	42.5	0.094	63.0	0.203	83.5	0.051
-0.8	0.979	7.4	0.556	22.5	0.135	43.0	0.110	63.5	0.197	84.0	0.050
-0.6	0.985	7.6	0.534	23.0	0.114	43.5	0.126	64.0	0.191	84.5	0.048
-0.4	0.990	7.8	0.512	23.5	0.092	44.0	0.142	64.5	0.184	85.0	0.047
-0.2	0.994	8.0	0.490	24.0	0.070	44.5	0.157	65.0	0.179	85.5	0.046
0.0	0.997	8.2	0.468	24.5	0.048	45.0	0.171	65.5	0.173	86.0	0.045
0.2	0.999	8.4	0.446	25.0	0.025	45.5	0.185	66.0	0.167	86.5	0.044
0.4	1.000	8.6	0.423	25.5	0.003	46.0	0.197	66.5	0.161	87.0	0.043
0.6	1.000	8.8	0.401	26.0	0.019	46.5	0.209	67.0	0.155	87.5	0.042
0.8	0.999	9.0	0.379	26.5	0.039	47.0	0.220	67.5	0.149	88.0	0.041
1.0	0.997	9.2	0.357	27.0	0.059	47.5	0.230	68.0	0.144	88.5	0.041
1.2	0.995	9.4	0.335	27.5	0.078	48.0	0.239	68.5	0.138	89.0	0.040
1.4	0.991	9.6	0.313	28.0	0.095	48.5	0.247	69.0	0.133	89.5	0.039
1.6	0.987	9.8	0.302	28.5	0.111	49.0	0.254	69.5	0.127	90.0	0.039
1.8	0.982	10.0	0.280	29.0	0.124	49.5	0.260	70.0	0.122		
2.0	0.976	10.2	0.259	29.5	0.137	50.0	0.265	70.5	0.118		
2.2	0.969	10.4	0.238	30.0	0.147	50.5	0.270	71.0	0.115		





<p><b>KESSLER AND GEHMAN</b> TELECOMMUNICATIONS CONSULTING ENGINEERS 507 N.W. 60th Street, Suite C Gainesville, Florida 32607</p>	<p><b>WABW-DT CHANNEL 6 STA</b> <b>PELHAM, GEORGIA</b></p> <p>20090316</p> <p>EXHIBIT 7</p>
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WABW-DT Channel 6 F(50,90) 35.0 dBuV/m Principal Community Contour

EXHIBIT 8





TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-16-2009 Time: 12:04:23

Record Selected for Analysis

WABW-D6 USERRECORD-01 PELHAM GA US  
Channel 06 ERP 10.5 kW HAAT 379. m RCAMSL 00462 m  
Latitude 031-08-05 Longitude 0084-06-16  
Status APP Zone 3 Border  
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.  
Last update Cutoff date 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)	28.0 dBu F(50,90) (km)
0.0	10.500	362.3	110.1
45.0	10.500	364.6	110.2
90.0	10.500	376.7	110.8
135.0	10.500	392.0	111.8
180.0	10.500	372.9	110.6
225.0	10.500	362.2	110.1
270.0	10.500	395.2	112.0
315.0	10.500	404.2	112.7

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

No spacing violations found to other full service stations

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

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# Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
06	WABW-D6	PELHAM GA	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WJUN-LP	DOOTHAN AL	117.2	LIC	BLTTL	-19991223ABR
05	WJUN-LP	DOOTHAN AL	122.8	CP	BPTVA	-20020730AAL
05	WUFT	GAINESVILLE FL	227.9	LIC	BMLET	-20040301ABO
06	WBRC	BIRMINGHAM AL	364.0	LIC	BLCT	-19880229KI
06	NEW	TUSCALOOSA AL	388.2	APP	BPRM	-20060724AGX
06	WUOA	TUSCALOOSA AL	364.1	CP MOD	BMPCDT	-20081028AAZ
06	WKMG-TV	ORLANDO FL	404.3	LIC	BMLCT	-20040929ABF
06	WCES-TV	WRENS GA	291.6	CP MOD	BMPEDT	-20080619AKQ

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## Analysis of Interference to Affected Station 1

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
05	WJUN-LP	DOOTHAN AL	BLTTL	-19991223ABR

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WKRG-TV	MOBILE AL	244.6	LIC	BLCT	-19860718KE
05	WBXM-CA	MONTGOMERY AL	159.9	LIC	BLTVA	-20050425ABN
05	WBXM-CA	MONTGOMERY AL	159.9	STA	BSTA	-20040326ALT
05	WCFT-DR	TUSCALOOSA AL	320.8	LIC	BPRM	-20020703ABJ
05	WCFT-TV	TUSCALOOSA AL	320.8	LIC	BLCDT	-20040423AAA
05	WUFT	GAINESVILLE FL	326.8	LIC	BMLET	-20040301ABO
05	WAGA	ATLANTA GA	303.4	LIC	BLCT	-20001128AAS
06	WABW-D6	PELHAM GA	117.2	APP	USERRECORD-01	

Proposed station is beyond the site to  
nearest cell evaluation distance

#####

# Analysis of Interference to Affected Station 2

## Analysis of current record

Channel	Call	City/State	Application	Ref. No.
05	WJJN-LP	DOTHAN AL	BPTVA	-20020730AAL

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WKRQ-TV	MOBILE AL	240.8	LIC	BLCT	-19860718KE
05	WBXM-CA	MONTGOMERY AL	152.6	STA	BSTA	-20040326ALT
05	WCFT-DR	TUSCALOOSA AL	313.5	LIC	BPRM	-20020703ABJ
05	WCFT-TV	TUSCALOOSA AL	313.5	LIC	BLCDDT	-20040423AAA
05	WUFT	GAINESVILLE FL	333.9	LIC	BMLET	-20040301ABO
05	WAGA	ATLANTA GA	300.1	LIC	BLCT	-20001128AAS
06	WABW-D6	PELHAM GA	122.8	APP	USERRECORD-01	

Proposed station is beyond the site to  
nearest cell evaluation distance

#####

# Analysis of Interference to Affected Station 3

## NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
05	WUFT	GAINESVILLE FL	DTVPLN	-NPLN0345

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WPTV	WEST PALM BEACH FL	407.5	PLN	DTVPLN	-NPLN0346
05	DNCE	BRADENTON FL	246.7	PLN	DTVPLN	-NPLN0392
06	WCPXTV	ORLANDO FL	176.3	PLN	DTVPLN	-NPLN0403
06	WCTV	THOMASVILLE GA	182.9	PLN	DTVPLN	-NPLN0405

Results for:	5N FL GAINESVILLE	DTVPLN	NPLN0345	PLN
		POPULATION	AREA (sq km)	
	within Noise Limited Contour	1208257	31865.4	
	not affected by terrain losses	1158853	31760.4	
	lost to NTSC IX	115349	4674.4	
	lost to additional IX by ATV	0	0.0	
	lost to all IX	115349	4674.4	

## Analysis of current record

Channel	Call	City/State	Application	Ref. No.
05	WUFT	GAINESVILLE FL	BMLET	-20040301ABO

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WPTV	WEST PALM BEACH FL	407.5	LIC	BLCT	-20030418AAI
05	WPTV	WEST PALM BEACH FL	407.5	APP	BSTA	-20080721ABT

06	WKMG-TV	ORLANDO FL	176.3	LIC	BMLCT	-20040929ABF
06	WABW-D6	PELHAM GA	227.9	APP	USERRECORD-01	

Proposal causes no interference

#####

#### Analysis of Interference to Affected Station 4

#### NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
06	WBRCTV	BIRMINGHAM AL	DTVPLN	-NPLN0393

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
06	WCTV	THOMASVILLE GA	413.0	PLN	DTVPLN	-NPLN0405
06	WABGTV	GREENWOOD MS	347.4	PLN	DTVPLN	-NPLN0421
06	WATETV	KNOXVILLE TN	382.3	PLN	DTVPLN	-NPLN0440

Results for:	6N AL BIRMINGHAM	DTVPLN	NPLN0393	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		1714465	40360.8	
not affected by terrain losses		1640688	36955.1	
lost to NTSC IX		93452	2704.4	
lost to additional IX by ATV		0	0.0	
lost to all IX		93452	2704.4	

#### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
06	WBRC	BIRMINGHAM AL	BLCT	-19880229KI

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WCFT-DR	TUSCALOOSA AL	58.5	LIC	BPRM	-20020703ABJ
05	WCFT-TV	TUSCALOOSA AL	58.5	LIC	BLCDT	-20040423AAA
06	NEW	TUSCALOOSA AL	84.8	APP	BPRM	-20060724AGX
06	WUOA	TUSCALOOSA AL	0.8	CP MOD	BMPCDT	-20081028AAZ
06	WCES-TV	WRENS GA	419.7	CP MOD	BMPEDT	-20080619AKQ
06	WABG-TV	GREENWOOD MS	347.2	LIC	BLCT	-20040510ABH
06	WATE-TV	KNOXVILLE TN	382.3	LIC	BMLCT	-20041203AEH
06	WABW-D6	PELHAM GA	364.0	APP	USERRECORD-01	

Total scenarios = 6

Result key: 1  
Scenario 1 Affected station 4  
Before Analysis

Results for:	6N AL BIRMINGHAM	BLCT	19880229KI	LIC
		POPULATION	AREA (sq km)	
within Noise Limited Contour		1714465	40360.8	
not affected by terrain losses		1640688	36955.1	
lost to NTSC IX		103531	2744.7	

lost to additional IX by ATV	1326474	25673.9
lost to all IX	1430005	28418.6

Potential Interfering Stations Included in above Scenario 1

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BPRM	20020703ABJ	LIC
6A AL TUSCALOOSA	BMPCDT	20081028AAZ	CP

After Analysis

Results for: 6N AL BIRMINGHAM	BLCT	19880229KI	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1714465	40360.8	
not affected by terrain losses	1640688	36955.1	
lost to NTSC IX	103531	2744.7	
lost to additional IX by ATV	1327179	25746.4	
lost to all IX	1430710	28491.2	

Potential Interfering Stations Included in above Scenario 1

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BPRM	20020703ABJ	LIC
6A AL TUSCALOOSA	BMPCDT	20081028AAZ	CP
6A GA PELHAM	USERRECORD01	APP	
*Percent new DTV interference without proposal:	77.4	BLCT	19880229KI
*Percent new DTV interference with proposal:	77.4	BLCT	19880229KI

Result key: 2  
Scenario 2 Affected station 4  
Before Analysis

Results for: 6N AL BIRMINGHAM	BLCT	19880229KI	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1714465	40360.8	
not affected by terrain losses	1640688	36955.1	
lost to NTSC IX	103531	2744.7	
lost to additional IX by ATV	1326419	25665.8	
lost to all IX	1429950	28410.5	

Potential Interfering Stations Included in above Scenario 2

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A AL TUSCALOOSA	BMPCDT	20081028AAZ	CP

After Analysis

Results for: 6N AL BIRMINGHAM	BLCT	19880229KI	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1714465	40360.8	
not affected by terrain losses	1640688	36955.1	
lost to NTSC IX	103531	2744.7	

lost to additional IX by ATV	1327124	25738.4
lost to all IX	1430655	28483.1

Potential Interfering Stations Included in above Scenario 2

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A AL TUSCALOOSA	BMPCDT	20081028AAZ	CP
6A GA PELHAM	USERRECORD01		APP
*Percent new DTV interference without proposal:			77.4 BLCT 19880229KI
*Percent new DTV interference with proposal:			77.4 BLCT 19880229KI

Result key: 3  
 Scenario 3 Affected station 4  
 Before Analysis

Results for: 6N AL BIRMINGHAM	BLCT	19880229KI	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1714465	40360.8	
not affected by terrain losses	1640688	36955.1	
lost to NTSC IX	103531	2744.7	
lost to additional IX by ATV	200829	7480.5	
lost to all IX	304360	10225.2	

Potential Interfering Stations Included in above Scenario 3

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BPRM	20020703ABJ	LIC
6A AL TUSCALOOSA	BPRM	20060724AGX	APP

After Analysis

Results for: 6N AL BIRMINGHAM	BLCT	19880229KI	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1714465	40360.8	
not affected by terrain losses	1640688	36955.1	
lost to NTSC IX	103531	2744.7	
lost to additional IX by ATV	224868	8157.6	
lost to all IX	328399	10902.3	

Potential Interfering Stations Included in above Scenario 3

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BPRM	20020703ABJ	LIC
6A AL TUSCALOOSA	BPRM	20060724AGX	APP
6A GA PELHAM	USERRECORD01		APP

The following station failed the de minimis interference criteria.

6D GA PELHAM USERRECORD01  
 ERP 10.50 kW HAAT 379.0 m RCMSL 462.0 m  
 Antenna usr USRPAT01

Due to interference to the following station and scenario: 3

6N AL BIRMINGHAM                      BLCT              19880229KI  
 ERP 100.00 kW HAAT 420.0 m RCAMSL 615.0 m  
 Antenna CDB 999999999999999

Percent new DTV interference without proposal:              11.7      BLCT              19880229KI  
 Percent new DTV interference with proposal:              13.1      BLCT              19880229KI

Result key:                      4  
 Scenario                      4      Affected station                      4  
 Before Analysis

Results for:    6N AL BIRMINGHAM                      BLCT              19880229KI      LIC  
    POPULATION              AREA (sq km)  
     within Noise Limited Contour              1714465              40360.8  
     not affected by terrain losses              1640688              36955.1  
     lost to NTSC IX                      103531              2744.7  
     lost to additional IX by ATV              1326474              25673.9  
     lost to all IX                      1430005              28418.6

Potential Interfering Stations Included in above Scenario              4

6N MS GREENWOOD                      BLCT              20040510ABH      LIC  
 6N TN KNOXVILLE                      BMLCT              20041203AEH      LIC  
 5A AL TUSCALOOSA                      BPRM              20020703ABJ      LIC  
 6A AL TUSCALOOSA                      BMPCDT              20081028AAZ      CP

After Analysis

Results for:    6N AL BIRMINGHAM                      BLCT              19880229KI      LIC  
    POPULATION              AREA (sq km)  
     within Noise Limited Contour              1714465              40360.8  
     not affected by terrain losses              1640688              36955.1  
     lost to NTSC IX                      103531              2744.7  
     lost to additional IX by ATV              1327179              25746.4  
     lost to all IX                      1430710              28491.2

Potential Interfering Stations Included in above Scenario              4

6N MS GREENWOOD                      BLCT              20040510ABH      LIC  
 6N TN KNOXVILLE                      BMLCT              20041203AEH      LIC  
 5A AL TUSCALOOSA                      BPRM              20020703ABJ      LIC  
 6A AL TUSCALOOSA                      BMPCDT              20081028AAZ      CP  
 6A GA PELHAM                      USERRECORD01              APP  
 \*Percent new DTV interference without proposal:              77.4      BLCT              19880229KI  
 \*Percent new DTV interference with proposal:              77.4      BLCT              19880229KI

Result key:                      5  
 Scenario                      5      Affected station                      4  
 Before Analysis

Results for:    6N AL BIRMINGHAM                      BLCT              19880229KI      LIC  
    POPULATION              AREA (sq km)  
     within Noise Limited Contour              1714465              40360.8  
     not affected by terrain losses              1640688              36955.1  
     lost to NTSC IX                      103531              2744.7



lost to additional IX by ATV	200313	7456.3
lost to all IX	303844	10201.0

Potential Interfering Stations Included in above Scenario 5

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A AL TUSCALOOSA	BPRM	20060724AGX	APP

#### After Analysis

Results for: 6N AL BIRMINGHAM	BLCT	19880229KI	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1714465	40360.8	
not affected by terrain losses	1640688	36955.1	
lost to NTSC IX	103531	2744.7	
lost to additional IX by ATV	224352	8133.4	
lost to all IX	327883	10878.1	

Potential Interfering Stations Included in above Scenario 5

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A AL TUSCALOOSA	BPRM	20060724AGX	APP
6A GA PELHAM	USERRECORD01		APP

The following station failed the de minimis interference criteria.

6D GA PELHAM	USERRECORD01
ERP 10.50 kW HAAT 379.0 m RCAMSL 462.0 m	
Antenna usr USRPAT01	

Due to interference to the following station and scenario: 5

6N AL BIRMINGHAM	BLCT	19880229KI
ERP 100.00 kW HAAT 420.0 m RCAMSL 615.0 m		
Antenna CDB 999999999999999		

Percent new DTV interference without proposal:	11.7	BLCT	19880229KI
Percent new DTV interference with proposal:	13.1	BLCT	19880229KI

Result key: 6  
Scenario 6 Affected station 4  
Before Analysis

Results for: 6N AL BIRMINGHAM	BLCT	19880229KI	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1714465	40360.8	
not affected by terrain losses	1640688	36955.1	
lost to NTSC IX	103531	2744.7	
lost to additional IX by ATV	1326419	25665.8	
lost to all IX	1429950	28410.5	

Potential Interfering Stations Included in above Scenario 6

6N MS GREENWOOD	BLCT	20040510ABH	LIC
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6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A AL TUSCALOOSA	BMPCDDT	20081028AAZ	CP

# After Analysis

Results for: 6N AL BIRMINGHAM BLCT 19880229KI LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	1714465	40360.8
not affected by terrain losses	1640688	36955.1
lost to NTSC IX	103531	2744.7
lost to additional IX by ATV	1327124	25738.4
lost to all IX	1430655	28483.1

## Potential Interfering Stations Included in above Scenario 6

6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A AL TUSCALOOSA	BMPCDDT	20081028AAZ	CP
6A GA PELHAM	USERRECORD01		APP

\*Percent new DTV interference without proposal: 77.4 BLCT 19880229KI

\*Percent new DTV interference with proposal: 77.4 BLCT 19880229KI

## Proposed station is MX

6A GA PELHAM	USERRECORD01	APP
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Proposal MX with group in scenario 3 of station 4

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## Analysis of Interference to Affected Station 5

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
06	NEW	TUSCALOOSA AL	BPRM	-20060724AGX

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WCFT-DR	TUSCALOOSA AL	48.6	LIC	BPRM	-20020703ABJ
05	WCFT-TV	TUSCALOOSA AL	48.6	LIC	BLCDDT	-20040423AAA
06	WBRC	BIRMINGHAM AL	84.8	LIC	BLCT	-19880229KI
06	WDSU	NEW ORLEANS LA	413.7	CP	BPCT	-20080125ADS
06	WABG-TV	GREENWOOD MS	280.4	LIC	BLCT	-20040510ABH
06	WABW-D6	PELHAM GA	388.2	APP	USERRECORD-01	

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.
06	WUOA	TUSCALOOSA AL	BMPCDT	-20081028AAZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WCFT-DR	TUSCALOOSA AL	57.9	LIC	BPRM	-20020703ABJ
05	WCFT-TV	TUSCALOOSA AL	57.9	LIC	BLCDT	-20040423AAA
06	WBRC	BIRMINGHAM AL	0.8	LIC	BLCT	-19880229KI
06	WCES-TV	WRENS GA	420.3	CP MOD	BMPEDT	-20080619AKQ
06	WABG-TV	GREENWOOD MS	346.6	LIC	BLCT	-20040510ABH
06	WATE-TV	KNOXVILLE TN	383.1	LIC	BMLCT	-20041203AEH
06	WABW-D6	PELHAM GA	364.1	APP	USERRECORD-01	

Total scenarios = 4

Result key: 7  
 Scenario 1 Affected station 6  
 Before Analysis

Results for: 6A AL TUSCALOOSA BMPCDT 20081028AAZ CP  
 HAAT 395.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1892631	46743.7
not affected by terrain losses	1856666	45272.5
lost to NTSC IX	1625552	34833.1
lost to additional IX by ATV	1301	125.0
lost to ATV IX only	16460	1366.4
lost to all IX	1626853	34958.0

Potential Interfering Stations Included in above Scenario 1

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BPRM	20020703ABJ	LIC
6A GA WRENS	BMPEDT	20080619AKQ	CP

After Analysis

Results for: 6A AL TUSCALOOSA BMPCDT 20081028AAZ CP  
 HAAT 395.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1892631	46743.7
not affected by terrain losses	1856666	45272.5
lost to NTSC IX	1625552	34833.1
lost to additional IX by ATV	2795	233.8
lost to ATV IX only	38001	2096.0
lost to all IX	1628347	35066.9

Potential Interfering Stations Included in above Scenario 1

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N MS GREENWOOD	BLCT	20040510ABH	LIC

6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BPRM	20020703ABJ	LIC
6A GA WRENS	BMPEDT	20080619AKQ	CP
6A GA PELHAM	USERRECORD01		APP
*Percent Service lost without proposal:		0.0	to BMPCDT 20081028AAZ
*Percent Service lost with proposal:		0.7	to BMPCDT 20081028AAZ

Result key: 8  
Scenario 2 Affected station 6  
Before Analysis

Results for: 6A AL TUSCALOOSA BMPCDT 20081028AAZ CP  
HAAT 395.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1892631	46743.7
not affected by terrain losses	1856666	45272.5
lost to NTSC IX	1625552	34833.1
lost to additional IX by ATV	976	100.8
lost to ATV IX only	9201	822.3
lost to all IX	1626528	34933.9

Potential Interfering Stations Included in above Scenario 2

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A GA WRENS	BMPEDT	20080619AKQ	CP

After Analysis

Results for: 6A AL TUSCALOOSA BMPCDT 20081028AAZ CP  
HAAT 395.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1892631	46743.7
not affected by terrain losses	1856666	45272.5
lost to NTSC IX	1625552	34833.1
lost to additional IX by ATV	2470	209.6
lost to ATV IX only	30742	1551.8
lost to all IX	1628022	35042.7

Potential Interfering Stations Included in above Scenario 2

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A GA WRENS	BMPEDT	20080619AKQ	CP
6A GA PELHAM	USERRECORD01		APP
*Percent Service lost without proposal:		0.0	to BMPCDT 20081028AAZ
*Percent Service lost with proposal:		0.6	to BMPCDT 20081028AAZ

Result key: 9  
Scenario 3 Affected station 6  
Before Analysis

Results for: 6A AL TUSCALOOSA BMPCDT 20081028AAZ CP  
 HAAT 395.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1892631	46743.7
not affected by terrain losses	1856666	45272.5
lost to NTSC IX	1625552	34833.1
lost to additional IX by ATV	1301	125.0
lost to ATV IX only	16460	1366.4
lost to all IX	1626853	34958.0

Potential Interfering Stations Included in above Scenario 3

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BPRM	20020703ABJ	LIC
6A GA WRENS	BMPEDT	20080619AKQ	CP

After Analysis

Results for: 6A AL TUSCALOOSA BMPCDT 20081028AAZ CP  
 HAAT 395.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1892631	46743.7
not affected by terrain losses	1856666	45272.5
lost to NTSC IX	1625552	34833.1
lost to additional IX by ATV	2795	233.8
lost to ATV IX only	38001	2096.0
lost to all IX	1628347	35066.9

Potential Interfering Stations Included in above Scenario 3

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BPRM	20020703ABJ	LIC
6A GA WRENS	BMPEDT	20080619AKQ	CP
6A GA PELHAM	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BMPCDT	20081028AAZ
*Percent Service lost with proposal:	0.7	to BMPCDT	20081028AAZ

Result key: 10  
 Scenario 4 Affected station 6  
 Before Analysis

Results for: 6A AL TUSCALOOSA BMPCDT 20081028AAZ CP  
 HAAT 395.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1892631	46743.7
not affected by terrain losses	1856666	45272.5
lost to NTSC IX	1625552	34833.1
lost to additional IX by ATV	976	100.8
lost to ATV IX only	9201	822.3
lost to all IX	1626528	34933.9

Potential Interfering Stations Included in above Scenario 4

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A GA WRENS	BMPEDT	20080619AKQ	CP

#### After Analysis

Results for: 6A AL TUSCALOOSA BMPCDDT 20081028AAZ CP  
 HAAT 395.0 m, ATV ERP 26.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1892631	46743.7
not affected by terrain losses	1856666	45272.5
lost to NTSC IX	1625552	34833.1
lost to additional IX by ATV	2470	209.6
lost to ATV IX only	30742	1551.8
lost to all IX	1628022	35042.7

Potential Interfering Stations Included in above Scenario 4

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N MS GREENWOOD	BLCT	20040510ABH	LIC
6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
5A AL TUSCALOOSA	BLCDDT	20040423AAA	LIC
6A GA WRENS	BMPEDT	20080619AKQ	CP
6A GA PELHAM	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BMPCDDT	20081028AAZ
*Percent Service lost with proposal:	0.6	to BMPCDDT	20081028AAZ

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#### Analysis of Interference to Affected Station 7

#### NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
06	WCPXTV	ORLANDO FL	DTVPLN	-NPLN0403

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WUFT	GAINESVILLE FL	176.3	PLN	DTVPLN	-NPLN0345
05	DNCE	BRADENTON FL	190.2	PLN	DTVPLN	-NPLN0392
06	WTVJ	MIAMI FL	345.9	PLN	DTVPLN	-NPLN0402
06	WCTV	THOMASVILLE GA	358.4	PLN	DTVPLN	-NPLN0405

Results for: 6N FL ORLANDO DTVPLN NPLN0403 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	2587442	41885.5
not affected by terrain losses	2577843	41797.0
lost to NTSC IX	173997	5446.5
lost to additional IX by ATV	0	0.0
lost to all IX	173997	5446.5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
06	WKMG-TV	ORLANDO FL	BMLCT	-20040929ABF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WUFT	GAINESVILLE FL	176.3	LIC	BMLET	-20040301ABO
06	WTVJ	MIAMI FL	345.9	LIC	BLCT	-19870123KG
06	WABW-D6	PELHAM GA	404.3	APP	USERRECORD-01	

Total scenarios = 2

Result key: 11  
 Scenario 1 Affected station 7  
 Before Analysis

Results for: 6N FL ORLANDO BMLCT 20040929ABF LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	2587332	41873.6
not affected by terrain losses	2577850	41793.1
lost to NTSC IX	89237	3550.5
lost to additional IX by ATV	0	0.0
lost to all IX	89237	3550.5

Potential Interfering Stations Included in above Scenario 1

5N FL GAINESVILLE	BMLET	20040301ABO	LIC
6N FL MIAMI	BLCT	19870123KG	LIC

After Analysis

Results for: 6N FL ORLANDO BMLCT 20040929ABF LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	2587332	41873.6
not affected by terrain losses	2577850	41793.1
lost to NTSC IX	89237	3550.5
lost to additional IX by ATV	0	0.0
lost to all IX	89237	3550.5

Potential Interfering Stations Included in above Scenario 1

5N FL GAINESVILLE	BMLET	20040301ABO	LIC
6N FL MIAMI	BLCT	19870123KG	LIC
6A GA PELHAM	USERRECORD01		APP
*Percent new DTV interference without proposal:			0.0 BMLCT 20040929ABF
*Percent new DTV interference with proposal:			0.0 BMLCT 20040929ABF

Result key: 12  
 Scenario 2 Affected station 7  
 Before Analysis

Results for: 6N FL ORLANDO BMLCT 20040929ABF LIC

	POPULATION	AREA (sq km)
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within Noise Limited Contour	2587332	41873.6
not affected by terrain losses	2577850	41793.1
lost to NTSC IX	89237	3550.5
lost to additional IX by ATV	0	0.0
lost to all IX	89237	3550.5

Potential Interfering Stations Included in above Scenario 2

5N FL GAINESVILLE	BMLET	20040301ABO	LIC
6N FL MIAMI	BLCT	19870123KG	LIC

After Analysis

Results for: 6N FL ORLANDO	BMLCT	20040929ABF	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	2587332	41873.6	
not affected by terrain losses	2577850	41793.1	
lost to NTSC IX	89237	3550.5	
lost to additional IX by ATV	0	0.0	
lost to all IX	89237	3550.5	

Potential Interfering Stations Included in above Scenario 2

5N FL GAINESVILLE	BMLET	20040301ABO	LIC
6N FL MIAMI	BLCT	19870123KG	LIC
6A GA PELHAM	USERRECORD01	APP	
*Percent new DTV interference without proposal:	0.0	BMLCT	20040929ABF
*Percent new DTV interference with proposal:	0.0	BMLCT	20040929ABF

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
06	WCES-TV	WRENS GA	BMPEDT	-20080619AKQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
05	WAGA	ATLANTA GA	199.0	LIC	BLCT	-20001128AAS
06	WBRC	BIRMINGHAM AL	419.7	LIC	BLCT	-19880229KI
06	WUOA	TUSCALOOSA AL	420.3	CP MOD	BMPEDT	-20081028AAZ
06	WATE-TV	KNOXVILLE TN	340.6	LIC	BMLCT	-20041203AEH
06	WABW-D6	PELHAM GA	291.6	APP	USERRECORD-01	

Total scenarios = 2

Result key: 13  
 Scenario 1 Affected station 8  
 Before Analysis

Results for: 6A GA WRENS	BMPEDT	20080619AKQ	CP
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HAAT 429.0 m, ATV ERP 7.9 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	900101	39139.9
not affected by terrain losses	899017	39008.2
lost to NTSC IX	508	91.8
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	508	91.8

Potential Interfering Stations Included in above Scenario 1

6N TN KNOXVILLE BMLCT 20041203AEH LIC

After Analysis

Results for: 6A GA WRENS	BMPEDT	20080619AKQ	CP
HAAT 429.0 m, ATV ERP 7.9 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	900101	39139.9	
not affected by terrain losses	899017	39008.2	
lost to NTSC IX	508	91.8	
lost to additional IX by ATV	8668	614.4	
lost to ATV IX only	8716	634.4	
lost to all IX	9176	706.2	

Potential Interfering Stations Included in above Scenario 1

6N TN KNOXVILLE	BMLCT	20041203AEH	LIC	
6A GA PELHAM	USERRECORD01		APP	
*Percent Service lost without proposal:		0.0	to BMPEDT	20080619AKQ
*Percent Service lost with proposal:		1.0	to BMPEDT	20080619AKQ

Result key: 14  
Scenario 2 Affected station 8  
Before Analysis

Results for: 6A GA WRENS	BMPEDT	20080619AKQ	CP
HAAT 429.0 m, ATV ERP 7.9 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	900101	39139.9	
not affected by terrain losses	899017	39008.2	
lost to NTSC IX	508	91.8	
lost to additional IX by ATV	0	0.0	
lost to ATV IX only	0	0.0	
lost to all IX	508	91.8	

Potential Interfering Stations Included in above Scenario 2

6N TN KNOXVILLE BMLCT 20041203AEH LIC

After Analysis

Results for: 6A GA WRENS	BMPEDT	20080619AKQ	CP
HAAT 429.0 m, ATV ERP 7.9 kW			
	POPULATION	AREA (sq km)	
within Noise Limited Contour	900101	39139.9	

not affected by terrain losses	899017	39008.2
lost to NTSC IX	508	91.8
lost to additional IX by ATV	8668	614.4
lost to ATV IX only	8716	634.4
lost to all IX	9176	706.2

Potential Interfering Stations Included in above Scenario 2

6N TN KNOXVILLE	BMLCT	20041203AEH	LIC
6A GA PELHAM	USERRECORD01		APP
*Percent Service lost without proposal:		0.0	to BMPEDT 20080619AKQ
*Percent Service lost with proposal:		1.0	to BMPEDT 20080619AKQ

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
06	WABW-D6	PELHAM GA	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
05	WUFT	GAINESVILLE FL	227.9	LIC	BMLET -20040301ABO
06	WBRC	BIRMINGHAM AL	364.0	LIC	BLCT -19880229KI
06	NEW	TUSCALOOSA AL	388.2	APP	BPRM -20060724AGX
06	WUOA	TUSCALOOSA AL	364.1	CP MOD	BMPCDT -20081028AAZ
06	WKMG-TV	ORLANDO FL	404.3	LIC	BMLCT -20040929ABF
06	WCES-TV	WRENS GA	291.6	CP MOD	BMPEDT -20080619AKQ

Total scenarios = 1

Result key: 15  
 Scenario 1 Affected station 9  
 Before Analysis

Results for: 6A GA PELHAM USERRECORD01 APP

HAAT 379.0 m, ATV ERP 10.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	884620	38684.4
not affected by terrain losses	884423	38619.9
lost to NTSC IX	654	149.1
lost to additional IX by ATV	11981	560.3
lost to ATV IX only	12591	705.4
lost to all IX	12635	709.4

Potential Interfering Stations Included in above Scenario 1

6N AL BIRMINGHAM	BLCT	19880229KI	LIC
6N FL ORLANDO	BMLCT	20040929ABF	LIC
6A AL TUSCALOOSA	BMPCDT	20081028AAZ	CP
6A GA WRENS	BMPEDT	20080619AKQ	CP

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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

# TV INTERFERENCE and SPACING ANALYSIS PROGRAM

WBRC (06-) Birmingham, AL - BLCT19880229KI  
 Broadcast Type: NTSC Service: V  
 Lat: 33-29-19 N Lng: 086-47-58 W ERP: 100.0 kW AMSL: 615.0 m  
 TV Incoming Interference Study  
 Interference Considered Within: Noise Limited FCC Contour  
 Signal Resolution: 2.0 km  
 LR Profile Spacing Increment: 1.0 km  
 Consider NTSC Taboo: Yes  
 # of radials computed for protected contour: 360  
 Protected contour calculated using 8 radial HAAT.  
 Threshold for reception: 47.0

Study Date: 3/16/2009  
 TV Database Date: 3/14/2009

Primary Terrain: 3 Second US Terrain

Population Database: 1990 US Census

Percentages calculated using a baseline population of 1,644,182.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WABG-TV (06+)	16733	41460	2.522	2107.77
WBXM-CA (05Z)	1922	6998	0.426	217.91
WCFT-TV-D (05)	10445	24838	1.511	1486.88
WOOT-LP (06+)	6541	16220	0.987	327.14

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
WABG-TV (06+)	41460	2.522	21441	1.304
WBXM-CA (05Z)	6998	0.426	6998	0.426
WCFT-TV-D (05)	24838	1.511	4819	0.293
WOOT-LP (06+)	16220	0.987	16220	0.987

Call Letters	City	State	Dist	Bear
WABG-TV (06+)	Greenwood	MS	348.1	268.9
WBXM-CA (05Z)	Montgomery	AL	131.5	159.5
WCFT-TV-D (05)	Tuscaloosa	AL	58.7	269.2
WOOT-LP (06+)	Chattanooga	TN	236.3	35.8

Totals for WBRC (06-)

Calculation Area Population:	1,715,846	( 40376.8 sq. km )
Not Affected by Terrain Loss:	1,644,182	( 36862.2 sq. km )
Total NTSC Interference:	64,678	( 2652.8 sq. km )
DTV Only Interference:	4,819	( 684.1 sq. km )
Total DTV Interference:	24,838	( 1486.9 sq. km )
Interfered Population:	69,497	( 3336.9 sq. km )

Interference Free: 1,574,685 ( 33525.3 sq. km )

Percent Interference: 4.23

Terrain Blocked Population: 71,664 ( 3514.6 sq. km)

Contour Area Population: 1,715,720

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Interference Free Breakdown:

White:	1,196,688	( 76.0% )
Black:	360,491	( 22.9% )
Hispanic:	7,717	( 0.5% )
Indian:	2,924	( 0.2% )
Asian:	6,644	( 0.4% )
Other:	221	( 0.0% )
Total:	1,574,685	

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

WBRC (06-) Birmingham, AL - BLCT19880229KI  
 Broadcast Type: NTSC Service: V  
 Lat: 33-29-19 N Lng: 086-47-58 W ERP: 100.0 kW AMSL: 615.0 m  
 TV Incoming Interference Study  
 Interference Considered Within: Noise Limited FCC Contour  
 Signal Resolution: 2.0 km  
 LR Profile Spacing Increment: 1.0 km  
 Consider NTSC Taboo: Yes  
 # of radials computed for protected contour: 360  
 Protected contour calculated using 8 radial HAAT.  
 Threshold for reception: 47.0

Study Date: 3/16/2009  
 TV Database Date: 3/14/2009

Primary Terrain: 3 Second US Terrain

Population Database: 1990 US Census

Percentages calculated using a baseline population of 1,644,182.

Stations which cause interference:

Call Letters	H Units	Population	%	Area (sq. km)
WABG-TV (06+)	16733	41460	2.522	2107.77
WABW-DT STA (06)	8946	23764	1.445	926.78
WBXM-CA (05Z)	1922	6998	0.426	217.91
WCFT-DT (05)	10445	24838	1.511	1486.88
WOOT-LP (06+)	6541	16220	0.987	327.14

Masking Summary:

Call Letters	Total Interference		Unique Interference	
	Population	%	Population	%
WABG-TV (06+)	41460	2.522	21441	1.304
WABW-DT STA (06)	23764	1.445	16805	1.022
WBXM-CA (05Z)	6998	0.426	115	0.007
WCFT-DT (05)	24838	1.511	4819	0.293
WOOT-LP (06+)	16220	0.987	16144	0.982

Call Letters	City	State	Dist	Bear
WABG-TV (06+)	Greenwood	MS	348.1	268.9
WABW-DT STA (06)	Pelham	GA	364.0	135.1
WBXM-CA (05Z)	Montgomery	AL	131.5	159.5
WCFT-DT (05)	Tuscaloosa	AL	58.7	269.2
WOOT-LP (06+)	Chattanooga	TN	236.3	35.8

Totals for WBRC (06-)

Calculation Area Population:	1,715,846	(	40376.8 sq. km )
Not Affected by Terrain Loss:	1,644,182	(	36862.2 sq. km )
Total NTSC Interference:	64,678	(	2652.8 sq. km )

DTV Only Interference:	21,624	(	1401.2 sq. km )
Total DTV Interference:	48,602	(	2413.7 sq. km )
Interfered Population:	86,302	(	4054.0 sq. km )
Interference Free:	1,557,880	(	32808.1 sq. km )

Percent Interference:	5.25
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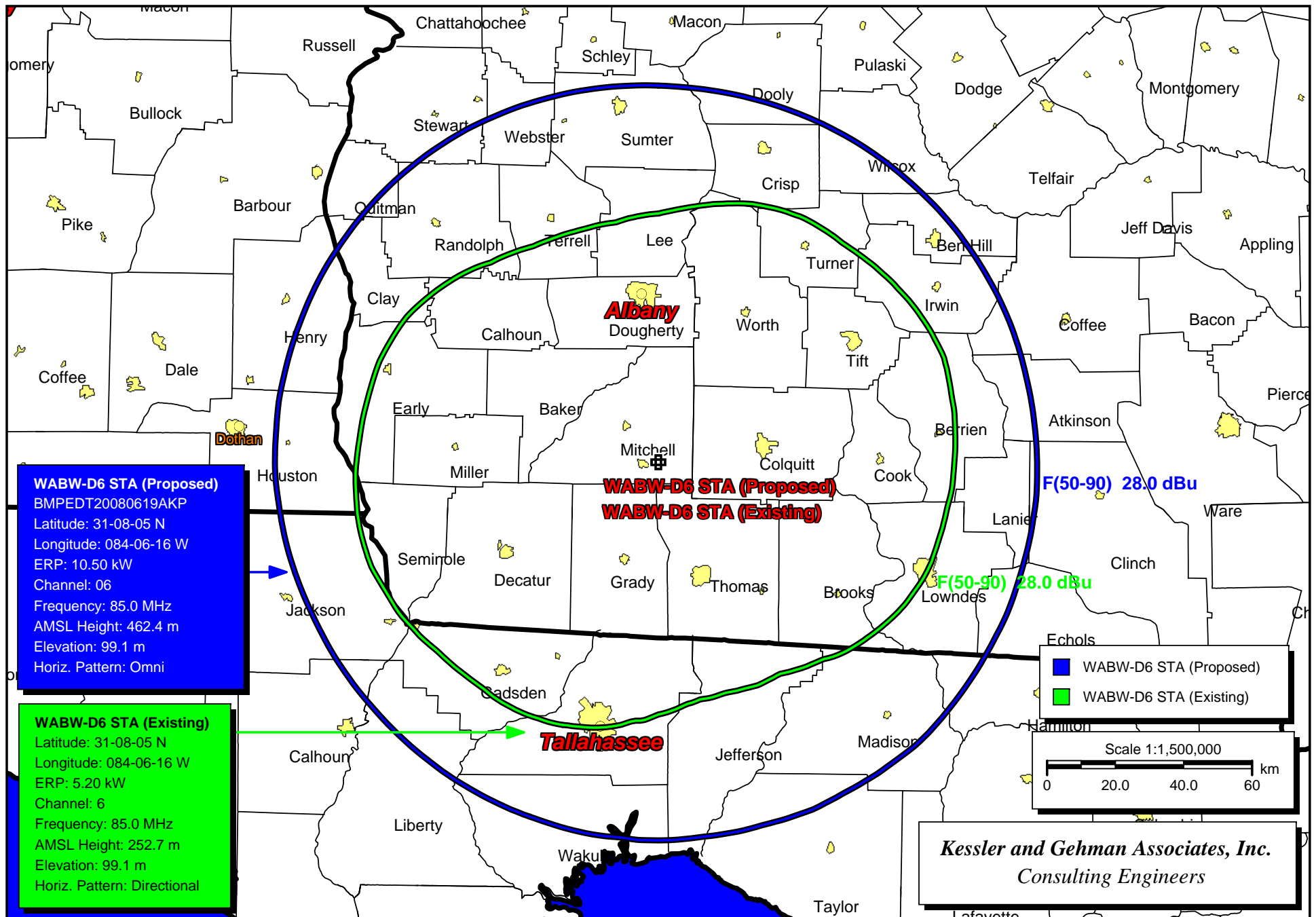
Terrain Blocked Population:	71,664	(	3514.6 sq. km)
Contour Area Population:	1,715,720		

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Interference Free Breakdown:

White:	1,183,655	(	76.0% )
Black:	356,792	(	22.9% )
Hispanic:	7,692	(	0.5% )
Indian:	2,899	(	0.2% )
Asian:	6,624	(	0.4% )
Other:	218	(	0.0% )
Total:	1,557,880		

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Existing WABW-DT Channel 6 STA (green) vs. Proposed WABW-DT Channel 6 STA (blue)