

## TV CHANNEL 6 INTERFERENCE STUDY

A study of the Commission's database reveals that the nearest channel 6 television facility is WABG Greenwood, MS. WABG is located within the minimum distance specified by the Commission and therefore must be considered. WABG operates with 100kW at 632m COR AMSL. Coordinates for WABG are: 33-22-23 90-32-31

The WABG contours were plotted on a map and the Affected contour was found to be the 52dBu 63dBu contours. The proposed interfering contours were determined by using the table in 47 CFR 73.599 (figure 2). These contours were scaled and plotted using V-Soft Communications Probe II software. The population was obtained using the SF1 database. The report is included with this exhibit.

The population within an area of interference using a maximum of 60kW would exceed the Commission's population limits of 3000 persons, therefore the applicant chooses vertical only polarized transmissions. CFR 47 section 73.525(e)(4)(i), states the maximum permissible vertically polarized ERP will be the maximum horizontally polarized ERP permissible at the same proposed height, calculated without the adjustment for television receiving antenna directivity specified in paragraph (e)(1)(iii) of this section, multiplied by either: 40 if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more; or 10 if it does not. A horizontal ERP of 1.5kw ( $60000/40 = 1.5\text{kw}$ ) is used to calculate the area of interference. This proposed facility *could* cause interference to 3,805 persons according to the 1990 Census Data provided in this exhibit.

**Pursuant to Section 73.525(c)(2), applicant proposes vertical only polarity of 20 kW, the above tabulations indicate that a population of 3,805 persons are affected by the proposed channel. American Family proposes to effectively install 805 filters on television receivers within the predicted interference area within 90 days after commencing program test and no later than 45 days thereafter and will provide the affected channel 6 with certification containing sufficient information to permit verification of such installations.**

**American Family believes the proposed is in compliance with 47 CFR 73.525 of the Commission's rules.**

**Forest, MS WQVI**

Latitude: 32-42-51 N  
Longitude: 089-49-19 W  
ERP: 60.00 kW  
Channel: 213  
Frequency: 90.5 MHz  
AMSL Height: 225.0 m  
Horiz. Pattern: Omni

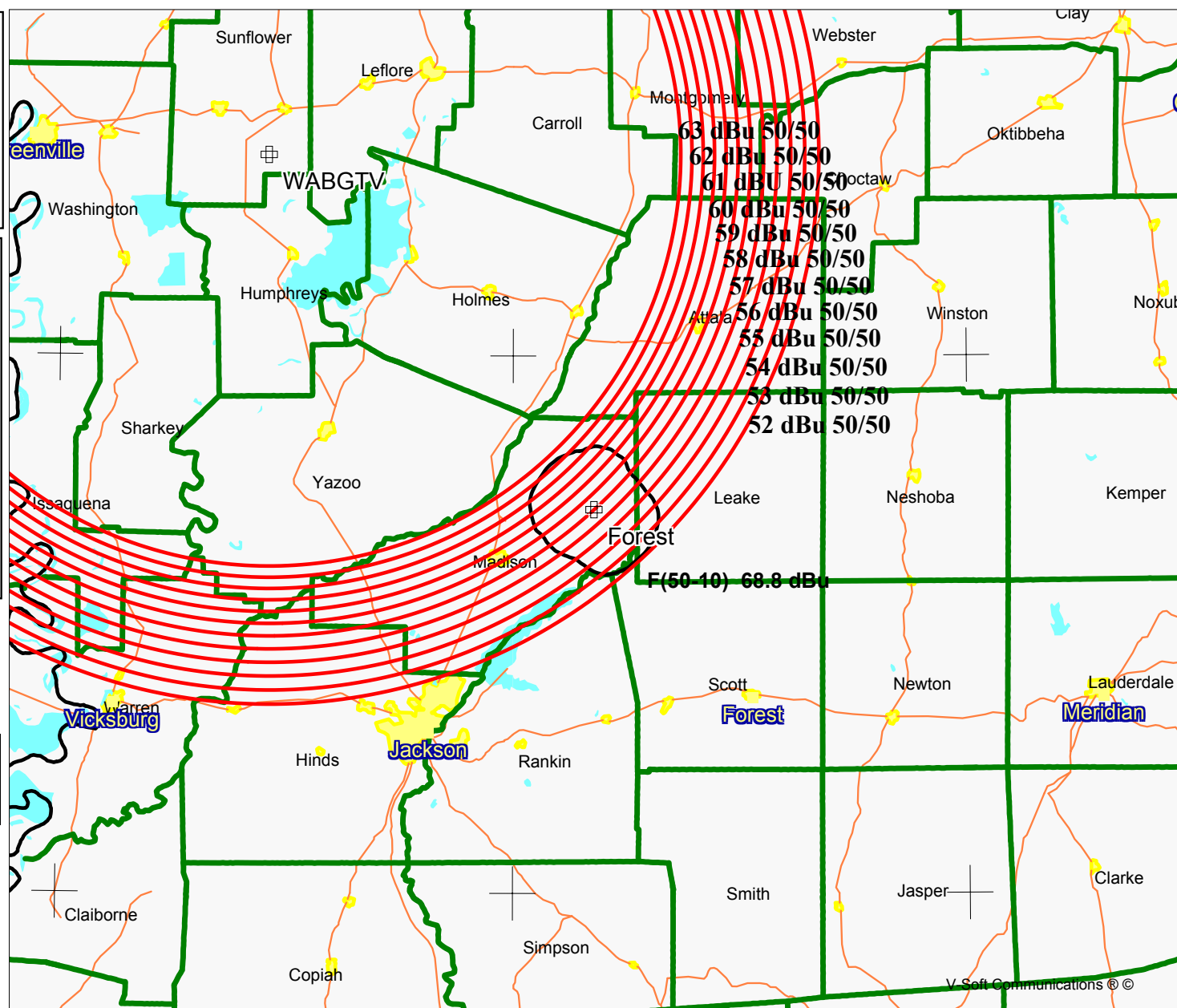
**WABGTV**

BLCT19821102KE  
Latitude: 33-22-23 N  
Longitude: 090-32-31 W  
ERP: 100.00 kW  
EIRP: 164.00 kW  
Channel: 06+  
Frequency: 85.5 MHz  
AMSL Height: 632.0 m  
Elevation: 30.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: Yes  
Elec Tilt: 0.0  
Prop Model: None

Forest  
WABGTV

Scale 1:1,250,000

0 10 20 30 km



# V-Soft Communications Population Report

## Contour Parameters:

Type: FCC Contour

F(50-10) Cutoff: 68.80 dBu

Population Database: 2000 US Census (SF1)

Primary Terrain: V-Soft 30 Second US Database

Secondary Terrain: V-Soft US 3 Arc-Second Database

## Transmitter Information:

Call Letters: Forest

Latitude: 32-42-51 N

Longitude: 089-49-19 W

ERP: 1.50 kW

Channel: 213

Frequency: 90.5 MHz

AMSL Height: 225.0 m

Horiz. Antenna Pattern: Directional

Total Population Within Contour: 3,805

Total Housing Units Within Contour: 1,325

Total Area Within Contour: 499.27 sq. km

	Housing Units	Population
Mississippi		
Leake County		
Forest	224	481
White:		145
Black:		325
Hispanic:		5
Native American:		0
Asian:		0
Pacific Islander:		0
Mixed Race:		6
Other:		0
Madison County		
Forest	1,101	3,324
White:		463
Black:		2,811
Hispanic:		25
Native American:		5

Asian:	5
Pacific Islander:	1
Mixed Race:	14
Other:	0

Scott County  
Forest

0

0

White:	0
Black:	0
Hispanic:	0
Native American:	0
Asian:	0
Pacific Islander:	0
Mixed Race:	0
Other:	0