

UNITED STATES OF AMERICA  
FEDERAL COMMUNICATIONS COMMISSION  
AM BROADCAST STATION LICENSE

File No. : **BS-930618**  
Call Sign : **W A P I**

LICENSEE:  
**W A P I, INC.**

*File ID 19920411AG*

1. Community of License .....: **Birmingham, AL**
  2. Transmitter location .....: **On Sandusky Mountain  
Birmingham, AL**
  3. Transmitter(s): Type Accepted. (See Sections 73.1660,  
73.1665 and 73.1670 of the Commission's rules)
  4. Main Studio location: (See Section 73.1125)
  5. Remote control location:  
**2146 Highland Avenue South  
Birmingham, AL**
- North latitude .....: **33° 33' 07"**  
West longitude .....: **86° 54' 40"**

6. Antenna and ground system: **ATTACHED**

7. Obstruction marking and lighting specifications - FCC Form 715, paragraphs: **1, 3, 12, 21 & 22 for Tower #2.  
1, 2, 12, 21 & 22 for Tower #1.**
8. Frequency .....: **1070** kHz

9. Nominal power (kW) .....: **50.0** Day **5.0** Night

Antenna input power (kW):

<b>50.0</b> Day	<input checked="" type="checkbox"/> Non-directional antenna:	<b>49.0</b> amperes:	<b>20.6</b> ohms.
	<input type="checkbox"/> Directional antenna	: current	
<b>5.4</b> Night	<input checked="" type="checkbox"/> Non-directional antenna:	<b>10.4</b> amperes:	<b>50</b> ohms.
	<input type="checkbox"/> Directional antenna	: current	

10. Hours of operation: Specified in **BR-781201B3**

11. Conditions .....

**BS-930618:** This is to reflect changes in the obstruction marking & lighting specifications per FAA Study **#88-ASO-2479-OE.**

Subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts, Treaties, and Commission rules made thereunder, and further subject to conditions set forth in this license,<sup>1</sup> the LICENSEE is hereby authorized to use and operate the radio transmitting apparatus herein described for the purpose of broadcasting for the term ending 3 AM, Local Time **APRIL 1, 1996**.

The Commission reserves the right during said license period of terminating this license or making effective any change, or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

The license is issued on the licensee's representation that the statements contained in the licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934, as amended.



**03 AUG 1993**

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## 1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Two tapered, self-supporting series excited vertical radiators top loaded with three sections of 1<sup>1</sup>/<sub>4</sub>" galvanized pipe 3.68 m in circumference. Theo. RMS: 636.01 mV/m, Night; 2116.65 mV/m, Day. Avg RMS: 697.68 mV/m, Night. Q = 23.411, Night all values at 1 km.

Height above Insulators: 63.09 m (81°)

Overall Height: 64.92 m (83.4°)

Spacing and Orientation: Two elements spaced 50.6 m (65°) on a line bearing 338° True.

Non-Directional Antenna: SE (#1) tower, Theoretical efficiency: 299.34 mV/m/kW at 1 km.

Ground System consists of 120 equally spaced, buried, copper radials 66.58 m in length about the base of tower #1; 120 equally spaced, buried copper radials 70.1 m in length about the base of tower #2. Plus a 15.24 m by 15.24 m copper ground screen about the base of each tower.

## 2. THEORETICAL SPECIFICATIONS

Tower	SE (#1)		NW (#2)	
	Phasing		Phasing	
		0°		140°
Field Ratio:		1.000		1.000

## 3. OPERATING SPECIFICATIONS

Phase Indication\*: -135° 0°

Antenna Base Current Ratio: 0.750 1.000

Antenna Monitor Sample Current Ratio: 0.790 1.000

\* As indicated by Potomac Instruments AM-19 (204) antenna Monitor.

Antenna sampling system approved under Section 73.68(b) rules.



DESCRIPTION OF FIELD INTENSITY AT MONITORING POINTS

Direction of 30° True North. Leave gate at transmitter and turn right. Follow tower road for 0.4 of a mile to Prett Highway. Turn right and proceed 0.4 of a mile to fork in road and turn left. Proceed 0.15 of a mile to "T" junction of Heflin Avenue. Turn left and follow Heflin Avenue for 1.3 miles to junction of U.S. 78. Turn left on U.S. 78 for 0.1 of a mile. Monitor point is on the median strip of the highway. The field intensity measured at this point should not exceed 11.6 mV/m Night.

Direction of 338° True North. From the 30° monitor point follow U.S. 78 toward Adamsville for 1.85 miles. Monitor point is on the north side of the highway 100 yards in front of Ensley Traffic Exit sign. The field intensity measured at this point should not exceed 37.3 mV/m Night.

Direction of 286° True North. From the 338° monitor point follow U.S. 78 toward Adamsville for 0.2 of a mile. Take the Ensley-Adamsville, Ensley Traffic Exit to junction with County Road 65. Turn left toward Docena and proceed for 2.3 miles. Monitor point is on the east side of the road 100 feet south of the entrance to Docena. The field intensity measured at this point should not exceed 16.4 mV/m Night.