Approved by OMB 3060-0029 Instruction D)

IIG RIMER BROADCASTIN.

WXOR
624 So. Chestnut St. RECD
PO BOX 932
rence, AL 35631

AND SERVED BUP

Windicated Expires 5-31-84 Name and post office address of applicant (Include ZIP Code) Section | (See Instruction D) United States of America eral Communications Commission APPLICATION FOR NEW BROADCAST STATION LICENSE INSTRUCTIONS: A. This form is to be used in all cases when applying for a Broadcast Station License. It consists of this part, Section I, and the following Section 11 - A, License Application Engineering Data Standard Broadaddressed to the following Section 11 - B. License Application Engineering Data FM Broadcast (Include ZIP Code) Section II - C, License Application Engineering Data Television Broad Paul E. Kelley 624 So. Chestnut St. B. Prepare and file three copies of this form and all exhibits with Florence, AL Federal Communications Commission, Washington, D.C. 20554. 1. Facilities authorized by construction permit C. Number exhibits serially in the space provided in the body of the Power in kilowatts form and list each exhibit in the space provided on page 2 of this Sec-Channel No. Frequency Night 25 tion. Date each exhibit and each antenna pattern, D. The name of the applicant must be stated exactly as it appears on 1 1340 KHZ the construction permit which is being covered. E. Information called for by this application which is already on file Hours of operation Call letters with the Commission need not be refiled in this application provided (1) WXOR 24 the information is now on file in another application or FCC form filed by Un Air or on behalf of this applicant; (2) the information is identified fully by Construction permit covered by this application reference to the file number (if any), the FCC form number, and the filing File number date of the application or other form containing the information and the page or paragraph referred to, and (3) after making the reference, the applicant states; "No change since date of filing." Any such reference Construction completed Construction begun will be considered to incorporate into this application all information, confidential or otherwise, contained in the application or other form referred to. The incorporated application or other form will thereafter, in Yes X No Is the station now in satisfactory operating condition its entirety, be open to the public. and ready for regular operation? F. This application shall be personally signed by the applicant, if the If not, explain applicant is an individual; by one of the partners, if the applicant is a partnership; by an officer, if the applicant is a corporation; by a member who is an officer, if the applicant is an unincorporated association; by such duly elected or appointed officials as may be competent to do so under the laws of the applicable jurisdiction, if the applicant is an eligible government entity; or by the applicant's attorney in case of the applicant's physical disability or of his absence from the United States. The PROGRAM DATA attorney shall, in the event he signs for the applicant, separately set forth the reason why the application is not signed by the applicant. In Has applicant any contract, arrangement, or underaddition, if any matter is stated on the basis of the attorney's belief only standing, expressed or implied, with a network or-(rather than his knowledge), he shall separately set forth his reasons for ganization for the broadcasting of network programs? On file believing that such statements are true. Does applicant, in the event this application is granted, Yes [7] No [7] G. BE SURE ALL NECESSARY INFORMATION IS FURNISHED AND propose to broadcast network programs? If network pro-ALL PARAGRAPHS ARE FULLY ANSWERED. IF ANY PORTIONS OF THE APPLICATION ARE NOT APPLICABLE, SPECIFICALLY SO grams are to be broadcast, state as Exhibit No. arrangements under which they are to be obtained and attach STATE. DEFECTIVE OR INCOMPLETE APPLICATIONS MAY BE REcopies of any contractual arrangement which may have been TURNED WITHOUT CONSIDERATION. made. If the arrangement is based on an oral understanding, a H. See back of last page for Privacy Act Notice. written statement of the arrangement should be submitted. FINANCIAL DATA on file 4. Give actual costs of making installation for which construction was authorized Studio technical Frequency and Antenna system, including Transmitter proper equipment, microphones, modulation monitors antenna-ground system, including tubes transcription equipment, etc. coupling equipment, transmission line 3 Total Other items. Acquiring or Acquiring constructing land buildings

						_ * ,	12000		
FCC Form 302						Section I,	Rage 2		
FINANCIAL DA	TA (Continued)	DNA							
Exhibit No.  No. a d  on file with temperation th	(b) If the actual etailed statement sho	et, as at the completion date cost of construction materi wing the plan used to finan- nual Financial Report (FCC a change in existing facilities pred.)	ally exceeds the ce such construct C Form 324) show	original c lon, (If a ing Its fin	stimated cost of cons pplicant is licensee ( ancial position withi	struction, attach as of a broadcast stati n the past 12 month	Exhibit on having s and the		
6. State change (If none, so:		ation, and report any contra	cts affecting own	ership no	t shown in the applic	ation for construction	on permit		
	DNA								
7. Apart from the apparatus constructed, have all the terms, conditions, and obligations set forth in the above-described application for construction permit been fully met?  Yes No If "No", state exceptions.									
B. Is a request	for authority to condu	ct program tests a part of th	nis application?	D	NA	Yes [	No 🗀		
THE AF	PPLICANT hereby v	waives any claim to the u use of the previous use o application. (See Section	se of any partic	ether by	license or otherwis	net as against the se, and requests a	regulatory n authori		
THE APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.									
THE APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.									
		С	ERTIFICATION	1					
_						المستحدث والمحمدات	haliat and		
I certify are made in p		in this application are t	rue, complete,	and corre	ect to the best of m	y knowledge and	beller, and		
_,,,	,								
Signed and dated this 24th day of June, 1983									
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISON- BIG RIVER BROADCASTII						STING CORP.			
MENT. U.	S. CODE, TITLE 18,	SECTION TOOT.	-		(NAME OF APPLICANT)				
	By But E. belley								
					SIGNATU • ENCINCED •	WCE DDECTO	CNT		
			Tit	le CHIE	F ENGINEER &	VICE PRESID	C.IV I		
EVHIBITS for	nished as required by	this form:							
Exhibit No.	=:				Official title				
	No. of Form	(show w					·		
1	Antenna Resistance Report	Paul E. Kelley	- CE		V.P. & CHIE	F ENGINEER			
					·				
				:					
				:					
•									

Broadcast	Application	on .		FEDERA	L COMMUNI	CATIONS CO	DMMISSIO	N			Section II -	A	
	APPLICAT	TION ENGINE D BROADCA	ERING DA	Nome Nome	of opplic <b>ant</b>								
Purpose of authorization applied for:						7. Operating constants: (If directional system, give current at point of resistance measurement.)							
(Check one)  Answer paragraphs 1-13  Direct measurement of power 2,6,7,8,9,14					RF common point or antenna current without modulation for night power in emperes 2.24				RF common point or entenna current without modulation for day power in emperes 4.48				
					Actual measured antenna or common point resistance (in ohms) at operating frequency Night 49.8 Day 49.8 Night 109.2 Day + J109					i (in Jency			
l. Facilit	ies authori	xed in constr	····			Currents, and phases for directional operation							
Coll	Call Sign File No. of construction permit						Phase reading in degrees		CUTT	Antenna base Remote in current of entenna			
Frequency	Frequency Hour		rs of operation		Power in kilowatts		Night	Day	Night Day	Night Day			
				Night	Day	Tower							
2. Station	location												
Alaba	ma		Flor	ence									
3. Transm	itter locat	on											
<b>State</b> Alaba	Stot∙ Alabama			County Lauderdale			I or and type	of antenn	a monitor	:	<u> </u>	L	
City or Town			Street Address (or other identi-		Simpson - 1337 - 0-5 AMPS  Describe equipment used for remote indication of antenna currents (antenna monitor or other method)								
Florence			624 S. Chestnut St.										
4. Mein st	udio locat	ion Same				]							
State Co.			County	County		Gates Diode Unit CAL. Meter  8. Description of ontenna system							
City or Town			(Street and number			(If directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if neces-							
5. Remote	5. Remote control point location						sary. Height figures should not include obstruction lighting.)						
Stat <del>o</del>			City or town			Type redictor  Ventical Cross  Height in feet of complete radiator above base insulator or above base if grounded.					ator,		
Street /	Street Address (or other identification)					Section Guyed Tower 180 Ft.							
6. Transm	ltter insta	led .				Overall hei	ght in feet	above	If an	lenna is e	ither top ic	aded or	
Make Harris		Type No. SX-1		125		ground. (without obstruction sectionalized, describ							
Lastra	Last radio stage				180 Ft. DNA  Excitation Unipole Series (太) Shumt. □								
Solid	State	Total unmodulated plate current		Plo	te voltage	Geographic	coordinate	es to neare			-t		
Night		6.5		53		For directional antenna give coordinates of center of array.  For single vertical radiator give tower location.							
Doy		12.5		96		North latitu	de <b>.</b> 34 47	• • • • • • • • • • • • • • • • • • •	)	longitude 87	39	54 🅢	
Manufacturer's recommended operating efficiency 1100 Watts for the last radio frequency amplifier stage in percent.  Is inverse feedback utilized?  If "Yes", to what value of feedback					If not fully describe above, give further details and dimensions including any other antennas mounted on tower and associated isolation circuits as EXHIBIT								
power is transmitter adjusted (in db)  Efficiency of the last radio frequency emplifier stage as now adjusted  25 KW 72.5% (use formula   1					120 Equally spaced, buried copper radials 150 to 183 feet in length.								

	STANDARD BROADCAS	ENGINEERING DATA Section II-A, Page, 2						
Broadcost Application								
9. Antenna resistance measure								
Attach as Exhibit No. 1	the following:	d. Manufacturer's name of each calibrated instrument used						
a. Qualifications of persons		and manufacturer's rated accuracy.						
location of antenna amme characteristics of all tow circuits, static drains, ar etc. connected to or supp cluding other antennas as	eter, connection to and eer lighting isolation and any other fixtures, lines corred by the antenna, in-	e. Date, accuracy, and by whom each instrument was last calibrated.  f. Table of complete data taken.  The graph drawn of 10 to 12 readings in a band 50 to 60 kilohertz wide with the operating frequency near the center.						
c. Full description of mem-		13. In what respect, if any does the apparatus constructed						
10. Modulation monitor DNA	Type No.	differ from that described in the application for constitueion						
Make	1772 11-1	permit or in the permit?						
	DNA							
11. Frequency measurements	DNA	NONE						
Give the following data on		HOHE						
Date and Time	Frequency measured by such agency or method							
1.								
2.								
3.								
Name of checking agency or m  12. Give method of varying po	ethod used	14. Give reason for the change in antenna or common point resistance.  Tower Lighting System removed from tower - See Fy41817#2						
of line voltage.  Solid State Voltage		Unipole resistance shunt moved - to near 50 ohm						
		ų.						
I certify that I represent the soft echnical information and t	applicant in the espacity indicated that it is true to the best of my kn	below and that I have examined the foregoing statement owledge and belief.						
June 24, 19  Date	121	Signature (check appropriate box below)    Technical Director   Registered Professional Engineer   Consultant   Chief Operator						



## Telegram

BMA206(1715)(1-025957A179010)PU 06728/82 1700

ICS IPMUBUB WSh 36

03087 NL COLLECT RAWASHINGTON DC 06-28 04278 EDI

PMS JOL RADIO INC

RADIO STATION WXOR (AK) PHONE AND MAIL

524 S CHESINUT ST 63/

RECEIVED JUN 3 0 1982

REF. 8910-HS. RELET PHILLIPS 6/21/82. PURSUANT 10 YOUR HEQUEST IN SAICH FAA CONCURS THE OBSTRUCTION LIGHTING HERUIKEMENIS TUR COUR ANTENNA ARE HEREBY DELETED. THIS CORRECTION WILL AFREAM ON

OUR NEXT AUTHORIZATION.

JOHN TORGAN CHIEF HENRY STRAUBE ENGR BROADCAST BUREAU FCC

COLLECT TELEGRAM FROM WASH. D.C. - 6/29/82

REFERENCE 8910-HS

RELET PHILLIPS 6/21/82

PURSUANT TO YOUR REQUEST IN WHICH FAA CONCURS OBSTRUCTION LIGHTING REQUIREMENTS FOR YOUR ANTENNA ARE HEREBY DELETED ... THIS CORRECTION WILL APPEAR ON YOUR NEXT AUTHORIZATION....

SIGNED: JOHN MORGAN - CHIEF BROADCAST....FCC

NO 164812

ANTENNA IMPEDANCE MEASUREMENTS WXOR, FLORENCE, ALA. 1340 KHZ.

1 KW Day .25 KW NIGHT
Data Taken Dec. 5, 1982, by
Paul E. Kelley, Sheffield, Alabama

Data herein is in support of an application for direct measurement of power for standard broadcast station WXOR, Florence, Alabama, 1340 Khz, 1 KW Day .25 Night. Complete information requested in Form 302, Section II-A, Paragraph 9 (Antenna Resistance Measurement) is given herein, together with letter of reference:

- a. Measurements included in this report were made by Paul E. Kelley, who has some 33 years experience in radio engineering and who holds FCC 1st Class license No. PL-6-35781, which expires September 24, 1986.
- b. A schematic diagram of coupling system components is included, identified as Figure 1.
- c. The standard RF bridge method was used, with a General Radio Model 916A bridge connected as indicated.
- d and e. The calibrated instruments were:
- 1. A General Radio Model 916A bridge (Serial No. 1353) calibrated by supplier in June, 1975, and checked with secondary reference standard precision resistors and capacitors during this use and assuring an accuracy within 1%.
- 2. A B & K Model E 200D generator (Serial No. 27-000573) broad band amplifier (battery powered) for 5-12 volt line output at broadcast band frequency. Frequency calibration verified by zero beating to available carriers and interpolating for remaining points.
- 3. A receiver especially constructed for bridge work, frequency calibrated, and equipped with beat oscillator, manual gain control and coaxial line input was used. The receiver was not used to determine exact frequency. The receiver used was a Stewart Warner R390A/Urr (Serial No. 25).

Note: Connections between driver bridge and detector were coaxial cable.

f and g. A table of data and a graph of the resistance measurements are included herein.

ANTENNA IMPEDANCE MEASUREMENTS WXOR, FLORENCE, ALA. 1340 KHZ.

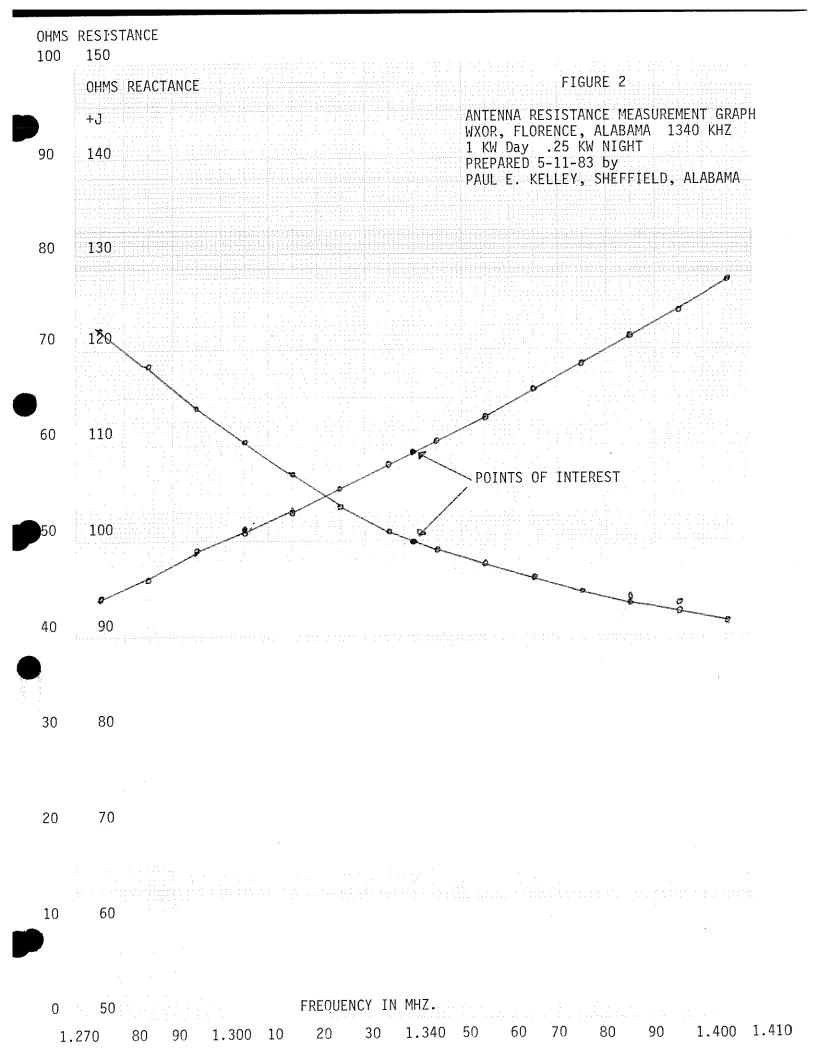
1 KW DAY .25 KW NIGHT Data Taken Dec. 5, 1982, by Paul E. Kelley, Sheffield, Alabama

1275 72.1 94.1 1285 67.8 96.0	ANCE
1285       67.8       96.0         1295       63.6       98.1         1305       60.3       100.4         1315       56.9       102.7         1325       53.5       105.3         1335       50.9       108.0         * 1340       49.8       109.2         1345       48.0       110.4         1355       47.5       112.9         1365       46.0       115.8         1375       44.6       118.5         1385       43.4       121.3         1395       42.5       124.0         1405       41.5       127.4	

## OPERATING FREQUENCY

NOTE 1: By reference to Figure 2, the resistance at the operating carrier frequency is determined to be 49.8 ohms and the antenna current for 1 KW Day is calculated to be 4.48 amps and for .25 Night is calculated to be 2.24 amps.

NOTE 2: The antenna is inductive at the operating frequency, having a reactance of +J 109.2 ohms.



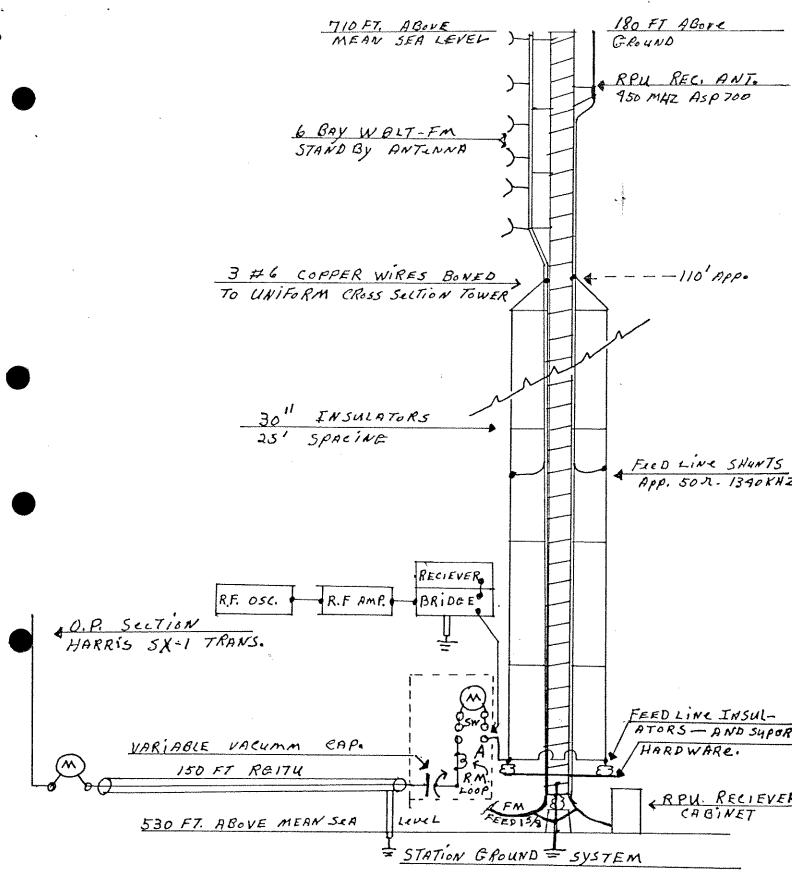


FIGURE 1
Point (A) coupling point for resistance measurement.
Circuit components and transmitter coupling.
Coaxial cable used forall connections.

WXOR, Florence, Ala. 1340 Khz., 1 Kw. day, .25 Kw night. Prepared May 11, 1983.

Prepared Rv Paul F Kelley Chief Engineer

Paul E. Kelley, being duly sworn upon oath, deposes, and states that he has been retained by Sam Phillips, owner of Radio Station WXOR as a consulting engineer;

That the data compiled in the attached report was prepared by him or under his personal supervision and direction;

That all of the facts and data relative to the antenna impedance and method of obtaining this data are correct of affiant's personal knowledge;

That statements relative to the physical installations and others stated to be on information and/or belief are believed to be true and correct as therein appearing.

Baul & Kelley
(Affiant)

Sworn to and subscribed before me, this the 27th day of June, A.D., 1983, in Sheffield, Alabama.

Sandry Angley (Notary Public)

My commission expires 4/25/85