

JUL 05 1991

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

IN REPLY REFER TO:

8910-JDS

JUN 23 1991

Jefferson-Pilot Communications Company
Radio Station WMRZ(AM)
20450 NW 2nd Avenue
South Miami, Florida 33169

In re: WMRZ
South Miami, FL
Re COMLET 5-18-90

Gentlemen:

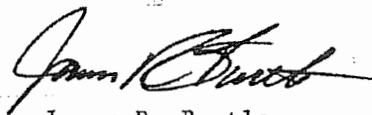
This has reference to your recently submitted engineering report regarding special temporary authority as reflected in the above-captioned letter.

By telegram dated April 13, 1991, the Commission authorized the commencement of the interim operation in accordance with Section 73.1620 of the Commission's Rules and the above STA for WMRZ to operate on a frequency of 790 kHz with a power of 25 kW, employing a directional antenna.

The station operation should be conducted with the directional antenna system adjusted in accordance with the enclosed specifications.

Please advise this office of any discrepancies noted in the enclosed tentative specifications.

Sincerely



James R. Burtle
Chief, AM Branch
Audio Services Division
Mass Media Bureau

Enclosure

cc:

DuTreit, Lundin & Rackley
Wiley Rein & Fielding
EIC - Miami

MMB-208
FEBRUARY, 1984

I N T E R I M O P E R A T I O N

SPECIFICATIONS FOR DIRECTIONAL OPERATION OF WAXY, SOUTH MIAMI, FL.

FREQ: 790 kHz **Nominal Power:** 25 kW, DA-2, U

Antenna Input Power: 26.3 kW, U

REVISED 7/10/91

DA-2

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: Four (4), guyed, series excited, steel radiators of uniform cross section, with 7.2° of top loading (the top 25' of guy wires) to give an apparent tower height of 79.6°.

Height above Insulators: 250.5' (72.4°) 79.6° with top loading.

Overall Height: 256.5'

Spacing and Orientation: With tower #1 as reference tower #2 is spaced 225° at a bearing of 351°, #3 is spaced 294° at a bearing of 7.2°, #4 is spaced 100° on a bearing of 46° True.

Non-Directional Antenna: None Used

Ground System consists of 120 radials equally spaced 310' on length except at the point of intersection where radials are shortened and bonded to transverse copper strap or terminated by property boundary. In addition, a 24' X 24' ground screen is installed at the base of each tower.

2. THEORETICAL SPECIFICATIONS

Tower		SW	NW	NE	SC
		(#1)	(#2)	(#3)	(#4)
Phasing:	Night	0°	-20.9°	-158.8°	-137.5°
	Day	45°	0°	---	---
Field Ratio:	Night	1.00	1.073	0.785	0.808
	Day	0.45	1.00	---	---

3. OPERATING SPECIFICATIONS

Phase Indication*:		Night	126.3°	100.1°	-25.7°	0°
		Day	41.5°	0°	---	---
Antenna Base	Night	1.009	1.083	0.923	1.00	
Current Ratio:	Day	0.451	1.00	---	---	
Antenna Monitor Sample	Night	1.018	1.078	0.921	1.00	
Current Ratio:	Day	0.463	1.00	---	---	

WAXY (AM)

* As indicated by Potomac Instruments 1901 Antenna Monitor.

The field strength in mV/m measured at the described monitoring points is not to exceed the following values:

<u>NIGHTTIME</u>		<u>DAYTIME</u>	
18.5°	T = 1700 mV/m	117.9°	T = 34.2 mV/m
128°	T = 5.2 mV/m	171°	T = 92.4 mV/m
143.5°	T = 13.9 mV/m	272.5°	T = 183 mV/m
156.5°	T = 9.8 mV/m	351.2°	T = 2305 mV/m
218°	T = 46.7 mV/m		
321.5°	T = 781 mV/m		