

8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715:

9. Transmitter(s): Type Accepted

10. Conditions: ----

The Commission reserves the right during said license period of terminating this license or making effective any changes 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.

This license is issued on the licensee's representation that the statements concained in licensee alic tion are the 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 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. 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.

1/This license consists of this page and pages 2, 3 & 4.

April 21, 1982 Dated: KJ

FEDERAL COMMUNICATIONS COMMISSION



FCC Form 353-A June 1980

File NO.: BL-810128AD

Call Sign: WRTH KENS Date: 4-21-82

DA-1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM No. and Type of Elements: Four uniform cross-section, guyed, steel towers top loaded with upper 100 feet of guy wires.

Height above Insulators: 300 feet (approx. 87° with top loading)

Overall Height: 307.5'

Spacing and Orientation: From ref. tower NC(#2) tower N(#1) is spaced 412.2' (89°) on a line bearing 15.9° T tower SC(#3) is spaced 408' (88.3°) on a line bearing 198.28° true Tower S(#4) is spaced 833.5' 180° on a line bearing 198.4° T. Non-Directional Antenna:

None authorized

Ground System consists of 120-412' equally spaced, buried copper radials, except where limited by property boundary, at the base of each tower. Intersecting radials are shortened and bonded to transverse copper strap.

2.	THEORETICAL SPECIF	NT ( // ¬ )				
	Phasing:	Night Day	161.75° 149.3°	NC(#2) 0° 0.0°	-165.75° -145.8°	s(#4) 65.4°
	Field Ratio:	Night Day	1.00 0.49	1.90 1.0	1.00 0.76	 0.21
3.	OPERATING SPECIFICATIONS					anger the
	Phase Indication*:	Night Day	158 <b>.2°</b> 145.6°	0.0	<u>-164.40</u> -147.30	68.5°
	Antenna Base Current Ratio:	Night	0.490	1.00	0,486	
		Day	0.476	1.00	0.736	0.183
	Antenna Monitor Sample					
	Current Ratio:	Night	0.494	1.00	0.492	
	* As indicated by Po	Day otomac Inst	0.477 cruments AM-19-3	1.00 D(210) antenna	0.753 a monitor.	0.193

Field measuring equipment shall be available at all times and the field intensity at each of the monitoring points shall be measured at least once every seven days and an appropriate record kept of all measurements so made.

## DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

#### MP #1

Direction of 97° true North. Leaving the WRTH transmitter road, turn south (left) on Stutz Lane. Proceed .15 miles to the next intersection, (Stanley Road and Culp Lane). Turn east (left), proceed 2.8 miles to the monitoring point. The measuring location is 6 feet northwest of the street sign "Valley View Drive". The distance from the WRTH transmitter is 2.37 miles. This is Point No. 22 of the survey. The field intensity measured at this point should not exceed <u>6.88 mv/m</u> Daytime and 13.7 Nighttime.

## MP#2

Direction of 86° true North. Leaving M.P. #1, continue east .2 mile to a "T" intersection. At Moro - Bethalto Road, (no road sign), turn east (left), proceed .8 mile to Main Street in Moro. Turn north (left), proceed .7 to the "Old Moro" School. The measuring location is on the south side of the building between two trees. The distance to the WRTH transmitter is 3.52 miles. This is Point No. 20 of the survey. The field intensity measured at this point should not exceed 9.3 mv/m Nighttime.

## MP#3

Direction of 66° true North. Leaving M.P. #1, turn around and proceed .35 miles to a "T" intersection. Immediately past a red barn on the North side of the road, turn north (right) and proceed .95 mile to "T" intersection. Turn East (right), proceed .25 mile to intersection (Bethalto and McCoy Road). Turn right and proceed .9 mile to the monitor point. The measuring location is on the North side of the road, just north of a turn to the right, fifty feet North of the road into an open field. The distance from the WRTH transmitter is 3.41 miles. This is Point No. 22 of the survey. The field intensity measured at this point should not exceed 7.42 mv/m Daytime.

## MP#4

Direction of 16<sup>°</sup> true North. Leaving M.P. #2, continue north 2.9 miles to "T" intersection with Seiler Road, (no raod sign). Turn west (left), proceed 2.6 miles to the entrance to Fosterburg School. Turn north (right) into the driveway of the school. The measuring location is in the middle of the driveway, east of thethird pine tree from the north end of the driveway. Thi distance from the WRTH transmitter is 3.04 miles. This is Point No. 21 of the survey. The field intnesity measured at this point should not exceed <u>52.9 mv/m Nighttime</u>.

Direction of 16° true North. Leaving M.P. #3, continue East .2 mile to "T" intersection (no road sign). Turn north (left) proceed 1.75 miles to another "T" intersection (no road sign). Turn West (left), proceed 2.6 miles to the entrance to Fosterburg School. Turn north (right) into the driveway of the school. The measuring location is in the middle of the driveway, east of the third pine tree from the north edn of the driveway. The distance from the WRTH transmitter is 3.04 miles. This is Point No. 21 of the survey. The field intensity measured at this point should not exceed 17.7 mv/m Daytime.

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#### -WRTH-KFNS

# DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS: (CONT'D)

# MP#5

Direction of 340° true North. From M.P. #3, continue east on Seiler Road .2 mile to intersection of Seiler Road and Fosterburg Road. Turn south (left), proceed .75 mile to "T" intersection with Torch Club Road. Watch for sign "Alton Twin Lakes". Turn west (right), proceed 1.15 miles to the monitor point. Stop at the first utility pole west of the entrance to the Torch Club. The pole has a "No Trespassing" sign. The measuring location is 100 feet north of the pole on the crest of a hill. The distance to the WRTH transmitter is 2.32 miles. This is Point No. 20 of the survey. The field intensity measured at this point should not exceed 17.3 mv/m Daytime.

#### MP#6

Direction of 309° true North. From M.P. #4, continue west on Seiler Road .2 mile to intersection with Fosterburg Road. Turn south (left) proceed .75 mile to "T" intersection with Torch Club Road. Watch for sign "Alton Twin Lakes". Turn west (right), proceed 2.55 miles to "T" intersection with Wood Station Raod. Turn south (left), proceed .23 mile to the monitoring point. The measuring location is in the bend of the road, on the east shoulder, 220 feet from the railroad crossing. The distance from WRTH transmitter is 2.62 miles. This is point No. 20 of the survey. The field intensity measured at this point should not exceed <u>5.2 mv/m Nighttime</u>.

#### MP#7

Direction of 292° true North. Leaving M.P. #6 continue south on Wood Station Road 1.7 miles to a "T" intersection. Turn west (right), proceed .75 mile to "T" intersection of Harris Road and Seminary Road. Turn north (right) proceed 1.1 miles to the monitoring point. The measuring location is on the shoulder, across the road from driveway to Maxeiner and Son's farm. The distance from the WRTH transmitter is 3.28 miles. This is point No. 23 of the survey. The field intensity measured at this point should not exceed <u>6.6 mv/m Nighttime</u>.

Direction of 292° true North. Leaving M.P. #5, continue west on Torch Club Road 1.4 miles to "T" intersection with Wood Station Road. Turn south (left), proceed 1.9 miles to "T" intersection (no road sign). Turn west (right). proceed .75 miles to "T" intersection of Harris Road and Seminary Road. Turn north (right), proceed 1.1 miles to the monitor point. The measuring location is on the shoulder, across the road from driveway to Maxeiner and Son's Farm. The distance from the WRTH transmitter is 3.28 miles. This is Point No. 23 of the survey. The field intensity measured at this point should not exceed <u>3.66 mv/m Daytime</u>.