

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
MAIN & AUXILIARY TRANSMITTER
STANDARD BROADCAST STATION LICENSE
MODIFIED

File No.: **ERC-3750**

Call Sign: **K T O K**

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, ^{1/}the LICENSEE

KTOX RADIO, INC.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time **June 1, 1977**

The licensee shall use and operate said apparatus only in accordance with the following terms:

1. On a frequency of **1000** kHz.
2. With nominal power of **5 kilo** watts nighttime and **5 kilo** watts daytime,
with antenna input power of **5.4 kilo** watts - directional
antenna nighttime **Common point** current **10.25** amperes
and antenna input power of **5.4 kilo** watts - directional **Common point** resistance **51.5** ohms,
antenna daytime **Common point** current **10.25** amperes
Common point resistance **51.5** ohms

3. Hours of operation: **Unlimited time.**

Average hours of sunrise and sunset:

Jan. 7:45am to 5:45pm; Feb. 7:15am to 6:15pm;
Mar. 6:45am to 6:30pm; Apr. 6:00am to 7:00pm;
May 5:30am to 7:30pm; June 5:15am to 7:45pm;
July 5:30am to 7:45pm; Aug. 5:45am to 7:15pm;
Sep. 6:15am to 6:45pm; Oct. 6:30am to 6:00pm;
Nov. 7:00am to 5:30pm; Dec. 7:30am to 5:15pm;

Central Standard Time. (non-advanced)

Transmitter may be operated by remote control from 1800 West Main Street, Oklahoma City, Oklahoma, while using nighttime operation only.

4. With the station located at: **Oklahoma City, Oklahoma**

5. With the main studio located at:

**1800 West Main Street
Oklahoma City, Oklahoma**

6. The apparatus herein authorized to be used and operated is located at: North Latitude: **35** ° **21** ' **29** "

**Approx. 8 miles South-Southeast
of the Center of
Oklahoma City, Oklahoma**

West Longitude: **97** ° **27** ' **48** "

7. Transmitter(s): **RCA BTA-5H.**

Western Electric, 355-Z-1 (Aux.)

(other transmitter currently listed in the Commission's "Radio Equipment List, Part B, Aural Broadcast Equipment" for the year herein authorized).

8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: **1, 3, 12 and 21.**

9. 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 contained in 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 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

Dated:

January 6, 1975

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FEDERAL
COMMUNICATIONS
COMMISSION



File No.: BRC-3750

Call Sign: K T O K

Date: 1-6-75

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

No. and Type of Elements: **DA-2**
Five uniform cross-section, guyed, series-excited,
vertical steel radiators.

	<u>TOWERS: #1, #2, #4 & #5</u>	<u>TOWER #3</u>
Height above Insulators:	240' (88°)	406' (148°)
Overall Height:	246'	412'

Spacing and Orientation: n adjacent elements on a

Non-Directional Antenna: None used.

Ground System consists of buried copper radials, about the bases of towers 1, 2, 4 & 5 120-290' plus 240-36' interspaced; at base of tower 3, 120-400' plus 240-65' interspaced. All radials terminated at points of overlap of adjacent systems and bonded to a common copper strap. A longitudinal copper strap along line of towers bonds entire system.

2. THEORETICAL SPECIFICATIONS

	Tower	NE(#1)	NEC(#2)	C(#3)	SWC(#4)	SW(#5)
Phasing:	Night	-117.5°	-61.14°	0°	61.14°	117.5°
	Day		-99.3°	0°	5.7°	
Field Ratio:	Night	0.298	0.760	1.0	0.760	0.298
	Day		0.599	1.0	0.633	

3. OPERATING SPECIFICATIONS

	Tower	NE(#1)	NEC(#2)	C(#3)	SWC(#4)	SW(#5)
Phase Indication*:	Night	-99.8°	50.1°	0°	66.3°	+125.5°
	Day		-90°	0°	+12.7°	

	Tower	NE(#1)	NEC(#2)	C(#3)	SWC(#4)	SW(#5)
Antenna Base Current Ratio:	Night	0.69	1.74	1.0	1.97	0.85
	Day		1.59	1.0	1.70	

	Tower	NE(#1)	NEC(#2)	C(#3)	SWC(#4)	SW(#5)
Antenna Monitor Sample Current Ratio:	Night	0.462	1.04	1.0	1.192	0.489
	Day		0.916	1.0	1.021	

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

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 thirty days and an appropriate record kept of all measurements so made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 26.1° True North. From transmitter road proceed east on 104th Street 1.3 miles to Sunnyland. Turn north on Sunnyland three miles to 59th Street. Turn east on 59th Street 0.25 mile to South Epperly Drive. Turn north on Epperly to 5906 the second house north on the east side of the street. The monitoring point is on the west side of the street in front of the house. The distance from the antenna to this point is 3.6 miles. The field intensity measured at this point should not exceed 9.8 mv/m NIGHT.

Direction of 48° True North. From transmitter road proceed east on 104th St. 2.25 miles to Sooner Rd. Turn north on Sooner Rd. and proceed 1.9 miles to 1-240 south service road; then east on the south service road 0.25 miles to culvert. The monitoring point is at the south side of the road and west side of the culvert, and the measured value at this point should not exceed 16 mv/m.

Direction of 62° True North. From transmitter road proceed east on 104th Street 1.3 miles to Sunnyland. Turn north on Sunnyland two miles to 74th Street. Turn east on 74th Street three miles. At this intersection turn south 0.5 mile. The monitoring point is in the bottom of the gulley in the center of the road by the lone tree on the east edge of the road. The distance to this point from the antenna is 3.63 miles. The field intensity measured at this point should not exceed 6.1 mv/m NIGHT.

Direction of 95° True North. From the KTOK transmitter proceed 2.25 miles east and 0.55 mile south to a post on the west side of the road marked KTOK 95. The monitor point is located 250 feet west of the post. The field intensity measured at this point should not exceed 13.2 mv/m NIGHT; 140 mv/m DAY.

Direction of 162° True North. From the transmitter road proceed east 1.3 miles to Sunnyland. Turn south on Sunnyland five miles to the intersection with the sign "Lazy Days Lake". At this intersection turn east 0.4 mile. The monitoring point is on the north edge of the road at the entrance to the clearing to the north. The distance to this point from the antenna is 4.85 miles. The field intensity measured at this point should not exceed 31.7 mv/m NIGHT.

Direction of 175° True North. From the transmitter road proceed east 0.25 mile to the first cross road, then south 4.55 miles. The monitoring point is by the 17th fence post east of the road in the farm road to the south of the fence. The distance to this point from the antenna is 4.27 miles. The field intensity measured at this point should not exceed 3.3 mv/m NIGHT.

Direction of 175° True North. From the entrance road to the KTOK transmitter proceed 0.25 mile east and 3.6 miles south to a post on the east side of the road. The post is labeled "KTOK 175". The monitor point is located in a field 250 feet east of the post. The field intensity measured at this point should not exceed 103 mv/m DAY.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS: (Continued)

Direction of 189° True North. From the KTOX transmitter proceed 0.75 mile west, 4.0 miles south, and 0.15 mile east, to a post on the south side of the road marked "KTOX 189". The monitor point is located in the middle of the road. The field intensity measured at this point should not exceed 16.7 mv/m NIGHT: 111 mv/m DAY.

Direction of 210° True North. From the KTOX transmitter proceed to 0.75 mile west, 2.0 miles south, 0.55 mile west, 1.0 mile south and 0.3 mile west to a post on the south side of the road marked "KTOX 210". The monitor point is located in the center of the road. The field intensity measured at this point should not exceed 4.4 mv/m NIGHT: 105 mv/m DAY.

Direction of 230° True North. From the KTOX transmitter proceed 0.75 mile west, 2.0 miles south, 2.0 miles west, 1.0 mile south and 0.35 mile west to a post on the north side of the road marked "KTOX 230". The monitor point is located in the center of the road. The field intensity measured at this point should not exceed 24.2 mv/m NIGHT.

Direction of 242° True North. From the transmitter road proceed west 0.75 mile, 2 miles south, 3 miles west and 0.3 mile south to a road marked "Nash Oil Lease". Turn into drive headed east and measuring location is approximately 150 feet east of the road, directly south of east edge of stone house to the north. The distance from antenna to this point is 4.18 miles. The field intensity measured at this point should not exceed 42.7 mv/m NIGHT.

Direction of 242° True North. From the entrance road to the KTOX transmitter proceed 0.75 mile west, 2 miles south, 2 miles west and 0.2 mile north to a post on the east side of the road. The post is labeled "KTOX 242". The monitor point is located in a field 250 feet northeast of the post along the line of towers. The field intensity measured at this point should not exceed 119 mv/m DAY.

Direction of 311° True North. From the transmitter road proceed west on 104th Street 1.8 miles to the west frontage road of Interstate 35. Turn north on this frontage road 1.25 miles. The monitoring point is on the east edge of the road in line with the farm access road running east from the east frontage road. The distance to this point from the antenna is 2.4 miles. The field intensity measured at this point should not exceed 45.8 mv/m NIGHT.