

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
STANDARD BROADCAST STATION LICENSE

File No. _____
Call Letters WTTF
10,610

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

~~WTTF, INC.~~
is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term beginning October 2, 1964, and ending October 1, 1967
(~~October 1~~ Eastern Standard Time) (October 1 Eastern Standard Time)

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

1. On a frequency of 1600 kc.
2. With _____ watts power _____ directional antenna nighttime
and 500 watts power _____ directional antenna daytime
current, _____ amperes
resistance, _____ ohms
current, _____ amperes
resistance, 21 ohms
Common point
Common point 48.56
3. During the following period or periods of time: Daytime as follows:
Jan. 8:00am to 5:30pm; Feb. 7:30am to 6:00pm;
Mar. 6:45am to 6:45pm; Apr. 6:00am to 7:15pm;
May 5:15am to 7:45pm; June 5:00am to 8:00pm;
July 5:15am to 8:00pm; Aug. 5:45am to 7:30pm;
Sep. 6:15am to 6:45pm; Oct. 6:45am to 6:00pm;
Nov. 7:15am to 5:15pm; Dec. 7:45am to 8:00pm;
Eastern Standard Time.
4. With the station located at:

Tiffin, Ohio

5. With the main studio located at:
112 East Market
Tiffin, Ohio

The apparatus herein authorized to be used and operated is located at:
On County Road 112
2 miles West of
Tiffin, Ohio
North Lat. 41 07 32
West Long. 83 13 45

and is described as follows: RCA Type BTA-1L, Broadcasting Transmitter, Part B, Aural Broadcast
(or other transmitter currently listed in the Commission's Radio Equipment List, Part B, Aural Broadcast Equipment" for the power herein authorized).

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 2, 3 & 4.

Dated: October 2, 1964

FEDERAL COMMUNICATIONS COMMISSION,

Ben F. Waple
Secretary



File No. BL-10,610 Call Letters W T T P Date 10-2-64

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA- D

No. and Type of Elements: **Three uniform cross-section, guyed, series-excited vertical radiators with an FM broadcast antenna side mounted near the top of center tower.**

Height above Insulators: **145' (85°)**

Overall Height: **148°**

Spacing and Orientation: **Spaced 102.5' (60°) between elements No. 1 (West) and No. 2 (Center) on a line bearing 80° True: Spaced 274' (160°) between elements No. 1 (West) and No. 3 (East) on a line bearing 82° True.**

Non-Directional Antenna: **none**

Ground System consists of 120 equally spaced, buried copper radials 160' in length plus 120 interspaced radials 60' in length about the base of towers 1 and 2 and 120 similar radials centered at a point 69' west of the base of East (#3) tower, plus a 24' x 24' copper ground screen about the base of the east tower. Intersecting radials are shortened and bonded to transverse copper strap.

2. THEORETICAL SPECIFICATIONS	Towers	WEST(#1)	Center(#2)	EAST(#3)
Phasing:	Day	154°	-7°	-154°
Field Ratio:	Day	0.555	1.0	0.555

3. OPERATING SPECIFICATIONS

Phase Indication:*	Day	159.5°	0°	-150°
Antenna Base Current Ratio:	Day	0.730	1.0	0.622
<u>Phase Monitor Sample</u>				
Current Ratio:	Day	0.441	1.0	0.386

*As indicated by Nema Clarke 108-E phase monitor.

Phase indications and antenna base currents shall be read and entered in the operating log at least once each hour. phase monitor sample currents may be read and logged in lieu of base currents provided base currents are read and logged at least once daily.

Field measuring equipment being available at all times and the field intensity at each of the monitoring points being 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:

Direction of 207° True North. From the WTTF Transmitter driveway proceed west 0.8 miles on Old Fostoria Road (which becomes Center Road west of Highway 18) to Hopewell Center Road; thence south 2.0 miles to Seneca County Road 591; Thence southwest 0.3 miles to the Galloway Farm Road; thence north 0.2 miles to a curve west. The monitor point is located 250' beyond the first turn and is in the field 50' south of the drive. The point is 2.43 miles from the WTTF antenna system. The field intensity measured at this point should not exceed 3.75 mv/m.

Direction of 262° True North. From the WTTF Transmitter driveway proceed west 1.3 miles on Old Fostoria Road (which becomes Center Road west of Highway 18) to Haugh Road. The monitor point is located 75 feet west of Haugh Road behind the brick house on the southwest corner. The point is 1.33 miles from the WTTF antenna system. The field intensity measured at this point should not exceed 33 mv/m.

Direction of 325° True North. From the WTTF Transmitter driveway proceed west 0.3 miles on Old Fostoria Road to Britt Road; thence north 1.0 miles to Hopewell Church Road; thence west 0.5 miles to Hey Road; thence north 1.0 miles to Wolf Road; thence west 0.46 miles to the point. The monitor point is located on the field 175' south of Wolf Road, 200' east of the barn. The point is 2.24 miles from the WTTF antenna system. The field intensity measured at this point should not exceed 7 mv/m.

Direction of 350° True North. From the WTTF Transmitter driveway proceed west 0.3 miles on Old Fostoria Road to Britt Road; thence north 1.0 miles to Hopewell Church Road; thence west 0.5 miles to Hey Road; thence north 3.0 miles to Maule Road; thence southeast 0.1 miles to John F. Snyder Farm. The monitor point is located 150 feet south of Maule Road in the field opposite the Snyder house. The point is 3.81 miles from the WTTF antenna system. The field intensity measured at this point should not exceed 2.65 mv/m.