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UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
MODIFIED AS OF JULY 20, 1961
STANDARD BROADCAST STATION LICENSE
MAIN TRANSMITTER

File No. BL-8346
Call Letters W S P R

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

W S P R, INC.

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broad-
casting for the term beginning July 20, 19 61, and ending April 1, 19 63
~~XXXXXXXXXXXXXXXXXXXX~~ (3 a.m., Eastern Standard Time)

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

1. On a frequency of 1270 kc.
2. With 1 kilo watts power - directional antenna nighttime

<u>common point</u>	current, <u>4.47</u> amperes
<u>common point</u>	resistance, <u>49.95</u> ohms
<u>common point</u>	current, <u>10</u> amperes
<u>common point</u>	resistance, <u>49.95</u> ohms

and 5 kilo watts power - directional antenna daytime

3. During the following period or periods of time: Unlimited time:
Average hours of local sunrise and sunset:

Jan. 7:15 am to 4:45 pm; Feb. 6:45 am to 5:15 pm;
Mar. 6:00 am to 6:00 pm; Apr. 5:15 am to 6:30 pm;
May 4:30 am to 7:00 pm; June 4:15 am to 7:30 pm;
July 4:30 am to 7:30 pm; Aug. 5:00 am to 7:00 pm;
Sep. 5:30 am to 6:00 pm; Oct. 6:00 am to 5:15 pm;
Nov. 6:45 am to 4:30 pm; Dec. 7:15 am to 4:15 pm;

4. With the station located at: Eastern Standard Time.

Springfield Massachusetts

5. With the main studio located at:
63 Chestnut Street
Springfield, Massachusetts

The apparatus herein authorized to be used and operated is located at:

Corner of Union Street and Palmer Avenue
West Springfield, Massachusetts

North Lat. 42° 05' 23.8"
West Long. 72° 36' 11.5"

and is described as follows:

GATES RADIO CO., Type BC-5P, Broadcasting Transmitter.

Obstruction marking specifications in accordance with paragraphs 1, 3, 12 and 20 (East Tower) and 1, 2, 12 and 20 (West Tower) of FCC Form 715 attached.

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.

Dated this 20th day of July, 19 61

FEDERAL COMMUNICATIONS COMMISSION,



zwb

Ben F. [Signature]
Acting Secretary

File No. BL-8346 Call Letters W S P R Date 7-20-61

1. DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

DA- 2

No. and Type of Elements: **Two, self-supporting, series excited, vertical radiators.**

Height above Insulators:

Overall Height:

Spacing and Orientation: **311' (145°). Line of towers bears 85° true.**

Non-Directional Antenna: **None used.**

Ground System consists of **120-80' to 250' buried copper radials under east tower;**
120-400' buried copper radials under west tower.

2. THEORETICAL SPECIFICATIONS

East Tower

West Tower

Phasing:	Night	0°	0°
	Day	0°	0°
Field Ratio:	Night	1.0	1.0
	Day	1.0	1.0

3. OPERATING SPECIFICATIONS

Phase Indication:*	Night	-8°	0°
	Day	-8°	0°
Antenna Base Current Ratio:	Night	0.98	1.0
	Day	0.97	1.0
<u>Phase Monitor Sample</u> Current Ratio:	Night	1.0	1.0
	Day	1.0	1.0

*As indicated by Nemo 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, for each pattern.

Field measuring equipment shall be 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 to made.

DESCRIPTION OF AND FIELD INTENSITY AT MONITORING POINTS:

Direction of 60.5° true North. Proceed from WSPR Transmitter site up Union Street extended to Memorial Avenue, thence East across the Memorial Bridge. Right on Columbus Avenue to State Street. Left on State Street to Walnut Street. Thence right on Walnut Street to Cemetery Avenue - Entrance of Springfield Cemetery. Right on Cemetery Avenue approximately .2 miles to the Chapel. The monitor Point is located on road between the Big Monument and Chapel. Distance from antenna 1.66 miles. The field intensity measured at this point should not exceed 45 mv/m Night; 30.6 mv/m Day.

Direction of 275° true North. Proceed from WSPR Transmitter site up Union Street extended to Memorial Avenue, thence west to Agawam Bridge. Right up Springfield Street to O'Briens Corner. Right on Maple Street to Tower Terrace, thence right to Dead End of Tower Terrace House No. 46. Distance from antenna 1.6 miles. The field intensity measured at this point should not exceed 52.5 mv/m Night; 110 mv/m Day.