

RADIO STATION KMUS

OWNED AND OPERATED BY
EASTERN OKLAHOMA BROADCASTING CORPORATION

JAMES E. KEITEL
CHIEF ENGINEER

412½ COURT STREET

MUSKOGEE, OKLAHOMA

March 23, 1951

Mr. Ernest R. Cooper, Editor
National Radio Club
438 East 21st Street
Brooklyn 26, New York

Dear Mr. Cooper:

Thanks again for your fine report of reception on our special program. We were very happy with the results of the program. In fact, we are contemplating a monthly DX broadcast to start sometime in the future. If, and when, this occurs we will try and get it published in your monthly paper as we received numerous requests for operating schedules after our program.

You were right as to switching power at 4:00 AM. I noticed you left us at 3:57 and returned at 4:14. We were unable to get permission to operate 1000 W non-directional for the entire program. Our license is for directional, sunset to 4:00 AM. It was interesting to note where we were heard both 500 and 1000 watts. We have a 3 tower array. The two south towers are 200' and the north tower 300' including 28' W.E. 54A 6 boy for our FM. Incidentally, the FM is a 3KW unit (W.E.) giving an effective radiation of 8.75 KW on 101.5 MC. The 28' FM antenna also radiates our AM signal on non-directional. The north tower is all we use for daytime operation. At night we feed the center and north with the south tower fed as a parasitic. I am enclosing a daytime coverage map with the night-time coverage drawn in ink. This is strictly free hand drawing and mostly guess. We don't have our directional maps available at this time but I drew this up from checking the measurements of our P. of P. records. It isn't accurate by any means but it will give you an idea of our coverage. The inner circle, in ink, is the 5MV/M coverage. The outer, in ink, is the .5MV/M coverage. The two outside circles which are a part of the original map are coverages in daytime and considered accurate. We are protecting KWK, St. Louis, 53°, 340 miles, and KSWO, Lawton, Oklahoma 245°, 185 miles.

For our Frequency checks we use Commercial Radio Monitoring Company in Kansas City, Missouri. They can hear us there during the day well enough to check us so we have no frequency checks when the eastern locals wouldn't be on.

It has been a pleasure answering your questions, and hope I have covered the subject. Feel free at any time to drop me a line if in answering your questions I have raised more.

Yours very truly,

James E. Keitel ^{JK}
James E. Keitel, Chief Engineer

JEK/lw

1,000 WATTS DAY - 500 WATTS NIGHT — FM: 8,700 WATTS
MUTUAL BROADCASTING SYSTEM—OKLAHOMA GROUP BROADCASTERS

CERTIFIED VERIFICATION



DATE Monday, Jan. 15, 1951

TIME 3:39 to 4:22 ^{H.M.} CSJ

LOCATION N Lat. 36° 46' 16"
W Long. 95° 22' 5"

TRANSMITTER Sales BCIE

POWER 500 & 1000 W.

TOWERS 1-300' 2-200'

PROGRAM Special DX

FREQUENCY 1380 KC

REMARKS Thanks for a fine report

RECEPTION VERIFIED BY James C. Kester KMUS CHIEF ENGINEER, February 4, 1951

DX

RADIO STATION KMUS

THE INDIAN CAPITAL OF THE WORLD

MUSKOGEE, OKLAHOMA