



RADIO
1310 KILOCYCLES
5000 WATTS
CBS

TELEVISION
CHANNEL 5
25.1 AURAL-12.6 VISUAL
CBS, DUMONT

P. O. BOX 1139
GREAT FALLS, MONTANA

June 10, 1955

John Sampson
7940 Pacific
Omaha 6, Nebraska

Hello John,

This is to verify your reception of KFBB Radio on June 6, 1955, and thank you for sending us your report. Since we are on Mountain Standard time, the portions of program which you heard were on the air here at 11:21 through 11:36PM, June 5th.

Under separate cover I have had both our radio and TV schedules mailed to you.

KFBB Radio operates on an assigned frequency of 1310 KC with power of 5000 watts, using a Western Electric 355-D-1 transmitter. We operate with non-directional antenna during the daytime and go directional at night.

Our antenna system consists of two vertical steel radiators, spaced 187.7 feet apart on a line bearing 161.5 degrees true. During non-directional operation the N.W. (smaller tower) is grounded. The N.W. tower is a tapered, self-supporting structure 205 feet above the insulators and has one hundred twenty 250 foot radials spaced three degrees apart. The S.E. tower is of even cross-section, is four hundred ~~twenty~~ ^{seventy} feet above the ~~insulator~~ ^{ground} and has one hundred twenty 420 foot radials spaced three degrees apart. Where radials of the two systems intersect, they are bonded. The towers are 3,961 and 4,070 feet above sea level. Time phasing of the directional operation, which you received, has the S.E. radiator leading by ~~135~~ ¹¹⁰ degrees. The small tower is series excited, and the large tower is shunt excited. KFBB TV's antenna is mounted on top of the big tower.

KNOX is directional at night on 1300 KC with 5000 watts. Occasionally WDOD in Chattanooga, 1310 KC, really gets out there. It's possible that was your other QRM.

Here in Great Falls we're right on the route to Scenic Glacier Park, so, if you make a trip up this way, we'll be glad to have you visit us here at the KFBB Radio and Television Center.

Sincerely,

A. J. Lopuck

Serving Montana's People Since 1922 Chief Engineer