

KOLE 1340 AM

Gulf States Broadcasting Co., Inc.

12 NOVEMBER 1975

MR. CARL W. DABELSTEIN
3139 NORTH 65TH STREET
LINCOLN, NEBRASKA 68505

DEAR MR. DABELSTEIN:

THANK YOU VERY MUCH FOR YOUR RECEPTION REPORT. ALL DETAILS CHECK OUT SATISFACTORILY AND I AM HAPPY TO BE ABLE TO VERIFY THAT YOU DID INDEED RECEIVE KOLE FROM 1:22 AM TO 1:30 AM ON 10 NOVEMBER 1975, CENTRAL STANDARD TIME.

KOLE OPERATES ON 1340 KHZ, 24 HOURS A DAY, SEVEN DAYS A WEEK WITH NO SCHEDULED SILENT PERIOD. AT THE TIME OF YOUR RECEPTION, POWER OUTPUT WAS 250 WATTS.

KOLE'S TRANSMITTER SITE IS LOCATED WITHIN THE CITY OF PORT ARTHUR, TEXAS ON THE GULF OF MEXICO, NEAR THE TEXAS/LOUISIANA BORDER. THE TRANSMITTER SITE IS ADJACENT TO A LEVEE AND THE GROUND SYSTEM IS PRACTICALLY ALWAYS UNDER WATER. OUR COLLINS 20V2 TRANSMITTER OPERATES WITH A POWER OUTPUT OF 1.0 KW DAYTIME, 0.25 KW NIGHT TIME, FEEDING A SERIES EXCITED QUARTER WAVE, NON DIRECTIONAL VERTICAL RADIATOR. OUR STUDIO IS IN THE REPUBLIC OF TEXAS SAVINGS BUILDING IN DOWNTOWN PORT ARTHUR, WITH AUDIO CARRIED TO THE TRANSMITTER SITE VIA A 15 KHZ EQUALIZED TELEPHONE PAIR. WE UTILIZE QUITE EXTENSIVE AUDIO PROCESSING TO MAINTAIN THE HIGHEST POSSIBLE AVERAGE MODULATION LEVEL, WITH AUDIO BASE BAND SHAPING TO OPTIMIZE SIDEBAND POWER WITHIN THE PASSBAND OF THE AVERAGE CONSUMER RADIO, COMPRESSION UP TO 45 DB IN ONE AGC AND TWO SEPARATE LIMITER AMPLIFIERS, AND ASYMETRICAL MODULATION UP TO 125 PERCENT ON POSITIVE PEAKS. OUR GROUNDWAVE COVERAGE AREA IS QUITE EXTENSIVE, THE STATION SERVING A TRIANGLE OF THE CITIES OF BEAUMONT, PORT ARTHUR AND ORANGE, TEXAS. TO COVER THIS ENTIRE AREA AT NIGHT WITH ONLY 250 WATTS NECESSITATES THE HEAVY AUDIO PROCESSING. I AM PARTICULARLY INTERESTED IN RECEIVING RECEPTION REPORTS, AS THE SAME MODULATION CONDITIONS THAT MAKE OUR SKYWAVE SIGNAL MORE DOMINANT IN THE 1340 CLUTTER ALSO HELP OUR LOCAL COVERAGE SITUATION...AND REPORTS FROM DXERS GIVE ME SOME IDEA OF HOW MUCH OUR CONTINUED EFFORTS IN THIS AREA ARE IMPROVING OUR SIGNAL.

I AM ALWAYS HAPPY TO VERIFY ACCURATE REPORTS, AS I AM MYSELF AN ARDENT BCB DXER AND RADIO AMATEUR AS WELL (WA51EX AND FORMERLY ET3USA AND 9F3USA/P1). I HAVE PLANS FOR SEVERAL SUNDAY NIGHT HIGH POWER TESTS TO MAKE ADJUSTMENTS TO OUR MODULATOR SECTION UNDER DAYTIME CONDITIONS PLANNED. I AM DOING A STUDY ON THE EFFECTS OF VARIOUS KINDS OF ANTENNA LOADING ON HIGH LEVEL POSITIVE PEAK MODULATION. ALL CORRECT REPORTS WILL BE INDIVIDUALLY ANSWERED AND VERIFIED.

THANKS AGAIN FOR THE REPORT AND GOOD DXING.

73,


ROLAND RICHTER/WA51EX
CHIEF ENGINEER/KOLE RADIO