

KCTC-AM 1320 KHZ

SACRAMENTO, CALIFORNIA U.S.A.

DATE: 1-27-97

DEAR SWL\DX FAN: JOHN SAMPSON

IT IS MY PLEASURE TO CONFIRM YOUR RECEPTION OF A.M. RADIO STATION KCTC LOCATED IN SACRAMENTO, CALIFORNIA, U.S.A.

KCTC IS A 5000-WATT STATION THAT TRANSMITS FROM TWO SITES NEAR SACRAMENTO. SITE NUMBER ONE IS OUR DAYTIME SITE AND LOCATED ABOUT 5 MILES NORTH/WEST OF SACRAMENTO. THE SIGNAL IS DIRECTIONAL AND RADIATES IN A NORTH/SOUTH PATTERN. THIS DIRECTIONAL SIGNAL IS FORMED BY THREE TOWERS. TOWER NUMBER ONE IS 510 FEET TALL, TOWER NUMBER TWO IS 410 FEET AND TOWER NUMBER THREE IS 190 FEET.

SITE NUMBER TWO IS OUR NIGHTTIME SITE AND LOCATED ABOUT 15 MILES NORTH/EAST OF SACRAMENTO. THIS SIGNAL IS ALSO DIRECTIONAL BUT TRANSMITS A MAIN LOBE TOWARD THE SOUTH/WEST. THIS SITE USES FOUR 250 FOOT TOWERS IN A LINE WITH ABOUT 300 FEET SPACING BETWEEN THE TOWERS.

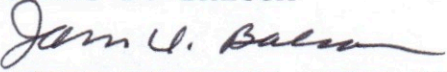
DIRECTIONAL ANTENNAS ARE USED TO PROTECT OTHER STATIONS IN THE U.S., OPERATING ON THE SAME FREQUENCY, FROM INTERFERING WITH EACH OTHER.

THE DAYTIME TRANSMITTER IS ALL SOLID STATE, MEANING THAT NO TUBES ARE USED IN THE TRANSMITTER. SIXTY FOUR HIGH POWER TRANSISTORS MAKE UP THE FINAL 5000 WATT AMPLIFIER. THE NIGHTTIME TRANSMITTER IS SOLID STATE UP TO THE FINAL AMPLIFIER AND MODULATOR. THOSE CIRCUITS USE A TOTAL OF TWO TUBES. BOTH SITES TRANSMIT IN STEREO USING THE MOTOROLA C-QUAM METHOD.

SACRAMENTO IS LOCATED IN CENTRAL CALIFORNIA ABOUT 100 MILES EAST OF SAN FRANCISCO. IT IS THE CAPITOL OF CALIFORNIA AND LOCATED IN ONE OF THE MOST FERTILE AGRICULTURAL AREAS OF THE STATE. MILD WINTERS AND HOT SUMMERS HELP TO PRODUCE MANY CROPS, MAINLY RICE, CORN AND TOMATOES. ABUNDANT LAKES AND RIVERS PROVIDE WATER SPORTS AND EXCELLENT FISHING. THE NEARBY SIERRA NEVADA MOUNTAINS PROVIDE SKIING WITHIN A ONE HOUR DRIVE AND EXCELLENT TROUT FISHING IN SUMMER AND FALL.

WE LOOK FORWARD TO RECEIVING YOUR SWL REPORTS AND WISH YOU GOOD DX'ING LUCK IN THE FUTURE.

JAMES D. BALCOM



CHIEF ENGINEER KCTC-AM/KYMX-FM

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