

# KCTC-AM

## 1320 KHZ

DATE: 3-8-94

DEAR SWL/DX FAN *Bill Nittler*

IT IS MY PLEASURE TO CONFIRM YOUR RECEPTION OF AM RADIO STATION KCTC LOCATED IN SACRAMENTO, CALIFORNIA, USA.

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

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

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

THE DAYTIME TRANSMITTER IS ALL SOLID STATE, MEANING THAT THERE ARE NO TUBES USED IN THE TRANSMITTER. 64 HIGH POWER TRANSISTORS MAKE UP THE FINAL AMPLIFIER. THE NIGHTTIME TRANSMITTER IS SOLID STATE UP TO THE FINAL AMPLIFIER AND MODULATOR. THOSE CIRCUITS USE A TOTAL OF TWO TUBES.

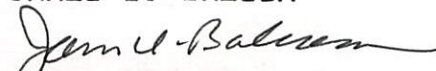
BOTH SITES TRANSMIT IN STEREO USING THE MOTOROLA C-QUAM METHOD.

THE STATION IS OWNED BY TRIBUNE BROADCASTING CO. OF CHICAGO.

SACRAMENTO IS LOCATED IN CENTRAL CALIFORNIA ABOUT 100 MILES EAST OF SAN FRANCISCO. IT IS THE CAPITOL OF CALIFORNIA AND IS LOCATED IN ONE OF THE MOST FERTILE AGRICULTURAL AREAS OF THE STATE. MILD WINTERS AND HOT SUMMERS HELP TO PRODUCE MANY CROPS SOME OF WHICH ARE TOMATOES, RICE AND CORN. 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