

**FEDERAL COMMUNICATIONS COMMISSION**  
**445 TWELFTH STREET SW**  
**WASHINGTON DC 20554**

MEDIA BUREAU  
AUDIO DIVISION  
APPLICATION STATUS: (202) 418-2730  
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August 28, 2014

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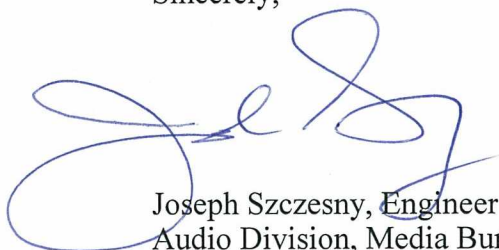
Re: KTCT(AM), San Mateo, California  
Facility Identification Number : 51188  
Susquehanna Radio Corporation (SRC)  
Special Temporary Authorization (STA)  
BESTA-20140806AFS

Dear Mr. Paper:

This is in reference to the request filed on August 6, 2014. SRC requests further extension of the STA granted on June 15, 1999, and modified on February 11, 2004, to operate with authorized daytime facilities during nighttime hours to overcome interference from station XED, Mexicali, Baja California, Mexico.<sup>1</sup> In support, SRC states that the interference continues.

Accordingly, the extension of STA IS HEREBY GRANTED, subject to the following condition: "Operation with the facilities specified herein is subject to modification, suspension or termination without right to hearing, if found by the Commission to be necessary in order to conform to the provisions of the registration process of the ITU, or to bilateral or other multilateral agreements between the United States and any other country." Station KTCT may continue to operate in accordance with the attached Directional Antenna Specifications. It will be necessary to reduce power or cease STA operation if complaints of interference are received. SRC must use whatever means are necessary to protect workers and the public from exposure to radio frequency radiation in excess of the Commission's exposure guidelines. See 47 CFR § 1.1310. This authority expires on **March 2, 2015**.

Sincerely,



Joseph Szczesny, Engineer  
Audio Division, Media Bureau

Attachment: Directional Antenna Specifications  
cc: Richard S. Denning, VP & GC, SRC

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<sup>1</sup> KTCT is licensed for DA operation on 1050 kHz with 50 kW day and 10 kW night.

**SPECIAL TEMPORARY AUTHORITY**

**SPECIFICATIONS FOR NIGHTTIME DIRECTIONAL OPERATION OF  
KTCT (AM), San Mateo, CA**

**Frequency:** 1050 kHz      **Nominal Power:** 50 kW      **Antenna Input Power:** 52.6 kW

**Common Point Current:** 32.43 Amperes      **Common Point Resistance:** 50 ohms

**Transmitter site coordinates (NAD 1927):**    37° 39' 02" N, 122° 09' 02" W

**Description of Directional Antenna System:**

**Number and Type of Elements:**    Five (5) vertical, self-supporting, series-excited steel radiators. (Note: Tower #5 is not used in this pattern.)

**Height above Insulators:**        61.0 meters (76.9°)

**Overall Height:**                    62.5 meters

**Ground System:**                    120 radials 72 m in length except where intersecting radials are shortened and bonded, plus 120 radials 15.2 m in length, about the base of each tower.

**Spacing and Orientation:**        With Tower #3 (WC) as a reference, Tower #1 (E) is spaced 180.0° (142.8 m) on a line bearing 80.8° ; Tower #2 (EC) is spaced 90.0° (71.4 m) on a line bearing 81.8°; Tower #4 (W) is spaced 90.5° (71.8 m) on a line bearing 253.3°; Tower #5 (N) is spaced 102.4° (81.2 m) on a line bearing 327.8°.

**Theoretical RMS:**                    2327.6 mV/m at 1 km

**Standard RMS:**                      2445.25 mV/m at 1 km

**Q factor:**                            75.1 mV/m

**SPECIAL TEMPORARY AUTHORITY**

**SPECIFICATIONS FOR NIGHTTIME DIRECTIONAL OPERATION OF  
KTCT (AM), San Mateo, CA**

<b>Tower:</b>	<b>#1(E)</b>	<b>#2 (EC)</b>	<b>#3 (WC)</b>	<b>#4(W)</b>
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**Theoretical Parameters:**

Field Ratio:	0.402	1.0	1.0	0.357
Phasing (degrees):	-95.2	126.6	0.0	-112.7

**Operating Parameters\***

Phase (degrees):	-91.4	125.2	0.0	-109.2
Current Ratio:	0.417	0.906	1.00	0.304

\*As indicated by Potomac Instruments AM-1901 antenna Monitor.

**Antenna sampling system approved under Section 73.68 (b) of the rules.**

**Descriptions Of And Field Intensities At Monitor Points:**

**Direction of 52.5° True North:** North side of Grove Way, west end of Cherryland Park, 200' into park at northwest corner of basketball court. Distance from the transmitter site is 4.83 km. The field intensity at this point shall not exceed **36.0 mV/m**.

**Direction of 122° True North:** Northwest corner of the intersection of Pueblo springs Avenue and Pueblo Lake Avenue, at curb, next to fire hydrant. Distance from the transmitter site is 5.63 km. The field intensity at this point shall not exceed **25.6 mV/m**.