TECHNICAL EXHIBIT REQUEST FOR SPECIAL TEMPORARY AUTHORITY (STA) CLASS A STATION KDJT-CA FACILITY ID 52888 SALINAS-MONTEREY, CALIFORNIA CH 33 10 KW (MAX-DA)

#### Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of request for Special Temporary Authority (STA), pursuant to Section 73.1635, to operate KDTJ-CA on channel 33 with facilities that differ from its licensed facility.

Station KDJT-CA is currently licensed (BLTTL-19931014JE) to operate on NTSC channel 33 at Salinas-Monterey with a directional antenna maximum effective radiated power (ERP) of 29.1 kW and an antenna radiation center height above mean sea level (RCAMSL) of 760 meters. It is licensed to operate with an Antenna Concepts model ACB16DR "narrow cardioid" type antenna with a main lobe orientation of 160° true. KDJT-CA also has an STA operation (BSTA-20060822AIZ) to operate on NTSC channel 33 at Salinas-Monterey with a directional ERP of 10 kW and an RCAMSL of 980.8 meters from a different site. This STA request will replace KDJT-CA's current STA.

## Response to Paragraph 8 and Proposed STA facilities

Class A station KDJT-CA proposes to change its directional antenna system and increase its RCAMSL. Specifically, this instant STA request proposes operation on channel 33 with a maximum directional ERP of 10 kilowatts, an RCAMSL of 1019.8 meters, and employing a Dielectric TLP-8M composite directional antenna with a main lobe orientation of 265° true at the following coordinates (ASR 1215158):

> North Latitude 36° 45' 23" West Longitude 121° 30' 05"

No other changes are proposed. It is believed the proposed STA operation is in the public interest as it will permit KDJT-CA to continue to provide service to its Spanish language viewers. Figure 1 is a map showing the licensed and proposed 74 dBu contours for Class A station KDJT-CA.

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TV Broadcast Analog Protection

A study has been conducted using the provisions of Section 74.705 which indicates that the proposed KDJT-CA operation will not create prohibited interference to other existing, authorized or proposed NTSC full-power stations.

### DTV Station Protection

Calculations based on OET Bulletin No. 69 indicate that the proposed KDJT-CA operation on channel 33 will not cause prohibited interference to any allotted, proposed or actual DTV operating facilities on channels 32, 33 or 34.<sup>1</sup>

#### LPTV/TV Translator/Class A Protection

A study has been conducted using the provisions of Section 74.707 which indicates that the KDJT-CA proposal will not create prohibited interference to other existing, authorized or proposed LPTV, TV translator, or Class A stations.

#### Environmental Protection Act

The proposed KDJT-CA facilities were evaluated in terms of potential radiofrequency radiation exposure at ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation."<sup>2</sup> The calculated power density at 2 meters above ground level at the base of the tower was calculated using the appropriate equation of the Bulletin. As shown on Figure 2 (antenna vertical relative pattern), the maximum vertical relative field for depression angles towards the tower base (-60° to -90°) is less than 0.30. Therefore, using a vertical relative field value of 0.30, a peak visual effective radiated power of 10 kW, 10 percent

<sup>&</sup>lt;sup>1</sup> The du Treil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. <u>A nominal</u> <u>grid size resolution of 1 km was employed</u>. A Sun based processor computer system was employed.

<sup>&</sup>lt;sup>2</sup> See Report and Order in ET Docket 93-62, FCC 96-326, adopted August 1, 1996, 11 FCC Rcd 15123 (1997). See also First Memorandum Opinion and Order, ET Docket 93-62, FCC 96-487, adopted December 23, 1996, 11 FCC Rcd 17512 (1997), and Second Memorandum Opinion and Order and Notice of Proposed Rulemaking, ET Docket 93-62, FCC 97-303, adopted August 25, 1997.

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aural power, and an antenna center of radiation height above ground level of 82 meters, the calculated power density at 2 meters above ground level at the base of the tower is 0.0023 milliwatt per square centimeter ( $mW/cm^2$ ), or 0.6 percent of the Commission's recommended limit for an "uncontrolled" environment (0.39  $mW/cm^2$  for TV channel 33).

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, an agreement will be in place to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.

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November 20, 2006

Figure 1



du Treil, Lundin & Rackley, Inc. Sarasota, Florida



Date Call Letters Location Customer Antenna Type 10 Oct 2006 KDJT-CA Channel 33 Monterey, CA Entravision LLC TLP-8M

# **ELEVATION PATTERN**

RMS Gain at Main Lobe RMS Gain at Horizontal Calculated / Measured							8.0 (9.03 dB) 7.5 (8.75 dB) Calculated					Beam Tilt Frequency Drawing #			1. 58 08	1.00 Degrees 587.00 MHz 08L080100-90				
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~																				
9																				



Remarks: