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**Engineering Statement  
Post-Auction Technical Facilities for KOCE-TV  
Channel 18 at Huntington Beach, CA  
October 2017**

**Channel Sharing Application**

This Engineering Statement has been prepared on behalf of KOCE-TV Foundation, licensee of digital television station KOCE-TV at Huntington Beach, California. KOCE-TV presently operates on Channel 48. The instant application is being filed pursuant to the instructions in the Commission's Public Notice of January 27, 2017 (*Incentive Auction Task Force and Media Bureau Announce Procedures for the Post-Incentive Auction Broadcast Transition*, DA 17-106), specifying the station's post-auction facilities on Channel 18, as a channel-sharing operation with KSCI(TV) Long Beach.

The technical facilities specified in this Form 2100 application exactly match those specified in the KSCI license BMLCDT-20140206ACV. (There is a slight discrepancy in the NAD83 coordinates of KSCI and KOCE-TV, resulting solely from the fact that KSCI is licensed in NAD27 whole-second coordinates, while this application specifies the NAD83 coordinates of ASR 1213941 to the nearest tenth of a second.)

	<b>Technical Parameters from Proposed Form 2100</b>
<b>Channel</b>	18
<b>ERP</b>	700 kW
<b>HAAT</b>	899 meters
<b>Antenna</b>	ERI ATW26H6-ETC3-18S directional
<b>Coordinates (NAD83)</b>	34-12-47.9 118-03-44.3
<b>ASR</b>	1213941

**Interference Study**

The proposed technical facilities exactly match those of the licensed KSCI facility, with which KOCE-TV has entered into a channel sharing agreement. Therefore it is not necessary to perform a detailed interference study for the proposed facility.

**Facilities Proposed**

The proposed operation will be on Channel 18 with a maximum lobe effective radiated power of 700 kilowatts (H pol) and 406 kW (V pol). Operation is proposed with the existing ERI model ATW26H6-ETC3-18S antenna, which is mounted on an existing tower at the Mount Harvard communications site. The antenna has 1.6 degrees of electrical beam tilt, and 1.6 degrees of mechanical beam tilt at 220 degrees True.

**RF Exposure Considerations**

The proposed KOCE-TV facility will be a channel-sharing operation with the existing licensed KSCI Channel 18 facility at Mount Harvard. Thus there will be no cognizable change in the existing ground-level power density levels at the transmitter site, which have previously been demonstrated to comply with the Commission's applicable MPE levels.

Indeed, two stations at the Mount Harvard site (KBEH and KRCA) have relinquished their spectrum as a part of the Incentive Auction, and so the ground-level power density levels at the site will ultimately be reduced.

The Mount Harvard communications site is located on a steep mountaintop with no public facilities. Vehicle access is restricted by a series of three locked gates.