

TECHNICAL SUMMARY
SPECIAL TEMPORARY AUTHORITY REQUEST
LOW POWER TV STATION KWWB-LP
MESQUITE, NEVADA
DIGITAL CHANNEL 29 1 KW (DA)

1. The instant application is a special temporary authority (STA) request for KWWB-LP currently on “out-of-core” channel 45 at Mesquite, Nevada (BLTTL-20070309ADK). It is proposed to operate on “in core” channel 29 with a directional antenna maximum effective radiated power (ERP) of 1 kW using a Scala model SL-8 directional antenna oriented at 41 degrees true. The antenna radiation center height will be 2352 m AMSL. There will be no change in the overall structure height (no ASRN). The proposed STA facilities have also been set forth in a pending special displacement window application, LMS File No. 0000052515. Furthermore, it is noted that the STA form specifies KWWB-LP’s current channel 45, which can’t be changed within the form, and not the proposed channel 29. In addition, while KWWB-LP holds a license to operate in the analog mode, the instant STA proposes that the Station operate in the digital mode. The Commission has, in numerous other instances, authorized a licensed analog station to operate in the digital mode under the terms of an STA.

2. Interference Compliance: As indicated in the attached *TVStudy* analysis, KWWB-LP’s proposed channel 29 operation meets the FCC’s interference protection requirements with respect to all protected facilities based on both a pre-transition and post-transition environment. Specifically, the proposal will not cause interference to the predicted service of: (1) all other primary users in the repacked TV Band or in adjacent bands including land mobile operations, (2) licenses and valid construction permits for LPTV stations, (3) licenses and valid construction permits for full power and Class A stations that were not reassigned, and (4) the post-auction channels of reassigned full power and Class A stations as reflected in the *Closing and Reassignment Public Notice*. A cell size of 1.0 km and a profile resolution of 1.0 points/km were utilized for the *TVStudy* analysis.

3. RFR Compliance: The proposed facilities were evaluated in terms of potential radiofrequency radiation (RFR) exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna will be located 11 meters above ground level. The total DTV ERP is 1 kW (horizontal polarization). A greater than expected vertical

plane relative field value of 0.25 is presumed for the antenna's downward radiation (-60° to -90° elevation, see attached antenna information). The calculated power density at a point 2 meters above ground level is 25.8 uW/cm² which is 6.9% of the FCC's recommended limit of 375.3 uW/cm² for channel 29 for an uncontrolled environment. If necessary, measurements will be made to substantiate compliance with the FCC's requirements with regard to radio frequency radiation exposure.

Access to the transmitting site will be restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a formal RFR protection protocol is in effect in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measure will be taken to assure worker safety with respect to RFR exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.