

Third-Adjacent Channel Protection

The proposed facility is located within the 54 dBu contour of third-adjacent channel station KLSB (248B, FCC ID 3159), Goleta, California which is protected in accordance with §74.1204(d) at a +40 dB level. The proposed antenna will be mounted 6 meters above ground on an existing tower.

KLSB is located 26.6 kilometers distant with a calculated field of 80.6 dBu at the proposed site based on an ERP of 16 KW and height above average terrain along a 104.5° radial from KLSB to the proposed site of 548.4 meters. The translator would require a field intensity of 120.6 dBu to cause interference to the KLSB signal. Using the free-space formula to calculate distance to the proposed 120.6 dBu using an ERP of 250 watts we arrive at a worst-case potential interference area radius around the antenna of 104 meters. There is zero population inside this predicted interference contours and the proposed operation is in compliance with §74.1204(d). See below.

