

Permissible ERP Analysis
UniMas San Francisco LLC
KFSF-DT Vallejo, CA
Ch 34 850 kW-DA 499 m

At a HAAT of 499 meters, the permissible ERP is 515 kW, as noted on the TVStudy data output file also attached to the instant application. However, five other stations operating from the same Sutro Tower transmitter site have ERPs and terrain-limited service areas larger than that proposed for KFSF-DT. Under §73.622(f)(5) of the Commission's rules, a station can propose an ERP/HAAT combination that enables it to approach the same geographic service area as that of the largest station in the market. The largest terrain-limited coverage by any UHF station at Sutro Tower is that of KQED, at 32,151 square kilometers, as shown on the attached TVStudy output (configured for "desired" stations only, without "undesired" interfering stations). The proposed terrain-limited coverage by KFSF-DT is 29,376 square kilometers, well below that of KQED.

KFSF_Max

tvstudy v2.2.4 (Z2Qqz3)

Database: local host, Station Data: LMS TV 2017-11-29 (2), Study: SF Max, Model: Longley-Rice
Start: 2017.11.29 15:45:58

Scenario

Desired station

Service area

Terrain-limited

SF 1000 kW Comparison

KPIX-TV D29 DT LIC SAN FRANCISCO, CA	37642.7	8,340,753	31937.2	7,480,594
KQED D30 DT LIC SAN FRANCISCO, CA	37935.5	8,195,398	32151.2	7,283,828
KRON-TV D38 DT LIC SAN FRANCISCO, CA	36917.3	8,050,508	30928.2	7,087,419
KCNS D39 DT LIC SAN FRANCISCO, CA	36578.0	8,048,427	30605.6	7,069,903
KBCW D45 DT LIC SAN FRANCISCO, CA	36016.9	8,020,424	29622.3	6,962,363
KFSF-DT D34 DT LIC VALLEJO, CA	35304.9	7,654,877	29375.7	6,692,007