



Engineering Statement
Application to Operate an ATSC 3.0 (NextGenTV) Station
KCOP Los Angeles, CA
FCC Facility ID # 33742
August 3, 2022

This Engineering Statement has been prepared on behalf of Fox Television Stations, LLC. (FOX), licensee of Full Power Digital Television Station KCOP at Los Angeles, CA. (Los Angeles DMA). The statement was prepared in support of an application to request authority transmit a NextGenTV (ATSC 3.0) signal utilizing its existing transmission facilities. (Los Angeles DMA).

In order to comply with the FCC Rules regarding ATSC 1.0 coverage when it converts its facilities to ATSC 3.0, KCOP proposes to partner with full power digital television station KTLA (FCC Facility ID # 35670) also licensed to Los Angeles, CA and located in the Los Angeles DMA. This will enable viewers to continue to receive KCOP's primary broadcast service in ATSC 1.0.

As shown on the attached map (Figure 1), both stations are located within the Los Angeles DMA per the requirements of 47 CFR §73.3081(c). The transmitter facilities of the two stations are located on Mount Wilson near Los Angeles, CA.

The proposed ATSC 3.0 coverage contour will be the same as that of its current ATSC 1.0 contour. Furthermore, it is demonstrated that the coverage contour of the host ATSC 1.0 simulcast station, KTLA, encompasses a significant portion of the current ATSC 1.0 and proposed ATSC 3.0 coverage contours of KCOP.

In addition, a TVStudy analysis performed using the parameters of KTLA to predict the service inside the KCOP noise limited contour indicates the service loss to be only 4.45% (See Figure 2). Based upon this small service loss (>5%) the application should be eligible for expedited processing per 47 CFR §73.3801(f)(5).

KCOP will transmit both its ATSC 1.0 and ATSC 3.0 signals in compliance with the FCC Rules as required by 47 CFR §73.682(f) and 47 CFR §73.682(f)(2).

August 3, 2022

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Figure 2

**Predicted Service Comparison
KCOP CH 13 Los Angeles, CA vs KTLA CH 35 (Inside KCOP NLC) Los Angeles, CA**

State	County	KCOP-TV Licensed ERP 120 kW DA HAAT 904 m		KTLA Licensed ERP 1,000 kW DA HAAT 981 m		Gain / Loss	
		Population	Households	Population	Households	Population	Households
CA	KERN	42,834	15,555	34,201	12,382	-8,633	-3,173
CA	LOS ANGELES	9,814,978	3,239,734	9,444,195	3,125,919	-370,783	-113,815
CA	ORANGE	3,010,222	992,776	3,010,208	992,771	-14	-5
CA	RIVERSIDE	1,732,011	520,340	1,666,461	500,938	-65,550	-19,402
CA	SAN BERNARDINO	1,653,462	485,847	1,420,075	415,312	-233,387	-70,535
CA	SAN DIEGO	458,794	152,573	412,265	139,061	-46,529	-13,512
CA	SANTA BARBARA	958	324	893	290	-65	-34
CA	VENTURA	807,197	260,977	752,589	243,314	-54,608	-17,663
TOTALS		17,520,456	5,668,126	16,740,887	5,429,987	-779,569	-238,139