

Engineering Statement
Sacramento Television Stations, Inc
KMAX-TV(STA) Sacramento, California
Facility ID 51499
Ch. 24 600 kW 591.1 m

Sacramento Television Stations, Inc (Paramount), seeks special temporary authority (STA) to operate the licensed KMAX-TV Sacramento, California main antenna with an effective radiated power (ERP) of 600 kW for three months. This Statement explains the circumstances and provides allocations, environmental and radiofrequency factors related to the proposal.

The main KMAX-TV transmitter facility started exhibiting reliability problems earlier this fall. At that time, KMAX-TV began using its licensed auxiliary antenna, transmitter, and site to assure uninterrupted service to the public.¹

Identifying and correcting the main site problem has been unusually elusive. During the ongoing effort, it has been determined that the main site is reliable when operated at the reduced 600 kW ERP proposed herein. As shown in Figure 1, coverage in this mode is superior to that of the licensed auxiliary antenna. Therefore, Paramount seeks an STA to operate in this mode while the repair efforts continue.

The proposed facility provides principal community coverage to Sacramento without extending noise-limited coverage beyond that of the presently licensed main KOVR antenna. Likewise, there will be no increase in field strength toward the FCC monitoring station at Livermore, California. With no AM transmitter sites within 3 kilometers of the proposed facility, the FCC Rule regarding protection of AM station antenna systems will not be triggered.² Thus, it is believed that the proposed facility satisfies all allocation matters.

As the STA requires no construction and represents a slight reduction in power density at all locations, it can be seen that there will be no environmental factors. Furthermore, exposure levels will be proportionally less than that of the licensed facility.

¹ Please see FCC file number 0000160347.

² Please See FCC Rule §1.30002.

