

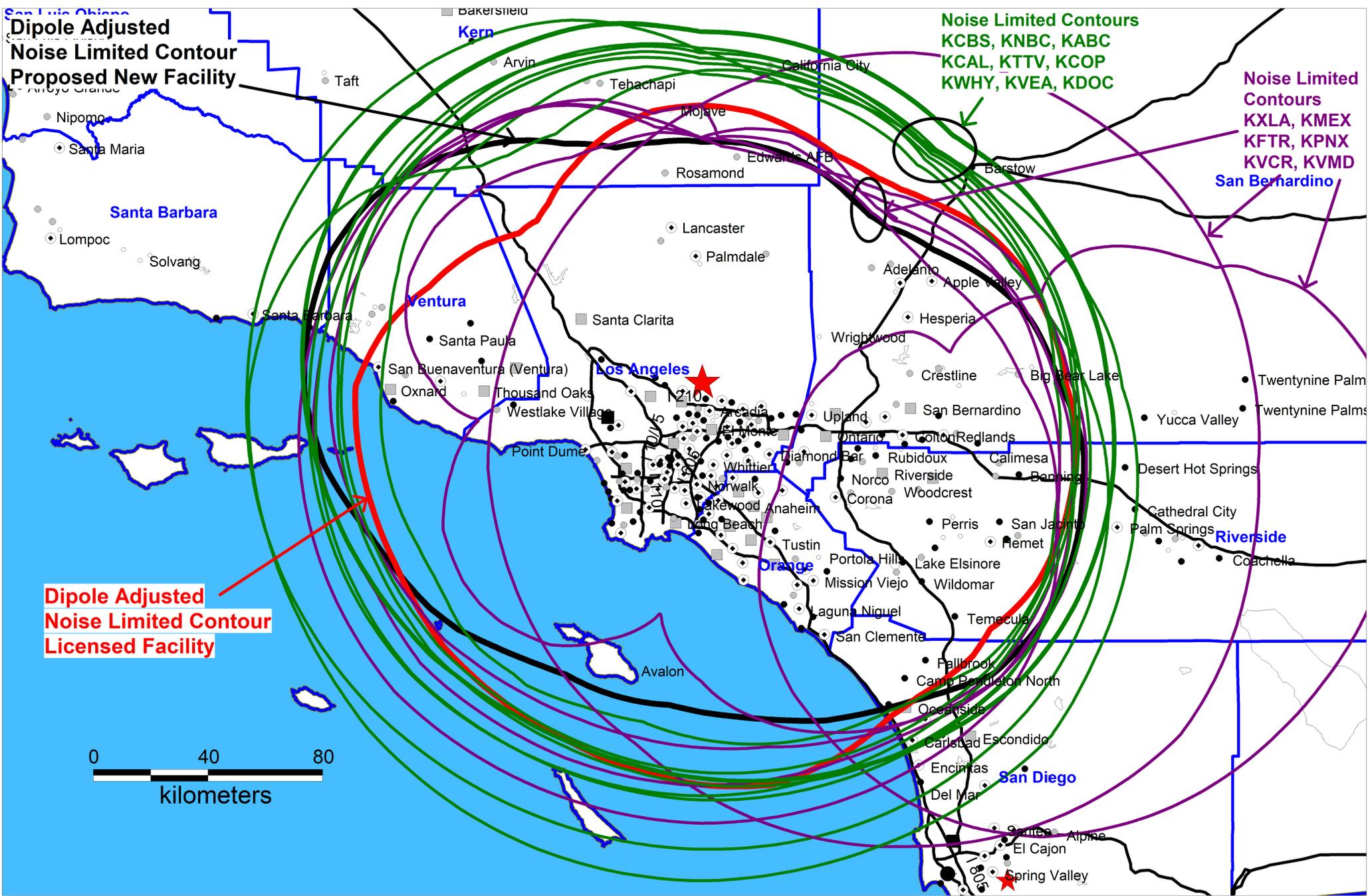
**Additional Engineering Statement  
Modification of Licensed Facility  
KSCI Channel 18 Long Beach, CA  
February 17, 2021**

The purpose of this additional engineering statement is to address the gains and losses created by the small move proposed in application 0000129067. The application proposes moving the station 1.18 km from Mt. Harvard to Mt. Wilson, increasing the effective radiated power (ERP) from 700 kW to 1,000 kW and increasing the radiation center above mean sea level (RCAMSL) from 1,704.5 m to 1,768.2 m.

As a result of the proposed move, the predicted interference free service area will increase from 26,933.0 square km to 28,705.2 square km (6.58% increase) while the predicted interference free service population will also increase from 15,813,031 to 16,054,243 (1.53% increase).

Although the overall predicted interference free service area will increase, there are some differences in the area within the noise limited contours (NLC) of the two facilities. These differences are due to a change in the antenna pattern, orientation and beam tilt needed for coverage and interference considerations and terrain path profile differences related to the site change. This resulted in the NLC of the proposed new facility not extending as far as the licensed facility NLC in areas to the north and northeast much of which is sparsely populated. However, as shown in the map below the loss areas are covered by multiple other full-service stations. There are nine stations that cover essentially all of the loss area while an additional six stations cover portions of the loss area. Therefore, the loss area should be well served by numerous other stations.

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**KSCI Channel 18 Long Beach, CA - Noise Limited Contours  
 Licensed Facility - RED Proposed New Facility - BLACK**

**Noise Limited Contours (GREEN)**  
 Stations Covering Most if not All Loss Area Between licensed KSCI (RED) & Proposed (BLACK) Noise Limited Contours

**Noise Limited Contours (Purple)**  
 Stations Covering Portions of Loss Area Between licensed KSCI (RED) & Proposed (BLACK) Noise Limited Contours