

TECHNICAL STATEMENT  
CONCERNING POPULATION SERVICE OF KESQ-DT (STA)  
PREPARED FOR  
TELEVISION STATION KESQ-DT  
PALM SPRINGS, CALIFORNIA  
CHANNEL 42

This Technical Statement was prepared on behalf of KESQ-DT, Palm Springs, California concerning its service population as it relates to its request for Special Temporary Authority (STA) for its post-transition operation.

KESQ-TV is licensed for operation on Channel 42 with a maximum directional peak visual effective radiated power (ERP) of 316 kW and an antenna height above average terrain (HAAT) of 227 m (See FCC File No. BLCT-20050727AHL). A study was conducted of the Grade B service population for the KESQ-TV licensed facility using the FCC Office of Engineering and Technology Bulletin No. 69 (OET-69) Longley-Rice methodology. The 2000 Census was employed in these calculations and all others reported herein. The OET-69 methodology takes into consideration losses due to terrain and predicted interference. Based on the OET-69 methodology, the net KESQ-TV service population is 333,336.

The KESQ-DT proposed STA facility will operate with a maximum ERP of 42 kW (horizontally polarized) and 10.5 kW (vertically polarized) with an antenna HAAT of 227 m. (An elliptically polarized antenna will be employed.) Using the OET-69 methodology, the noise-limited service area for the KESQ-DT STA facility will contain a net population of 367,441. Therefore, the proposed KESQ-DT STA facility will provide service to 110% of the population within the KESQ-TV Grade B service area.

In addition, a study was conducted over the entire KESQ-TV analog Grade B service area to determine if there would be any populated areas subject to loss of analog service as a result of the KESQ-DT STA operation. This study was conducted according to the OET-69 analysis procedures. The study revealed that there would be no cells of area currently receiving KESQ-TV that would lose service from the KESQ-DT STA operation. Therefore, it is concluded that the KESQ-DT STA operation will provide service to 100% of the KESQ-TV service population.

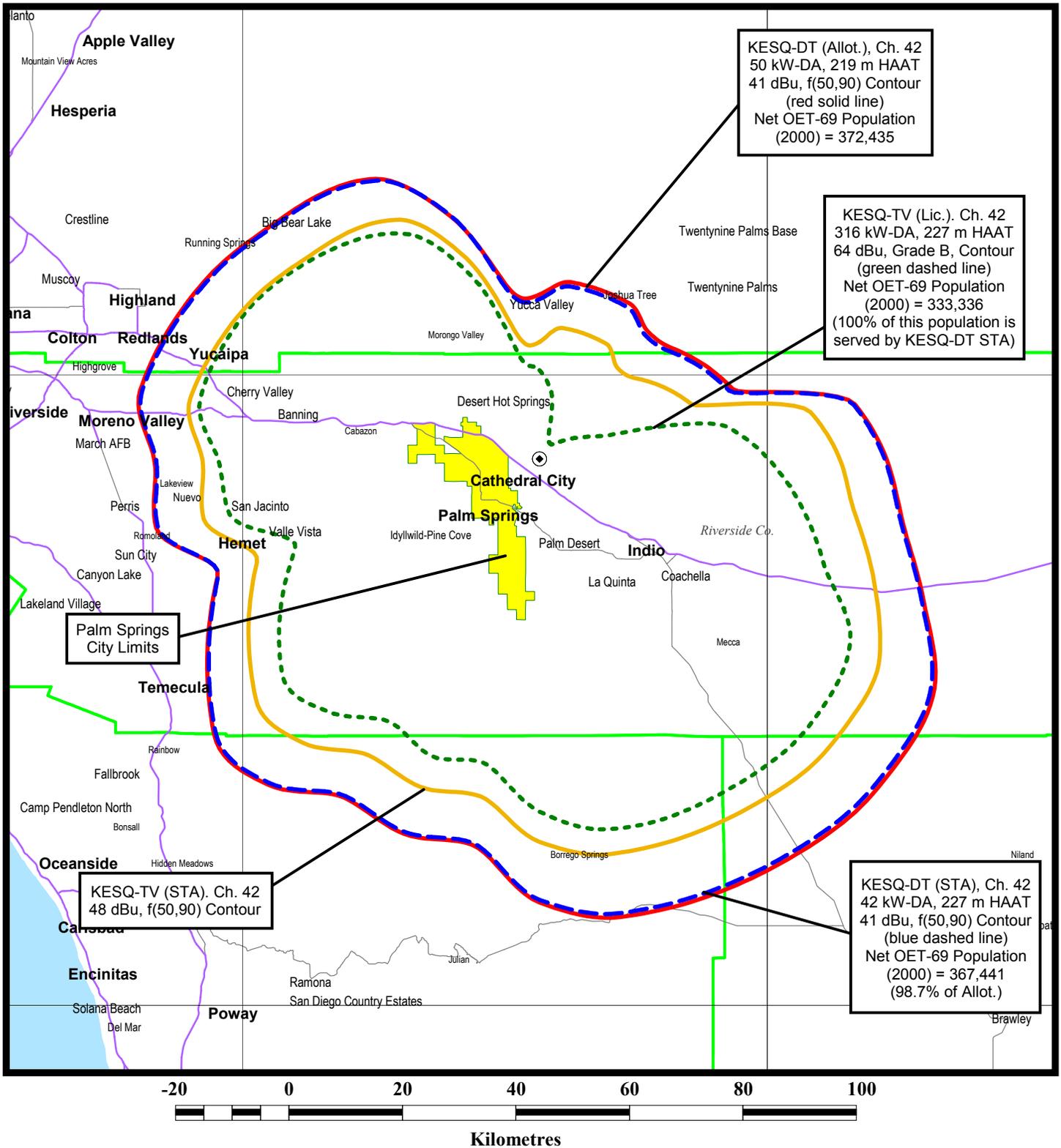
The attached predicted coverage contour map illustrates the subject predicted contours. As indicated in the map, the proposed KESQ-DT STA facility provides a predicted noise-limited service contour that is nominally co-extensive with the KESQ-DT 'Appendix B' allotment facility. The slight contour difference results in a slight reduction in OET-69 predicted service to 98.7%. However, in practice, the proposed STA facility will replicate essentially 100% of the KESQ-DT 'Appendix B' allotment service population when considering that contour.



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## PREDICTED COVERAGE CONTOURS

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