Technical Statement in Support of Distributed Transmission System (DTS) Operation for KQSL, Fort Bragg, CA Channel 8 November 7, 2019

Summary of Technical Proposal:

The applicant requests the ability to build a Distributed Transmission System to fill in coverage of Cloverdale, Colusa, Chico, and Redding, California.

This application is being amended to request a waiver to process it using the newly proposed DTS rules according to DA 19-1036 released October 11, 2019.

Furthermore, the applicant requests a waiver of the April 2013 Freeze Notice for the filing and processing of certain applications by full power and Class A stations. There is no interference above the 0.5% de minimis level to any full power TV stations.

This filing is a more effective implementation of overall Commission policy in order to expediently provide coverage over the newly created white space area over Cloverdale, CA, that was created with the repacking of the TV band. With the repacking of the TV spectrum, there are not any other full power TV stations (other than KQSL) broadcasting in the entire northern half of the San Francisco TV market including the counties of Marin, Napa, Sonoma, Lake, and Mendocino. Allowing KQSL to convert to DTS operation sooner than later will bring back over-the-air full power TV coverage to the northern part of Sonoma County.

There would be no change the main transmitter facility of KQSL covering its main city of license of Fort Bragg, California. An additional facility would be constructed on Duncan's Peak near Hopland, CA, with a single log-periodic antenna aimed towards Cloverdale to add in coverage of Cloverdale and Hopland which are currently terrain shielded from the main KQSL transmitter, but for which is in KQSL's current service contour. Also, an additional facility would be constructed near Paskenta, CA, with two logperiodic antennas directed towards Colusa and Redding, CA

The proposed 33 dBu (50,10) contours of the additional DTS transmitters will be within 208 km interference area. All transmitters are located within the predicted noise-limited service contour area. Please refer to map below showing compliance.



Map of KQSL Main Transmitter, Additional DTS Transmitters, 123 km circle, and 208 km circle

Prepared by: Keith Leitch, MSEE, E.I.T. Santa Rosa, CA 707-479-9428