TECHNICAL SUMMARY
APPLICATION FOR CONSTRUCTION PERMIT
TELEVISION STATION KPXO-TV
KANEOHE, HAWAII
CHANNEL 32 25.4 KW (MAX-DA) 662 M HAAT

1. The instant application is the initial 90-day application for the reassigned facilities of KPXO-TV, Kaneohe, HI (Channel 32). The proposed KPXO-TV facility will employ the existing side-mounted broadband panel antenna with no physical changes in the installation. The existing antenna is a Jampro model JUHD-8/4 (32), which will operate on Channel 32. However, operation of the antenna on Channel 32 will result in an altered azimuth pattern due to the shift in frequency.

2. It is noted that the antenna radiation center height above average (HAAT) was re-calculated considering all changes to the value in agreement with that given by the FCC's *TVStudy* analysis software.

3. As a result of the altered Channel-32 azimuth pattern, the maximum effective radiated power (ERP) was reduced to 25.4 kW to maintain the predicted service area of the proposed facility within 1% of the KPXO-TV baseline reassignment facility listed in the FCC's Closing and Channel Reassignment (CCR) *Public Notice*. See attached *TVStudy* Analysis.

4. The proposed facility is compliant with the 95% population service requirement relative to the CCR baseline facility as outlined in the CCR.

5. The instant proposal is compliant with the principal city coverage requirements of Kaneohe. This is illustrated in the Predicted Coverage Contours exhibit (Figure 1).

6. It is noted that there is an FCC monitoring station at Waipahu, HI located at a distance of 25.6 km at an azimuth of 282.3 degrees true from the KPXO-TV facility. The predicted field strength at the monitoring station from the KPXO-TV facility will be reduced from 91.7 dBu to 89.1 dBu as a result of the instant proposal. Therefore, no adverse effects are expected with respect to the monitoring station as a result of the proposal.