

Engineering Statement
Minor Modification of Construction
KBYU-TV Channel 17 Provo, UT
December 4, 2018

The purpose of this application is to modify the Post-Incentive Auction Facility Construction Permit of KBYU-TV Channel 17 Provo, UT to correct the antenna parameters.

The original KBYU-TV construction permit application was based on parameters provided by the antenna manufacturer indicating their assessment of how the existing antenna would perform on KBYU's repacked channel 17. The antenna utilized by KBYU-TV is a master antenna system supporting the transmissions of eight stations. Due to the channel reassignment of six of the eight stations it was required to make modifications to the master antenna system resulting in some pattern changes for all eight stations. This application reflects the effects of the required modifications on KBYU-TV's pattern.

An analysis using the FCC's TVStudy software with its default settings has indicated that KBYU-TV can make the above described modifications without causing new interference to other stations above the allowable de minimis limit. A copy of the study results is provided as an attachment to this application.

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