

From: Rajat Mathur <rmathur@h-e.com>
To: Shadi Sabra <ssabra@valleypbs.org>
Cc: Phyllis Brotherton <pbrotherton@valleypbs.org>, Phil Meyer <pmeyer@valleypbs.org>
Date: 07/06/2017 10:50 AM
Subject: Channel 32 main antenna

Hi Shadi,

As you requested, we have completed the TVStudy coverage/interference analysis for the proposed top-mount directional antenna for KVPT on Channel 32. We show that KVPT will not cause greater than de minimis interference to any other full-service or Class A station. KVPT is predicted to receive less than de minimis interference from all other stations and is predicted to provide interference-free coverage to about 1.71 million persons. Further, we verified that KVPT will meet the FCC expectation in this on-going 90-day filing window for non-band changing stations to cover 95% or more of the baseline population and to not extend the baseline contour by more than 1%.

For our analysis we used the horizontal polarization component of the azimuth pattern of the proposed ERI Model ATW18H6-ETC3-32H directional antenna that you provided. We used an antenna radiation center height of 66.5 meters (218.2 feet) AGL or 1101.6 meters AMSL and the coordinates in your antenna structure registration (ASR) number 1014534 of North 36-44-45 West 119-16-55 (NAD 83). We used your baseline ERP of 213 kW and we asked TVStudy to derive the height above average terrain (HAAT), which it determined to be 699.2 meters (8-radial average, 1-second terrain data).

Please let me know if you have any questions and/or if you would like any additional information.

Thanks,
Raj

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