

**GREG BEST
CONSULTING, INC.**

16100 Outlook Avenue
Stilwell, KS 60085
816-792-2913

November 1, 17

**ENGINEERING STUDY FOR PROPOSED OPERATION OF
KETC ON DTV CHANNEL 23**

An engineering study to investigate moving the DTV channel of operation for KETC from 17 to 23 and beginning operation before the planned repack transition phase for KETC has been conducted.

KETC currently has a construction permit authorization for operation on DTV channel 17 at the conclusion of Phase 8 of the FCC incentive auction repack process. The authorization is described in FCC application BLANK0000025353.

KETC seeks to leave its current DTV channel 39 and begin operation on channel 23 beginning June 1, 2018. KETC proposes to vacate its channel 39 operation to allow T-Mobile to deploy its facilities in that frequency spectrum.

KETC is not part of a linked-station set nor would operation on channel 23 create a linked-station set.

An interference analysis was conducted for the proposed facility operating at the same location and radiation center as the facility authorized on construction permit BLANK0000025353. The proposed DTV facility identifies its Effective Radiated Power as 300 kW with an omnidirectional antenna pattern.

Because KETC plans to vacate channel 39 to allow T-Mobile to deploy its facilities, the interference analysis evaluates both pre-repack interference and post-repack interference. All authorized facilities and pending applications that the TV Study program identified as of this application date have been considered in this interference analysis. The parameters of the interference analysis are identified as part of the detailed station-by-station analysis.

The results of the interference study determined that no interference above the de minimis level of 0.5% were caused by the proposed facility operation on channel 23. The detailed analysis included both the FCC baseline facilities as well as the authorized services and pending applications for the relevant channels.

The population served by the channel 23 proposed facility for KETC does receive 0.6% interference from adjacent channel KMOV operating on channel 24. However, KETC accepts this amount of interference.

The detailed station-by-station analyses carried out by TV Study are provided in the attached PDF file, "KETC 300 KW Pre and Post Repack with CP & Baseline records Tvixstudy.pdf".

Should any questions or concerns be identified, I will be happy to help with answers as needed.

Sincerely,

A handwritten signature in cursive script, appearing to read "Margaret Burt, PE".

President
Attachments