

WES Broadcast Consultants, Inc.
Engineering Statement
for KHMF Ch 34 Displacement

1. General

The purpose of this engineering statement is to support an application for displacement to allow KHMF CD Channel 14 to go to Channel 34 due to interference on Channel 14 to first responders.

A. Channel 35 STA: Presently KHMF is operating an STA on Channel 35. At the end of the Post Auction Transition, KOZJ, licensed for Joplin, MO 82.3km away, will transition to Channel 35, forcing KHMF to find another open channel to operate on.

B. Interference Letter: KHMF has been asked by the owners of the current tower they occupy to move to another tower due to Land Mobile interference. First responders have moved onto the site and are currently experiencing harmful interference from KHMF Channel 14. This letter is posted as an exhibit.

C. OET 69 Exhibit: The OET 69 exhibit demonstrates interference free operation on Channel 34 in TVStudy ver. 2.2.3.

2. Engineering

A. Proposed Site:

KHMF-CD Channel 34 will transmit 15kW ERP at the Horizon on a Directional Antenna with the main lobes oriented at 10 and 170 degrees with ½ degree electronic beam tilt at the following NAD83 coordinates:

N Latitude 36-23-37

W Longitude 94-10-58

This proposed site for the KHMF-CD Channel 34 final facility will be ASR #1037677

The facility will operate with the following elevation parameters:

AGL 92m

GAMSL 384.1m

RCAMSL 476.1m