

INTERFERENCE CONSIDERATIONS
FOR
AMENDED W10CP, TOWANDA, PA. FLASH CUT DTV APPLICATION

The instant proposal specifies the same VHF channel, site, antenna height and antenna as for the authorized analog operation. Thus, the proposal is for a minor change according to FCC criteria. The maximum effective radiated power for the digital operation is 0.066 kW. A new regenerative transmitter will be used at a power output level of 5 watts. The proposed effective radiated power is well below the 0.3 kW maximum that is permitted for a VHF translator. The 3 watt maximum transmitter power output for a VHF heterodyne transmitter is not applicable for a regenerative transmitter.

Interference studies have been conducted for the proposed facility using the Techware implementation of the FCC's "tv_process_dlptv" program. A Sunblade computer was employed with no changes in the FCC default settings. The study reviewed the potential impact of the proposed operation on a total of twenty-one, co-channel and adjacent channel, full service TV and DTV stations; and translator, LPTV and Class A stations. The 1990 Census was used as a reference. The study results revealed that only Station WBRE-TV, Wilkes-Barre, PA., Ch. 11, would receive interference impacting 0.37% of the station's baseline population of 1,672,058 persons. No other station would receive interference. Under the FCC's rounding procedure, the interference to WBRE-TV from the proposed operation is 0.0%. Thus, the proposal will not cause interference to any station.