

Engineering Statement
CBS Radio Stations Inc.
WTIC-FM FCC 302 Section III-Engineering
Modify license BMLH-19890803KA
Permissive antenna replacement
October 28, 2013

An Environmental Assessment is not required, as grant of this application would not be considered a major environmental action.

The transmitting antenna, a ERI model 1083-2CP, 2 bay, 1 wavelength element spacing is mounted on a tower that has been registered (ASR 1045791) with the Commission. The center of radiation is 117 meters above ground. The ERP remains at 20 kW H&V as currently licensed.

The proposed transmitting facilities will comply with the FCC guidelines limiting human exposure to radio frequency energy. The vertical pattern is typical of a standard ERI panel antenna type antenna. The vertical profile and tabulated data is attached. The maximum power density level at any location at ground level, calculated in accordance with OET Bulletin No. 65 (August 1997), would be less than 11.5% of the applicable limit for exposures of unlimited duration (general population). The site is considered a multi-user site since the facilities of WTIC(AM), WWUH(FM) 440w H&V, and WFSB(DTV) channel 33, 1,000 kW are co-located on the same property. An RF study was recently commissioned for the site and it is determined that the site remains in compliance with the Commission's rules for RF exposure. The report by broadcast Signal Lab is attached to this application.

If work is done on the tower in an area where over exposure could occur, the Licensee in coordination with the other users will take necessary action to prevent the overexposure of workers on the tower including reducing the transmitting power or ceasing operation completely.

The WTIC-FM replacement antenna is installed on a base insulated tower. The WTIC(AM) antenna is licensed as a MOM studied array (BMML-20101117BHX). The adjacent WTIC-FM tower with the replacement antenna was included in the modeled study which, along with field measurements, confirmed that no adverse effects to the WTIC(AM) array resulted from the antenna replacement.