

RF HAZARD STATEMENT
APPLICATION FOR CONSTRUCTION PERMIT
TELEVISION STATION WCAX-TV
BURLINGTON, VERMONT
CHANNEL 20 423 KW 845 M HAAT

The proposed WCAX-TV facility is located at the Mt. Mansfield multi-user transmitter site. The facility will utilize the same transmitting antenna with no physical change in the antenna. The change in frequency from Channel 22 to Channel 20 will result in very small changes in the WCAX-TV transmitting antenna elevation pattern. A detailed study of the elevation pattern change at steep angles below 30 degrees below the horizontal indicates that the maximum relative field of the WCAX-TV antenna will change from 0.053 to 0.054. However, given the reduction in maximum effective radiated power (ERP) from 443 kW to 423 kW, the maximum ERP at steep angles below 30 degrees below the horizontal will decrease by approximately 0.011 kW, from 1.244 kW to 1.233 kW. Therefore, the instant proposal is expected to result in a slight reduction in the RF exposure environment at the Mt. Mansfield transmitter site.

Mt. Mansfield is a multi-user site with a site manager (Mt. Mansfield Television) that is responsible for ensuring RF exposure compliance. All site users have entered into a written agreement to cooperate in ensuring compliance with FCC guidelines, which will ensure any restrictions on access required to avoid overexposure of humans to RF energy at both controlled and uncontrolled locations.

In the event that personnel are required to enter a restricted portion of the transmitter site area or climb the tower structure, the proposed transmissions shall be reduced or terminated as necessary to prevent RF exposure above the FCC recommended limits.