

RF Radiation Study for WMED-DT - Calais, ME

WMED-DT is located at the top of Conant Hill, in Meddybemps, Maine, Latitude 45-01-45, Longitude 67-19-25, operating on channel 10, center of radiation above ground of 53.1 meters, and an ERP of 3.5 kW. The transmitting antenna is located on the top of a guyed tower. The transmission site is shared with WMED-TV, WMED-FM, W57AQ LPTV, channel 61 LPTV and WHRR-FM.

Access to the site is directly off a secondary paved road, Route 214. There are 3 towers on this property. All three towers are fenced, locked and posted. There is an additional fence around the perimeter of the tower area to limit public exposure.

At the transmitter site, multiple locations were checked for RF radiation level. These readings were taken with a Narda/Loral RF Radiation Meter model 6811 Serial Number 11077 and Isotropic Probe Model 8661, Serial Number 02023, frequency range .3-1000 MHz maximum power density 20 mw/cm^2 , E Field. At all measurement points, the probe was rotated in all axes until the maximum reading was obtained. Prior to beginning, the probe and meter were turned on for a minimum of fifteen minutes allowing for the systems to stabilize and then the meter was zeroed. Each point was recorded, then after completion, a few random points were double-checked to insure accuracy. The readings were performed on March 5, 2003.

The areas tested are depicted on the site drawing. All readings were below 1 mw/cm^2 . There are readings in excess of .2 mw/cm^2 within the fence perimeter. These areas are not available to the public. Any area with unrestricted access is well below the maximum for public exposure of .2 mw/cm^2 .

Maine Public Broadcasting Corporation will reduce power on WMEM-FM, WMEM-TV and WMED-DT to allowable exposure levels or cease to operate whenever a person enters the fenced area around the towers or climbs any tower on the property.

David R. Roy
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