

RF Radiation Study for WMEM-FM - Presque Isle, ME

WMEM-FM is located at the top of Mars Hill, in Mars Hill, Maine, Latitude 46-33-06, Longitude 67-48-38, operating on 106.1 MHz, channel 291, center of radiation above ground of 27.7 meters, and an ERP of 100 kW. The transmitting antenna is located on the side of a guyed tower. The transmission site is shared with ITFS systems, WMEM-TV and WMEM-DT. An additional commercial television station is located within several hundred feet of the WMEM-FM site. The site is only accessible by 4 wheel drive vehicles and is enclosed by a locked chain link fence.

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 July 24, 2002.

The areas tested are depicted on the site drawing. All readings were well below $.2 \text{mw}/\text{cm}^2$.

Maine Public Broadcasting Corporation will reduce power on WMEM-FM WMEM-TV and WMEM-DT to allowable exposure levels or cease to operate whenever a person climbs the tower bearing the WMEM-FM, WMEM-TV or WMEM-DT antenna.

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