



**Radio Frequency Energy Survey
WVEI-FM
Mount Tom, Holyoke, Massachusetts**

WVEI-FM's transmitter facility is compliant with radio frequency energy exposure requirements of the FCC (47 CFR 1.1306 et seq) and the Commonwealth of Massachusetts (105 CMR 122).

WVEI-FM holds a Construction Permit to broadcast from the summit of Mount Tom, in Holyoke, Massachusetts. With a two-bay, half-wavelength spaced antenna mounted on a pole on the east side of a multi-station, multi-tower site, the station operates at 743 W transmitter power output and 720 W (directional) ERP. The site is the subject of annual routine RFE surveys by Broadcast Signal Lab; its ambient RFE conditions are well-known. In the vicinity of the WVEI-FM antenna mast, the ambient RFE from other active facilities on the summit is slightly less than 5% of the controlled occupational Maximum Permissible Exposure (MPE). With the addition of the emissions of the WVEI facility, an increase in RFE was observed at locations within 40 feet of the WVEI mast. With WVEI on-air, the total RF power density did not exceed 10% controlled/occupational MPE.

A field survey was conducted on June 1, 2006 at 10 AM. The WVEI-FM antenna mast is enclosed in a locked, fenced compound shared by no other equipment or antennas. Within the compound, emissions also remained at or below 10% on the ground. At approximately 15 feet up the pole levels were observed in excess of 20% controlled occupational MPE. This is the limit of uncontrolled/public MPE, but considering the fact that the compound is secured, it is reassuring that only workers climbing the pole would need to exercise exposure management procedures.

An appropriate informational notice sign is being secured to the gate of the compound, and an occupational exposure caution sign is being affixed to the pole.

Measurements were conducted with a Narda broadband conformal probe (model 8722) and companion meter (model 8711) factory calibrated April 2006.

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Other than the antenna, the WVEI-FM transmitter equipment emits no appreciable RFE. It is housed in a structure that contains other transmitters and that has RFE levels compliant with uncontrolled/public exposure limits.

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