

RF Radiation Exposure

FCC's online software, "FM Model" was used to determine compliance with the FCC exposure limitations for emission in the FM Band. Turquoise Broadcasting Co. LLC has proposals to move three existing FM Translators to Unalaska to provide the first ever commercial radio for the 12th largest incorporated city in Alaska. The total ERP of the three translators will be 120 watts. An existing translator with a separate antenna operates with 250 watts ERP on the tower owned by TelAlaska. The determination found the maximum exposure is 22.3 micro W / square cm. well below the acceptable 200 micro W / square cm level.

FM Model

Electromagnetic Compatibility Division

Incentive Auctions - TV Study Software – OET Bulletin No. 69

Measuring Broadband America

Experimental License Filing System

Technical Documents

OET - Bulletins

Radio Frequency Safety

Technological Advisory Council (TAC)

Frequency Coordination with Canada Below 470 MHz

FCC Areas

FM Model

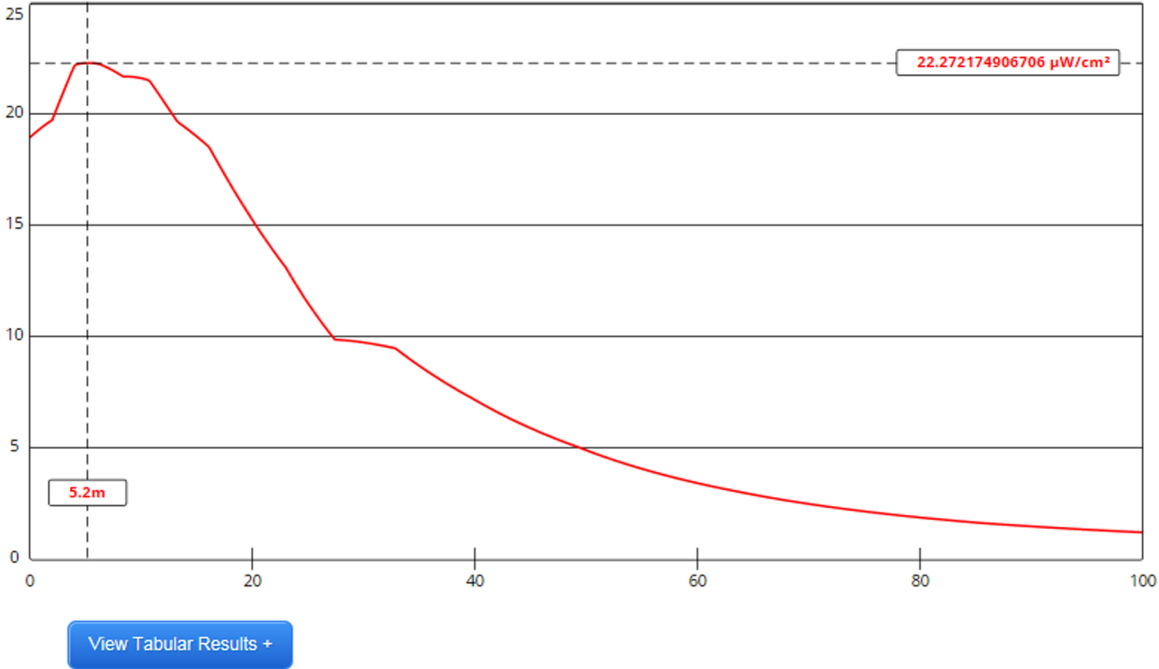
FCC Frequency Assignment Databases

Spectrum Utilization Study Software (SUSS)

TVStudy Interference Analysis Software

The FM Model calculator determines the potential exposure from radiofrequency (RF) electromagnetic fields produced by FM broadcast station antennas at ground level. The FM Model software was originally developed by the FCC in 1997 as a standalone executable program and this improved version provides more precise predictions and runs via a JavaScript enabled web browser. The FM Model is originally based on measured data published in 1985 by the EPA.

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Channel Selection	Channel 250 (97.9 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	25	Distance (m)	100
ERP-H (W)		ERP-V (W)	370
Num of Elements	1	Element Spacing (λ)	1
Num of Points	500	Apply	