
RF Appendix 1

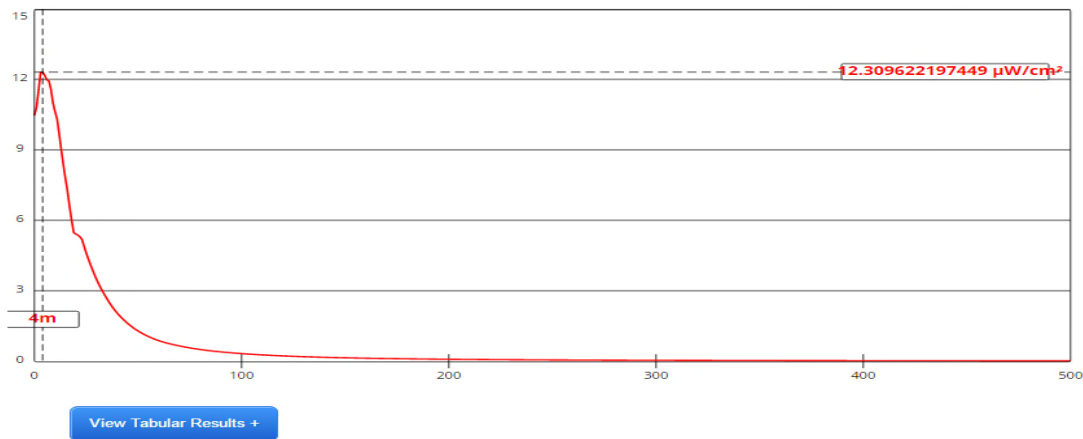
Compliance with Radiofrequency Radiation Guidelines

The proposed facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments as set forth under §1.1307(b)(3) of the Commission's rules and the guidelines for RF radiation protection guidelines as set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01). This restricted access mountain top site is intended to house multiple transmitters, therefore the potential for human exposure to non-ionizing radiofrequency radiation has been evaluated with regard to the §1.1307(b)(3) "five percent (5%) contribution rule" utilizing the Commission's own FM Model web-based software application. The use and implementation of this FCC sanctioned software is a matter of record before the Commission.

With regard to the "five percent (5%) contribution rule" for this §1.1307(b)(3) restricted access (controlled environment) site, five percent (5%) of the maximum permissible 1000 $\mu\text{W}/\text{cm}^2$ controlled limit yields a threshold value of 50 $\mu\text{W}/\text{cm}^2$. Therefore, single contributions of $\leq 50 \mu\text{W}/\text{cm}^2$ remain within the tolerances as allowed by §1.1307(b)(3) and its governing OET Bulletin No. 65 (Edition 97-01) for restricted access (controlled environment) sites of this nature.

The proposed CH275D.P - Canton, NC analog FM Translator (Facility ID: pending) will operate on CH275D (102.9 MHz) with 0.099 kW ERP (vertical only polarization). The proposed operation will broadcast from an antenna COR mounted 18 meters above ground level (AGL). For purposes of this RF Compliance Study, a worst case one bay EPA Type 1 element as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016) has been assumed. This facility will not operate with HD/IBOC facilities at this time.

The results of the evaluation for the FM station have been shown at the end of this RF compliance discussion. To ensure complete protection, the maximum FM contribution has been assumed without regard to any restricted access fencing distance. In addition, the facility is, or will be, properly marked with signs. Entry is, or will be, restricted by means of fencing with locked doors or gates. Furthermore, coordination with other users of the site will be secured to reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.



Channel Selection	Channel 275 (102.9 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	18	Distance (m)	500
ERP-H (W)	0	ERP-V (W)	99
Num of Elements	1	Element Spacing (λ)	1
Num of Points	500	Apply	