

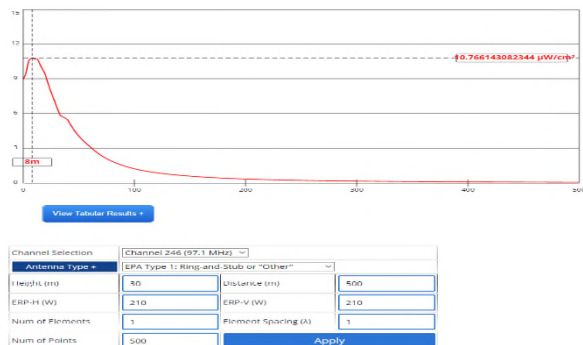
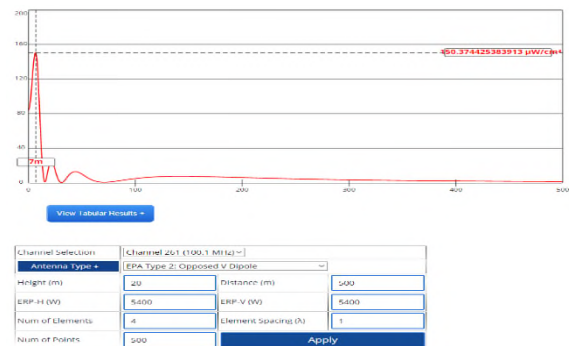
RF Appendix 1

Compliance with Radiofrequency Radiation Guidelines 1

Explanation of Study. The proposed facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments as set forth under §1.1310 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). The site is intended to house multiple transmitters of mixed aural origin.

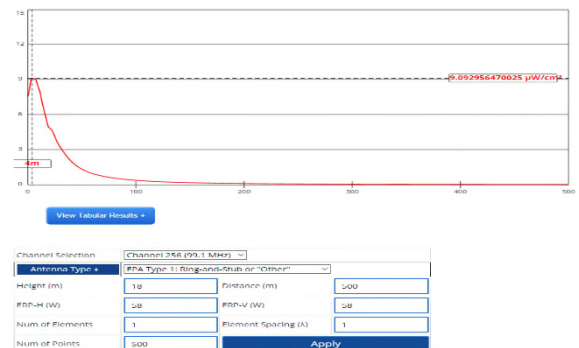
Concerning FM contributions, the potential for human exposure to non-ionizing radiofrequency radiation has been evaluated with regard to §1.1310 utilizing the Commission's own *FM Model* web-based software application. The use and implementation of this FCC sanctioned software is a matter of record before the Commission. To ensure complete protection, each maximum FM contribution has been assumed without regard to any restricted access fencing distance. The maximum permissible uncontrolled limit for FM stations is 200 $\mu\text{W}/\text{cm}^2$. The maximum permissible controlled limit is 1000 $\mu\text{W}/\text{cm}^2$. Therefore, single contributions of $\leq 200 \mu\text{W}/\text{cm}^2$ remain within the tolerances as allowed by §1.1310 and its governing OET Bulletin No. 65 (Edition 97-01) for the more restrictive of these two protections.

Summary of Stations. The WRHP(FM).P - Anniston, AL proposed analog FM Station (Facility ID: 184996) will operate on CH261C3 (100.1 MHz) with 5.4 kW ERP circular polarization (H&V). This facility will operate with an antenna COR mounted 20 meters above ground level (AGL). The facility will employ a four bay antenna employing EPA Type 2 "Opposed V" dipole elements as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016). The antenna elements will be spaced at 1.0 wavelength (λ). This facility will not operate with HD/IBOC facilities at this time.



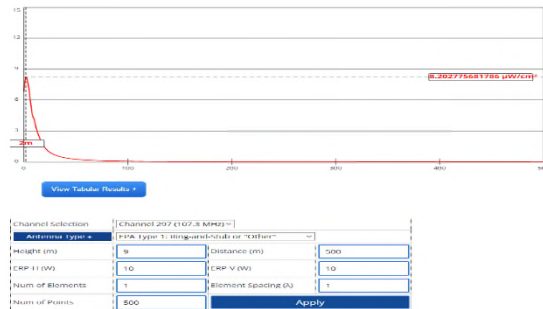
The W246DB.L - Anniston, AL analog FM Translator (Facility ID: 139976) operates on CH246D (97.1 MHz) with 0.210 kW ERP circular polarization (H&V). This facility operates with an antenna COR mounted 30 meters above ground level (AGL). A worst case one bay, EPA Type 1 "Ring and Stub" element as defined 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 W256BH.L - Oxford, AL analog FM Translator (Facility ID: 139979) operates on CH256D (99.1 MHz) with 0.058 kW ERP circular polarization (H&V). This facility operates with an antenna COR mounted 18 meters above ground level (AGL). A worst case one bay, EPA Type 1 "Ring and Stub" 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.



RF Appendix 1

Compliance with Radiofrequency Radiation Guidelines 2



The W297AP.L - Golden Springs, AL analog FM Translator (Facility ID: 141192) operates on CH297D (107.3 MHz) with 0.010 kW ERP circular polarization (H&V). This facility operates with an antenna COR mounted 10 meters above ground level (AGL). A worst case one bay, EPA Type 1 "Ring and Stub" 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 within 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.

Results of Study. The sum of each individual contribution as a percentage of its each maximum permissible uncontrolled limit has been provided below. As the resulting contribution(s) as a whole is less than 100% of the combined exposure has been calculated to be within the guidelines of OET Bulletin No. 65 (Edition 97-01) for the more restrictive uncontrolled environment as defined by locations accessible by the general public.

<u>Contributing Station</u>	<u>Maximum Contribution</u>	<u>Individual Uncontrolled Limit</u>	<u>Percent of Individual Uncontrolled Limit</u>
WRHP(FM).P (analog)	150.374 $\mu\text{W}/\text{cm}^2$	200 $\mu\text{W}/\text{cm}^2$	75.19%
W246DB.L (analog)	10.766 $\mu\text{W}/\text{cm}^2$	200 $\mu\text{W}/\text{cm}^2$	5.38%
W256BH.L (analog)	9.093 $\mu\text{W}/\text{cm}^2$	200 $\mu\text{W}/\text{cm}^2$	4.55%
W297AP.L (analog)	8.203 $\mu\text{W}/\text{cm}^2$	200 $\mu\text{W}/\text{cm}^2$	<u>4.10%</u>
Total of uncontrolled Limit:			89.22%

As the sum exposure is less than 100% for the uncontrolled environment, the operation of the combined transmitting plants is in compliance with the provisions of OET Bulletin No. 65 (Edition 97-01). As stated before, protection of the uncontrolled environment implies protection of the controlled environment. There are no other broadcast sources of radiofrequency non-ionizing radiation present at this site.

The results of the evaluation for each station have been shown at the end of this RF compliance discussion. 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.