

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 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.

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 restricted access fencing distances. 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, sum 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 proposed CH207D.P(formerly K217EIL) - Scio, OR analog FM Translator (Facility ID: 93023) will operate on CH207D (89.3 MHz) with 0.100 kW ERP circular polarization (H&V). The proposed operation will broadcast from an antenna COR mounted 11.5 meters above ground level (AGL). The facility will operate with a worst-case EPA Type 1 element as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016). This facility will not operate with HD/IBOC facilities at this time.

The licensed KPIK-LP(FM).L - Stayton, OR analog LPFM Station (Facility ID: 133093), License File Number BLL-20170213ABX, operates on CH243LP (96.5 MHz) with 0.100 kW ERP circular polarization (H&V). This operation broadcasts from an antenna COR mounted 10.0 meters above ground level (AGL). The facility operates with a worst-case EPA Type 1 element as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016). KPIK-LP(FM).C - Stayton, OR also holds analog LPFM Construction Permit Number LMS-0000189684, to operate on CH243LP (96.5 MHz) with 0.100 kW ERP circular polarization (H&V). The proposed operation will broadcast from an antenna COR mounted 19.5 meters above ground level (AGL). The facility will operate with a one-bay, worst-case EPA Type 1 element as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016). This facility will not operate with HD/IBOC facilities at this time.

Therefore, for purposes of this RF Compliance Study, a worst-case sum 0.200 kW ERP circular polarization (H&V) may be analyzed from a worst-case antenna COR of 10.0 meters above ground level (AGL). A worst-case EPA Type 1 element as defined by the Commission's own FM Model - Appendix B (issued March 31, 2016) may also be assumed. 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.

