

Exhibit 3

X-band PFD Compliance

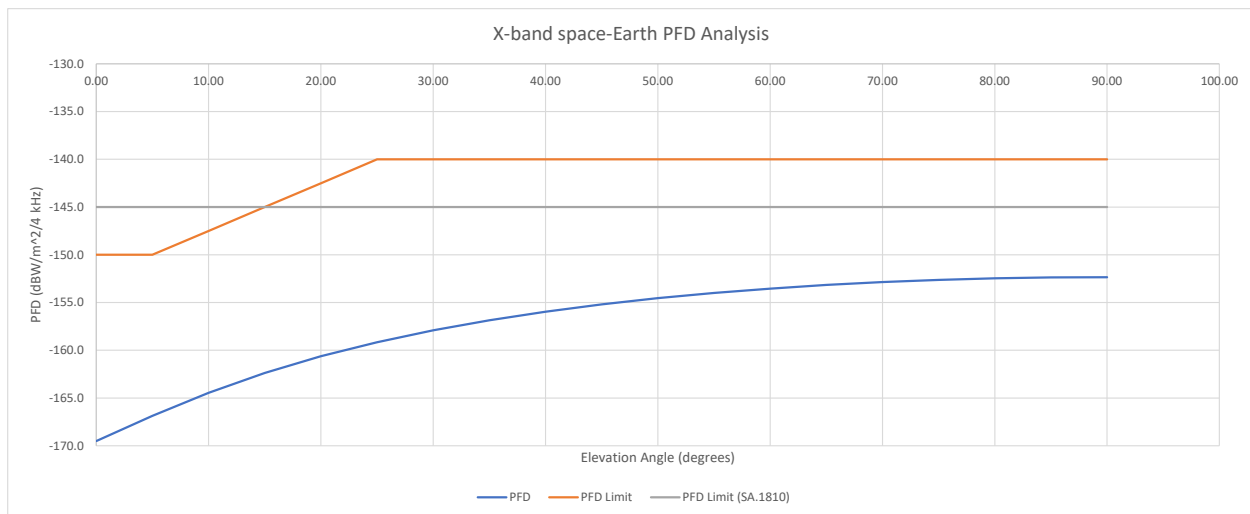
X-band PFD Compliance

X-band PFD at the Earth's surface

HE360 will only transmit in bandwidths that meet technical requirements, including Article 21 of the Radio Regulations and ITU-R SA.1810.

XFAN

The following PFD analysis was conducted using the maximum EIRP of 10.8 dBW, spread over an emission bandwidth of 105 MHz from an orbit altitude of 250 km, the lowest authorized operating altitude. This PFD analysis demonstrates compliance with the PFD limits in Article 21 of the Radio Regulations and ITU-R SA.1810 Recommends 7 (for sites at all latitudes).



X-band PFD at the Geostationary Satellite Orbit

No. 22.5 of the ITU Radio Regulations specifies that in the frequency band 8025-8400 MHz, which the EESS (using non-geostationary satellites) shares with the fixed-satellite service (Earth-to-space) and the meteorological-satellite service (Earth-to-space), the maximum PFD produced at the geostationary satellite orbit ("GSO") by any EESS space station shall not exceed

-174 dB(W/m²) in any 4 kHz band.¹ The calculation below shows that the PFD produced by the transmissions from the proposed HE360 satellites does not exceed the limit in No. 22.5, even in the worst possible hypothetical case.

The PFD at the GSO produced by the HE360 transmission is:

$$\text{PFD [dBW/m}^2 \text{ /4 kHz]} = \text{EIRP (dBW)} - 71 - 20\log_{10}(D) - 10\log_{10}(BW) - 24$$

Where:

- EIRP is the Maximum EIRP of the transmission, in dBW;
- D is distance between the HE360 satellite and GSO, in km; and
- BW is the symbol bandwidth of the transmission, in MHz.

The closest distance between a HE360 satellite and the GSO is $35,786 - 610 = 35,176$ km for the highest possible HE360 satellite orbit of 610 km. Under a hypothetical assumption that the HE360 satellite antenna is radiating at its peak EIRP toward the GSO, the X-band transmitters produce a PFD of approximately -195.3 dBW/ m² /4 kHz in worst-case scenarios, which is over 20 dB below the protection criteria.

¹ ITU Radio Regulations, Article 22, Section 4.

Ground Plots

Ground plots are included below to reflect the nominal operating altitude of 550 km at three representative U.S. gateway Earth station locations. The contours that are not shown in the figures are beyond the horizon and, accordingly, are not depicted.

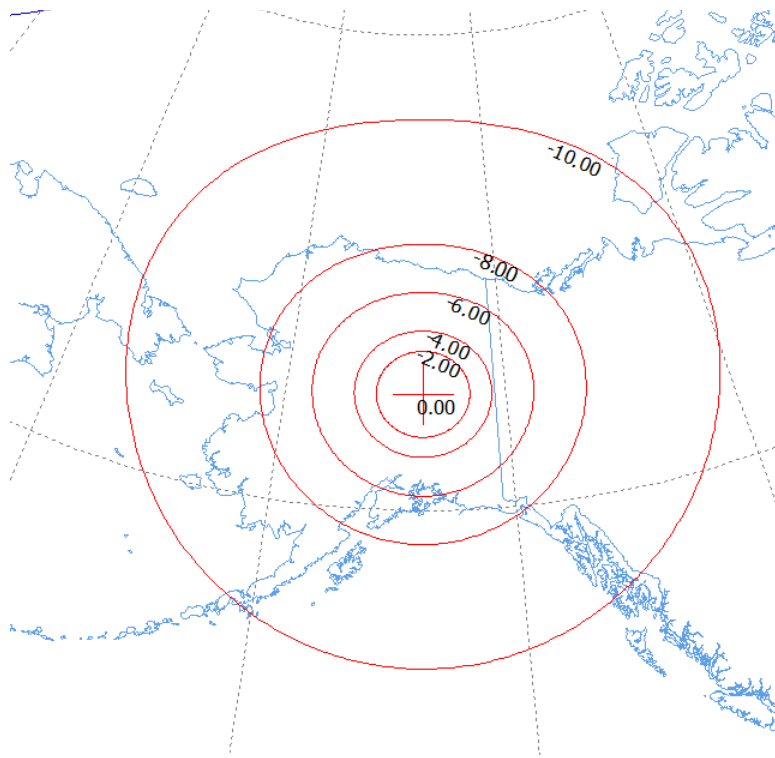


Figure 1.1 XFAN Antenna Beam Projection over Fairbanks, Alaska, USA

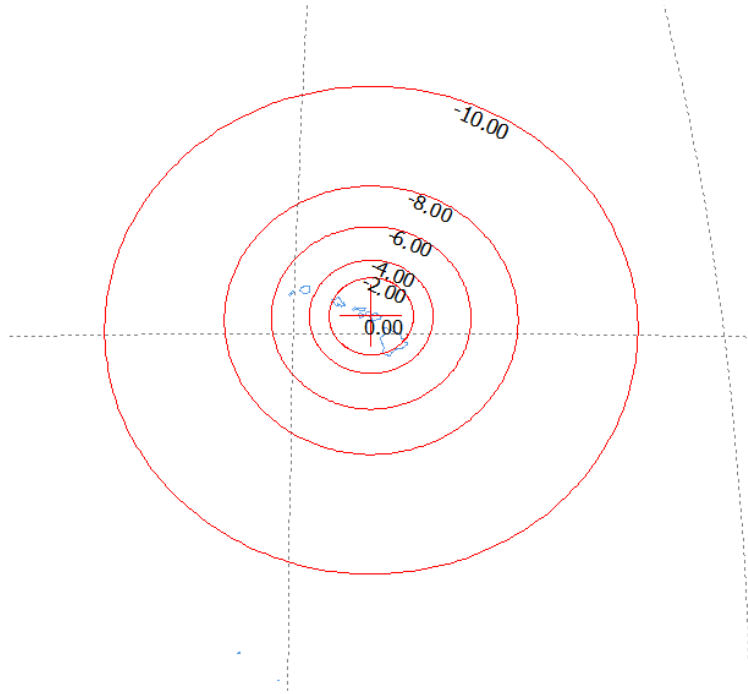


Figure 1.2 XFAN Antenna Beam Projection over Maui, Hawaii, USA

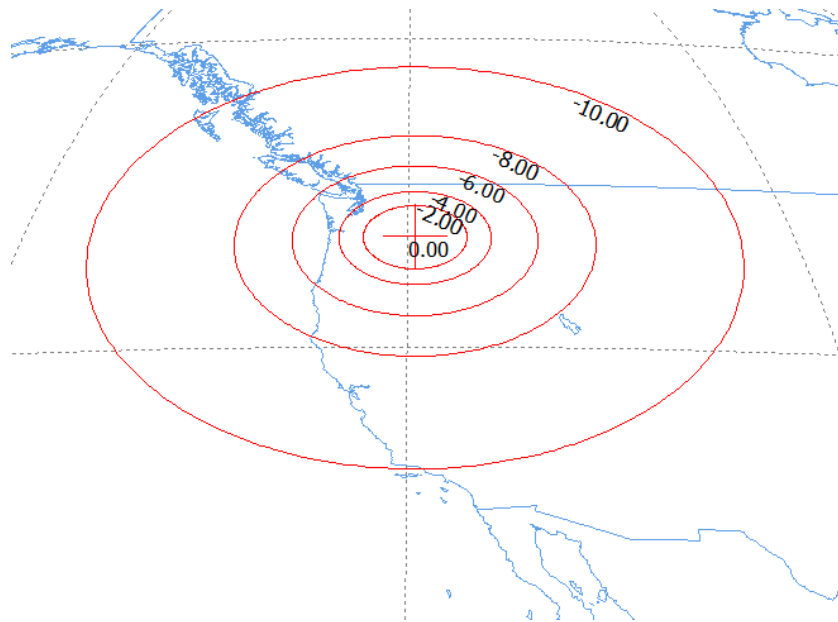


Figure 1.3 XFAN Antenna Beam Projection over Portland, Oregon, USA