

<b>Radiation Hazard Calculations</b>		
<b>DigitalGlobe Fairbanks AK Earth Station</b>		
Antenna Diameter	5.4 m	
Feed-Flange or subreflector diameter	8.25 cm	
Transmit Frequency	2025 Mhz	
Maximum power into antenna feed-flange (watts)	50 W	
Antenna Gain	36.6 dBi	
Antenna aperture efficiency	0.55	
Maximum power into antenna feed (dBm)	46.99 dBm	
EIRP (dBm)	83.59 dBm	
EIRP (watts)	228544.09 W	
Wave length	0.15 m	
Near field extent	49.21 m	
Beginning of far field	118.10 m	
Maximum on-axis power density far field	0.13 mW/cm <sup>2</sup>	Satisfies MPE Limits
Maximum on-axis power density near field	0.48 mW/cm <sup>2</sup>	Satisfies MPE Limits
Maximum on-axis power density transition region	0.48 mW/cm <sup>2</sup>	Satisfies MPE Limits
Maximum power density feed-flange	1870.69 mW/cm <sup>2</sup>	Potential Hazard
Maximum power density main reflector region	0.44 mW/cm <sup>2</sup>	Satisfies MPE Limits
Maximum power density between main reflector and ground	0.22 mW/cm <sup>2</sup>	Satisfies MPE Limits