Exhibit B. C-band Radiation Hazard Study. D(Antenna size in m): Ga (Antenna gain in dBi): G (Numeric antenna gain): P (HPA power output in W): ERP (W): f (midband frequency in MHz): C(velocity of radio waves in cm/sec): A. Antenna surface max. power density:	4.5 46.4 dBi @ 6.425 GHz 43651.58 61.7 2693302.68 6205 300*10*8 Ssurface: Where:	=4*P/A P= power fed into the an A= physical area of the a A(cm²)=	enna perture antenna= πr² <b>159043.13</b>
		Ssurface (mW/cm <sup>2</sup> )=	1.55
B. Near field calculations:			
	Rnf= extent of near field in cm= D²/(4*λ)		
	Where:	D= maximum dimension of antenna (dia. If circular) $\lambda\text{=}$ wavelength	
		λ (cm)= λ (cm)=	C/f 4.83
	Rnf (cm):	10470.94	
	Max. value of the near fiel Where:	<b>Hd power density Snf= 16*ŋ*P/(m)*D</b> <sup>2</sup> $\eta$ = aperture efficiency= (G $\lambda^2$ /4 $\pi$ )/( $\pi$ D <sup>2</sup> /4) G= power gain in the direction of interest relative to an isotropic radiator $\lambda$ = wavelength D= antenna diameter $\eta$ = 0.51 Cef ( $\mu$ )/( $\mu$ =2) 0.70	
		Shf (mw/cm²):	0.79
C. Far field calculations:			
	Rff= distance to beginning Where:	i= distance to beginning of far field=0.6*D?/λ here: D= maximum dimension of antenna (dia. If circular) λ= wavelength	
	Rff (cm)=	25130.25	
	Sff= On-axis Power density in the far field region= (P*G)/( $4\pi R^2$ )		
	Sff (mW/cm <sup>2</sup> )=	0.34	

D. Conclusion:

The proposed C-band uplink system meets the maximum permissible exposure limits (MPE) (1 mW/cm²) for the General population/uncontrolled exposure as specified in the FCC document #OET bulletin 65 for satellite communications. The above calculations are based on on-axis power densities and are already meeting the maximum required MPE. Since the off-axis power density is referenced at ground level, it will be considerably lower than the calculated on-axis power density due to the discrimination provided by the antenna.