

## Radiofrequency Electromagnetic Exposure Analysis

\*\* ROOF ANTENNA SITE PROPOSED - HEIGHTS ARE RELATIVE TO ROOF TOP (WORST CASE)\*\*

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	<b>Power Density <math>\mu\text{W}/\text{cm}^2</math> at 2 meters AGL</b>				
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$ )	Max. PD	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$ )	Distance to maximum PD (m)
PROPOSED	7	SHI 6812B-1	1	0.250	0.250	142.4	14.2%	142.4	71.2%	5
						142.4	<b>14.2%</b>	142.4	<b>71.2%</b>	5

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using Equation 10 from OET Bulletin 65 and elevation pattern provided by antenna manufacturer

Access to roof will be restricted and appropriate signs will be posted to warn the public of any potential RF exposure hazard.