

## Radiofrequency Electromagnetic Exposure Analysis for KJZP PSIFML-1A-DA 27 watts ERP

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL				
						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)
KJZP	5	PSIFML-1A-DA	1	0.027	0.027	9.8	1.0%	9.8	4.9%	6.5
						9.8	<b>1.0%</b>	9.8	<b>4.9%</b>	6.5

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

Assumes total ERP of 0.054 kW (0.027 kW H+ 0.027 kW V)

Since this is less than the 5% threshold described in OET Bulletin #65, the contribution of the proposed facility should be categorically excluded from environmental processing with respect to 47 CFR Section 1.1306.



Relative Field Elevation Pattern  
Model: PSIFML-1A-DA  
Type: 1-Bay Directional FM Antenna  
Polarization: Circular  
Call Letters: KJZP  
Gain: .82 (-.86 dB)  
Prescott, AZ

