

ENVIRONMENTAL STATEMENT
K267AF 0.25 KW-DA VERP 1342 M AMSL CH. 239
TUCSON, ARIZONA

RADIO FREQUENCY EXPOSURE

The new transmitting antenna for K267AF will be co-located on an existing broadcast tower. A side mounted antenna, such as proposed here, does not generally fall within the criteria outlined in Section 1.1307(a) for facilities requiring additional environmental processing. With regard to human exposure to radio-frequency (RF) energy, this proposal satisfies the requirement set forth in Section 1.1307(b) as spelled out below.

K26AF is located within an established communications site that is situated on a mountaintop where there is no population. An aerial photo that depicts the nature of the site and surrounding area is provided as an attachment. In addition to the site being removed from any populated areas, warning signs to establish awareness of the potential for exposure are posted at the access road gate and tower base fence.

The worst-case power density contribution for K267AF is calculated to be 6.6% of the controlled MPE limit. This determination was made using the FCC FM Model software. A single element EPA Type 1 FM radiator was specified for the analysis and a copy of the resultant power density vs. distance plot is attached. Since the worst-case exposure predicted for K267AF is well within the occupational MPE limit, this application fully complies with the RF exposure rules and is categorically excluded from environmental processing by Section 1.1306.

Workers will be protected from excessive exposure to RF fields at elevations greater than 2 meters above ground in accordance with the methods recommended in OET-65. All maintenance and other related work to be performed at higher elevations will be coordinated to prevent exposure to RF fields in excess of the controlled limit. Preventative steps to protect workers shall include reducing power or shutting down the facility.

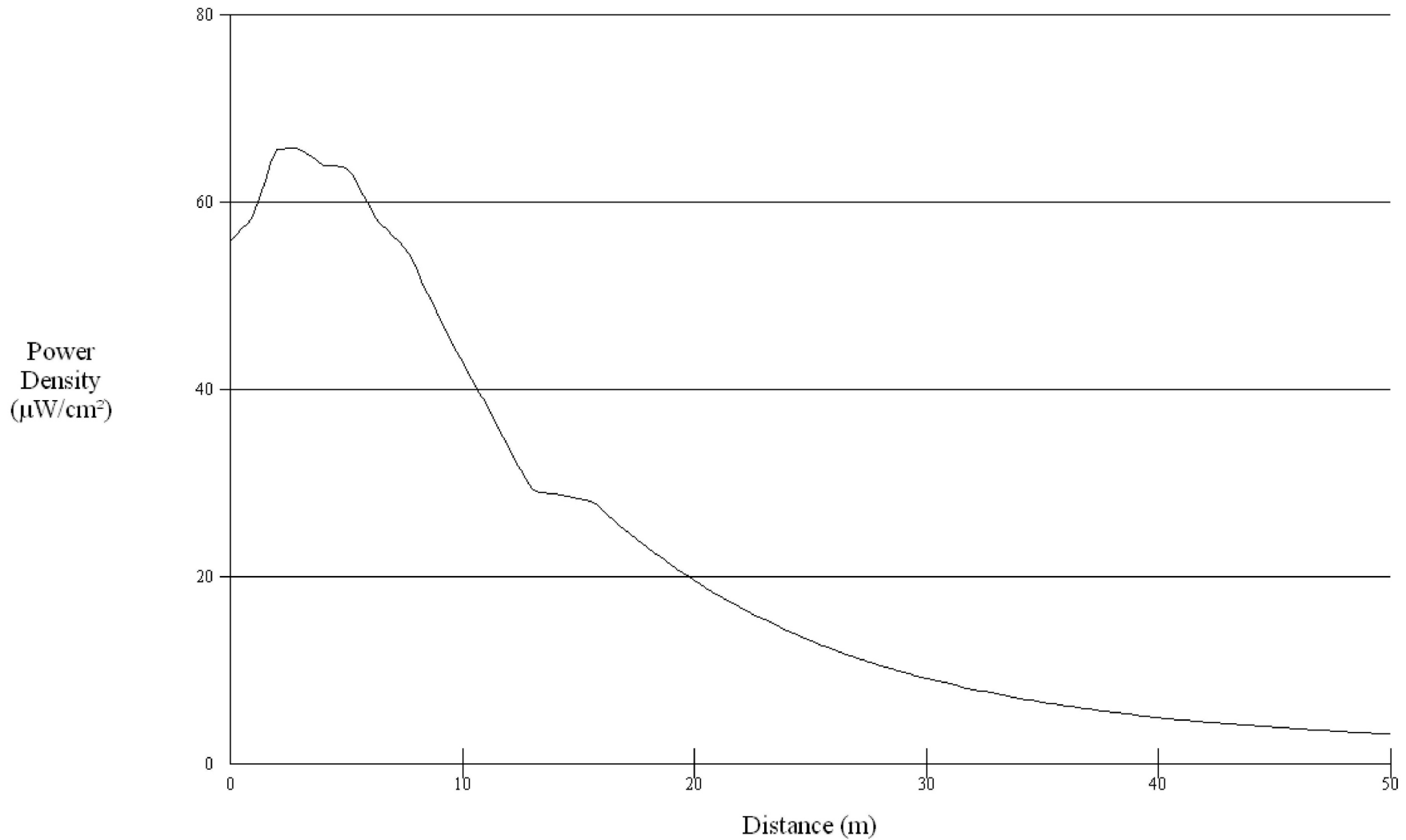


feet
meters

100 600

AERIAL PHOTO OF RF ENVIRONMENT
K267AF 0.25 KW-DA VERP 1342 M AMSL CH. 239
ARIZONA LOTUS CORP.
TUSCON, ARIZONA

Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="50"/>	Antenna Type:	<input type="text" value="Phelps-Dodge 'Ring Stub' or Dipole (EP)"/>
Horizontal ERP (W):	<input type="text" value="0"/>	Number of Elements:	<input type="text" value="1"/>
Vertical ERP (W):	<input type="text" value="250"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="13"/>		

FCC FM MODEL - PLOT
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