

EXHIBIT 16  
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NONIONIZING RADIATION COMPLIANCE

Positive Alternative Radio, Inc.

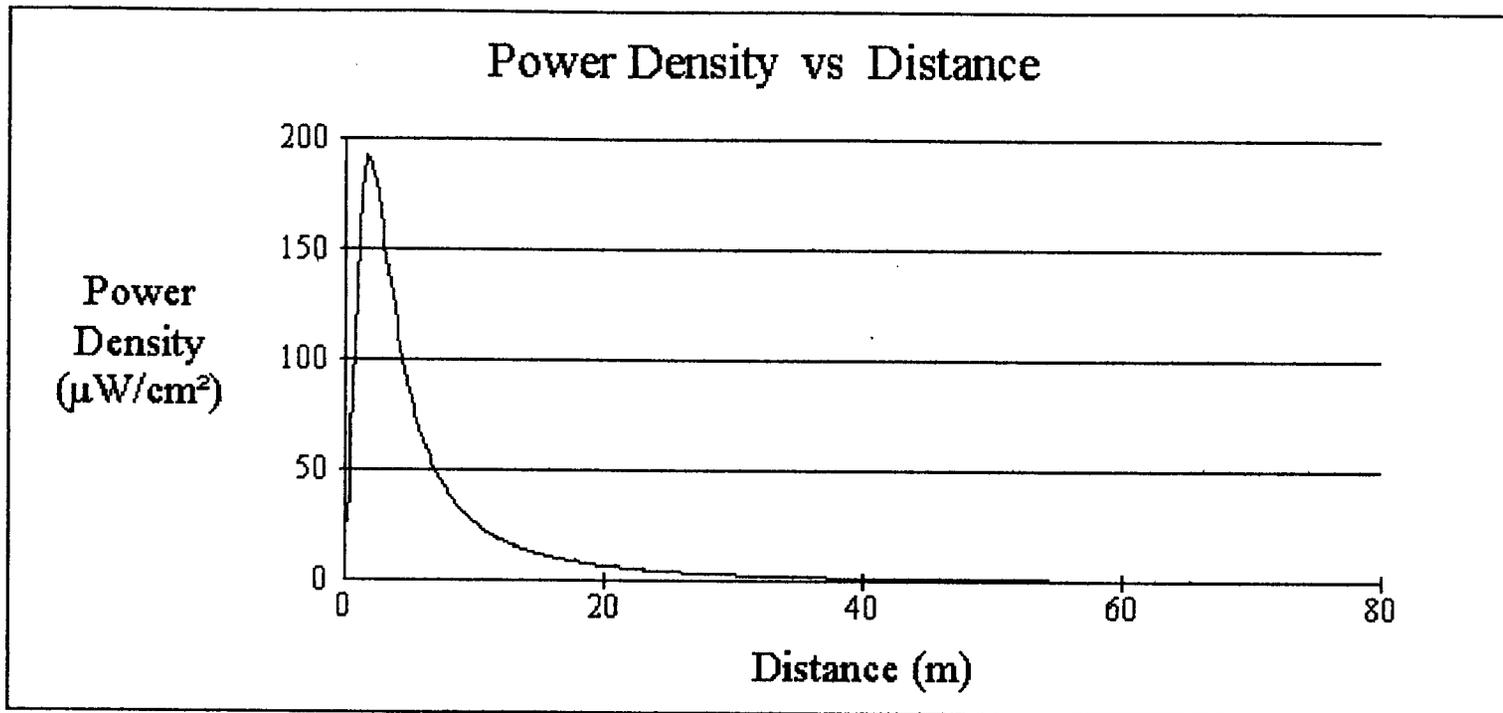
Lexington, NC

The proposed W216BI facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed W216BI antenna will be an SWR FMEC1, one bay circularly polarized antenna which will be mounted on an existing 15.2 meter tower that stands immediately adjacent to a stairwell enclosure on the roof of an existing building. The center of radiation of this antenna will be 3.8 meters above the top of this enclosure and the proposed facility will operate with an effective radiated power of 42 watts. The power density levels generated by this proposed facility at two meters above the roof of this enclosure were calculated using the FCC's "FM Model" computer program. The results of these calculations are depicted in Figure 16.0. As shown in this figure, the maximum level of power density that will be generated by this facility at two meters above the roof of this stairwell enclosure will be  $192.7 \mu\text{W}/\text{cm}^2$ , which will occur at a distance of 1.8 meters from this tower. Since the permitted power density level for uncontrolled exposure to nonionizing radiation in the FM band is  $200 \mu\text{W}/\text{cm}^2$ , this amounts to 96.4% of the permitted level. Thus, the implementation of the proposed W216BI facilities from this site will not generate power density levels on the roof of this stairwell enclosure or on the roof of the building itself that will be in excess of the permitted level for uncontrolled exposure.

W216BI will also take appropriate steps to insure that workers that must be on the tower that will support the proposed antenna will not be exposed to levels of nonionizing radiation that are in excess of the permitted level for controlled exposure. These steps will

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include the cessation of operation or a reduction in power, as appropriate, when work becomes necessary in areas on this tower where the power density levels are in excess of the permitted level for controlled exposure.



Office of Engineering and Technology

Distance (m):	80	Antenna Type:	ERI or JAMPRO JBCP "Rototiller" (EPA)
Horizontal ERP (W):	42	Number of Elements:	1
Vertical ERP (W):	42	Element Spacing:	1
Antenna Height (m):	3.8		

FIG. 16.0

W216B1 POWER DENSITY CALCULATIONS

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