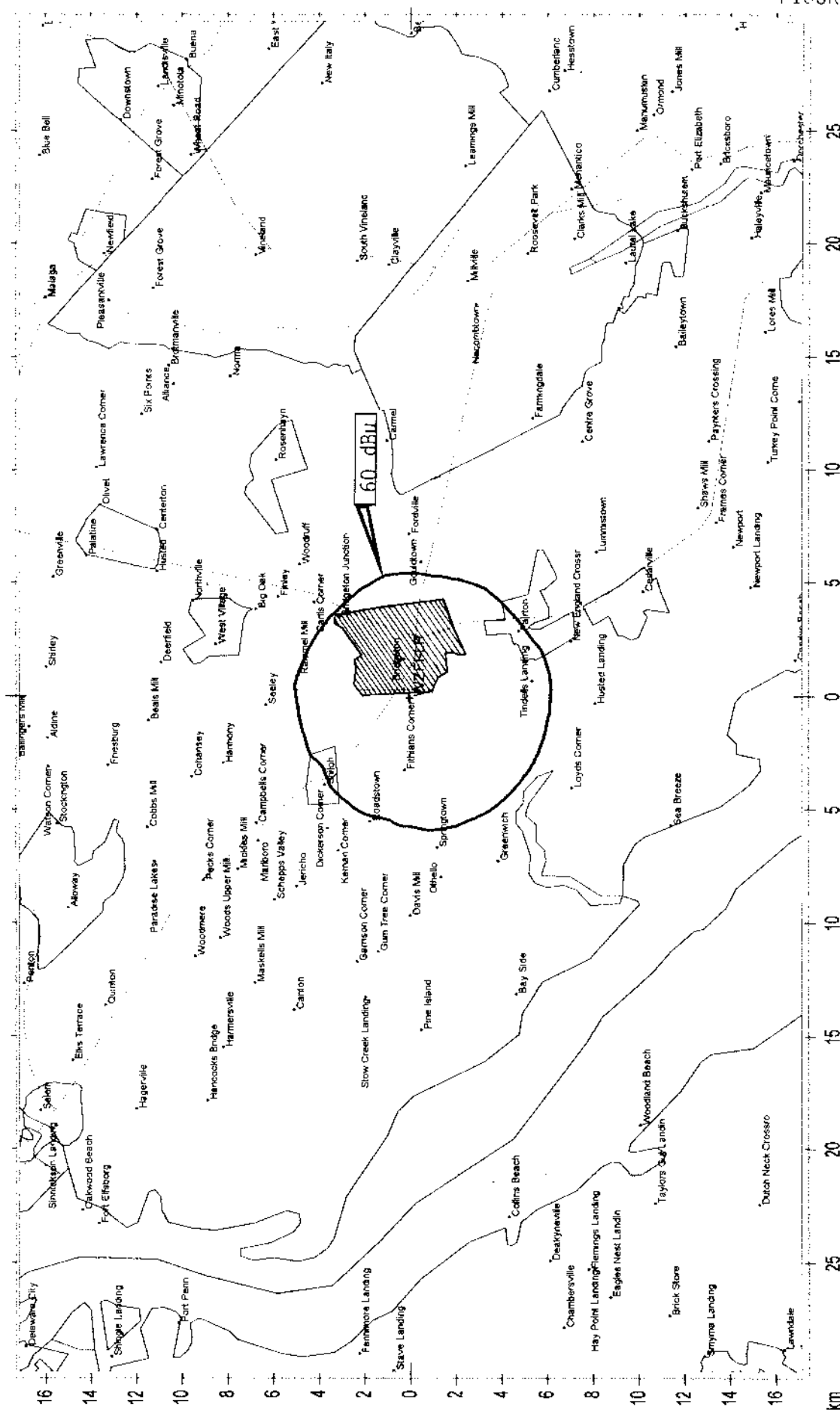


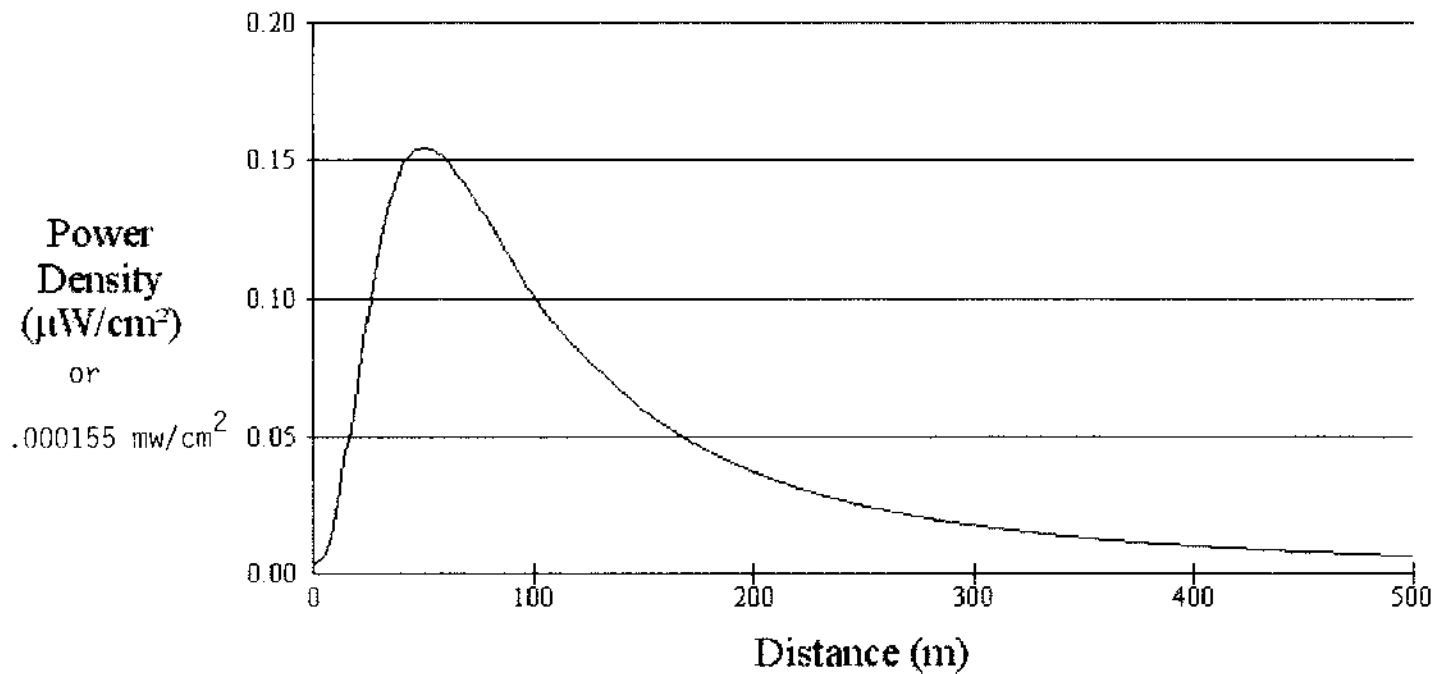
FIGURE 1



Contour based on 26 W at 58m AAT

Power Density vs Distance

FIGURE 2

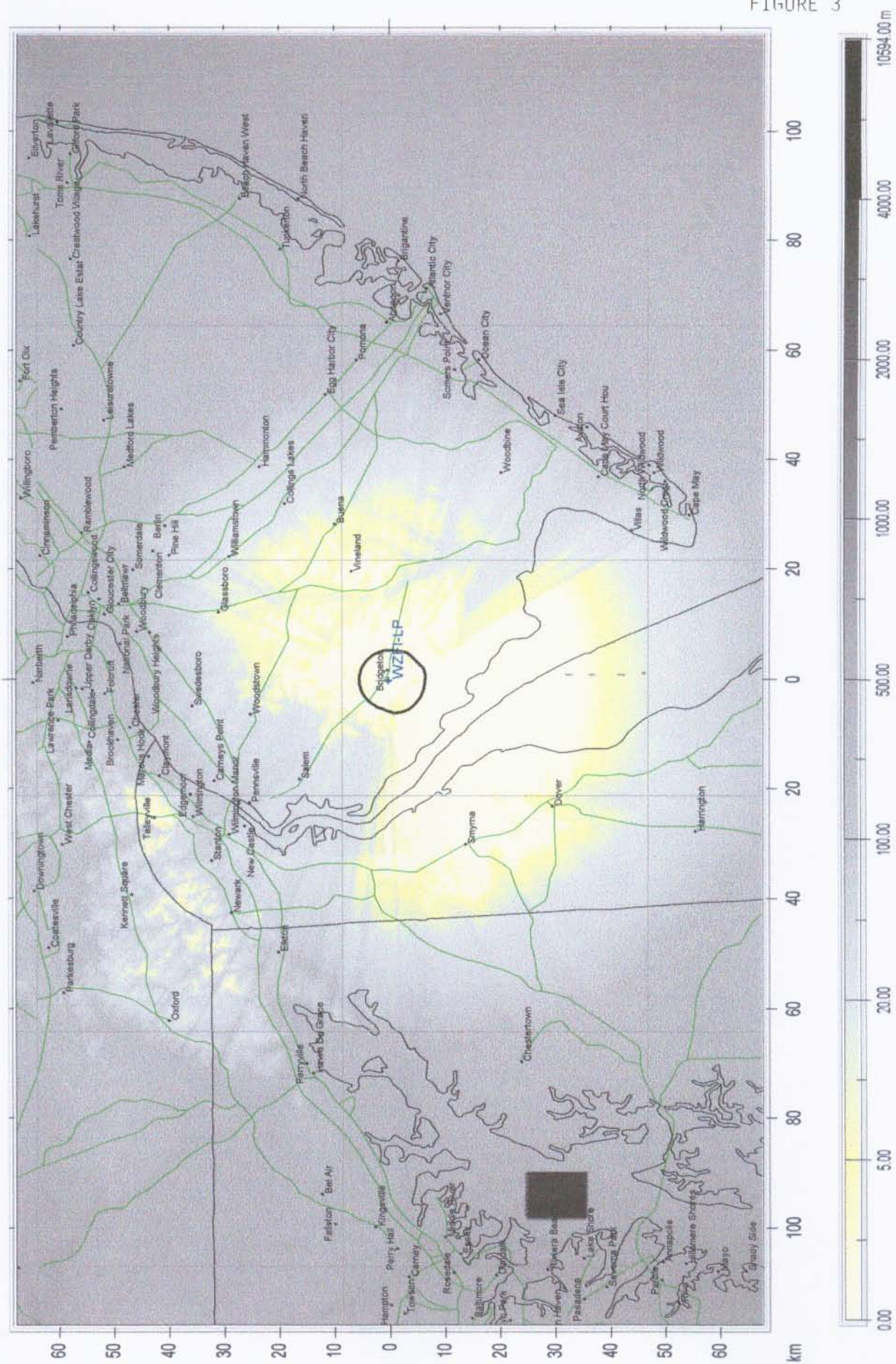


Office of Engineering and Technology

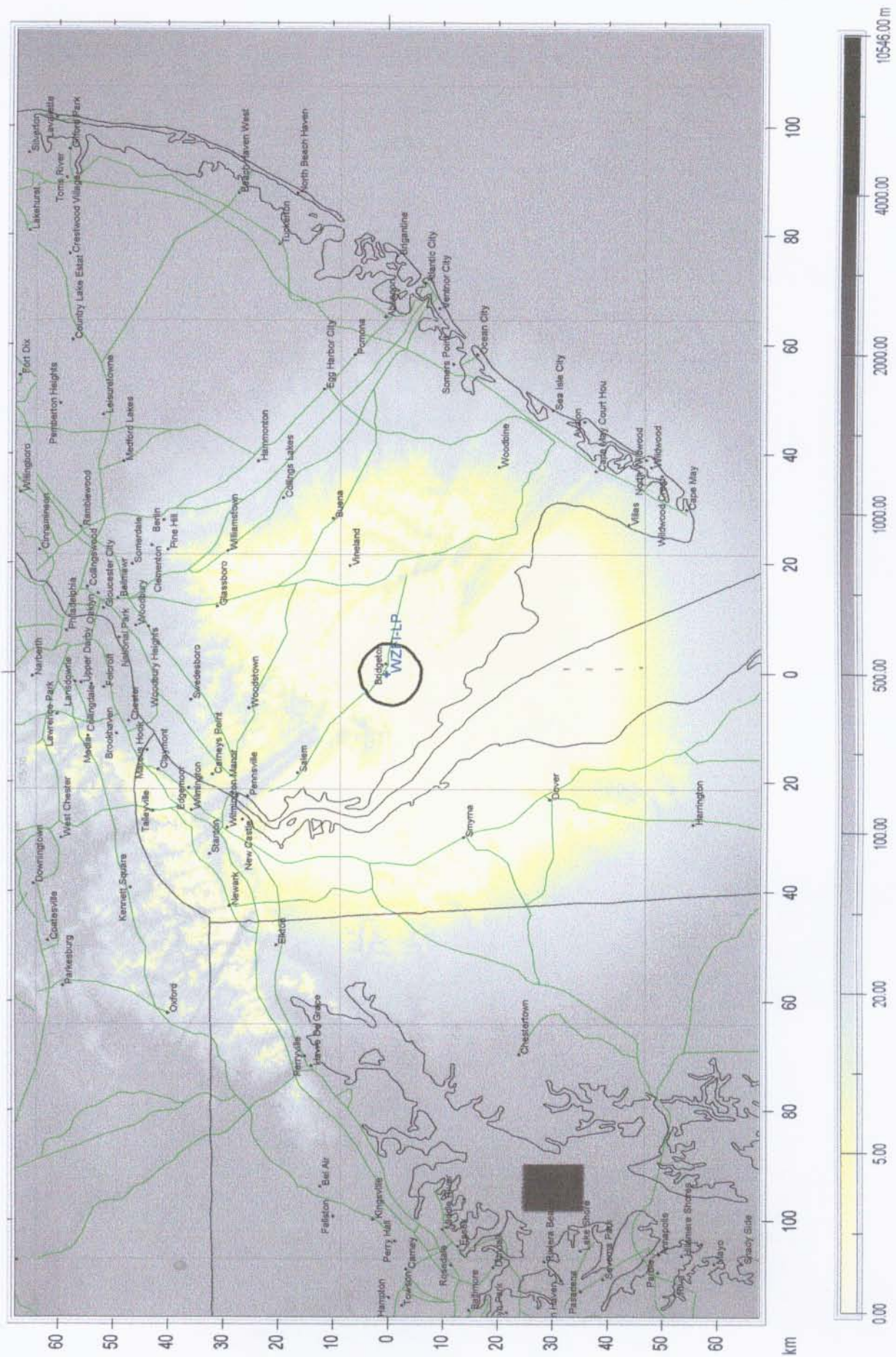
Distance (m):	<input type="text" value="500"/>	Antenna Type:	<input type="text" value="Shively 6812B"/>
Horizontal ERP (W):	<input type="text" value="26"/>	Number of Elements:	<input type="text" value="1"/>
Vertical ERP (W):	<input type="text" value="26"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="51 (2m AGL)"/>		

Study is based on power density 2 meters above ground level. Since the value of .000155 mw/cm² is only 0.0775% of the permitted maximum of 0.2 mw/cm² for an uncontrolled environment, this proposal is in compliance with the Commission's Rules.

FIGURE 3



WZFI-LP 60 dBu Contour & Non-shadowed Area (54.9m tower)



AZARIAH COMMUNICATIONS
FM Radio Station WZFI-LP
Bridgeton, NJ
Channel 253, 98.5 MHz, 26 Watts H & V

ENGINEERING STATEMENT

This engineering statement, together with attached exhibits, has been prepared on behalf of Azariah Communications, licensee of WZFI-LP (Facility ID #133208) for a minor change application to increase antenna height and change effective radiated power. The proposed FM facility will operate on 98.5 MHz with effective radiated power of 26 watts with a one-bay antenna 53 meters above ground level.

The increase in antenna height will allow WZFI-LP to overcome terrain obstructions and improve its service area to the general public. Figure 1 shows the 60 dBu contour, while Figures 3 and 4 depict the non-shadowed area, comparing the 30.5 meter and 54.9 meter towers.

AERONAUTICAL CONSIDERATIONS

The existing tower will be extended from 30.5 meters to 54.9 meters. The FAA will be notified of this structure change so that a new determination of no hazard to air navigation can be made. The tower is registered with the FCC and is listed under Antenna Structure Registration # 1242711 at NAD-83 coordinates of N 39-25-30 W 75-15-15. This antenna structure registration shall be modified when the FAA issues the new determination.

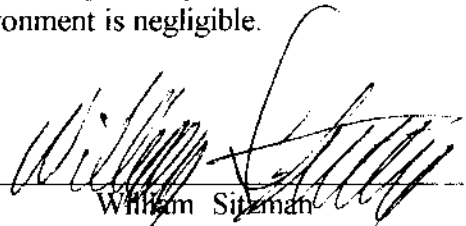
NON IONIZING RADIOFREQUENCY RADIATION CONSIDERATIONS

This is addressed in FCC Docket # 93-62, released August 1, 1996. Table 2 on Page 83 of the document depicts the ANSI/IEEE C95.1-1992 (IEEE C95.1-1991) protection requirements. The maximum permissible exposure for uncontrolled environments in the FM spectrum is a power density of 0.2 milliwatts per centimeter squared (mw/cm²).

This FM facility operates with a one-bay circularly polarized FM antenna. Figure 2 documents the proposed 26 watt operation would produce a maximum of 0.000155 mw/cm² 2 meters above ground level. This is 0.0775% of the permitted maximum of 0.2 mw/cm² for an uncontrolled environment.

It is clearly evident that the proposed operation of WZFI-LP more than meets the FCC requirements of Docket # 93-62. Since the exposure to the general public less than one-tenth percent of 0.2 mw/cm², the effect on the human environment is negligible.

January 9, 2009



William Sitzman
Consulting Engineer