

EXHIBIT 30
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NONIONIZING RADIATION COMPLIANCE

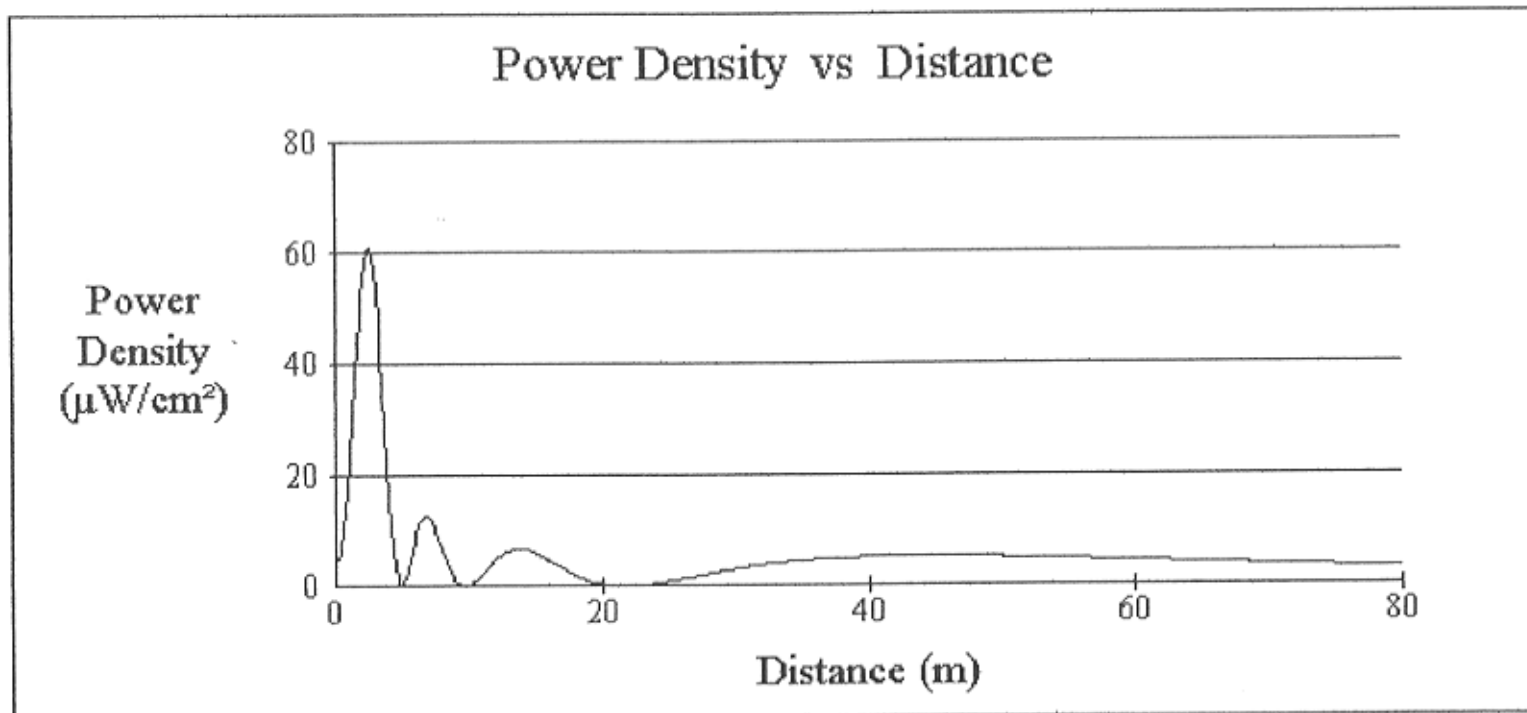
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The proposed WMUA auxiliary facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. It is proposed to utilize the former WMUA main antenna system as an auxiliary antenna system at a reduced effective radiated power of 0.39 kilowatts. This antenna system consists of an CCA FMA-6810 four bay circularly polarized antenna which is mounted on an existing 12.2 meter tower that sits atop a seven story dormitory building on the University of Massachusetts Campus. The center of radiation of this existing antenna is 7.6 meters above the roof of this building. The power density levels generated by the proposed WMUA auxiliary facilities at two meters above the roof of this building were calculated using the FCC Office of Engineering and Technology's "FM Model" computer program. The results of these calculations are shown in Figure 30.0. As can be seen from an examination of this figure, the power density levels generated by this auxiliary antenna system at two meters above roof level will be $60.9 \mu\text{W}/\text{cm}^2$, which will occur at a horizontal distance of 2.6 meters from the base of the tower. Since the permitted power density for uncontrolled exposure in the FM band is $200 \mu\text{W}/\text{cm}^2$, this constitutes only 30.5% of the permitted level. Thus, the proposed WMUA auxiliary antenna system, when in operation, will not subject members of the general public to levels of nonionizing radiation that are in excess of the permitted level for uncontrolled exposure.

WMUA, when operating with this auxiliary antenna system, will also take appropriate steps to insure that workers that must climb this tower will not be exposed to levels of nonionizing radiation that are in excess of the permitted level for controlled expo-

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



Office of Engineering and Technology

Distance (m):	<input type="text" value="80"/>	Antenna Type:	<input type="text" value="Shively 6800 series"/>
Horizontal ERP (W):	<input type="text" value="390"/>	Number of Elements:	<input type="text" value="4"/>
Vertical ERP (W):	<input type="text" value="390"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="7.6"/>		

FIG. 30.0

WMUA AUXILIARY ANTENNA
POWER DENSITY CALCULATIONS

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