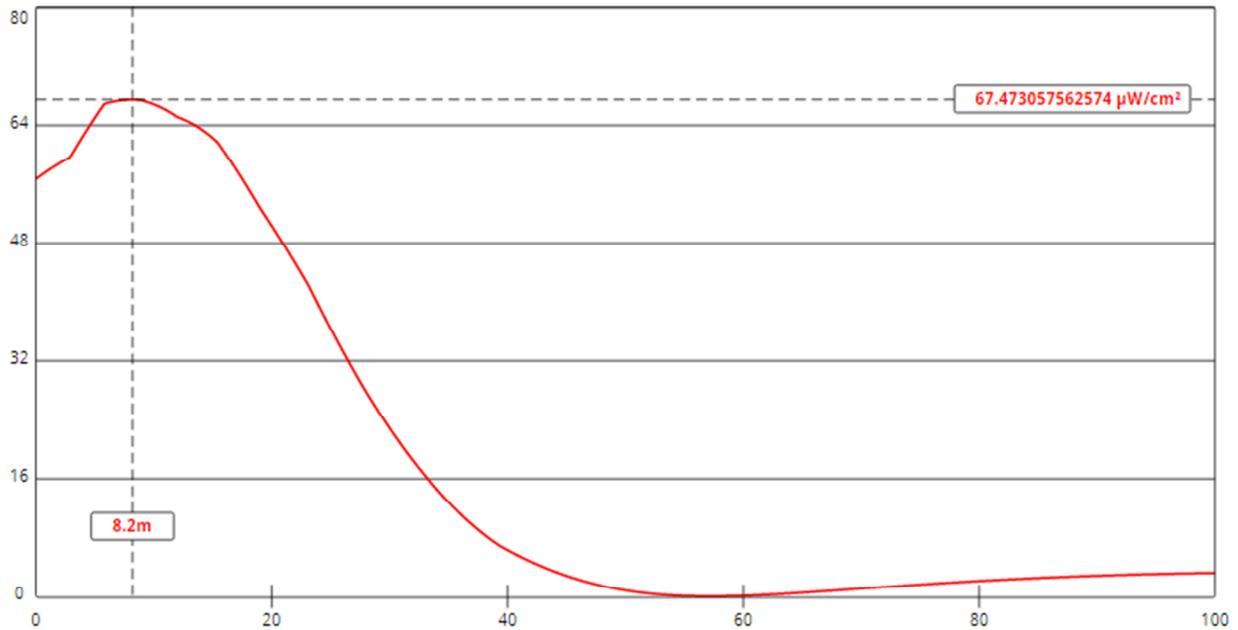


**Proposed Engineering STA  
WJTK, Columbia City, FL FAC# 165943  
Power Density vs Distance  
11/13/2020**



[View Tabular Results +](#)

Channel Selection	Channel 243 (96.5 MHz) ▾		
Antenna Type +	EPA Type 1: Ring-and-Stub or "Other" ▾		
Height (m)	<input type="text" value="35"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="1840"/>	ERP-V (W)	<input type="text" value="1840"/>
Num of Elements	<input type="text" value="2"/>	Element Spacing (λ)	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

THIS PROPOSAL IS FOR A TWO BAY, SHIVELY 6813, RING STUB ANTENNA AT FULL WAVELENGTH SPACING. THE POWER DENSITY V DENSITY GRAPH ABOVE, CREATED BY FM MODEL, INDICATES THAT THE MAXIMUM POWER DENSITY OF 67.5 MICRO WATTS PER SQUARE CM OCCURS AT A DISTANCE OF 8.2M FROM THE BASE OF THE TRANSMIT TOWER. THIS VALUE IS BELOW THE MAXIMUM UNCONTROLLED/GENERAL POPULATION EXPOSURE LIMIT OF 200 MICROWATTS PER SQUARE CM SO THIS APPLICATION IS COMPLIANT WITH THE GUIDELINES FOR HUMAN EXPOSURE AS SPECIFIED IN OET BULLETIN NO. 65, EDITION 97-01, AUGUST 1997.