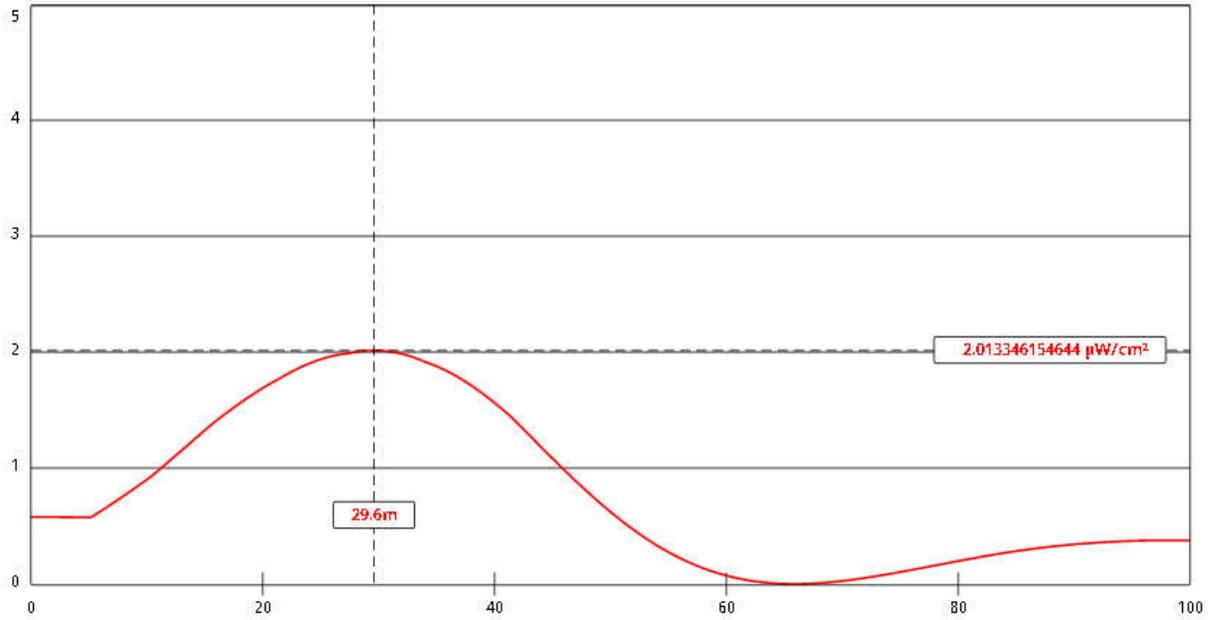


KLWD, Gillette, WY FAC# 84184
Power Density vs Distance
April 13, 2021



[View Tabular Results +](#)

Channel Selection	Channel 220 (91.9 MHz) ▾		
Antenna Type +	EPA Type 3: Opposed U Dipole ▾		
Height (m)	<input type="text" value="61"/>	Distance (m)	<input type="text" value="100"/>
ERP-H (W)	<input type="text" value="1000"/>	ERP-V (W)	<input type="text" value="1000"/>
Num of Elements	<input type="text" value="3"/>	Element Spacing (λ)	<input type="text" value="1"/>
Num of Points	<input type="text" value="500"/>	<input type="button" value="Apply"/>	

USING A 3-ELEMENT ERI LPX-3E MODEL ANTENNA (TYPE 2 Opposed V Dipole) SPACED AT 1 WAVELENGTH, FM MODEL PREDICTS A MAXIMUM POWER DENSITY OF 2.0 MICROWATTS PER SQUARE CENTIMETER AT A DISTANCE OF 29.6 METERS FROM THE TOWER. THIS IS LESS THAN 5% OF THE LIMIT FOR GENERAL PUBLIC EXPOSURE; HENCE, NO OTHER ANALYSIS IS REQUIRED. PLEASE REFER TO THE ATTACHED POWER DENSITY VS DISTANCE GRAPH.