

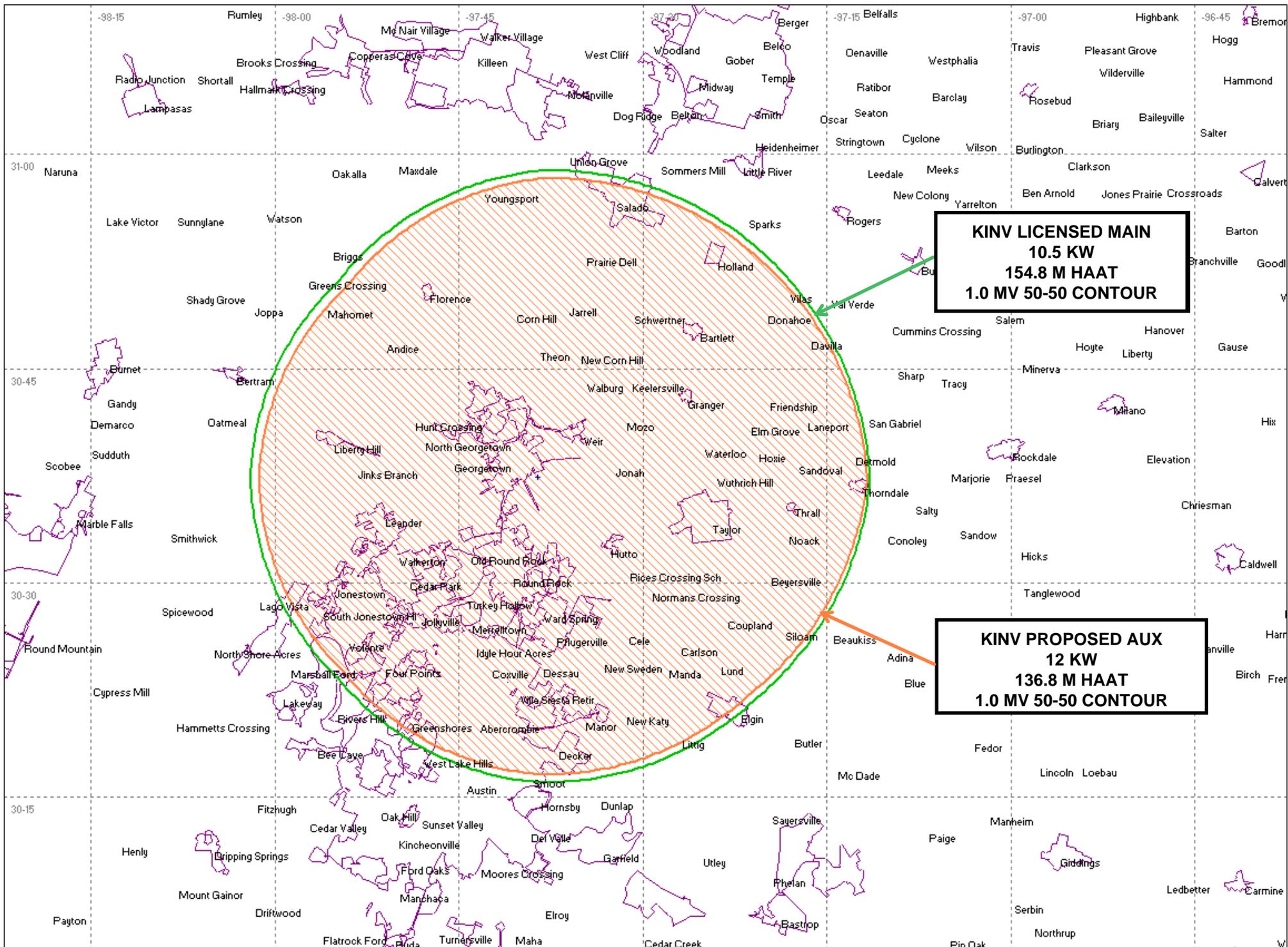
**ENGINEERING EXHIBIT  
IN SUPPORT OF APPLICATION FOR CONSTRUCTION PERMIT  
FM AUXILIARY ANTENNA  
UNIVISION RADIO LICENSE CORPORATION  
KINV, GEORGETOWN, TEXAS  
FACILITY ID: 55475**

**PURPOSE OF APPLICATION**

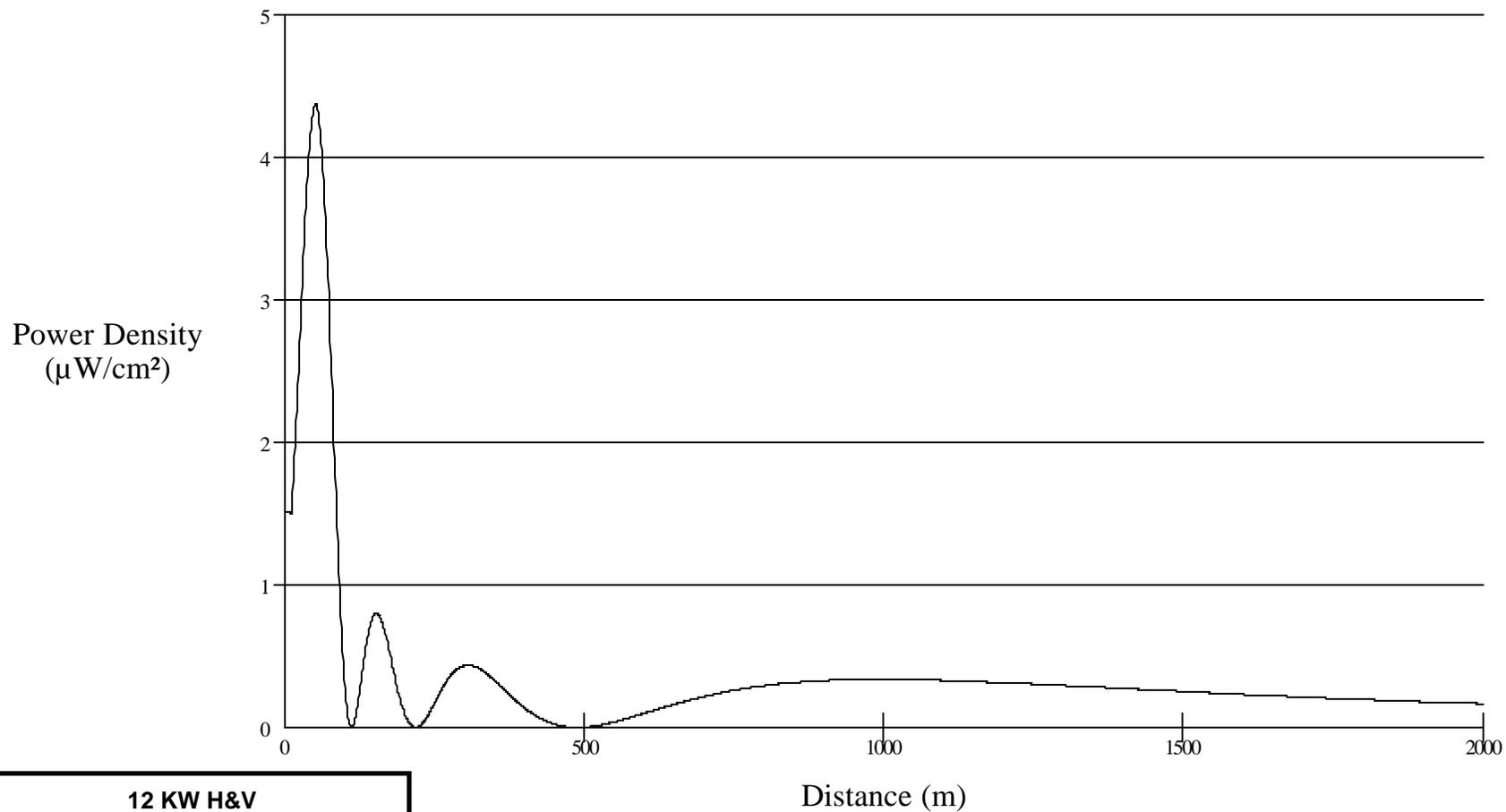
KINV is licensed for 10.5 Kilowatts horizontal and vertical at 154.8 meters HAAT on channel 299C3. Univision Radio License Corporation wishes to install an auxiliary antenna at 128 meters above ground level on the existing tower of the main facility. This height will result in a HAAT of 136.8 meters using three-second terrain data for analysis. The proposed facility will operate at 12 Kilowatts horizontal and vertical utilizing a 4 bay ERI LPX type full wave spaced antenna. The one Milivolt contour of the proposed auxiliary will not exceed that of the main licensed facility. Please see the following page for a demonstration of compliance with 73.1675.

**ENVIRONMENTAL**

The proposed antenna and power were studied using the OET FM Model program for NIER compliance. This is considered a single user site. The KINV main will not operate simultaneously with the proposed auxiliary facility. The maximum contribution of the proposed facility at two meters above ground level is 4.3 microwatts/centimeter<sup>2</sup>. This level occurs at 52 meters from the base of the tower and is 2.1% of the maximum for general population, uncontrolled exposure level and exempts the applicant from further study, as this is an insignificant contributor. No other alterations to the structure or site other than adding this antenna and transmission line will occur as a result of a grant of this application. The site is fenced and there are signs warning of radiation hazards to climbers. The applicant controls this tower and will reduce or remove energy from the antenna as necessary to comply with the power density levels specified in 1.1310 if climbing the structure for maintenance is necessary. Please see the following pages for the output of the FM Model program.



### Power Density vs Distance



**12 KW H&V  
4 BAY FULL WAVE  
"ROTO TILLER"  
128 M AGL**