

**TECHNICAL EXHIBIT**  
**SUPPORTING APPLICATION FOR CONSTRUCTION PERMIT**  
**AUXILIARY ANTENNA**  
**UNIVISION RADIO LICENSE CORPORATION**  
**KJFA (FM)**  
**ALBUQUERQUE, NEW MEXICO**  
**FACILITY ID: 16750**

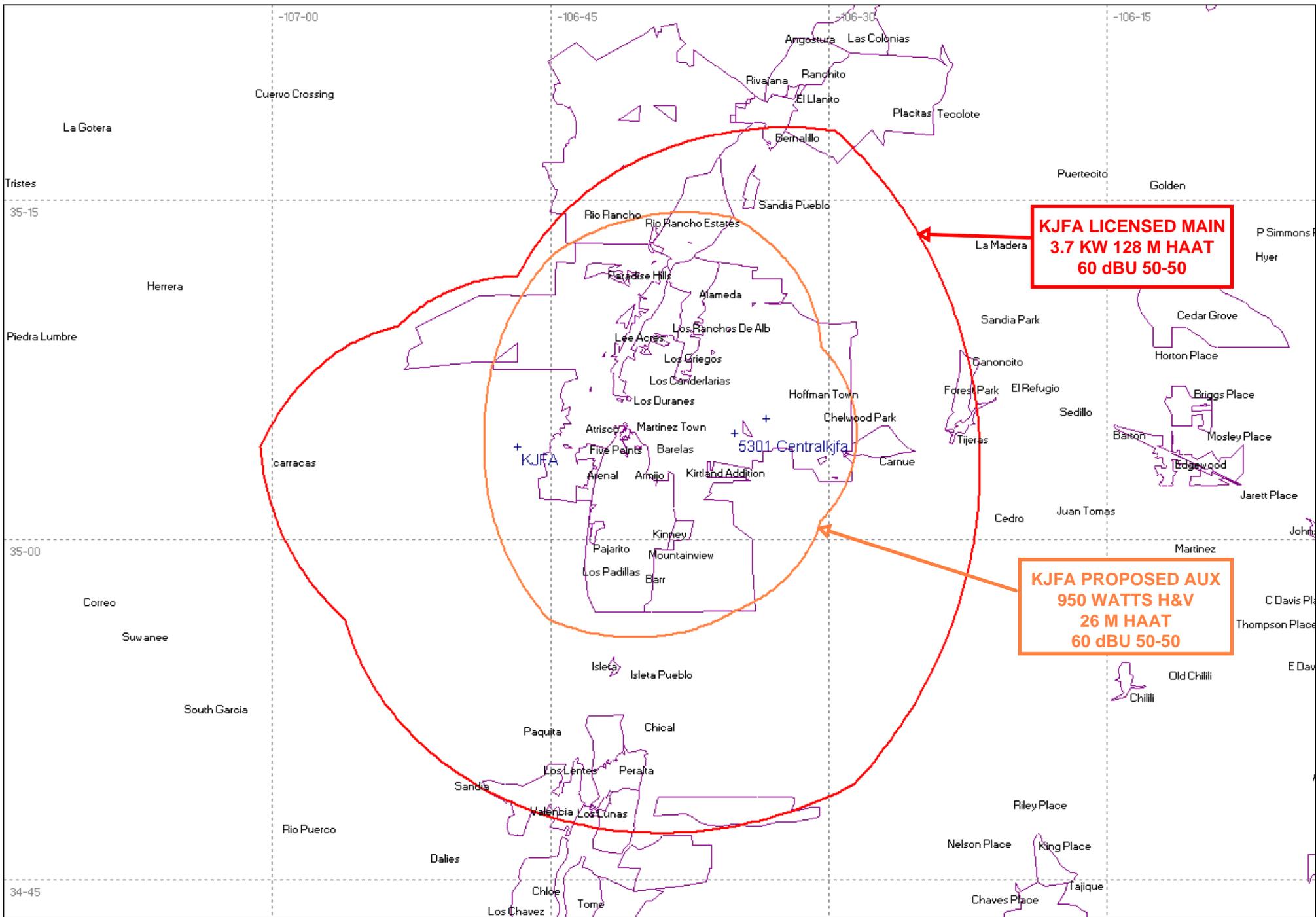
KJFA operates on Channel 267A with an effective radiated power of 3700-Watts maximum, horizontal and vertical at 128 meters height above average terrain. Univision Radio wishes to construct an auxiliary on the roof of an existing building at 5301 Central in Albuquerque. This site will have a two bay full wave spaced antenna with a radiation center at 67 meters. The overall height of the building will not be increased by the addition of this antenna. The proposed antenna will have an effective radiated power of 950 Watts horizontal and vertical with a height above average terrain of 25.9 meters. The radiation center is 1669.35 meters above mean sea level. This will be a multi-purpose auxiliary antenna, as Univision Radio is filing concurrent applications for four other of its licensed facilities. This will not be considered a multi-user site, as the antenna and transmitter used will accommodate only one facility at a time.

**NIER SAFETY AND ENVIRONMENTAL STATEMENT**

According to the OET FM Model software, the maximum power density level anywhere at two meters above ground level is 2.15 microwatts/centimeter<sup>2</sup>. This level occurs at 44 meters from the base of the support structure. This level is 1.07% of the maximum for general population, uncontrolled exposure and exempts the licensee from further study, as it is less than 5% of the maximum level for general population, uncontrolled exposure level at two meters above ground level. There are no other tall buildings nearby that would place humans in the main aperture of the proposed antenna. The "Rototiller" EPA antenna type was used for this study. There exists the potential for power density levels to occur on the roof of the building which are above the maximum permissible for human exposure. This is a controlled access rooftop. No personnel will have access to the roof who are not informed of safety procedures involving non-ionizing electromagnetic radiation. No operation of the antenna will occur with personnel on the roof near the antenna. No alteration of the rooftop of the building will occur other than the addition of the above described antenna as result of a grant of this application. In the event of maintenance involving personnel on the rooftop, the antenna will be de-energized and/or protective devices utilized. The proposed site is therefore exempt from further study under 1.1306 and 1.1307 and will comply with the guidelines for non-ionizing electromagnetic exposure in 1.1310, with the safety procedures described above.

Please see the following pages for a demonstration of compliance with 73.1675a, and the graph from FM Model showing the contribution of this antenna at two meters above ground level.

If there are any questions concerning the technical aspects of this application, please contact the preparer at the telephone number listed under Section III, preparer's certification.



**TWO BAY FULL WAVE  
"ROTOTILLER"  
67 METERS ABOVE GROUND  
950 WATTS H&V**

Power Density vs Distance

