

EXHIBIT 35  
(Page 1 of 3)

NONIONIZING RADIATION COMPLIANCE  
Bryan Broadcasting License Corporation  
College Station, TX

The proposed KNDE auxiliary facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed facilities will employ an Aldena "Twin-V" style three bay circularly polarized full wave spaced non-directional antenna that will be mounted at the 53.3 meter level on an existing 68.0 meter tower and will operate with an effective radiated power of 3.7 kilowatts. This tower is also used as part of the antenna system for KZNE(AM)- College Station, Texas, which operates on 1150 kHz, and is part the proposed antenna array for KWBC(AM) - College Station, Texas, which will operate on 1550 kHz. This tower has an electrical height of  $131.1^\circ$  (0.36 wavelengths) on 1550 kHz and  $93.4^\circ$  (0.26 wavelengths) on 1150 kHz. KZNE operates with 1 kilowatt nondirectional day using this tower and 500 watts directional night using a three tower directional antenna system which includes this tower. KWBC will operate at a power level of 1.5 kilowatts day and 45 watts at night using the same directional pattern, which includes this tower, for daytime and nighttime operation.

The predicted power density levels at two meters above ground for the proposed KNDE auxiliary facilities were calculated using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 35.0. This figure shows that the maximum predicted power density at two meters above ground level for the proposed KNDE auxiliary facilities will be  $14.6 \mu\text{W}/\text{cm}^2$ , or 7.3% of the permitted level for uncontrolled exposure, which will occur at a horizontal distance of 23.6 meters from the base of this tower. This figure also shows that the predicted power density at two meters above ground from the proposed KNDE auxiliary antenna will exceed  $10 \mu\text{W}/\text{cm}^2$ , or 5% of the permitted level for uncontrolled exposure, between the distances of 10.8 meters and 34 meters from the base of the tower which will support the proposed KNDE auxiliary antenna. This area will also come no closer than 14.4 meters from Tower #1 of the proposed KWBC antenna system, 21 meters from Tower #3 of the

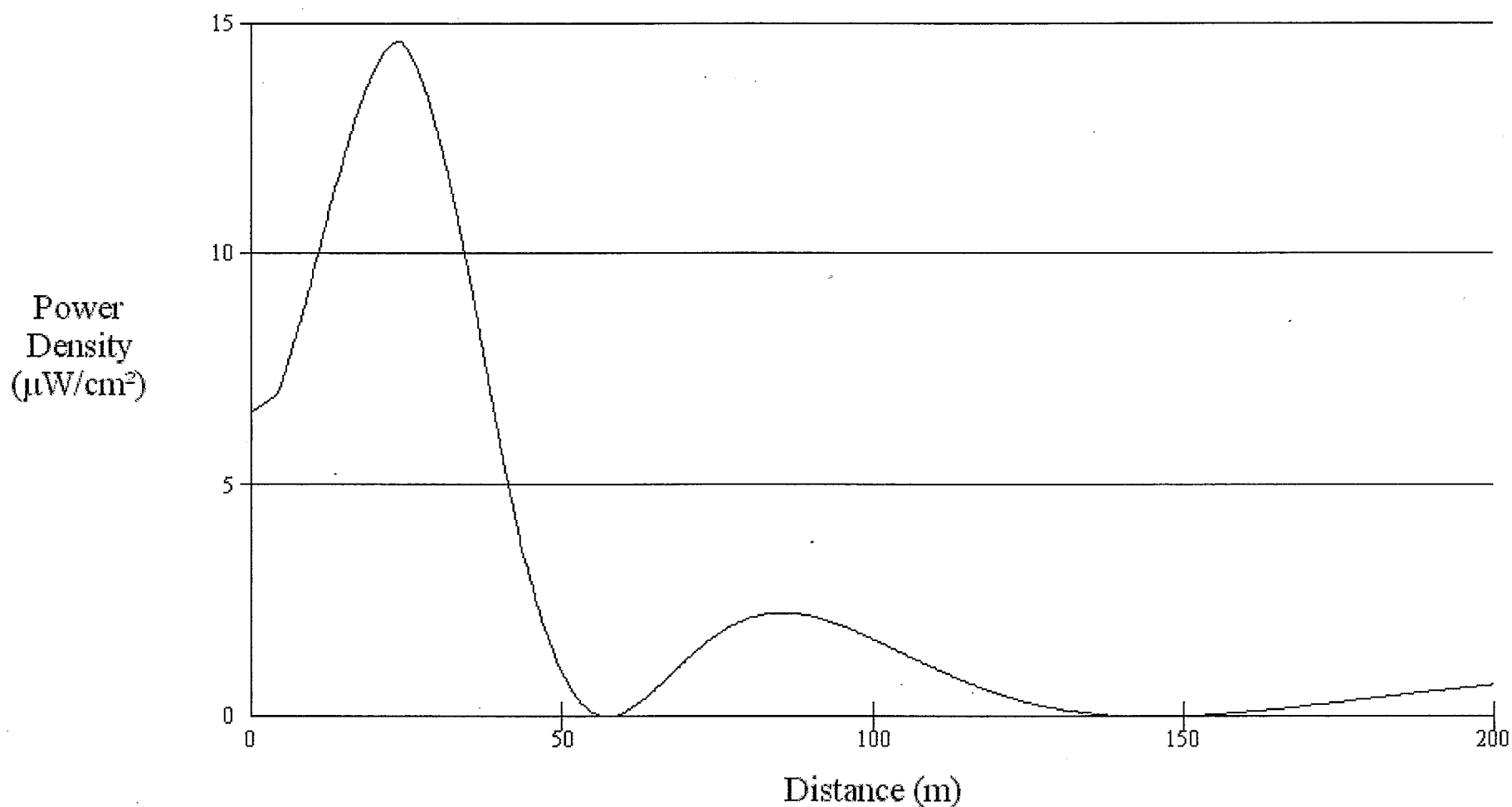
EXHIBIT 35  
(Page 2 of 3)

KZNE antenna system, and 50.7 meters from Tower #1 of the KZNE antenna system. Interpolating from the tables found on Pages 3 and 4 of OET Bulletin 65A using a worst case assumptions of 1.5 kilowatts in each tower for KWBC and 1.0 kilowatts in each tower for KZNE found the predicted KZNE power density will only exceed 5% of the permitted level for uncontrolled exposure at locations within 3 meters of any of these towers and the predicted KWBC power density level will only exceed 5% of the permitted level for uncontrolled exposure within 3.5 meters of any of these towers.

Based upon this information, it is obvious that there is no common area where the predicted KNDE auxiliary antenna power density and the predicted KZNE and/or KWBC power densities will exceed 5% of the permitted level for uncontrolled exposure. As a result, it isn't necessary to include either KZNE or KWBC in this analysis, which makes it obvious that the proposed KNDE auxiliary facilities will easily comply with the FCC criteria regarding human exposure to nonionizing radiation.

KNDE will also take appropriate steps to insure that workers that must be on this tower will not be exposed to levels of nonionizing radiation that are in excess of the permitted level for controlled exposure. These steps will include the cessation of operation or a reduction in power, as appropriate, when work becomes necessary in areas on this tower where the power density levels are in excess of the permitted level for controlled exposure.

# Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="200"/>	Antenna Type:	<input type="text" value="Jampro 'Double V' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="3700"/>	Number of Elements:	<input type="text" value="3"/>
Vertical ERP (W):	<input type="text" value="3700"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="53.3"/>		

FIG. 35.0

**KNDE POWER DENSITY CALCULATIONS  
(AUXILIARY FACILITIES)**

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