

EXHIBIT 22  
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NONIONIZING RADIATION COMPLIANCE  
Kent State University  
Kent, OH

The proposed WKSU-FM facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed WKSU-FM facilities will employ a Jampro JADP-2/3R two bay, three around, cavity backed radiator panel antenna that will be mounted in place of the station's presently licensed antenna system at the 255 meter level on an existing 281.9 meter tower. This tower also supports the antennas for WZIP(FM), WQMX(FM), WEAO(TV), and its associated DTV station WEAO-DT.

Table 22.0 and Figure 22.0 present the vertical radiation pattern for this antenna, which was supplied by the manufacturer. Since the FCC's "FM Model" computer program does not have the capability to calculate power density levels for panel antennas, the power density levels at two meters above ground level for the proposed WKSU-FM facilities were calculated using Equation (9), found on Page 22 of FCC OET Bulletin No. 65. Using this equation in conjunction with the vertical radiation pattern yields a worst case predicted power density of  $1.01 \mu\text{W}/\text{cm}^2$  at two meters above ground level, which will occur at a horizontal distance of 229.2 meters from the base of this tower. Since the permitted power density in the FM band is  $200 \mu\text{W}/\text{cm}^2$ , this amounts to only 0.51% of the permitted level for uncontrolled exposure. Since this value is less than 5% of the permitted level, the proposed modified WKSU-FM facilities are exempted from processing under this standard and need not be considered in conjunction with other co-located and nearby facilities to evaluate uncontrolled exposure compliance with this exposure standard..

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WKSU-FM, in conjunction with the other co-located facilities, will continue to 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 by one or more of these facilities, 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.

TABLE OF FIELD STRENGTH FOR : JADP23.ELV

INCREMENTAL DEGREES

	0	1	2	3	4	5	6	7	8	9
+	1.000	.998	.994	.987	.976	.963	.937	.918	.897	.873
-	1.000	.998	.994	.987	.976	.963	.937	.918	.897	.873
Γ -10	.846	.809	.778	.738	.703	.660	.616	.577	.531	.490
E -20	.443	.396	.349	.306	.260	.214	.169	.125	.083	.041
G -30	.000	.040	.078	.115	.150	.183	.212	.242	.270	.296
R -40	.321	.344	.365	.379	.396	.412	.426	.439	.443	.452
E -50	.460	.467	.472	.468	.470	.472	.473	.472	.462	.460
E -60	.456	.452	.448	.443	.437	.431	.424	.417	.409	.401
S -70	.393	.374	.356	.347	.328	.308	.289	.269	.259	.240
-80	.220	.210	.210	.200	.200	.190	.180	.180	.170	.170
-90	.160									

TABLE 22.0

WKSU-FM PROPOSED  
VERTICAL RADIATION PATTERN

Kent State University  
 Kent, OH

Frequency: <MHz> 94.90

File Name: JADP23.ELU

JAMPRO ANTENNAS INC.

Bays : 2

ELEVATION PATTERN

Spacing (Wavelength): 1.00

Model : JADP6

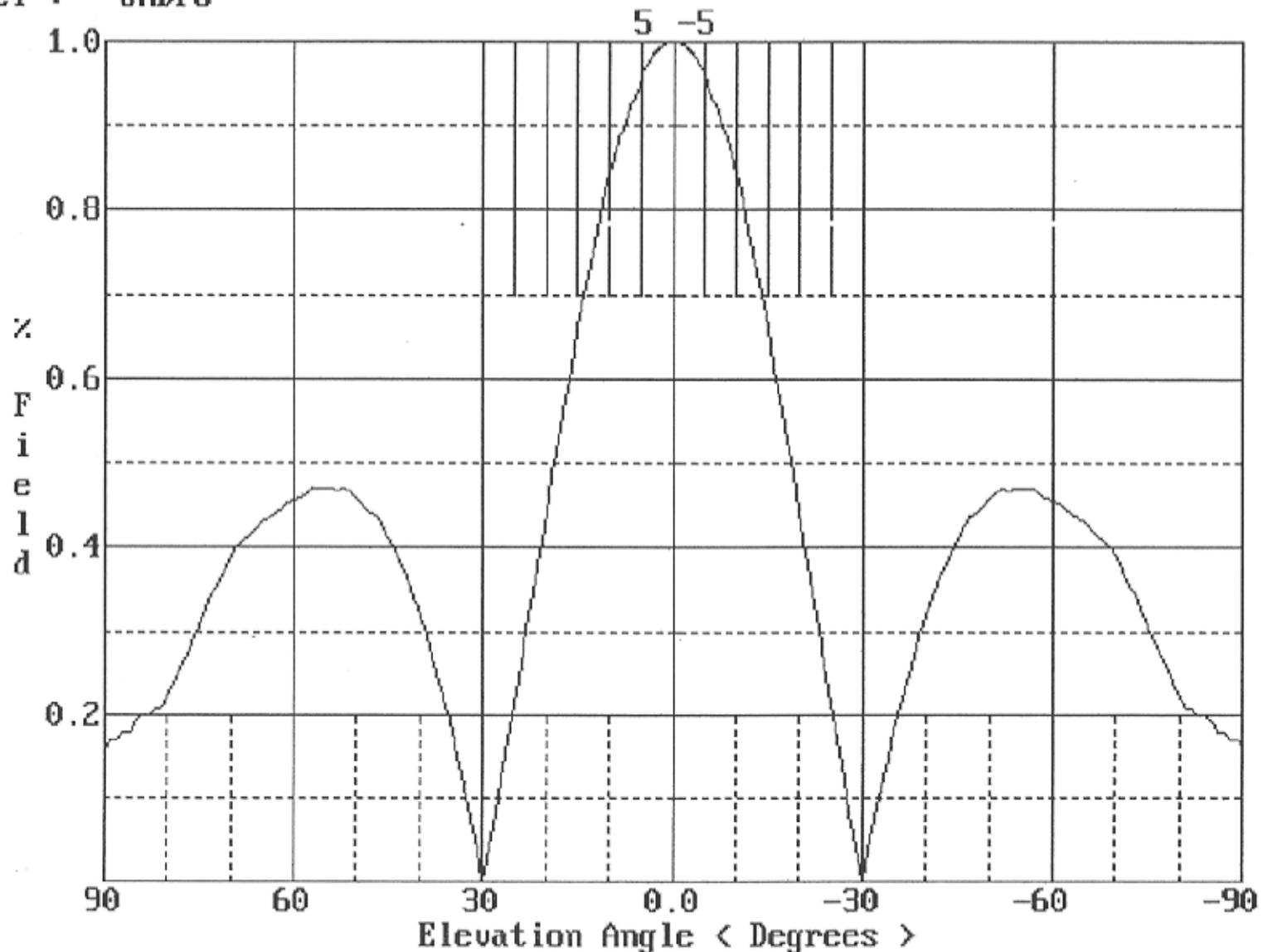


FIG. 22.0

WKSU-FM PROPOSED  
VERTICAL RADIATION PATTERN

Kent State University  
Kent, OH