

EXHIBIT 29
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NONIONIZING RADIATION COMPLIANCE
Bryan Broadcasting License Subsidiary, Inc.
College Station, TX

The proposed KTSR facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The tower that will support the KTSR antenna also supports the antenna for KYLE(TV) - Bryan, Texas which operates on Channel 28. This tower will also support the antenna for KYLE-DT - Bryan, Texas, which holds a construction permit for operation on Channel 29 and the antenna for a proposed new noncommercial educational FM ("NCE-FM") station in Bryan, Texas, which proposes operation on FM Channel 220A using a vertically polarized antenna.

Table 29.0 presents the vertical radiation pattern for the antenna used by KYLE(TV). This vertical radiation pattern was used in conjunction with Equation (2), found on Page 30 of Supplement A to Edition 97-01 of FCC OET Bulletin 65, to calculate the predicted power density contribution from the KYLE(TV) facilities at two meters above ground level.

The predicted power density contribution at two meters above ground for the authorized KYLE-DT facilities was calculated assuming 100% downward radiation using this same equation, except that the average DTV power of 50 kilowatts was substituted for the expression $[0.4ERP_V + ERP_A]$ to compensate for the fact that DTV powers are expressed in terms of average power, rather than peak power, as is the case for analog TV.

The predicted power density contribution at two meters above ground for the proposed NCE-FM facilities was calculated assumed 100% downward radiation using Equation (9), found on Page 22 of Edition 97-01 of FCC OET Bulletin 65.

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The proposed KTSR antenna will be a Jampro JHPC-5, five bay circularly polarized antenna, which will be mounted at the 147.8 meter level on this tower and which will operate with an effective radiated power of 36 kilowatts. The power density contribution from the proposed KTSR facilities at two meters above ground was calculated using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 29.1.

Table 29.2 presents a tabulation of the contributions from all of these stations. As shown by this table, based on a worst case assumption that the maximum power density from all four of these stations occurs at the same location, the total maximum predicted power density at two meters above ground level for all of these facilities will be 19.83% of the permitted level for uncontrolled exposure. Thus the implementation of the proposed KTSR facilities from this tower will not result in power density levels at ground level that are in excess of the permitted level for uncontrolled exposure.

KTSR, in conjunction with these other co-located facilities, 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 by any or all of these facilities, as appropriate, when work becomes necessary on this tower in the areas where the total power density levels are in excess of the permitted level for controlled exposure.

TABLE 29.0

**KYLE VERTICAL
RADIATION PATTERN**

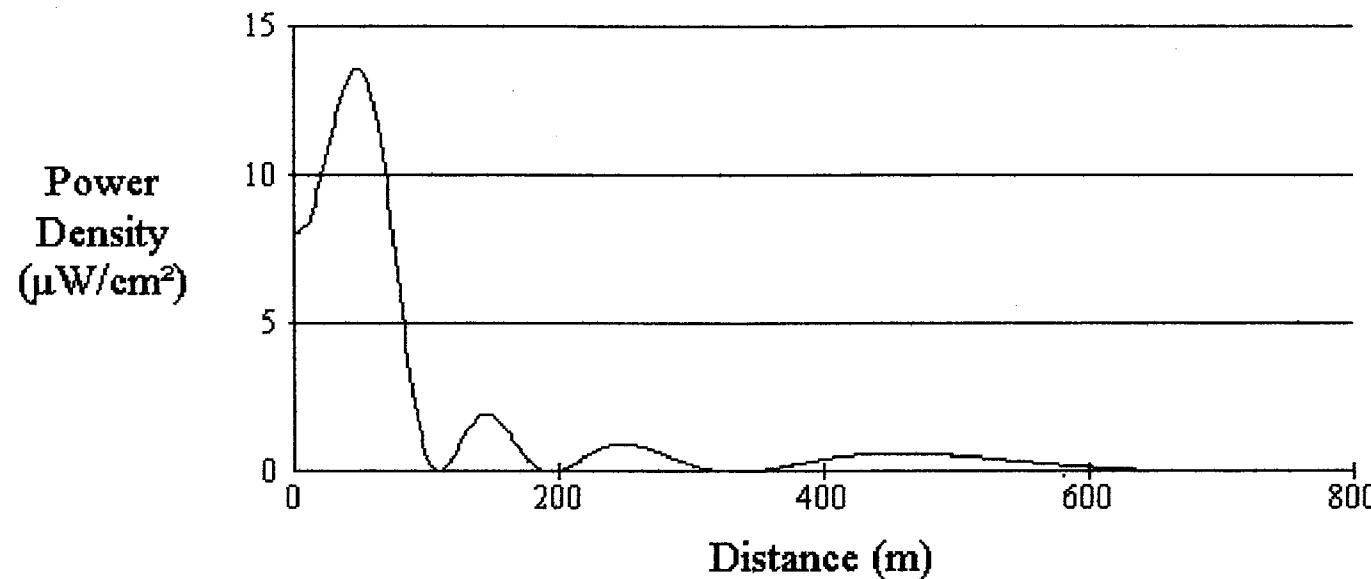
**Bryan Broadcasting License
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College Station, TX**



**TABULATED DATA FOR ELEVATION PATTERN
TYPE ATW32G4**

ANGLE FIELD dB -5° TO 10°	ANGLE FIELD dB 10° TO 90°	ANGLE FIELD dB	ANGLE FIELD dB	ANGLE FIELD dB
IN 0.25° INCREMENTS		IN 0.5° INCREMENTS		
-5.00	0.093	-20.60	9.50	0.080 -21.97
-4.75	0.059	-24.61	9.75	0.061 -24.36
-4.50	0.043	-27.29	10.00	0.042 -27.62
-4.25	0.081	-21.80	10.50	0.054 -25.32
-4.00	0.128	-17.88	11.00	0.075 -22.50
-3.75	0.160	-15.91	11.50	0.058 -24.72
-3.50	0.169	-15.44	12.00	0.031 -30.23
-3.25	0.149	-16.53	12.50	0.053 -25.55
-3.00	0.102	-19.82	13.00	0.064 -23.94
-2.75	0.052	-25.71	13.50	0.043 -27.41
-2.50	0.097	-20.26	14.00	0.028 -31.12
-2.25	0.188	-14.54	14.50	0.051 -25.92
-2.00	0.271	-11.33	15.00	0.054 -25.38
-1.75	0.329	-9.65	15.50	0.032 -29.92
-1.50	0.347	-9.18	16.00	0.028 -31.03
-1.25	0.317	-9.97	16.50	0.048 -26.43
-1.00	0.237	-12.52	17.00	0.046 -26.82
-0.75	0.120	-18.42	17.50	0.025 -32.22
-0.50	0.119	-18.48	18.00	0.029 -30.90
-0.25	0.298	-10.52	18.50	0.045 -26.99
0.00	0.499	-6.04	19.00	0.039 -28.09
0.25	0.688	-3.24	19.50	0.020 -33.94
0.50	0.845	-1.46	20.00	0.029 -30.90
0.75	0.952	-0.43	20.50	0.042 -27.62
1.00	1.000	0.00	21.00	0.035 -29.19
1.25	0.985	-0.13	21.50	0.018 -35.14
1.50	0.911	-0.81	22.00	0.028 -31.09
1.75	0.791	-2.04	22.50	0.039 -28.13
2.00	0.641	-3.86	23.00	0.032 -29.92
2.25	0.486	-6.26	23.50	0.016 -35.86
2.50	0.357	-8.95	24.00	0.026 -31.60
2.75	0.285	-10.89	24.50	0.037 -28.68
3.00	0.277	-11.15	25.00	0.030 -30.40
3.25	0.292	-10.69	25.50	0.015 -36.25
3.50	0.294	-10.65	26.00	0.024 -32.36
3.75	0.268	-11.43	26.50	0.035 -29.22
4.00	0.220	-13.16	27.00	0.030 -30.57
4.25	0.161	-15.86	27.50	0.015 -36.36
4.50	0.117	-18.64	28.00	0.021 -33.51
4.75	0.115	-18.76	28.50	0.032 -29.79
5.00	0.142	-16.98	29.00	0.030 -30.52
5.25	0.162	-15.80	29.50	0.016 -35.76
5.50	0.164	-15.70	30.00	0.018 -35.09
5.75	0.146	-16.74	30.50	0.030 -30.52
6.00	0.113	-18.95	31.00	0.031 -30.29
6.25	0.079	-22.06	31.50	0.019 -34.38
6.50	0.068	-23.38	32.00	0.014 -37.20
6.75	0.086	-21.33	32.50	0.026 -31.67
7.00	0.107	-19.39	33.00	0.031 -30.23
7.25	0.117	-18.63	33.50	0.023 -32.77
7.50	0.111	-19.07	34.00	0.012 -38.27
7.75	0.092	-20.73	34.50	0.021 -33.56
8.00	0.066	-23.62	35.00	0.030 -30.49
8.25	0.049	-26.27	35.50	0.027 -31.28
8.50	0.057	-24.96	36.00	0.016 -36.08
8.75	0.076	-22.43	36.50	0.014 -37.02
9.00	0.089	-21.03	37.00	0.026 -31.84
9.25	0.090	-20.89	37.50	0.030 -30.60

Power Density vs Distance



Office of Engineering and Technology

Distance (m):	300	Antenna Type:	Jampro "Double V" (EPA)
Horizontal ERP (W):	36000	Number of Elements:	5
Vertical ERP (W):	36000	Element Spacing:	1
Antenna Height (m):	147.8		

FIG. 29.1

KTSR POWER DENSITY CALCULATIONS

Bryan Broadcasting License Subsidiary, Inc.
College Station, TX

TABLE 29.2

**POWER DENSITY
CALCULATIONS - 2 M AGL**
 Bryan Broadcasting License Subsidiary, Inc.
 College Station, TX

<u>Station</u>	<u>Channel</u>	Effective Radiated Power (kW)	Antenna Height (m AGL)	Calculated Power Density ($\mu\text{W}/\text{cm}^2$)	Permitted Uncontrolled Power Density ($\mu\text{W}/\text{cm}^2$)	Percent of Limit
KYLE	28	2090	195.2	1.31	369.3	0.35
KYLE-DT	29	50	195.2	44.74	373.3	11.98
NEW	220A	1.4	183.2	1.42	200	0.71
KTSR	236C2	36(CP)	147.8	13.58	200	<u>6.79</u>
Total Predicted Power Density						19.83%