

EXHIBIT 43  
(Page 1 of 4)

NONIONIZING RADIATION COMPLIANCE

KSWO Television Company, Inc.  
Lawton, OK

The proposed KSWO-DT facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed KSWO-DT antenna will be an Andrew ABW18V2-HTO-7/11 nondirectional antenna that will be mounted on the top of an existing 289 meter tower in place of the antenna presently utilized for the Channel 7 analog operation of KSWO-TV. This new antenna will be utilized by both the Channel 11 DTV operation of KSWO-DT and the Channel 7 analog operation of KSWO-TV. This center of radiation of this antenna will be 305.5 meters above ground level and the proposed KSWO-DT facilities will operate with an effective radiated power of 138 kilowatts. Table 43.0 and Figure 43.0 present the vertical radiation pattern for this antenna. Equation (2), found on Page 30 of Supplement A to OET Bulletin 65, details the calculation technique used to determine the power density at the base of a TV broadcast tower. In this case, however, it is necessary to substitute the proposed average DTV effective radiated power (138 kilowatts) for the expression  $[0.4ERP_v + ERP_A]$  in this equation to compensate for the fact that DTV power levels are expressed in terms of average power, rather than peak power, as is the case for the visual portion of an analog TV signal. Using the vertical radiation pattern data for this antenna and substituting these values into this equation yields a predicted maximum power density at two meters above ground level of  $1.85 \mu\text{W}/\text{cm}^2$ , which will occur at a depression angle of 62 degrees below horizontal and at a distance of 161.4 meters from the base of this tower. Since the maximum permitted power density for uncontrolled exposure on TV Channel 11 is  $200 \mu\text{W}/\text{cm}^2$ , this amounts to only 0.93% of the

EXHIBIT 43  
(Page 2 of 4)

permitted level for uncontrolled exposure. Since this is less than 5% of the permitted level, the proposed KSWO-DT facilities are excluded from environmental processing and need not be considered in conjunction with KSWO-TV or any other co-located facilities to establish compliance with this standard for uncontrolled exposure.

The proposed KSWO-DT facilities, in conjunction with KSWO-TV, will take appropriate steps to insure that workers who must climb this tower will not be exposed to power densities exceeding the permitted levels for controlled exposure. This will include a reduction in power or the cessation of operation, as appropriate, by either or both of these stations, at any time that workers must be on this tower in any area where the total power density exceeds the permitted level for controlled exposure.

**TABULATED DATA FOR ELEVATION PATTERN**  
**TYPE : ABW18H2H**

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
-5 To 10			10 To 90								
In 0.25 Increments			In 0.5 Increments								
-5.00	0.097	-20.30	8.75	0.047	-26.61	35.00	0.048	-26.37	62.50	0.213	-13.43
-4.75	0.104	-19.63	9.00	0.028	-31.15	35.50	0.038	-28.48	63.00	0.203	-13.84
-4.50	0.132	-17.59	9.25	0.041	-27.78	36.00	0.021	-33.49	63.50	0.190	-14.43
-4.25	0.169	-15.46	9.50	0.063	-23.98	36.50	0.010	-40.36	64.00	0.173	-15.22
-4.00	0.205	-13.78	9.75	0.082	-21.70	37.00	0.024	-32.50	64.50	0.155	-16.18
-3.75	0.233	-12.64	10.00	0.095	-20.46	37.50	0.038	-28.35	65.00	0.136	-17.32
-3.50	0.252	-11.98	10.50	0.098	-20.21	38.00	0.046	-26.77	65.50	0.117	-18.66
-3.25	0.257	-11.82	11.00	0.073	-22.75	38.50	0.045	-27.00	66.00	0.098	-20.19
-3.00	0.249	-12.09	11.50	0.030	-30.58	39.00	0.035	-29.13	66.50	0.080	-21.92
-2.75	0.232	-12.70	12.00	0.018	-34.74	39.50	0.019	-34.38	67.00	0.064	-23.85
-2.50	0.215	-13.35	12.50	0.057	-24.95	40.00	0.006	-44.57	67.50	0.051	-25.92
-2.25	0.215	-13.36	13.00	0.077	-22.31	40.50	0.021	-33.37	68.00	0.040	-28.03
-2.00	0.247	-12.15	13.50	0.074	-22.60	41.00	0.037	-28.63	68.50	0.032	-29.92
-1.75	0.315	-10.03	14.00	0.052	-25.62	41.50	0.046	-26.68	69.00	0.027	-31.23
-1.50	0.406	-7.83	14.50	0.020	-34.13	42.00	0.048	-26.42	69.50	0.026	-31.82
-1.25	0.511	-5.84	15.00	0.014	-36.80	42.50	0.041	-27.76	70.00	0.025	-31.90
-1.00	0.618	-4.18	15.50	0.039	-28.20	43.00	0.027	-31.40	70.50	0.026	-31.81
-0.75	0.721	-2.84	16.00	0.048	-26.45	43.50	0.009	-40.96	71.00	0.026	-31.73
-0.50	0.815	-1.78	16.50	0.039	-28.17	44.00	0.014	-37.29	71.50	0.026	-31.85
-0.25	0.893	-0.99	17.00	0.016	-35.68	44.50	0.032	-29.80	72.00	0.025	-32.11
0.00	0.952	-0.43	17.50	0.013	-37.56	45.00	0.047	-26.57	72.50	0.024	-32.58
0.25	0.987	-0.11	18.00	0.041	-27.67	45.50	0.055	-25.24	73.00	0.022	-33.23
0.50	1.000	-0.00	18.50	0.060	-24.43	46.00	0.055	-25.24	73.50	0.020	-34.05
0.75	0.985	-0.13	19.00	0.065	-23.78	46.50	0.047	-26.61	74.00	0.018	-35.02
1.00	0.947	-0.48	19.50	0.054	-25.30	47.00	0.032	-29.93	74.50	0.016	-36.18
1.25	0.886	-1.05	20.00	0.032	-29.85	47.50	0.013	-37.69	75.00	0.013	-37.47
1.50	0.806	-1.87	20.50	0.006	-44.85	48.00	0.013	-37.55	75.50	0.011	-38.90
1.75	0.711	-2.96	21.00	0.021	-33.50	48.50	0.034	-29.39	76.00	0.009	-40.52
2.00	0.607	-4.34	21.50	0.038	-28.32	49.00	0.052	-25.61	76.50	0.008	-42.20
2.25	0.499	-6.04	22.00	0.043	-27.32	49.50	0.066	-23.67	77.00	0.006	-43.91
2.50	0.395	-8.07	22.50	0.035	-29.18	50.00	0.072	-22.87	77.50	0.005	-45.62
2.75	0.305	-10.30	23.00	0.017	-35.18	50.50	0.071	-22.98	78.00	0.004	-47.24
3.00	0.240	-12.41	23.50	0.013	-38.00	51.00	0.063	-23.95	78.50	0.004	-48.61
3.25	0.211	-13.50	24.00	0.032	-29.81	51.50	0.051	-25.78	79.00	0.003	-49.55
3.50	0.215	-13.37	24.50	0.047	-26.60	52.00	0.039	-28.07	79.50	0.003	-50.17
3.75	0.233	-12.65	25.00	0.051	-25.91	52.50	0.036	-28.83	80.00	0.003	-50.46
4.00	0.250	-12.03	25.50	0.043	-27.34	53.00	0.045	-26.84	80.50	0.003	-50.75
4.25	0.258	-11.77	26.00	0.026	-31.79	53.50	0.060	-24.43	81.00	0.003	-51.06
4.50	0.253	-11.95	26.50	0.006	-43.83	54.00	0.073	-22.71	81.50	0.003	-51.54
4.75	0.233	-12.64	27.00	0.019	-34.30	54.50	0.082	-21.75	82.00	0.003	-52.04
5.00	0.204	-13.81	27.50	0.035	-29.16	55.00	0.085	-21.45	82.50	0.002	-52.78
5.25	0.167	-15.54	28.00	0.041	-27.74	55.50	0.081	-21.78	83.00	0.002	-53.47
5.50	0.129	-17.77	28.50	0.036	-28.87	56.00	0.074	-22.62	83.50	0.002	-54.42
5.75	0.101	-19.94	29.00	0.022	-33.32	56.50	0.066	-23.64	84.00	0.002	-55.56
6.00	0.093	-20.63	29.50	0.005	-46.10	57.00	0.063	-23.98	84.50	0.001	-57.08
6.25	0.108	-19.32	30.00	0.022	-33.20	57.50	0.072	-22.83	85.00	0.001	-58.31
6.50	0.133	-17.53	30.50	0.040	-28.01	58.00	0.092	-20.76	85.50	0.001	-60.00
6.75	0.156	-16.15	31.00	0.050	-26.06	58.50	0.116	-18.69	86.00	0.001	-60.00
7.00	0.172	-15.29	31.50	0.050	-26.06	59.00	0.142	-16.95	86.50	0.001	-60.00
7.25	0.178	-15.00	32.00	0.040	-28.02	59.50	0.166	-15.58	87.00	0.001	-60.00
7.50	0.174	-15.20	32.50	0.022	-33.14	60.00	0.187	-14.57	87.50	0.001	-60.00
7.75	0.160	-15.92	33.00	0.009	-40.79	60.50	0.203	-13.85	88.00	0.001	-60.00
8.00	0.138	-17.21	33.50	0.025	-32.08	61.00	0.214	-13.40	88.50	0.001	-60.00
8.25	0.110	-19.21	34.00	0.041	-27.71	61.50	0.219	-13.19	89.00	0.001	-60.00
8.50	0.078	-22.19	34.50	0.049	-26.12	62.00	0.218	-13.21	89.50	0.001	-60.00

TABLE 43.0

KSWO-DT VERTICAL RADIATION PATTERN

 KSWO Television Company, Inc.  
 Lawton, OK

# ANDREW ELEVATION PATTERN

Type:	ABW18H2H	
Directivity:	Numeric	dBd
Main Lobe:	16.07	(12.06)
Horizontal:	14.56	(11.63)
Beam Tilt:	0.50	
Polarization:	Horizontal	
Channel:	11	
Location:	Lawton, OK	

FIG. 43.0

## KSWO-DT VERTICAL RADIATION PATTERN

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