RF HAZARD STATEMENT

TELEVISION STATION KRCW-TV
SALEM, OREGON
CHANNEL 33 750 KW (H), 112.5 KW (V) 537 M HAAT

With respect to the potential for human exposure to radio frequency (RF) energy for the KRCW-TV facility, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF energy at ground level in excess of FCC standards.* Power density calculations were conducted at 2-m above ground† based on the following conservative assumptions, with the following results:

Radial Distance from Base of Tower Structure (m)	Angle from Horizontal (deg)	Antenna Downward Relative Field Factor‡	Distance From Transmitting Antenna (m)	Calculated Power Density (uW/cm^2)	Percent of General Population / Uncontrolled MPE (%)
0	90.00	0.001	289.60	0.0003	0.00
20	86.05	0.001	290.29	0.0003	0.00
40	82.14	0.002	292.35	0.0013	0.00
60	78.29	0.004	295.75	0.0053	0.00
80	74.56	0.012	300.45	0.0460	0.01
100	70.95	0.020	306.38	0.1228	0.03
120	67.49	0.038	313.48	0.4233	0.11
140	64.20	0.047	321.66	0.6150	0.16
160	61.08	0.074	330.86	1.4411	0.37
180	58.14	0.280	340.98	19.4250	4.96
200	55.37	0.111	351.95	2.8654	0.73
220	52.78	0.075	363.69	1.2251	0.31
240	50.35	0.067	376.12	0.9141	0.23
260	48.08	0.028	389.19	0.1491	0.04
280	45.97	0.043	402.83	0.3283	0.08
300	43.99	0.054	416.98	0.4831	0.12
400	35.90	0.049	493.83	0.2836	0.07

* See Section 1.1310 of the FCC Rules and Regulations.
† The radiation center height above ground is 291.6 m.
‡ See attached elevation pattern for transmitting antenna (Dielectric model TUM25-O4-16/64H-2-R-T).

Radial Distance from Base of Tower Structure (m)	Angle from Horizontal (deg)	Antenna Downward Relative Field Factor‡	Distance From Transmitting Antenna (m)	Calculated Power Density (uW/cm^2)	Percent of General Population / Uncontrolled MPE (%)
500	30.08	0.005	577.81	0.0022	0.00
600	25.77	0.055	666.23	0.1963	0.05
700	22.48	0.320	757.54	5.1404	1.31
800	19.90	0.195	850.80	1.5133	0.39
900	17.84	0.060	945.45	0.1160	0.03

As indicated above, the exposure to RF energy at 2-m above ground level will not exceed 4.96% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF energy and it is categorically excluded from environmental processing.

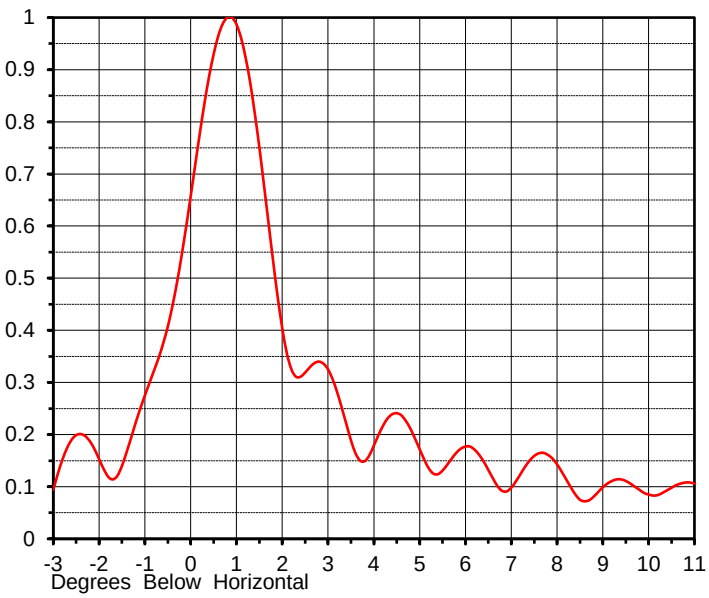
The licensee, in coordination with the other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from RF energy in excess of the FCC guidelines.

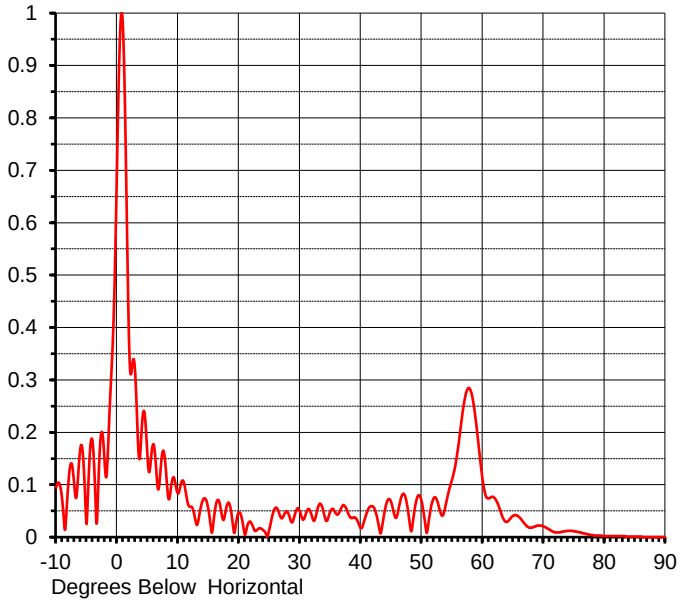
ELEVATION PATTERN

Proposal No.	**C-70671-6**
Date	**3-Mar-18**
Call Letters	**KRCW**
Channel	**33**
Frequency	**587 MHz**
Antenna Type	**TUM25-O4-16/64H-2-R-T**

RMS Directivity at Main Lobe	**26.0 (14.15 dB)**	Beam Tilt	**0.75 deg**
RMS Directivity at Horizontal	**13.4 (11.27 dB)**	Pattern Number	**16U260075**

Calculated





Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.095	10.0	0.083	30.0	0.049	50.0	0.067	70.0	0.020
-9.0	0.070	11.0	0.102	31.0	0.045	51.0	0.018	71.0	0.014
-8.0	0.103	12.0	0.058	32.0	0.039	52.0	0.075	72.0	0.009
-7.0	0.095	13.0	0.025	33.0	0.058	53.0	0.050	73.0	0.010
-6.0	0.172	14.0	0.068	34.0	0.042	54.0	0.065	74.0	0.012
-5.0	0.025	15.0	0.052	35.0	0.049	55.0	0.111	75.0	0.011
-4.0	0.179	16.0	0.046	36.0	0.044	56.0	0.174	76.0	0.009
-3.0	0.125	17.0	0.054	37.0	0.060	57.0	0.260	77.0	0.006
-2.0	0.134	18.0	0.060	38.0	0.043	58.0	0.280	78.0	0.004
-1.0	0.299	19.0	0.024	39.0	0.037	59.0	0.210	79.0	0.003
0.0	0.718	20.0	0.047	40.0	0.017	60.0	0.108	80.0	0.002
1.0	0.961	21.0	0.004	41.0	0.047	61.0	0.074	81.0	0.002
2.0	0.356	22.0	0.027	42.0	0.058	62.0	0.074	82.0	0.002
3.0	0.306	23.0	0.014	43.0	0.018	63.0	0.047	83.0	0.002
4.0	0.199	24.0	0.013	44.0	0.054	64.0	0.029	84.0	0.001
5.0	0.152	25.0	0.016	45.0	0.066	65.0	0.041	85.0	0.001
6.0	0.177	26.0	0.056	46.0	0.043	66.0	0.038	86.0	0.001
7.0	0.110	27.0	0.036	47.0	0.083	67.0	0.024	87.0	0.000
8.0	0.129	28.0	0.047	48.0	0.028	68.0	0.018	88.0	0.000
9.0	0.106	29.0	0.036	49.0	0.064	69.0	0.022	89.0	0.000
								90.0	0.000