

EXHIBIT 24
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NONIONIZING RADIATION COMPLIANCE
Athabascan Fiddlers Association, Inc.
Fairbanks, AK

The facilities which were constructed for KRFF fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. These facilities operate with a nondirectional effective radiated power of 10 kilowatts combined into the existing six bay half wave spaced licensed antenna system for KZVV(FM) - Fairbanks, Alaska. In addition to KZVV and the proposed KRFF facilities, there are a number of other non-excluded RF sources located within 315 meters of the KZVV/KRFF tower at the Ester Dome transmitter site. These facilities include:

KUAC(FM)	Fairbanks, AK	Channel 210C
KQHE(FM)(CP)	Fairbanks, AK	Channel 224C2
KDJF(FM)	Ester, AK	Channel 228C1
KYSC(FM)	Fairbanks, AK	Channel 245C1
KJNP-FM	North Pole, AK	Channel 262C1
KJNP-TV	North Pole, AK	Channel 20
KTVF(TV)	Fairbanks, AK	Channel 26

Additionally, although it appears that they may have actually ceased operation, there are also twelve Low Power TV stations licensed to operate on Channels 30 through 50 which are combined into two identical Scala 770-256 panel antennas mounted at the 15 meter and 31 meter levels on the KJNP-TV tower.

A fence is installed around the perimeter of the Ester Dome transmitter site to restrict general public access to all areas where the total power density levels could exceed the permitted level for uncontrolled exposure to nonionizing radiation. Figure 24.0 depicts the placement of this fence in relation to the towers that support the antennas located at this site.

KJNP-TV operates on DTV Channel 20 with a maximum effective radiated power of 30.9 kilowatts using an RF Technologies CS-2030-SP-14-CUSTOM horizontally

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polarized directional antenna with its center of radiation 39.6 meters above ground level. Using the data that was provided as part of application BPCDT-20091022ABO for this facility yields a predicted maximum power density at two meters above ground level outside this fenced area of $5.23 \mu\text{W}/\text{cm}^2$. Since the permitted power density for uncontrolled exposure on Channel 20 is $337.3 \mu\text{W}/\text{cm}^2$, this amounts to only 1.55% of the permitted level for uncontrolled exposure. Since this value is also less than 5% of the permitted level, KJNP-TV is excluded from environmental processing under this standard and need not be considered in conjunction with other co-located or nearby facilities in evaluating uncontrolled exposure compliance with this standard outside this fence.

KTVF(TV) operates on DTV Channel 26 with a maximum effective radiated power of 27 kilowatts using an ERI AL12M-26-PM horizontally polarized directional antenna with its center of radiation 20 meters above ground level. Using the data that was provided as part of application BPCDT-20090406ALF for this facility in conjunction with the manufacturer's antenna data shown in Figure 24.1 and Table 24.1 yields a predicted maximum power density for KTVF at two meters above ground level outside this fenced area of $17.7 \mu\text{W}/\text{cm}^2$. Since the permitted power density for uncontrolled exposure on Channel 26 is $361.3 \mu\text{W}/\text{cm}^2$, this amounts to only 4.9% of the permitted level for uncontrolled exposure. Since this value is also less than 5% of the permitted level, KTVF is also excluded from environmental processing under this standard and need not be considered in conjunction with other co-located or nearby facilities in evaluating uncontrolled exposure compliance with this standard outside this fence.

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Since the Low Power TV stations that are licensed to operate from this site are all authorized to be combined into one of two identical Scala 770-256 panel antennas that are mounted on the KJNP-TV tower, as described above, the prediction of the power density levels at two meters above ground level for these LPTV facilities assumed the highest value of effective radiated power (30 kilowatts) at each antenna height. Table 24.2 and Figure 24.2 present the vertical radiation pattern for this antenna, which was supplied by the manufacturer.

Using this vertical radiation data and an antenna height of 15 meters above ground level for the lower antenna in conjunction Equation (2) yields a worst case predicted power density of $1.34 \mu\text{W}/\text{cm}^2$ at two meters above ground level outside the fenced area for each of the stations authorized to utilize this lower antenna. Channel 30 is the lowest channel occupied by any of these seven stations and, as a result, has the lowest permitted power density limit ($377.3 \mu\text{W}/\text{cm}^2$) for uncontrolled exposure. Thus, the predicted power density outside the fenced area for each of the seven low power TV stations authorized to utilize this lower antenna is 0.36%, or less, of the permitted level for uncontrolled exposure. Since this is less than 5% of the permitted level, all seven of these LPTV stations are excluded from environmental processing and need not be included in determining the total power density in the vicinity of this site.

For the antenna located at a height of 31 meters above ground level, these calculations yield a worst case predicted power density of $3.04 \mu\text{W}/\text{cm}^2$ at two meters above ground level outside the fenced area for each of the stations authorized to use this upper antenna. Channel 32 is the lowest channel occupied by any of the five stations authorized to use this upper antenna and, as a result, has the lowest permitted power den-

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sity limit ($385.3 \mu\text{W}/\text{cm}^2$) for uncontrolled exposure. Thus, the predicted power density outside the fenced area for each of these five low power TV stations is 0.79%, or less, of the permitted level for uncontrolled exposure. Since this is less than 5% of the permitted level, all five of these LPTV stations are also excluded from environmental processing and need not be included in determining the total power density in the vicinity of this site.

The predicted power density levels at two meters above ground level for KUAC, KYSC, KJNP-FM, KZVV, and the KRFF facilities were calculated using the FCC's "FM Model" computer program. (All of the other stations discussed above were excluded from this calculation based on the fact that they contribute less than 5% of the permitted level for uncontrolled exposure.) Figures 24.3 through 24.7 present the results of the calculations for these five stations. As shown in Figure 24.3, the highest power density predicted at two meters above ground level for KUAC is $73.1 \mu\text{W}/\text{cm}^2$. Since the permitted power density for uncontrolled exposure in the FM band is $200 \mu\text{W}/\text{cm}^2$, this amounts to 36.6% of the uncontrolled exposure limit. As shown in Figure 24.4, the maximum predicted power density at two meters above ground level for KYSC is $42.1 \mu\text{W}/\text{cm}^2$, or 21.1% of the permitted level for uncontrolled exposure. Figure 24.5 shows that the maximum predicted power density at two meters above ground level for KJNP-FM is $45.7 \mu\text{W}/\text{cm}^2$, or 22.9% of the permitted level for uncontrolled exposure.

Figure 24.6 shows that the maximum predicted power density at two meters above ground level for the KRFF facilities is $14.3 \mu\text{W}/\text{cm}^2$ or 7.2% of the permitted level for uncontrolled exposure. Summing the predicted power densities from all four of these FM stations yields a worst case predicted total predicted power density of 87.8% of the permitted level for uncontrolled exposure.

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Figure 24.7 shows that the maximum predicted power density at two meters above ground level for the KZVV facilities is $4.6 \mu\text{W}/\text{cm}^2$, or 2.3% of the permitted level for uncontrolled exposure. Since this value is less than 5% of the permitted level, KZVV is also excluded from environmental processing under this standard and need not be considered in conjunction with the other co-located or nearby facilities in evaluating uncontrolled exposure compliance with this standard.

As part of the license application (BLH-20080321ABF) for KDJF, the applicant was required to provide measurements to document that the maximum power density contribution from KDJF outside the fence did not exceed 5% of the permitted level for uncontrolled exposure. Based on this documentation, KDJF can be excluded from these calculations. (As a worst case alternative, including KDJF in these calculations would only increase the total power density outside the fence to 92.8% of the permitted level for uncontrolled exposure.)

Based upon this information, the KRFF facilities, in conjunction with the other nearby facilities, do not result in total power density levels outside this fenced area that are in excess of the permitted level for uncontrolled exposure to nonionizing radiation.

KRFF, in conjunction with the other facilities that occupy this site, will continue to take appropriate steps to insure that workers that must be inside the fenced area 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 at any location within this fenced area where the total power density levels are in excess of the permitted level for controlled exposure.

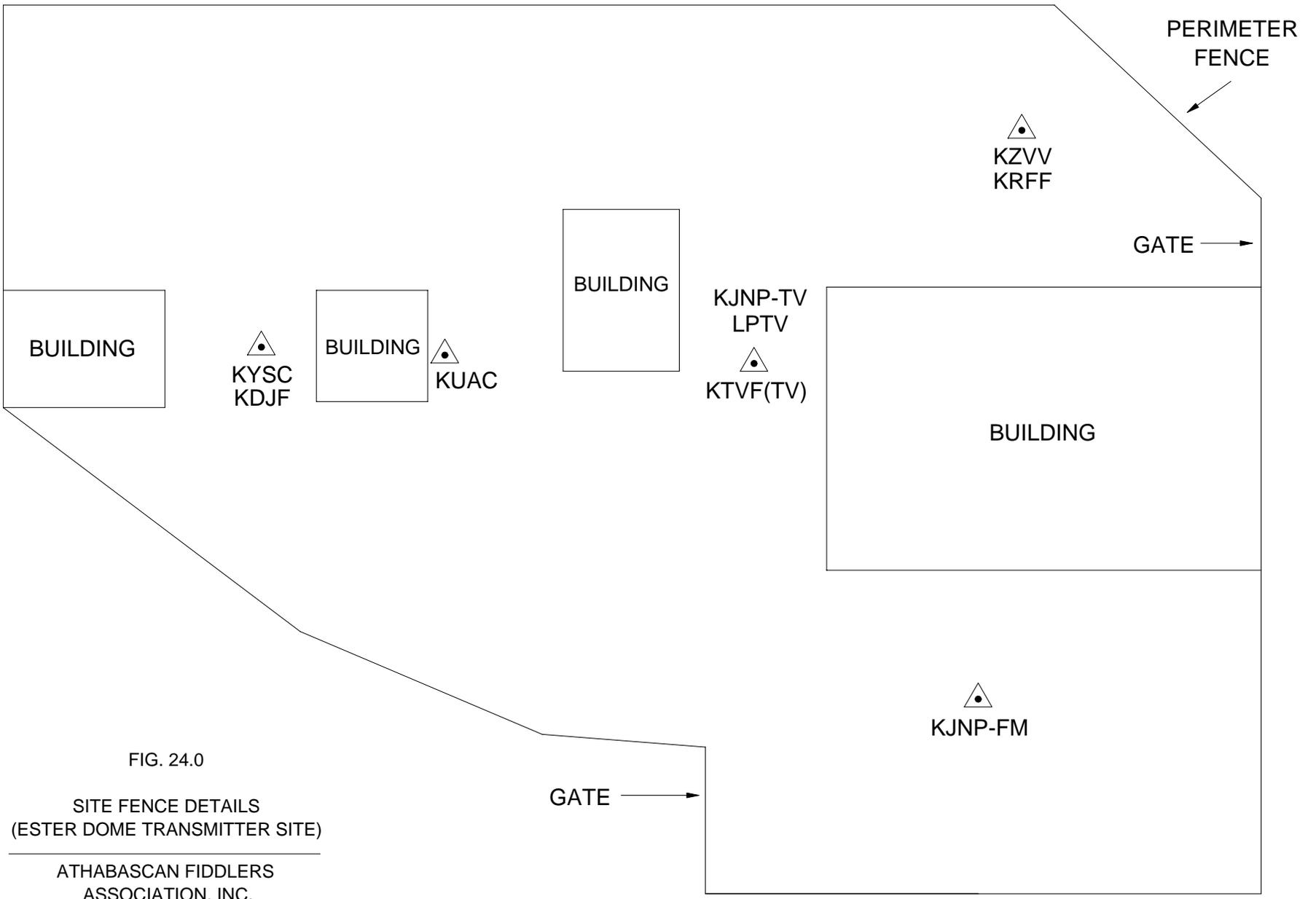


FIG. 24.0

SITE FENCE DETAILS
(ESTER DOME TRANSMITTER SITE)

ATHABASCAN FIDDLERS
ASSOCIATION, INC.
FAIRBANKS, AK

CARL E. SMITH CONSULTING ENGINEERS
2324 N. CLEVE-MASS RD., BOX 807
BATH, OHIO 44210-0807
(330) 659-4440



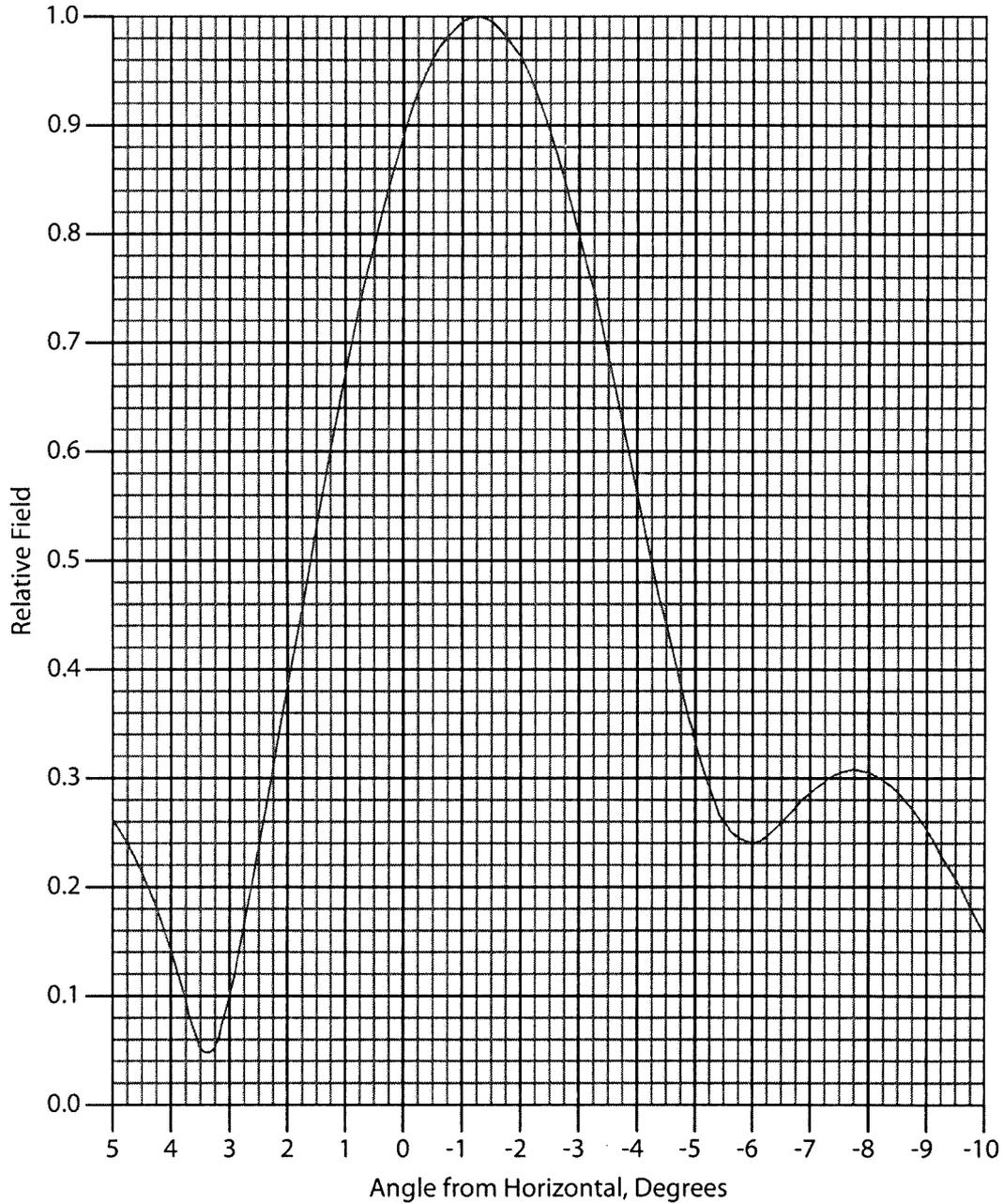
Elevation Pattern

Type:	AL12PM5	
Directivity	Numeric	dBd
Main Lobe:	12.00	(10.79)
Horizontal:	9.52	(9.79)
Beam Tilt	-1.25 °	
Polarization:	Horizontal	
Frequency:		
Location:		

FIG. 24.1

KTVF(TV) VERTICAL RADIATION PATTERN

**Athabaskan Fiddlers Association, Inc.
Fairbanks, AK**



RADIATION PATTERN

Tabulated Data for Elevation Pattern
Type: AL12PM5

Athabaskan Fiddlers Association, Inc.
Fairbanks, AK

-5 to 10 degrees in 0.25 degree increments
10 to 90 degrees in 0.50 degree increments

Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB	Angle	Field	dB
5.00	0.262	-11.63	-6.25	0.247	-12.15	-25.00	0.079	-22.05	-47.50	0.074	-22.62	-70.00	0.071	-22.97
4.75	0.241	-12.36	-6.50	0.259	-11.73	-25.50	0.062	-24.15	-48.00	0.077	-22.27	-70.50	0.065	-23.74
4.50	0.214	-13.39	-6.75	0.273	-11.28	-26.00	0.045	-26.94	-48.50	0.076	-22.38	-71.00	0.058	-24.73
4.25	0.180	-14.89	-7.00	0.287	-10.84	-26.50	0.038	-28.40	-49.00	0.072	-22.85	-71.50	0.050	-26.02
4.00	0.140	-17.08	-7.25	0.298	-10.52	-27.00	0.045	-26.94	-49.50	0.066	-23.61	-72.00	0.043	-27.33
3.75	0.095	-20.45	-7.50	0.305	-10.31	-27.50	0.060	-24.44	-50.00	0.057	-24.88	-72.50	0.036	-28.87
3.50	0.053	-25.51	-7.75	0.308	-10.23	-28.00	0.074	-22.62	-50.50	0.046	-26.74	-73.00	0.029	-30.75
3.25	0.053	-25.51	-8.00	0.305	-10.31	-28.50	0.084	-21.51	-51.00	0.035	-29.12	-73.50	0.022	-33.15
3.00	0.103	-19.74	-8.25	0.298	-10.52	-29.00	0.089	-21.01	-51.50	0.025	-32.04	-74.00	0.016	-35.92
2.75	0.168	-15.49	-8.50	0.287	-10.84	-29.50	0.088	-21.11	-52.00	0.021	-33.56	-74.50	0.011	-39.17
2.50	0.237	-12.51	-8.75	0.271	-11.34	-30.00	0.081	-21.83	-52.50	0.026	-31.70	-75.00	0.010	-40.00
2.25	0.310	-10.17	-9.00	0.252	-11.97	-30.50	0.069	-23.22	-53.00	0.037	-28.64	-75.50	0.013	-37.72
2.00	0.383	-8.34	-9.25	0.230	-12.77	-31.00	0.055	-25.19	-53.50	0.048	-26.38	-76.00	0.017	-35.39
1.75	0.458	-6.78	-9.50	0.206	-13.72	-31.50	0.040	-27.96	-54.00	0.058	-24.73	-76.50	0.021	-33.56
1.50	0.531	-5.50	-9.75	0.181	-14.85	-32.00	0.032	-29.90	-54.50	0.067	-23.48	-77.00	0.026	-31.70
1.25	0.602	-4.41	-10.00	0.157	-16.08	-32.50	0.036	-28.87	-55.00	0.074	-22.62	-77.50	0.030	-30.46
1.00	0.670	-3.48	-10.50	0.117	-18.64	-33.00	0.049	-26.20	-55.50	0.079	-22.05	-78.00	0.033	-29.63
0.75	0.734	-2.69	-11.00	0.104	-19.66	-33.50	0.062	-24.15	-56.00	0.081	-21.83	-78.50	0.037	-28.64
0.50	0.792	-2.03	-11.50	0.121	-18.34	-34.00	0.073	-22.73	-56.50	0.081	-21.83	-79.00	0.039	-28.18
0.25	0.845	-1.46	-12.00	0.147	-16.65	-34.50	0.079	-22.05	-57.00	0.078	-22.16	-79.50	0.041	-27.74
0.00	0.891	-1.00	-12.50	0.167	-15.55	-35.00	0.081	-21.83	-57.50	0.073	-22.73	-80.00	0.043	-27.33
-0.25	0.930	-0.63	-13.00	0.177	-15.04	-35.50	0.078	-22.16	-58.00	0.066	-23.61	-80.50	0.044	-27.13
-0.50	0.960	-0.35	-13.50	0.173	-15.24	-36.00	0.071	-22.97	-58.50	0.058	-24.73	-81.00	0.044	-27.13
-0.75	0.982	-0.16	-14.00	0.158	-16.03	-36.50	0.060	-24.44	-59.00	0.048	-26.38	-81.50	0.044	-27.13
-1.00	0.996	-0.03	-14.50	0.132	-17.59	-37.00	0.047	-26.56	-59.50	0.037	-28.64	-82.00	0.044	-27.13
-1.25	1.000	0.00	-15.00	0.102	-19.83	-37.50	0.035	-29.12	-60.00	0.026	-31.70	-82.50	0.043	-27.33
-1.50	0.996	-0.03	-15.50	0.075	-22.50	-38.00	0.028	-31.06	-60.50	0.017	-35.39	-83.00	0.042	-27.54
-1.75	0.982	-0.16	-16.00	0.064	-23.88	-38.50	0.032	-29.90	-61.00	0.014	-37.08	-83.50	0.041	-27.74
-2.00	0.961	-0.35	-16.50	0.076	-22.38	-39.00	0.043	-27.33	-61.50	0.021	-33.56	-84.00	0.039	-28.18
-2.25	0.931	-0.62	-17.00	0.097	-20.26	-39.50	0.055	-25.19	-62.00	0.031	-30.17	-84.50	0.037	-28.64
-2.50	0.893	-0.98	-17.50	0.115	-18.79	-40.00	0.066	-23.61	-62.50	0.042	-27.54	-85.00	0.034	-29.37
-2.75	0.849	-1.42	-18.00	0.126	-17.99	-40.50	0.073	-22.73	-63.00	0.053	-25.51	-85.50	0.032	-29.90
-3.00	0.799	-1.95	-18.50	0.127	-17.92	-41.00	0.077	-22.27	-63.50	0.062	-24.15	-86.00	0.029	-30.75
-3.25	0.745	-2.56	-19.00	0.119	-18.49	-41.50	0.077	-22.27	-64.00	0.071	-22.97	-86.50	0.025	-32.04
-3.50	0.686	-3.27	-19.50	0.104	-19.66	-42.00	0.073	-22.73	-64.50	0.078	-22.16	-87.00	0.022	-33.15
-3.75	0.625	-4.08	-20.00	0.083	-21.62	-42.50	0.065	-23.74	-65.00	0.084	-21.51	-87.50	0.019	-34.42
-4.00	0.562	-5.01	-20.50	0.061	-24.29	-43.00	0.055	-25.19	-65.50	0.088	-21.11	-88.00	0.015	-36.48
-4.25	0.500	-6.02	-21.00	0.048	-26.38	-43.50	0.043	-27.33	-66.00	0.091	-20.82	-88.50	0.011	-39.17
-4.50	0.439	-7.15	-21.50	0.052	-25.68	-44.00	0.031	-30.17	-66.50	0.093	-20.63	-89.00	0.008	-41.94
-4.75	0.383	-8.34	-22.00	0.069	-23.22	-44.50	0.025	-32.04	-67.00	0.093	-20.63	-89.50	0.004	-47.96
-5.00	0.332	-9.58	-22.50	0.086	-21.31	-45.00	0.028	-31.06	-67.50	0.092	-20.72	-90.00	0.000	---
-5.25	0.291	-10.72	-23.00	0.098	-20.18	-45.50	0.038	-28.40	-68.00	0.090	-20.92			
-5.50	0.261	-11.67	-23.50	0.104	-19.66	-46.00	0.050	-26.02	-68.50	0.086	-21.31			
-5.75	0.245	-12.22	-24.00	0.102	-19.83	-46.50	0.060	-24.44	-69.00	0.082	-21.72			
-6.00	0.241	-12.36	-24.50	0.093	-20.63	-47.00	0.069	-23.22	-69.50	0.077	-22.27			



FREQUENCY : 625.0 MHZ

AZIMUTH ANGLE FOR VRP : .0

ELEVATION (°)	RELATIVE FIELD (%)	FIELD (dB)
90.	.8	-42.4
89.	.8	-42.4
88.	.8	-42.4
87.	.8	-42.3
86.	.8	-42.1
85.	.8	-42.2
84.	.8	-42.0
83.	.8	-42.1
82.	.8	-42.2
81.	.7	-42.7
80.	.7	-43.4
79.	.6	-45.2
78.	.4	-47.1
77.	.3	-50.6
76.	.2	-53.7
75.	.2	-52.6
74.	.4	-48.0
73.	.6	-44.3
72.	.8	-41.6
71.	1.0	-39.8
70.	1.2	-38.6
69.	1.2	-38.5
68.	1.0	-39.8
67.	.6	-43.8
66.	.5	-46.7
65.	1.4	-36.8
64.	2.8	-31.0
63.	4.4	-27.1
62.	6.1	-24.3
61.	7.7	-22.2
60.	9.1	-20.9
59.	10.3	-19.8
58.	10.6	-19.5
57.	9.7	-20.2
56.	7.6	-22.4
55.	4.5	-26.8
54.	1.4	-37.2
53.	2.2	-33.1

TABLE 24.2

**SCALA 770-256 VERTICAL
RADIATION PATTERN**

**Athabaskan Fiddlers Association, Inc.
Fairbanks, CA**

fairbanks-770-256-vrp624.FCC.txt

52.	3.8	-28.5
51.	3.9	-26.1
50.	2.7	-31.3
49.	1.0	-40.2
48.	1.8	-34.8
47.	3.0	-30.5
46.	2.9	-30.7
45.	1.5	-36.6
44.	.7	-42.5
43.	2.2	-33.1
42.	2.6	-31.6
41.	1.8	-35.1
40.	.0	-76.1
39.	1.6	-36.0
38.	2.3	-32.7
37.	1.7	-35.4
36.	.4	-48.5
35.	1.5	-36.3
34.	2.0	-33.9
33.	1.3	-37.8
32.	.6	-44.6
31.	1.7	-35.4
30.	1.8	-34.7
29.	.7	-42.9
28.	1.1	-39.1
27.	2.5	-32.0
26.	3.8	-28.4
25.	5.2	-25.7
24.	7.6	-22.4
23.	6.7	-23.4
22.	2.2	-33.0
21.	4.4	-27.1
20.	7.0	-23.1
19.	4.2	-27.6
18.	3.5	-29.2
17.	7.6	-22.4
16.	5.8	-24.8
15.	2.0	-33.9
14.	8.1	-21.9
13.	8.0	-21.9
12.	.8	-41.8
11.	7.9	-22.0
10.	10.5	-19.5
9.	3.9	-28.2
8.	8.2	-21.8
7.	14.0	-17.1
6.	7.9	-22.1
5.	10.5	-19.6

TABLE 24.2 (Cont'd)

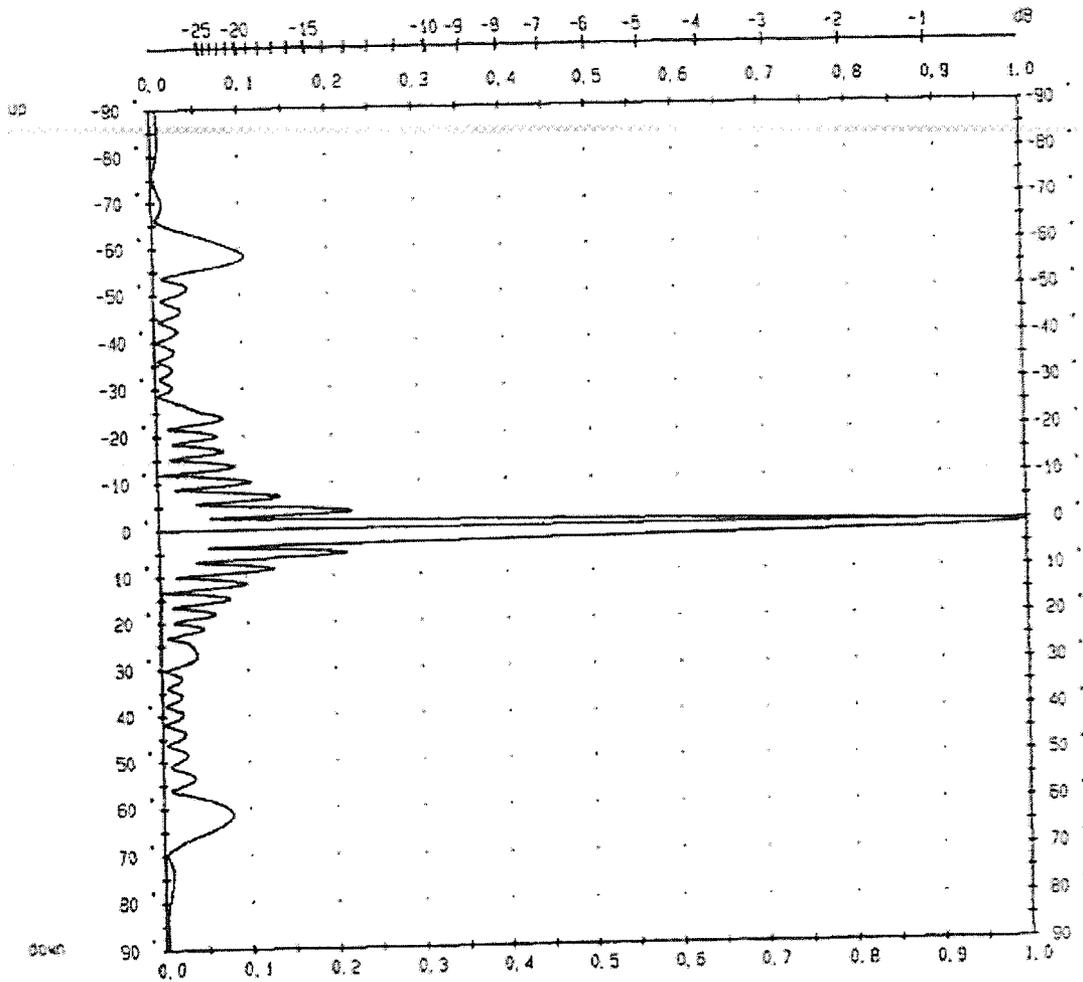
4.	22.0	-13.1
3.	15.3	-16.3
2.	18.1	-14.8
1.	60.8	-4.3
0.	94.7	-.5
-1.	100.0	.0
-2.	74.0	-2.6
-3.	32.0	-9.9
-4.	7.8	-22.1
-5.	21.7	-13.3
-6.	15.4	-16.3
-7.	4.4	-27.0
-8.	12.7	-17.9
-9.	10.9	-19.3
-10.	2.0	-33.9
-11.	8.6	-21.3
-12.	9.3	-20.6
-13.	2.5	-32.2
-14.	5.4	-25.4
-15.	8.2	-21.8
-16.	4.2	-27.5
-17.	3.0	-30.4
-18.	6.4	-23.9
-19.	4.6	-26.7
-20.	1.7	-35.3
-21.	4.7	-26.5
-22.	4.3	-27.4
-23.	1.1	-39.5
-24.	2.7	-31.5
-25.	3.5	-29.2
-26.	4.0	-28.0
-27.	4.2	-27.5
-28.	4.0	-28.1
-29.	2.7	-31.3
-30.	.7	-43.3
-31.	1.7	-35.4
-32.	2.4	-32.5
-33.	1.6	-36.1
-34.	.7	-43.2
-35.	1.9	-34.3
-36.	2.3	-32.9
-37.	1.2	-38.2
-38.	.7	-43.0
-39.	2.1	-33.4
-40.	2.5	-32.2
-41.	1.4	-37.2
-42.	.4	-47.9
-43.	2.1	-33.5

TABLE 24.2 (Cont'd)

fairbanks-770-256-vrp624.FCC.txt

-44.	2.8	-31.2
-45.	2.1	-33.4
-46.	.7	-43.6
-47.	1.6	-36.2
-48.	2.8	-31.2
-49.	2.9	-30.8
-50.	1.9	-34.5
-51.	.8	-41.6
-52.	2.3	-32.8
-53.	3.5	-29.1
-54.	3.6	-28.8
-55.	2.6	-31.7
-56.	.9	-40.8
-57.	2.5	-32.1
-58.	4.8	-26.4
-59.	6.6	-23.7
-60.	7.5	-22.4
-61.	8.1	-21.8
-62.	8.1	-21.8
-63.	7.6	-22.4
-64.	6.7	-23.5
-65.	5.5	-25.2
-66.	4.1	-27.8
-67.	2.7	-31.2
-68.	1.6	-35.8
-69.	.7	-42.6
-70.	.3	-50.5
-71.	.6	-45.1
-72.	.8	-42.0
-73.	.9	-40.7
-74.	.9	-40.5
-75.	.9	-40.7
-76.	.9	-41.0
-77.	.8	-41.6
-78.	.7	-42.6
-79.	.6	-44.1
-80.	.5	-45.8
-81.	.4	-48.2
-82.	.3	-51.0
-83.	.2	-52.1
-84.	.2	-52.2
-85.	.3	-51.6
-86.	.3	-50.0
-87.	.3	-49.3
-88.	.4	-48.6
-89.	.4	-48.4
-90.	.4	-48.2

TABLE 24.2 (Cont'd)



frequency in MHz 625.000
 azimuth in 0
 gain-dir in dBd 13.35

FIG. 24.2

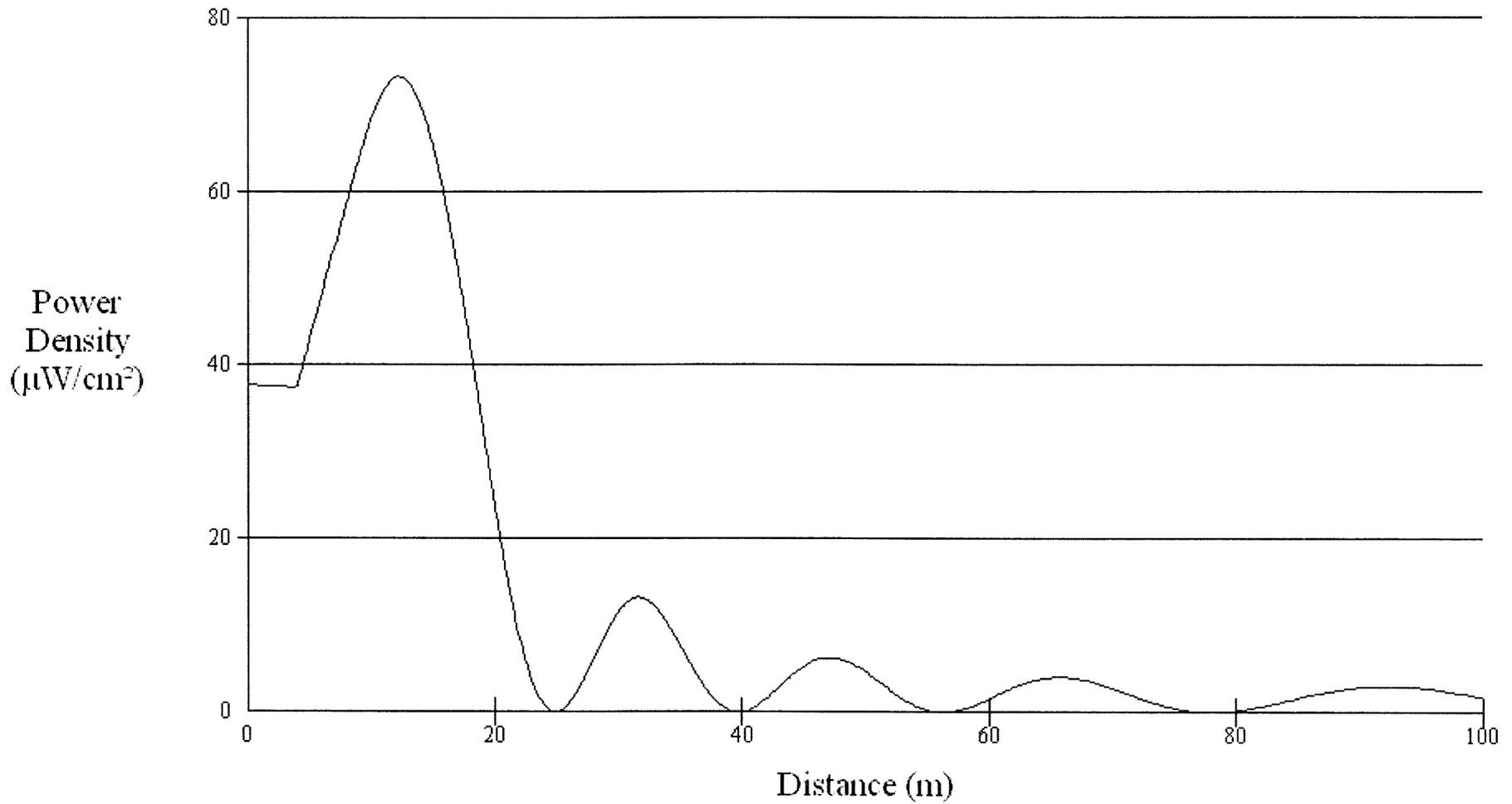
SCALA 770-256 VERTICAL
 RADIATION PATTERN

Athabaskan Fiddlers Association, Inc.
 Fairbanks, AK

Kathrein UHF-TV Transmitting Antenna Fairbanks, AK 770 256

S C A L A Medford Oregon	Patterns generated at Mid Band	Typ Nr.
		81.
a) 13.12.88 11:22		

Power Density vs Distance



Office of Engineering and Technology

Distance (m): Antenna Type:

Horizontal ERP (W): Number of Elements:

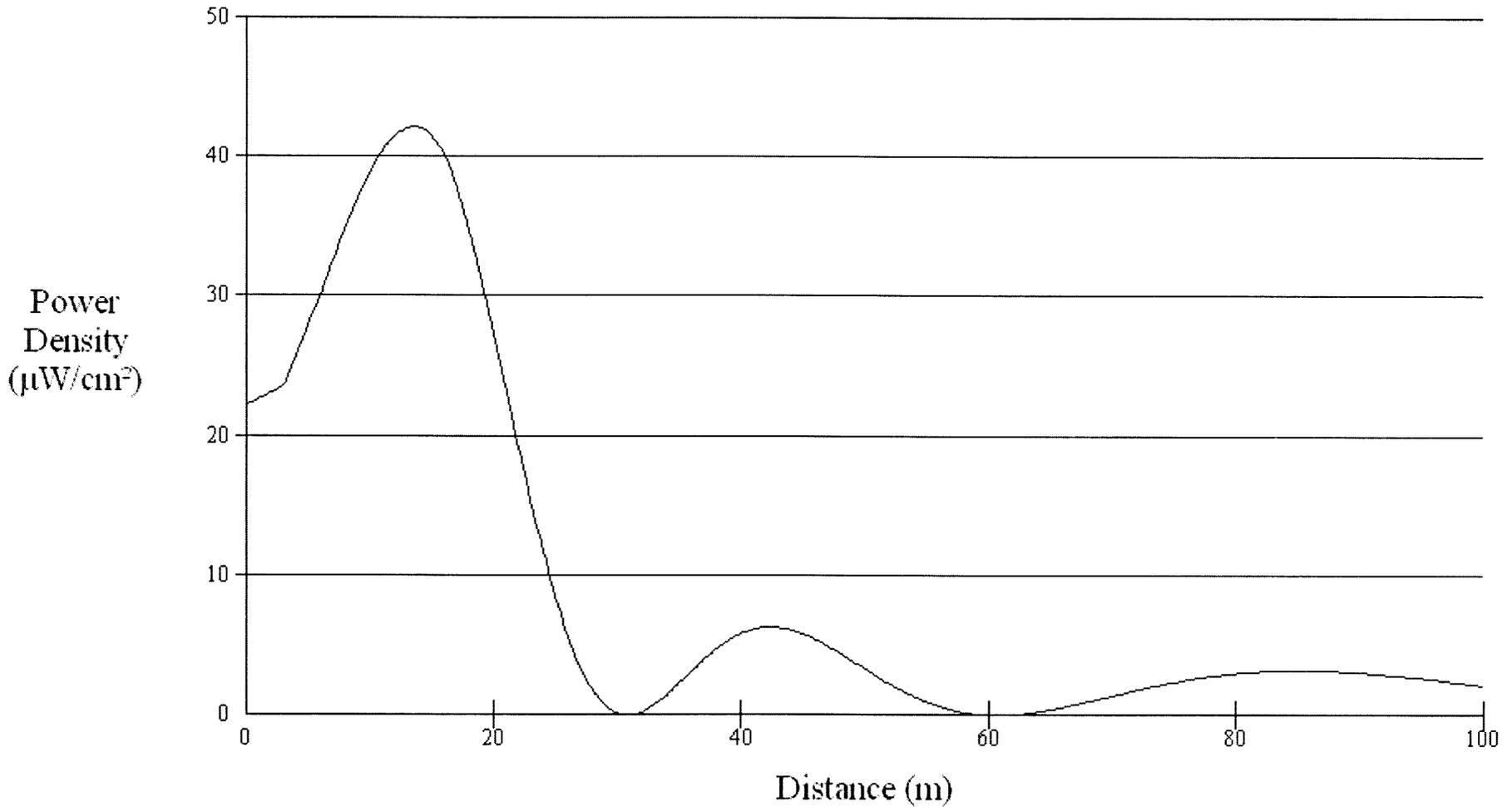
Vertical ERP (W): Element Spacing:

Antenna Height (m):

FIG. 24.3

KUAC POWER DENSITY CALCULATIONS
 Athabaskan Fiddlers Association, Inc.
 Fairbanks, AK

Power Density vs Distance

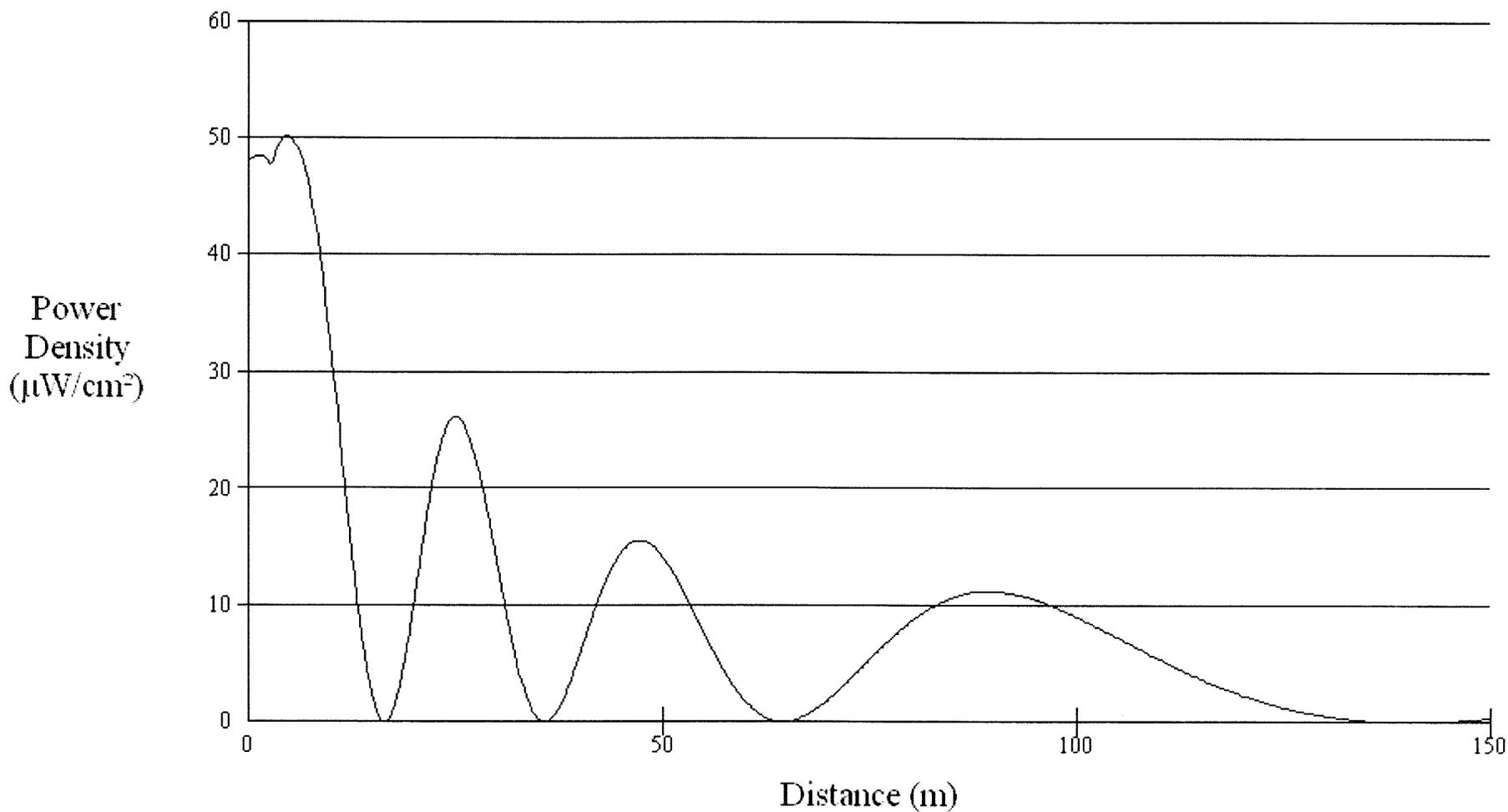


Office of Engineering and Technology

Distance (m):	100	Antenna Type:	Jampro "Double V" (EPA)
Horizontal ERP (W):	5800	Number of Elements:	4
Vertical ERP (W):	5800	Element Spacing:	1
Antenna Height (m):	37		

FIG. 24.4
KYSC POWER DENSITY CALCULATIONS
Athabaskan Fiddlers Association, Inc.
Fairbanks, AK

Power Density vs Distance



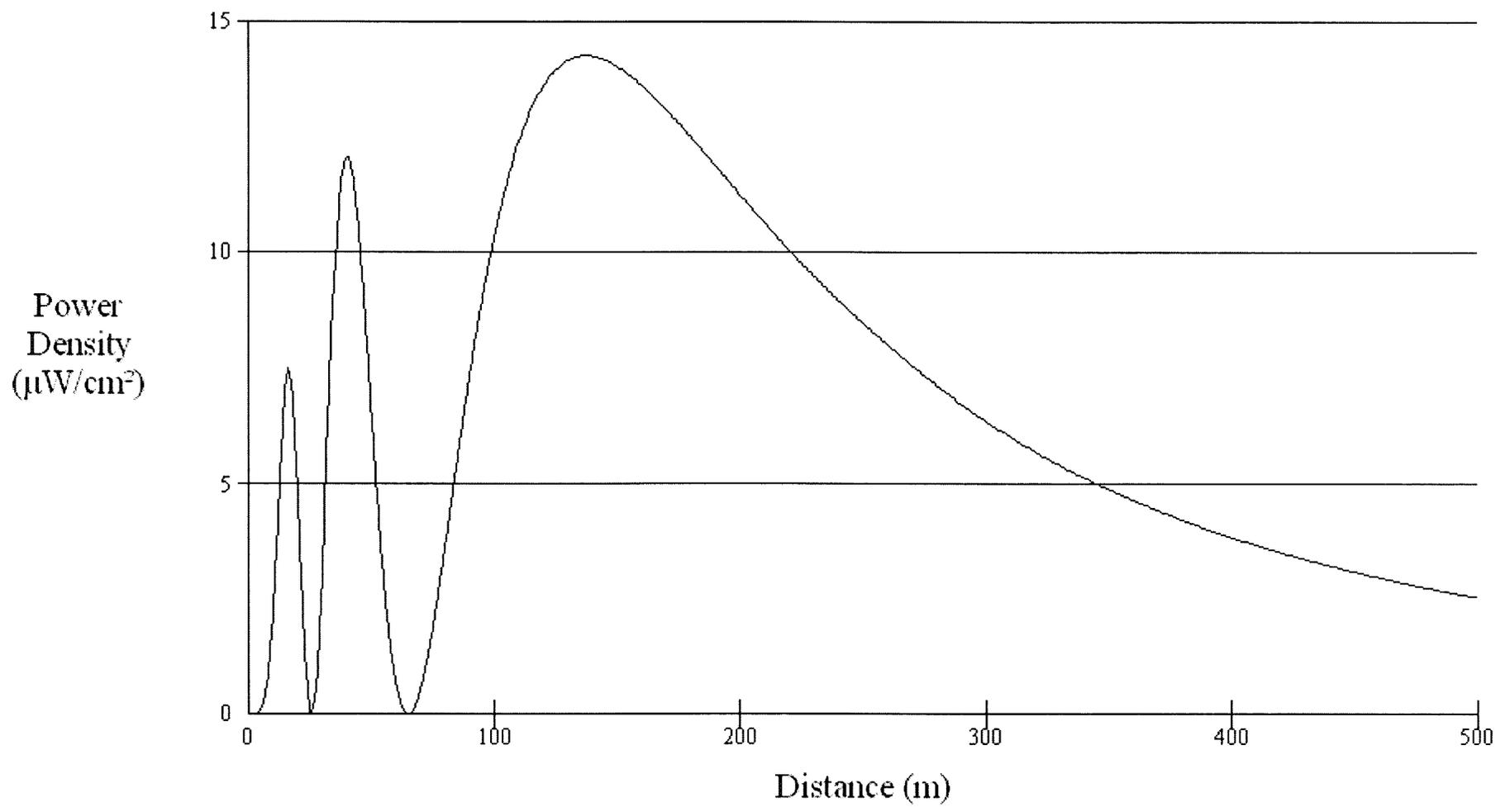
Office of Engineering and Technology

Distance (m):	<input type="text" value="150"/>	Antenna Type:	<input type="text" value="Jampro 'Double V' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="25000"/>	Number of Elements:	<input type="text" value="5"/>
Vertical ERP (W):	<input type="text" value="25000"/>	Element Spacing:	<input type="text" value=".9"/>
Antenna Height (m):	<input type="text" value="34"/>		

FIG. 24.5

KJNP-FM POWER DENSITY CALCULATIONS
Athabaskan Fiddlers Association, Inc.
Fairbanks, AK

Power Density vs Distance

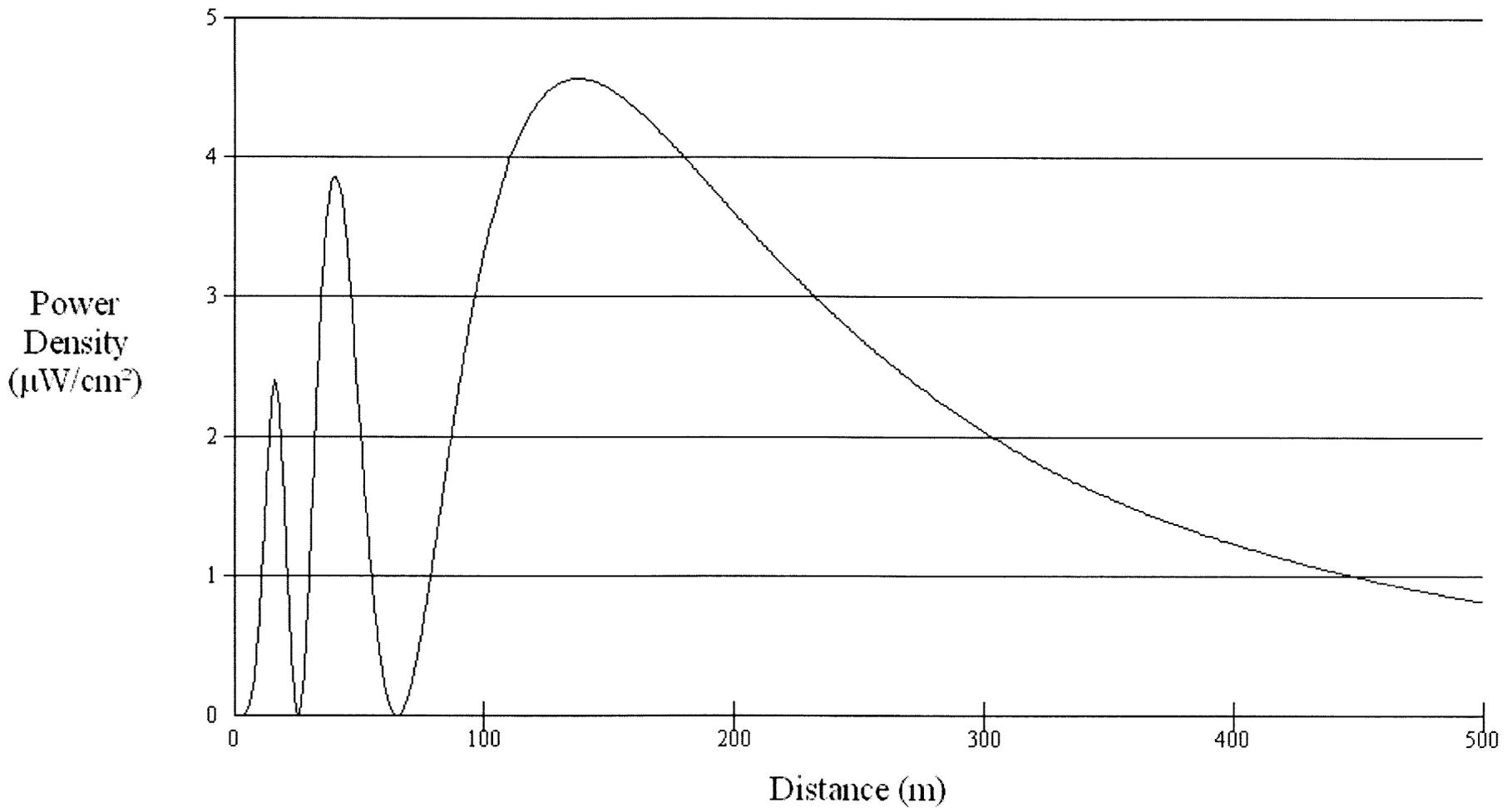


Office of Engineering and Technology

Distance (m):	<input type="text" value="500"/>	Antenna Type:	<input type="text" value="ERI or JAMPRO JBCP 'Rototiller' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="10000"/>	Number of Elements:	<input type="text" value="6"/>
Vertical ERP (W):	<input type="text" value="10000"/>	Element Spacing:	<input type="text" value=".5"/>
Antenna Height (m):	<input type="text" value="25"/>		

FIG. 24.6
KRFF POWER DENSITY CALCULATIONS
 Athabaskan Fiddlers Association, Inc.
 Fairbanks, AK

Power Density vs Distance



Office of Engineering and Technology

Distance (m):	500	Antenna Type:	ERI or JAMPRO JBCP "Rototiller" (EPA) ▾
Horizontal ERP (W):	3200	Number of Elements:	6
Vertical ERP (W):	3200	Element Spacing:	.5
Antenna Height (m):	25		

FIG. 24.7

KZVV POWER DENSITY CALCULATIONS
Athabaskan Fiddlers Association, Inc.
Fairbanks, AK