

## Exhibit #32

### ENVIRONMENTAL PROTECTION ACT

#### The University of Wyoming

Minor Modification to Construction Permit

KUWV

BMPED-20081031ABG

Lingle, WY

March 2010

CH 214C3

18.5 kW H & V

The applicant proposes the use of existing unregistered, self-supporting tower, constructed in 1983. The applicant proposes no change to the structure or profile, therefore it is exempt from further environmental testing. The tower location is fenced, locked and posted with RF warning signs. The fence will be expanded to a distance of 30' (9.16 meters) from the base of the tower. This is a controlled area.

KUWV will use a 4-bay, ERI MP-4E (Type #3) antenna. The proposed circularly polarized antenna will be energized such that it produces 18.5 kW effective radiated power (ERP) in both the horizontal and vertical planes, from a center of radiation of 15 meters above ground. Using the formulas expressed in the OET Bulletin, No. 65, August 1997, "Evaluating Compliance with F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", published by the Federal Communication Commission's Office of Science and Engineering, and then by applying a combination of the element and array pattern as defined in E.P.A. study PB85-245868 ("**Engineering Assessment of the Potential Impact of the Federal Radiation Protection Guidance on the AM, FM and TV Broadcast Services**") the predicted level of RF non-ionization emissions at a position of 2 meters above ground (head-height) at the base of the tower for the proposed antenna is 219.42 microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ), which is 21.94 percent of the maximum for this controlled area.

At the fence line, the predicted level of RF non-ionization emissions at a position of 2 meters above ground (head-height) is  $176.336 \mu\text{W}/\text{cm}^2$ , which is 88.17 percent of the maximum for this uncontrolled area. As seen from the graph and table attached, the level of emissions past the fence line never exceeds the maximum of  $200 \mu\text{W}/\text{cm}^2$ .

A search of the FCC's CDBS and ULS databases reveals that there are no other sources of RF emissions on the tower.

The applicant will protect workers on the tower by either reducing ERP or terminating transmission.

Consequently, it appears that the proposed FM station will be in full compliance with the Commission's human exposure to radiofrequency electromagnetic field rules and regulations.

**Study**  
☒ FM  
☐ TV  
☐ DTV

**Method**  
☐ OET #65  
☒ OET Mod

**Scale =  $\mu\text{W}/\text{sq cm}$**   
☐ 50 ☐ 100 ☐ 200 ☐ 500 ☒ 1000 ☐ 2000 ☐ 3000

▲

▼

**Graph Distance**  
100

**Antenna Parameters**

H kW

V kW

# of Bays  Spacing

COR Meters Above Ground

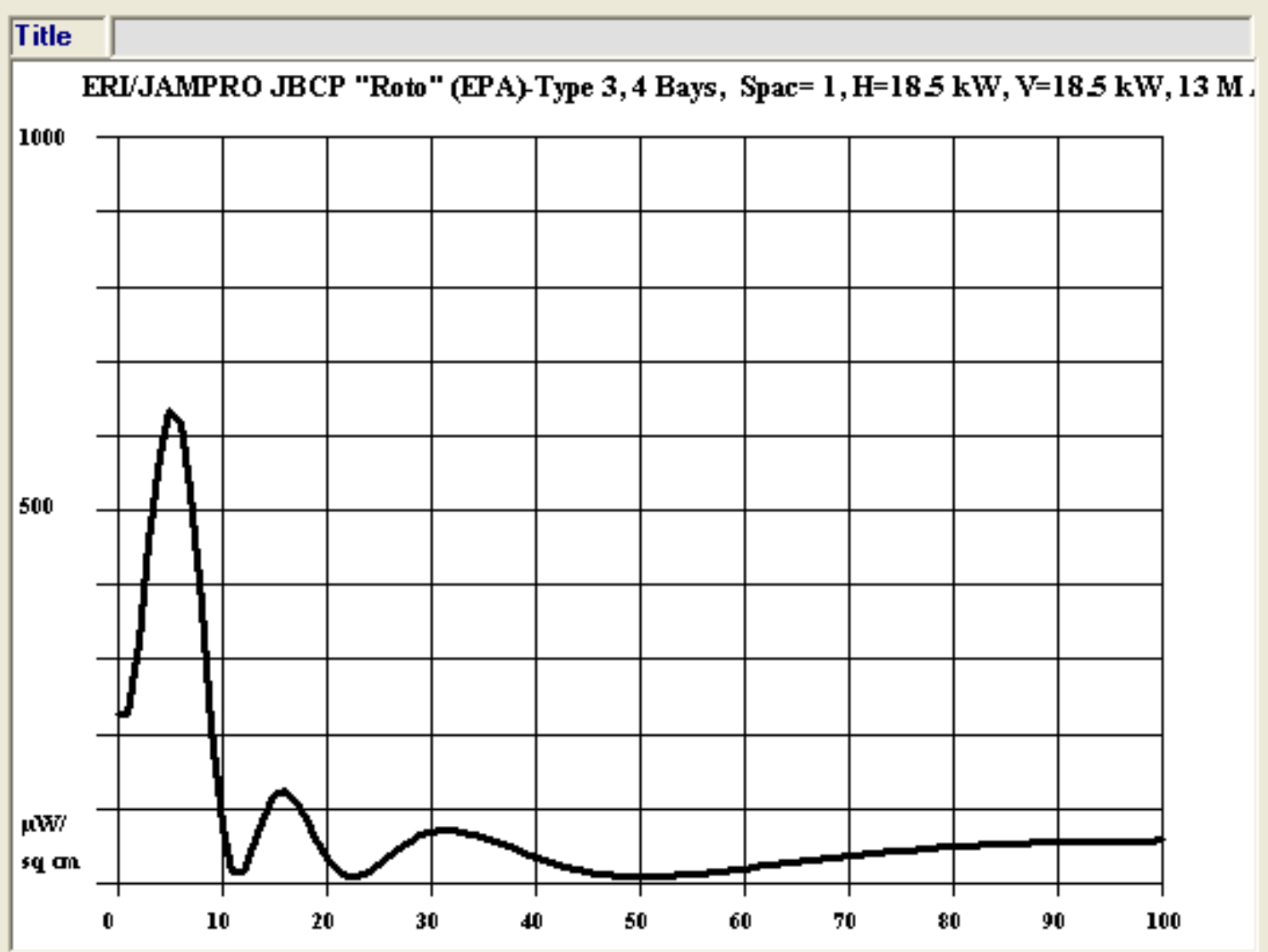
Dist. in Meters to Tower Base

Phelps-Dodge "Ring Stub" (EPA)  
ERI "Dual Cycloid"  
Jampro "Double V" (EPA)  
**ERI/JAMPRO JBCP "Roto" (EPA)**  
RCA "BFC" (EPA)  
RCA "BFG" (EPA)  
Shively 6800 series  
Shively 6810  
Dielectric DCRM  
Dielectric DCRQ  
Dielectric DCRC  
Shively 6513/6510 Vert. Dipole

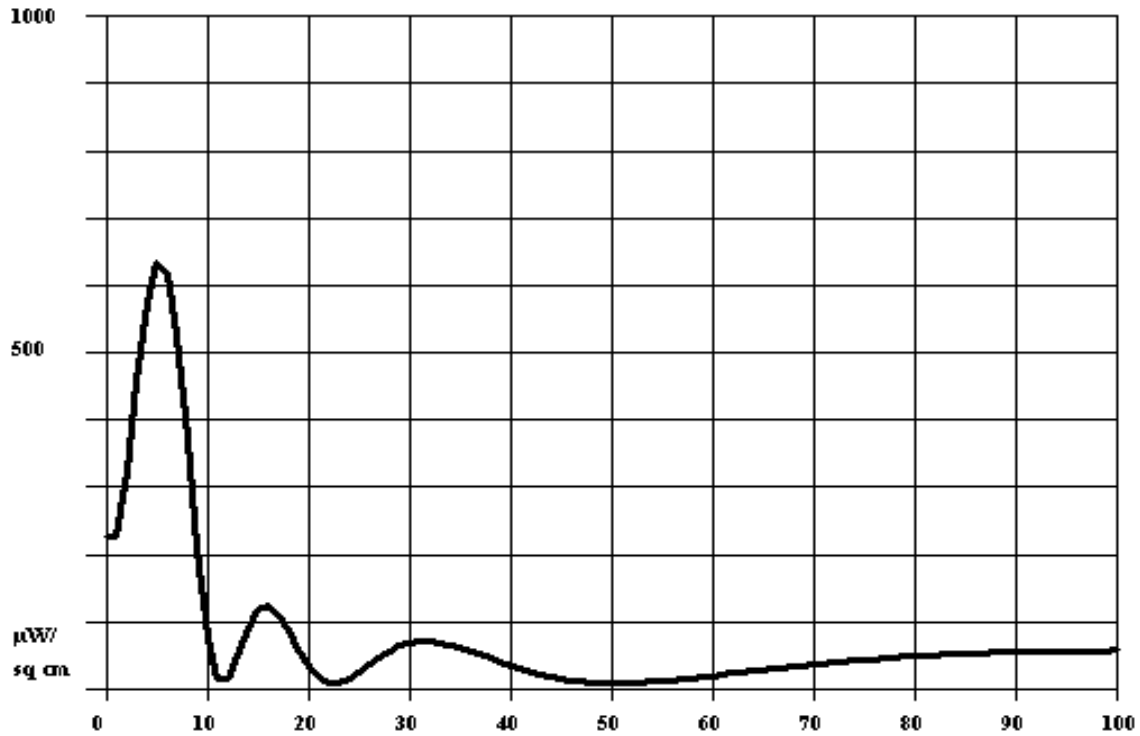
Max = 200  $\mu\text{W}/\text{sq cm}$

**Pwr Density  $\mu\text{W}/\text{sq cm}$**  **Controlled**  
  
**% of Max**

☐ Yes  
☒ No



Environment = Uncontrolled, Maximum = 200  $\mu\text{W}/\text{sq cm}$   
**ERI/JAMPRO JBCP "Roto" (EPA)-Type 3,4 Bays, Spac= 1,H=18.5 kW,V=18.5 kW,13 M.**



HORZ. DISTANCE FROM FM RADIATOR VS POWER DENSITY (Microwatt/Square cm)  
 Dist(Meters) PD (H) PD (V) Total(uW/cm2) Percent Max.

0	109.71	109.71	219.42	109.7
1	109.02	109.02	218.04	109.0
2	157.94	157.94	315.89	157.9
3	243.88	207.00	450.88	225.4
4	309.37	259.83	569.20	284.6
5	325.20	304.36	629.56	314.8
6	307.03	306.01	613.05	306.5
7	268.54	252.11	520.65	260.3
8	193.64	174.17	367.81	183.9
9	107.23	94.05	201.28	100.6
10	36.63	31.55	68.18	34.1
11	3.30	2.79	6.09	3.0
12	3.68	2.98	6.65	3.3
13	23.78	18.55	42.33	21.2
14	45.92	37.35	83.27	41.6
15	59.58	50.25	109.82	54.9
16	61.56	53.86	115.42	57.7
17	53.74	48.76	102.50	51.3
18	40.27	37.73	78.00	39.0
19	25.34	24.62	49.96	25.0
20	12.68	12.84	25.52	12.8
21	4.33	4.56	8.90	4.4
22	0.46	0.50	0.96	0.5
23	0.36	0.41	0.77	0.4
24	3.00	3.47	6.47	3.2
25	7.32	8.65	15.96	8.0

Dist(Meters)	PD (H)	PD (V)	Total(uW/cm2)	Percent Max.
26	12.31	14.88	27.19	13.6
27	17.21	21.22	38.44	19.2
28	21.50	26.89	48.38	24.2
29	24.99	30.73	55.71	27.9
30	27.40	33.16	60.56	30.3
31	28.71	34.22	62.93	31.5
32	28.98	34.07	63.05	31.5
33	28.36	32.90	61.26	30.6
34	27.00	30.94	57.94	29.0
35	25.09	28.41	53.50	26.7
36	22.77	25.56	48.33	24.2
37	20.17	22.60	42.78	21.4
38	17.50	19.57	37.07	18.5
39	14.86	16.58	31.44	15.7
40	12.33	13.74	26.06	13.0
41	9.98	11.10	21.08	10.5
42	7.85	8.72	16.57	8.3
43	5.97	6.62	12.59	6.3
44	4.36	4.82	9.18	4.6
45	3.01	3.33	6.35	3.2
46	1.94	2.14	4.07	2.0
47	1.11	1.23	2.34	1.2
48	0.53	0.58	1.11	0.6
49	0.17	0.18	0.35	0.2
50	0.01	0.01	0.02	0.0
51	0.04	0.04	0.08	0.0
52	0.22	0.24	0.47	0.2
53	0.55	0.60	1.15	0.6
54	0.99	1.09	2.09	1.0
55	1.54	1.69	3.24	1.6
56	2.17	2.39	4.56	2.3
57	2.87	3.16	6.03	3.0
58	3.63	3.98	7.61	3.8
59	4.42	4.86	9.28	4.6
60	5.24	5.76	11.01	5.5
61	6.09	6.69	12.78	6.4
62	6.94	7.63	14.57	7.3
63	7.80	8.57	16.37	8.2
64	8.66	9.51	18.16	9.1
65	9.50	10.43	19.94	10.0
66	10.33	11.35	21.68	10.8
67	11.15	12.24	23.39	11.7
68	11.94	13.11	25.05	12.5
69	12.71	13.95	26.66	13.3
70	13.45	14.76	28.21	14.1
71	14.17	15.54	29.71	14.9
72	14.85	16.29	31.15	15.6
73	15.51	17.01	32.52	16.3
74	16.14	17.69	33.83	16.9
75	16.75	18.34	35.09	17.5
76	17.32	18.95	36.27	18.1
77	17.87	19.53	37.40	18.7

Dist(Meters)	PD (H)	PD (V)	Total(uW/cm2)	Percent Max.
78	18.39	20.07	38.46	19.2
79	18.88	20.58	39.46	19.7
80	19.33	21.06	40.40	20.2
81	19.76	21.51	41.27	20.6
82	20.17	21.92	42.09	21.0
83	20.54	22.31	42.85	21.4
84	20.89	22.67	43.56	21.8
85	21.21	23.00	44.21	22.1
86	21.51	23.30	44.81	22.4
87	21.79	23.58	45.36	22.7
88	22.04	23.83	45.87	22.9
89	22.27	24.06	46.32	23.2
90	22.47	24.26	46.74	23.4
91	22.66	24.45	47.11	23.6
92	22.83	24.61	47.44	23.7
93	22.98	24.75	47.73	23.9
94	23.11	24.88	47.99	24.0
95	23.23	24.98	48.21	24.1
96	23.33	25.07	48.40	24.2
97	23.41	25.15	48.56	24.3
98	23.48	25.20	48.69	24.3
99	23.54	25.25	48.79	24.4
100	23.58	25.28	48.86	24.4