

RUBIN, BEDNAREK & ASSOCIATES, INC.

CONSULTING TELECOMMUNICATIONS ENGINEERS

1350 CONNECTICUT AVENUE, NW - SUITE 610

WASHINGTON, DC 20036

EXHIBIT 4(d)**Tabulation of Distances to Protected and Interfering Contours****For Authorized KBOC Facility**

Site Coordinates : N 33° 13' 28" W 97° 47' 51"

Maximum ERP : 3.0 kW

Antenna Type : Omni-Directional

File Number : BPH-891025IF

Antenna Radiation
Center Height : 330 meters AMSL

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
0.0	43	3.0000	15.7	60.7
1.0	44	3.0000	15.9	61.1
2.0	44	3.0000	16.0	61.4
3.0	45	3.0000	16.1	61.6
4.0	45	3.0000	16.2	61.7
5.0	46	3.0000	16.3	62.0
6.0	47	3.0000	16.5	62.3
7.0	48	3.0000	16.7	62.8
8.0	49	3.0000	16.9	63.2
9.0	49	3.0000	17.1	63.5
10.0	50	3.0000	17.2	63.7
11.0	51	3.0000	17.3	64.0
12.0	51	3.0000	17.5	64.2
13.0	52	3.0000	17.6	64.4
14.0	52	3.0000	17.7	64.6
15.0	53	3.0000	17.9	65.0
16.0	54	3.0000	18.0	65.3
17.0	55	3.0000	18.2	65.5
18.0	56	3.0000	18.3	65.7
19.0	56	3.0000	18.3	65.9
20.0	57	3.0000	18.4	66.0
21.0	57	3.0000	18.5	66.2
22.0	58	3.0000	18.6	66.4
23.0	58	3.0000	18.7	66.6
24.0	59	3.0000	18.9	66.9
25.0	61	3.0000	19.1	67.3
26.0	63	3.0000	19.4	67.8
27.0	64	3.0000	19.6	68.2
28.0	66	3.0000	19.8	68.6
29.0	67	3.0000	19.9	68.9

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EXHIBIT 4(d) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Authorized KBOC Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
30.0	68	3.0000	20.1	69.1
31.0	69	3.0000	20.2	69.3
32.0	69	3.0000	20.3	69.5
33.0	70	3.0000	20.4	69.7
34.0	71	3.0000	20.6	69.9
35.0	72	3.0000	20.7	70.2
36.0	73	3.0000	20.8	70.3
37.0	74	3.0000	20.9	70.5
38.0	74	3.0000	20.9	70.6
39.0	75	3.0000	21.0	70.7
40.0	76	3.0000	21.1	70.9
41.0	77	3.0000	21.3	71.2
42.0	78	3.0000	21.5	71.5
43.0	79	3.0000	21.6	71.8
44.0	80	3.0000	21.8	72.0
45.0	81	3.0000	21.9	72.2
46.0	82	3.0000	21.9	72.3
47.0	81	3.0000	21.9	72.2
48.0	80	3.0000	21.8	72.0
49.0	80	3.0000	21.7	71.9
50.0	80	3.0000	21.7	71.9
51.0	80	3.0000	21.7	71.9
52.0	80	3.0000	21.8	72.0
53.0	80	3.0000	21.8	72.0
54.0	81	3.0000	21.8	72.0
55.0	81	3.0000	21.8	72.0
56.0	81	3.0000	21.8	72.1
57.0	81	3.0000	21.9	72.2
58.0	81	3.0000	21.9	72.2
59.0	82	3.0000	21.9	72.3
60.0	82	3.0000	22.0	72.4
61.0	83	3.0000	22.1	72.5
62.0	83	3.0000	22.2	72.6
63.0	84	3.0000	22.2	72.7
64.0	85	3.0000	22.3	72.9
65.0	85	3.0000	22.4	73.0
66.0	85	3.0000	22.4	73.0
67.0	85	3.0000	22.4	73.1
68.0	85	3.0000	22.4	73.1
69.0	86	3.0000	22.4	73.1
70.0	86	3.0000	22.5	73.1
71.0	86	3.0000	22.5	73.2

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EXHIBIT 4(d) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Authorized KBOC Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
72.0	86	3.0000	22.6	73.3
73.0	86	3.0000	22.6	73.3
74.0	86	3.0000	22.5	73.2
75.0	85	3.0000	22.4	73.0
76.0	85	3.0000	22.3	72.9
77.0	84	3.0000	22.3	72.8
78.0	84	3.0000	22.2	72.7
79.0	84	3.0000	22.3	72.8
80.0	85	3.0000	22.3	72.9
81.0	86	3.0000	22.5	73.1
82.0	87	3.0000	22.6	73.4
83.0	88	3.0000	22.8	73.6
84.0	89	3.0000	22.9	73.8
85.0	90	3.0000	23.0	73.9
86.0	90	3.0000	23.0	74.0
87.0	90	3.0000	23.0	74.0
88.0	90	3.0000	23.0	74.0
89.0	90	3.0000	23.1	74.0
90.0	90	3.0000	23.1	74.1
91.0	91	3.0000	23.1	74.1
92.0	91	3.0000	23.1	74.1
93.0	91	3.0000	23.1	74.1
94.0	91	3.0000	23.2	74.2
95.0	92	3.0000	23.2	74.3
96.0	93	3.0000	23.3	74.5
97.0	93	3.0000	23.4	74.7
98.0	94	3.0000	23.6	74.8
99.0	96	3.0000	23.7	75.1
100.0	97	3.0000	23.9	75.3
101.0	98	3.0000	24.0	75.6
102.0	99	3.0000	24.1	75.7
103.0	100	3.0000	24.2	75.9
104.0	100	3.0000	24.2	75.9
105.0	101	3.0000	24.3	76.0
106.0	101	3.0000	24.3	76.1
107.0	102	3.0000	24.4	76.3
108.0	103	3.0000	24.6	76.5
109.0	104	3.0000	24.7	76.6
110.0	105	3.0000	24.8	76.8
111.0	106	3.0000	24.8	76.9
112.0	106	3.0000	24.9	77.0
113.0	107	3.0000	25.0	77.1

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EXHIBIT 4(d) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Authorized KBOC Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 80dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
114.0	107	3.0000	25.0	77.2
115.0	108	3.0000	25.1	77.3
116.0	108	3.0000	25.1	77.4
117.0	109	3.0000	25.2	77.5
118.0	109	3.0000	25.2	77.5
119.0	109	3.0000	25.2	77.5
120.0	109	3.0000	25.2	77.5
121.0	109	3.0000	25.2	77.5
122.0	108	3.0000	25.1	77.4
123.0	108	3.0000	25.1	77.3
124.0	107	3.0000	25.0	77.2
125.0	107	3.0000	25.0	77.2
126.0	107	3.0000	24.9	77.1
127.0	106	3.0000	24.9	77.0
128.0	105	3.0000	24.8	76.9
129.0	105	3.0000	24.7	76.7
130.0	103	3.0000	24.6	76.5
131.0	102	3.0000	24.4	76.2
132.0	100	3.0000	24.2	75.9
133.0	99	3.0000	24.1	75.7
134.0	98	3.0000	24.0	75.5
135.0	97	3.0000	23.9	75.3
136.0	96	3.0000	23.8	75.1
137.0	95	3.0000	23.6	74.9
138.0	94	3.0000	23.5	74.8
139.0	94	3.0000	23.5	74.8
140.0	95	3.0000	23.6	74.9
141.0	95	3.0000	23.6	75.0
142.0	95	3.0000	23.7	75.0
143.0	95	3.0000	23.7	75.0
144.0	95	3.0000	23.6	74.9
145.0	94	3.0000	23.5	74.8
146.0	93	3.0000	23.4	74.6
147.0	92	3.0000	23.3	74.4
148.0	91	3.0000	23.1	74.2
149.0	90	3.0000	23.0	74.0
150.0	90	3.0000	23.0	73.9
151.0	89	3.0000	22.9	73.8
152.0	88	3.0000	22.8	73.6
153.0	87	3.0000	22.7	73.4
154.0	86	3.0000	22.5	73.2
155.0	85	3.0000	22.4	73.0

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EXHIBIT 4(d) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Authorized KBOC Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
156.0	84	3.0000	22.2	72.7
157.0	83	3.0000	22.1	72.5
158.0	82	3.0000	21.9	72.2
159.0	81	3.0000	21.9	72.1
160.0	80	3.0000	21.8	72.0
161.0	79	3.0000	21.6	71.8
162.0	79	3.0000	21.5	71.6
163.0	78	3.0000	21.5	71.5
164.0	78	3.0000	21.4	71.4
165.0	77	3.0000	21.3	71.3
166.0	76	3.0000	21.2	71.1
167.0	75	3.0000	21.1	70.8
168.0	74	3.0000	20.9	70.5
169.0	73	3.0000	20.7	70.2
170.0	71	3.0000	20.6	69.9
171.0	70	3.0000	20.4	69.6
172.0	69	3.0000	20.2	69.4
173.0	68	3.0000	20.1	69.2
174.0	68	3.0000	20.0	69.0
175.0	66	3.0000	19.9	68.7
176.0	65	3.0000	19.7	68.4
177.0	64	3.0000	19.5	68.0
178.0	63	3.0000	19.4	67.8
179.0	62	3.0000	19.3	67.6
180.0	62	3.0000	19.2	67.5
181.0	61	3.0000	19.1	67.3
182.0	60	3.0000	19.0	67.1
183.0	59	3.0000	18.8	66.8
184.0	58	3.0000	18.6	66.4
185.0	56	3.0000	18.4	65.9
186.0	54	3.0000	18.1	65.3
187.0	53	3.0000	17.7	64.7
188.0	52	3.0000	17.5	64.3
189.0	50	3.0000	17.2	63.7
190.0	48	3.0000	16.8	63.0
191.0	46	3.0000	16.3	62.0
192.0	43	3.0000	15.8	60.9
193.0	41	3.0000	15.4	59.9
194.0	40	3.0000	15.1	59.3
195.0	40	3.0000	15.1	59.2
196.0	41	3.0000	15.4	59.9
197.0	44	3.0000	15.9	61.1

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EXHIBIT 4(d) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Authorized KBOC Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
198.0	47	3.0000	16.6	62.5
199.0	50	3.0000	17.2	63.7
200.0	52	3.0000	17.7	64.6
201.0	55	3.0000	18.1	65.4
202.0	57	3.0000	18.4	66.0
203.0	58	3.0000	18.7	66.5
204.0	59	3.0000	18.8	66.7
205.0	60	3.0000	18.9	67.0
206.0	61	3.0000	19.1	67.3
207.0	62	3.0000	19.2	67.6
208.0	63	3.0000	19.4	67.8
209.0	63	3.0000	19.4	67.9
210.0	64	3.0000	19.5	68.1
211.0	65	3.0000	19.7	68.3
212.0	66	3.0000	19.8	68.7
213.0	67	3.0000	20.0	68.9
214.0	68	3.0000	20.0	69.0
215.0	67	3.0000	20.0	69.0
216.0	67	3.0000	19.9	68.8
217.0	66	3.0000	19.8	68.7
218.0	66	3.0000	19.8	68.6
219.0	66	3.0000	19.8	68.7
220.0	67	3.0000	19.9	68.8
221.0	68	3.0000	20.1	69.1
222.0	68	3.0000	20.1	69.2
223.0	69	3.0000	20.2	69.3
224.0	69	3.0000	20.2	69.3
225.0	68	3.0000	20.1	69.2
226.0	68	3.0000	20.0	69.0
227.0	66	3.0000	19.9	68.7
228.0	65	3.0000	19.7	68.3
229.0	63	3.0000	19.4	67.9
230.0	62	3.0000	19.3	67.7
231.0	62	3.0000	19.2	67.5
232.0	62	3.0000	19.2	67.6
233.0	63	3.0000	19.3	67.7
234.0	63	3.0000	19.5	68.0
235.0	64	3.0000	19.6	68.2
236.0	65	3.0000	19.7	68.4
237.0	66	3.0000	19.8	68.6
238.0	67	3.0000	19.9	68.9
239.0	68	3.0000	20.1	69.1

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EXHIBIT 4(d) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Authorized KBOC Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
240.0	69	3.0000	20.2	69.3
241.0	70	3.0000	20.3	69.6
242.0	70	3.0000	20.4	69.7
243.0	70	3.0000	20.3	69.5
244.0	68	3.0000	20.1	69.1
245.0	66	3.0000	19.8	68.6
246.0	63	3.0000	19.4	67.9
247.0	61	3.0000	19.1	67.2
248.0	58	3.0000	18.7	66.5
249.0	56	3.0000	18.4	65.9
250.0	55	3.0000	18.1	65.5
251.0	54	3.0000	17.9	65.1
252.0	53	3.0000	17.8	64.9
253.0	53	3.0000	17.7	64.7
254.0	53	3.0000	17.7	64.7
255.0	52	3.0000	17.7	64.6
256.0	53	3.0000	17.7	64.7
257.0	53	3.0000	17.9	65.0
258.0	54	3.0000	18.0	65.3
259.0	55	3.0000	18.1	65.5
260.0	56	3.0000	18.3	65.8
261.0	57	3.0000	18.5	66.1
262.0	58	3.0000	18.7	66.5
263.0	59	3.0000	18.9	66.9
264.0	60	3.0000	19.0	67.1
265.0	61	3.0000	19.1	67.4
266.0	62	3.0000	19.3	67.7
267.0	64	3.0000	19.5	68.0
268.0	65	3.0000	19.6	68.3
269.0	66	3.0000	19.8	68.5
270.0	67	3.0000	19.9	68.8
271.0	67	3.0000	20.0	69.0
272.0	68	3.0000	20.1	69.2
273.0	69	3.0000	20.2	69.4
274.0	70	3.0000	20.3	69.6
275.0	70	3.0000	20.4	69.6
276.0	70	3.0000	20.4	69.7
277.0	70	3.0000	20.3	69.5
278.0	69	3.0000	20.3	69.5
279.0	69	3.0000	20.3	69.5
280.0	70	3.0000	20.4	69.6
281.0	70	3.0000	20.4	69.6

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EXHIBIT 4(d) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Authorized KBOC Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
282.0	71	3.0000	20.5	69.8
283.0	71	3.0000	20.5	69.9
284.0	71	3.0000	20.6	70.0
285.0	71	3.0000	20.5	69.9
286.0	71	3.0000	20.5	69.8
287.0	70	3.0000	20.4	69.7
288.0	69	3.0000	20.3	69.5
289.0	68	3.0000	20.1	69.1
290.0	66	3.0000	19.8	68.6
291.0	64	3.0000	19.5	68.1
292.0	63	3.0000	19.4	67.8
293.0	62	3.0000	19.2	67.5
294.0	60	3.0000	19.0	67.1
295.0	59	3.0000	18.8	66.8
296.0	58	3.0000	18.7	66.5
297.0	58	3.0000	18.6	66.3
298.0	57	3.0000	18.5	66.2
299.0	57	3.0000	18.4	66.1
300.0	56	3.0000	18.3	65.9
301.0	55	3.0000	18.2	65.6
302.0	55	3.0000	18.1	65.4
303.0	54	3.0000	18.0	65.3
304.0	55	3.0000	18.1	65.4
305.0	55	3.0000	18.2	65.6
306.0	55	3.0000	18.2	65.7
307.0	56	3.0000	18.3	65.7
308.0	56	3.0000	18.3	65.9
309.0	57	3.0000	18.6	66.3
310.0	59	3.0000	18.9	66.9
311.0	61	3.0000	19.1	67.3
312.0	62	3.0000	19.2	67.5
313.0	61	3.0000	19.2	67.4
314.0	61	3.0000	19.1	67.3
315.0	61	3.0000	19.1	67.2
316.0	61	3.0000	19.1	67.3
317.0	61	3.0000	19.1	67.3
318.0	60	3.0000	19.0	67.1
319.0	59	3.0000	18.8	66.7
320.0	58	3.0000	18.6	66.4
321.0	57	3.0000	18.5	66.2
322.0	56	3.0000	18.4	66.0
323.0	56	3.0000	18.3	65.8

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EXHIBIT 4(d) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Authorized KBOC Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 80dBu Contour (km)</u>	<u>Distance to F(50,10) 40dBu Contour (km)</u>
324.0	55	3.0000	18.1	65.5
325.0	54	3.0000	17.9	65.1
326.0	52	3.0000	17.7	64.6
327.0	51	3.0000	17.4	64.1
328.0	50	3.0000	17.2	63.8
329.0	50	3.0000	17.2	63.7
330.0	51	3.0000	17.4	64.1
331.0	53	3.0000	17.7	64.7
332.0	54	3.0000	18.0	65.2
333.0	55	3.0000	18.2	65.6
334.0	55	3.0000	18.1	65.5
335.0	54	3.0000	17.9	65.1
336.0	52	3.0000	17.6	64.5
337.0	51	3.0000	17.3	63.9
338.0	49	3.0000	17.1	63.5
339.0	48	3.0000	16.9	63.1
340.0	47	3.0000	16.6	62.6
341.0	46	3.0000	16.3	62.0
342.0	44	3.0000	16.0	61.4
343.0	43	3.0000	15.7	60.8
344.0	41	3.0000	15.4	59.9
345.0	40	3.0000	15.1	59.3
346.0	39	3.0000	15.0	59.0
347.0	39	3.0000	14.9	58.8
348.0	39	3.0000	14.9	58.7
349.0	38	3.0000	14.8	58.5
350.0	38	3.0000	14.8	58.4
351.0	38	3.0000	14.8	58.5
352.0	38	3.0000	14.7	58.3
353.0	38	3.0000	14.8	58.5
354.0	39	3.0000	14.9	58.6
355.0	39	3.0000	15.0	58.9
356.0	40	3.0000	15.1	59.3
357.0	41	3.0000	15.3	59.7
358.0	42	3.0000	15.4	60.1
359.0	42	3.0000	15.6	60.4

Note : Terrain Source - USGS 30 Arc Second Point Database

RUBIN, BEDNAREK & ASSOCIATES, INC.
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EXHIBIT 4(e)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KEGL Facility

Site Coordinates : N 32° 34' 43" W 96° 57' 12"

Maximum ERP : 100.0 kW

Antenna Type : Omni-Directional

File Number : BLH-9999

Antenna Radiation Center Height : 640 meters AMSL

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
0.0	451	100.0000	83.5	12.2
1.0	449	100.0000	83.3	12.1
2.0	446	100.0000	83.1	12.1
3.0	444	100.0000	83.0	12.1
4.0	443	100.0000	82.9	12.1
5.0	441	100.0000	82.8	12.1
6.0	439	100.0000	82.6	12.0
7.0	437	100.0000	82.5	12.0
8.0	435	100.0000	82.3	12.0
9.0	432	100.0000	82.1	11.9
10.0	429	100.0000	81.9	11.9
11.0	427	100.0000	81.7	11.9
12.0	426	100.0000	81.6	11.9
13.0	425	100.0000	81.6	11.9
14.0	424	100.0000	81.5	11.9
15.0	424	100.0000	81.5	11.9
16.0	424	100.0000	81.5	11.9
17.0	425	100.0000	81.6	11.9
18.0	426	100.0000	81.7	11.9
19.0	427	100.0000	81.7	11.9
20.0	428	100.0000	81.8	11.9
21.0	430	100.0000	81.9	11.9
22.0	430	100.0000	82.0	11.9
23.0	431	100.0000	82.0	11.9
24.0	431	100.0000	82.0	11.9
25.0	431	100.0000	82.1	11.9
26.0	432	100.0000	82.1	11.9
27.0	432	100.0000	82.1	12.0
28.0	433	100.0000	82.1	12.0
29.0	433	100.0000	82.2	12.0

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1350 CONNECTICUT AVENUE, NW - SUITE 610

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EXHIBIT 4(e) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Licensed KEGL Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
30.0	433	100.0000	82.2	12.0
31.0	434	100.0000	82.3	12.0
32.0	435	100.0000	82.3	12.0
33.0	435	100.0000	82.3	12.0
34.0	435	100.0000	82.3	12.0
35.0	436	100.0000	82.4	12.0
36.0	436	100.0000	82.4	12.0
37.0	437	100.0000	82.5	12.0
38.0	438	100.0000	82.5	12.0
39.0	439	100.0000	82.6	12.0
40.0	441	100.0000	82.7	12.0
41.0	442	100.0000	82.8	12.1
42.0	443	100.0000	82.9	12.1
43.0	444	100.0000	83.0	12.1
44.0	445	100.0000	83.1	12.1
45.0	446	100.0000	83.1	12.1
46.0	447	100.0000	83.2	12.1
47.0	446	100.0000	83.1	12.1
48.0	445	100.0000	83.1	12.1
49.0	444	100.0000	83.0	12.1
50.0	444	100.0000	83.0	12.1
51.0	444	100.0000	83.0	12.1
52.0	445	100.0000	83.0	12.1
53.0	446	100.0000	83.1	12.1
54.0	447	100.0000	83.2	12.1
55.0	447	100.0000	83.2	12.1
56.0	447	100.0000	83.2	12.1
57.0	447	100.0000	83.2	12.1
58.0	447	100.0000	83.2	12.1
59.0	447	100.0000	83.2	12.1
60.0	447	100.0000	83.2	12.1
61.0	447	100.0000	83.2	12.1
62.0	447	100.0000	83.2	12.1
63.0	447	100.0000	83.2	12.1
64.0	447	100.0000	83.2	12.1
65.0	447	100.0000	83.2	12.1
66.0	447	100.0000	83.2	12.1
67.0	447	100.0000	83.2	12.1
68.0	447	100.0000	83.2	12.1
69.0	448	100.0000	83.2	12.1
70.0	448	100.0000	83.2	12.1
71.0	448	100.0000	83.2	12.1

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EXHIBIT 4(e) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KEGL Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
72.0	448	100.0000	83.2	12.1
73.0	448	100.0000	83.2	12.1
74.0	448	100.0000	83.2	12.1
75.0	447	100.0000	83.2	12.1
76.0	447	100.0000	83.2	12.1
77.0	446	100.0000	83.2	12.1
78.0	446	100.0000	83.1	12.1
79.0	445	100.0000	83.0	12.1
80.0	444	100.0000	83.0	12.1
81.0	443	100.0000	82.9	12.1
82.0	444	100.0000	82.9	12.1
83.0	444	100.0000	83.0	12.1
84.0	444	100.0000	83.0	12.1
85.0	445	100.0000	83.0	12.1
86.0	445	100.0000	83.0	12.1
87.0	445	100.0000	83.0	12.1
88.0	444	100.0000	83.0	12.1
89.0	443	100.0000	82.9	12.1
90.0	442	100.0000	82.8	12.1
91.0	440	100.0000	82.7	12.0
92.0	439	100.0000	82.6	12.0
93.0	437	100.0000	82.5	12.0
94.0	436	100.0000	82.4	12.0
95.0	435	100.0000	82.3	12.0
96.0	435	100.0000	82.3	12.0
97.0	435	100.0000	82.3	12.0
98.0	436	100.0000	82.4	12.0
99.0	436	100.0000	82.4	12.0
100.0	437	100.0000	82.4	12.0
101.0	437	100.0000	82.4	12.0
102.0	437	100.0000	82.4	12.0
103.0	436	100.0000	82.4	12.0
104.0	435	100.0000	82.3	12.0
105.0	435	100.0000	82.3	12.0
106.0	435	100.0000	82.3	12.0
107.0	435	100.0000	82.3	12.0
108.0	436	100.0000	82.4	12.0
109.0	436	100.0000	82.4	12.0
110.0	437	100.0000	82.5	12.0
111.0	438	100.0000	82.5	12.0
112.0	438	100.0000	82.6	12.0
113.0	439	100.0000	82.6	12.0

RUBIN, BEDNAREK & ASSOCIATES, INC.

CONSULTING TELECOMMUNICATIONS ENGINEERS

1350 CONNECTICUT AVENUE, NW - SUITE 610

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EXHIBIT 4(e) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Licensed KEGL Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
114.0	440	100.0000	82.7	12.0
115.0	441	100.0000	82.7	12.0
116.0	441	100.0000	82.8	12.1
117.0	442	100.0000	82.8	12.1
118.0	443	100.0000	82.9	12.1
119.0	444	100.0000	83.0	12.1
120.0	445	100.0000	83.1	12.1
121.0	446	100.0000	83.1	12.1
122.0	447	100.0000	83.2	12.1
123.0	447	100.0000	83.2	12.1
124.0	447	100.0000	83.2	12.1
125.0	446	100.0000	83.1	12.1
126.0	445	100.0000	83.1	12.1
127.0	445	100.0000	83.0	12.1
128.0	444	100.0000	83.0	12.1
129.0	444	100.0000	83.0	12.1
130.0	444	100.0000	83.0	12.1
131.0	444	100.0000	82.9	12.1
132.0	443	100.0000	82.9	12.1
133.0	443	100.0000	82.9	12.1
134.0	443	100.0000	82.9	12.1
135.0	443	100.0000	82.9	12.1
136.0	443	100.0000	82.9	12.1
137.0	442	100.0000	82.8	12.1
138.0	441	100.0000	82.8	12.0
139.0	440	100.0000	82.7	12.0
140.0	438	100.0000	82.5	12.0
141.0	436	100.0000	82.4	12.0
142.0	434	100.0000	82.3	12.0
143.0	432	100.0000	82.1	12.0
144.0	431	100.0000	82.0	11.9
145.0	429	100.0000	81.9	11.9
146.0	428	100.0000	81.8	11.9
147.0	427	100.0000	81.8	11.9
148.0	426	100.0000	81.7	11.9
149.0	425	100.0000	81.6	11.9
150.0	424	100.0000	81.5	11.8
151.0	422	100.0000	81.4	11.8
152.0	421	100.0000	81.3	11.8
153.0	421	100.0000	81.3	11.8
154.0	421	100.0000	81.3	11.8
155.0	421	100.0000	81.3	11.8

RUBIN, BEDNAREK & ASSOCIATES, INC.

CONSULTING TELECOMMUNICATIONS ENGINEERS

1350 CONNECTICUT AVENUE, NW - SUITE 610

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EXHIBIT 4(e) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KEGL Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
156.0	421	100.0000	81.3	11.8
157.0	422	100.0000	81.4	11.8
158.0	423	100.0000	81.4	11.8
159.0	423	100.0000	81.4	11.8
160.0	422	100.0000	81.4	11.8
161.0	422	100.0000	81.3	11.8
162.0	421	100.0000	81.3	11.8
163.0	421	100.0000	81.3	11.8
164.0	422	100.0000	81.4	11.8
165.0	424	100.0000	81.5	11.8
166.0	426	100.0000	81.6	11.9
167.0	428	100.0000	81.8	11.9
168.0	429	100.0000	81.9	11.9
169.0	430	100.0000	81.9	11.9
170.0	429	100.0000	81.9	11.9
171.0	427	100.0000	81.7	11.9
172.0	425	100.0000	81.6	11.9
173.0	424	100.0000	81.5	11.9
174.0	423	100.0000	81.4	11.8
175.0	422	100.0000	81.4	11.8
176.0	421	100.0000	81.3	11.8
177.0	420	100.0000	81.2	11.8
178.0	419	100.0000	81.1	11.8
179.0	418	100.0000	81.1	11.8
180.0	417	100.0000	81.0	11.8
181.0	417	100.0000	81.0	11.8
182.0	416	100.0000	80.9	11.8
183.0	415	100.0000	80.8	11.7
184.0	414	100.0000	80.8	11.7
185.0	413	100.0000	80.7	11.7
186.0	413	100.0000	80.7	11.7
187.0	412	100.0000	80.6	11.7
188.0	411	100.0000	80.6	11.7
189.0	410	100.0000	80.5	11.7
190.0	409	100.0000	80.4	11.7
191.0	408	100.0000	80.3	11.7
192.0	407	100.0000	80.3	11.7
193.0	407	100.0000	80.2	11.6
194.0	406	100.0000	80.2	11.6
195.0	406	100.0000	80.2	11.6
196.0	405	100.0000	80.1	11.6
197.0	405	100.0000	80.1	11.6

RUBIN, BEDNAREK & ASSOCIATES, INC.

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EXHIBIT 4(e) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Licensed KEGL Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
198.0	405	100.0000	80.1	11.6
199.0	405	100.0000	80.1	11.6
200.0	405	100.0000	80.1	11.6
201.0	406	100.0000	80.1	11.6
202.0	406	100.0000	80.2	11.6
203.0	408	100.0000	80.3	11.7
204.0	411	100.0000	80.5	11.7
205.0	414	100.0000	80.8	11.7
206.0	417	100.0000	81.0	11.8
207.0	420	100.0000	81.2	11.8
208.0	423	100.0000	81.4	11.8
209.0	425	100.0000	81.6	11.9
210.0	426	100.0000	81.7	11.9
211.0	427	100.0000	81.8	11.9
212.0	429	100.0000	81.9	11.9
213.0	430	100.0000	81.9	11.9
214.0	431	100.0000	82.0	11.9
215.0	433	100.0000	82.1	12.0
216.0	434	100.0000	82.2	12.0
217.0	435	100.0000	82.3	12.0
218.0	436	100.0000	82.4	12.0
219.0	437	100.0000	82.5	12.0
220.0	438	100.0000	82.5	12.0
221.0	439	100.0000	82.6	12.0
222.0	439	100.0000	82.6	12.0
223.0	440	100.0000	82.7	12.0
224.0	440	100.0000	82.7	12.0
225.0	442	100.0000	82.8	12.1
226.0	442	100.0000	82.9	12.1
227.0	443	100.0000	82.9	12.1
228.0	444	100.0000	83.0	12.1
229.0	446	100.0000	83.1	12.1
230.0	447	100.0000	83.2	12.1
231.0	449	100.0000	83.3	12.1
232.0	449	100.0000	83.4	12.1
233.0	451	100.0000	83.4	12.2
234.0	452	100.0000	83.5	12.2
235.0	454	100.0000	83.7	12.2
236.0	455	100.0000	83.8	12.2
237.0	457	100.0000	83.9	12.2
238.0	458	100.0000	84.0	12.2
239.0	458	100.0000	84.0	12.2

RUBIN, BEDNAREK & ASSOCIATES, INC.

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1350 CONNECTICUT AVENUE, NW - SUITE 610

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EXHIBIT 4(e) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KEGL Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
240.0	458	100.0000	84.0	12.2
241.0	457	100.0000	83.9	12.2
242.0	456	100.0000	83.8	12.2
243.0	455	100.0000	83.8	12.2
244.0	454	100.0000	83.7	12.2
245.0	454	100.0000	83.7	12.2
246.0	453	100.0000	83.6	12.2
247.0	453	100.0000	83.6	12.2
248.0	452	100.0000	83.6	12.2
249.0	452	100.0000	83.6	12.2
250.0	452	100.0000	83.6	12.2
251.0	453	100.0000	83.6	12.2
252.0	454	100.0000	83.7	12.2
253.0	454	100.0000	83.7	12.2
254.0	455	100.0000	83.8	12.2
255.0	456	100.0000	83.8	12.2
256.0	457	100.0000	83.9	12.2
257.0	459	100.0000	84.0	12.2
258.0	460	100.0000	84.1	12.2
259.0	461	100.0000	84.2	12.3
260.0	461	100.0000	84.2	12.3
261.0	461	100.0000	84.2	12.3
262.0	461	100.0000	84.2	12.2
263.0	460	100.0000	84.1	12.2
264.0	459	100.0000	84.1	12.2
265.0	459	100.0000	84.1	12.2
266.0	459	100.0000	84.1	12.2
267.0	460	100.0000	84.1	12.2
268.0	460	100.0000	84.1	12.2
269.0	462	100.0000	84.2	12.3
270.0	463	100.0000	84.4	12.3
271.0	465	100.0000	84.5	12.3
272.0	466	100.0000	84.6	12.3
273.0	466	100.0000	84.6	12.3
274.0	466	100.0000	84.6	12.3
275.0	466	100.0000	84.6	12.3
276.0	466	100.0000	84.5	12.3
277.0	466	100.0000	84.5	12.3
278.0	465	100.0000	84.5	12.3
279.0	465	100.0000	84.4	12.3
280.0	464	100.0000	84.4	12.3
281.0	464	100.0000	84.4	12.3

RUBIN, BEDNAREK & ASSOCIATES, INC.

CONSULTING TELECOMMUNICATIONS ENGINEERS

1350 CONNECTICUT AVENUE, NW - SUITE 610

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EXHIBIT 4(e) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KEGL Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
282.0	464	100.0000	84.4	12.3
283.0	464	100.0000	84.4	12.3
284.0	464	100.0000	84.4	12.3
285.0	464	100.0000	84.4	12.3
286.0	465	100.0000	84.5	12.3
287.0	466	100.0000	84.5	12.3
288.0	467	100.0000	84.6	12.3
289.0	467	100.0000	84.6	12.3
290.0	468	100.0000	84.7	12.3
291.0	468	100.0000	84.7	12.3
292.0	468	100.0000	84.7	12.3
293.0	469	100.0000	84.7	12.3
294.0	469	100.0000	84.8	12.3
295.0	469	100.0000	84.8	12.3
296.0	470	100.0000	84.8	12.3
297.0	469	100.0000	84.8	12.3
298.0	470	100.0000	84.8	12.3
299.0	470	100.0000	84.8	12.3
300.0	470	100.0000	84.8	12.3
301.0	470	100.0000	84.8	12.3
302.0	470	100.0000	84.8	12.3
303.0	470	100.0000	84.8	12.3
304.0	470	100.0000	84.8	12.3
305.0	470	100.0000	84.8	12.3
306.0	470	100.0000	84.8	12.3
307.0	471	100.0000	84.9	12.3
308.0	471	100.0000	84.9	12.3
309.0	471	100.0000	84.9	12.3
310.0	471	100.0000	84.9	12.3
311.0	471	100.0000	84.9	12.3
312.0	471	100.0000	84.9	12.3
313.0	471	100.0000	84.9	12.3
314.0	470	100.0000	84.8	12.3
315.0	470	100.0000	84.8	12.3
316.0	470	100.0000	84.8	12.3
317.0	470	100.0000	84.8	12.3
318.0	470	100.0000	84.8	12.3
319.0	470	100.0000	84.8	12.3
320.0	470	100.0000	84.8	12.3
321.0	470	100.0000	84.8	12.3
322.0	470	100.0000	84.8	12.3
323.0	471	100.0000	84.9	12.3

RUBIN, BEDNAREK & ASSOCIATES, INC.
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EXHIBIT 4(e) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KEGL Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
324.0	471	100.0000	84.9	12.3
325.0	471	100.0000	84.9	12.3
326.0	471	100.0000	84.9	12.3
327.0	471	100.0000	84.9	12.3
328.0	472	100.0000	84.9	12.3
329.0	472	100.0000	84.9	12.3
330.0	473	100.0000	85.0	12.4
331.0	473	100.0000	85.0	12.4
332.0	475	100.0000	85.1	12.4
333.0	476	100.0000	85.2	12.4
334.0	477	100.0000	85.3	12.4
335.0	478	100.0000	85.3	12.4
336.0	479	100.0000	85.4	12.4
337.0	479	100.0000	85.4	12.4
338.0	480	100.0000	85.4	12.4
339.0	479	100.0000	85.4	12.4
340.0	479	100.0000	85.4	12.4
341.0	478	100.0000	85.4	12.4
342.0	478	100.0000	85.3	12.4
343.0	478	100.0000	85.3	12.4
344.0	478	100.0000	85.3	12.4
345.0	477	100.0000	85.3	12.4
346.0	476	100.0000	85.2	12.4
347.0	475	100.0000	85.2	12.4
348.0	474	100.0000	85.1	12.4
349.0	473	100.0000	85.0	12.4
350.0	471	100.0000	84.9	12.3
351.0	469	100.0000	84.8	12.3
352.0	468	100.0000	84.7	12.3
353.0	466	100.0000	84.6	12.3
354.0	464	100.0000	84.4	12.3
355.0	462	100.0000	84.3	12.3
356.0	460	100.0000	84.1	12.2
357.0	458	100.0000	84.0	12.2
358.0	456	100.0000	83.9	12.2
359.0	454	100.0000	83.7	12.2

Note : Terrain Source - USGS 30 Arc Second Point Database

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EXHIBIT 4(f)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KSCS Facility

Site Coordinates : N 32° 35' 15" W 96° 57' 59"

Maximum ERP : 100.0 kW

Antenna Type : Omni-Directional

File Number : BMPH-900518KD

Antenna Radiation Center Height : 680 meters AMSL

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
0.0	519	100.0000	87.8	12.7
1.0	516	100.0000	87.7	12.7
2.0	514	100.0000	87.6	12.7
3.0	512	100.0000	87.4	12.7
4.0	510	100.0000	87.3	12.7
5.0	507	100.0000	87.1	12.6
6.0	504	100.0000	86.9	12.6
7.0	501	100.0000	86.7	12.6
8.0	498	100.0000	86.6	12.6
9.0	495	100.0000	86.4	12.5
10.0	492	100.0000	86.2	12.5
11.0	490	100.0000	86.1	12.5
12.0	487	100.0000	85.9	12.5
13.0	484	100.0000	85.7	12.4
14.0	481	100.0000	85.6	12.4
15.0	476	100.0000	85.2	12.4
16.0	471	100.0000	84.9	12.3
17.0	467	100.0000	84.6	12.3
18.0	465	100.0000	84.5	12.3
19.0	464	100.0000	84.4	12.3
20.0	464	100.0000	84.4	12.3
21.0	464	100.0000	84.4	12.3
22.0	464	100.0000	84.4	12.3
23.0	464	100.0000	84.4	12.3
24.0	465	100.0000	84.5	12.3
25.0	466	100.0000	84.5	12.3
26.0	467	100.0000	84.6	12.3
27.0	468	100.0000	84.7	12.3
28.0	468	100.0000	84.7	12.3
29.0	468	100.0000	84.7	12.3

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EXHIBIT 4(f) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Licensed KSCS Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
30.0	467	100.0000	84.6	12.3
31.0	468	100.0000	84.7	12.3
32.0	469	100.0000	84.7	12.3
33.0	470	100.0000	84.8	12.3
34.0	471	100.0000	84.9	12.3
35.0	471	100.0000	84.9	12.3
36.0	472	100.0000	85.0	12.4
37.0	474	100.0000	85.1	12.4
38.0	475	100.0000	85.1	12.4
39.0	476	100.0000	85.2	12.4
40.0	476	100.0000	85.2	12.4
41.0	476	100.0000	85.2	12.4
42.0	476	100.0000	85.2	12.4
43.0	476	100.0000	85.2	12.4
44.0	477	100.0000	85.3	12.4
45.0	478	100.0000	85.4	12.4
46.0	479	100.0000	85.4	12.4
47.0	480	100.0000	85.5	12.4
48.0	481	100.0000	85.6	12.4
49.0	483	100.0000	85.6	12.4
50.0	484	100.0000	85.7	12.4
51.0	485	100.0000	85.8	12.5
52.0	485	100.0000	85.8	12.5
53.0	485	100.0000	85.8	12.5
54.0	484	100.0000	85.7	12.4
55.0	483	100.0000	85.7	12.4
56.0	482	100.0000	85.6	12.4
57.0	482	100.0000	85.6	12.4
58.0	482	100.0000	85.6	12.4
59.0	483	100.0000	85.6	12.4
60.0	483	100.0000	85.6	12.4
61.0	483	100.0000	85.6	12.4
62.0	482	100.0000	85.6	12.4
63.0	482	100.0000	85.6	12.4
64.0	482	100.0000	85.6	12.4
65.0	482	100.0000	85.6	12.4
66.0	482	100.0000	85.6	12.4
67.0	483	100.0000	85.6	12.4
68.0	483	100.0000	85.7	12.4
69.0	484	100.0000	85.7	12.4
70.0	484	100.0000	85.7	12.4
71.0	484	100.0000	85.7	12.4

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EXHIBIT 4(f) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KSCS Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
72.0	485	100.0000	85.8	12.5
73.0	485	100.0000	85.8	12.5
74.0	486	100.0000	85.9	12.5
75.0	487	100.0000	85.9	12.5
76.0	488	100.0000	86.0	12.5
77.0	489	100.0000	86.0	12.5
78.0	489	100.0000	86.0	12.5
79.0	489	100.0000	86.0	12.5
80.0	489	100.0000	86.0	12.5
81.0	488	100.0000	86.0	12.5
82.0	487	100.0000	85.9	12.5
83.0	486	100.0000	85.9	12.5
84.0	485	100.0000	85.8	12.5
85.0	483	100.0000	85.6	12.4
86.0	481	100.0000	85.6	12.4
87.0	480	100.0000	85.5	12.4
88.0	480	100.0000	85.5	12.4
89.0	479	100.0000	85.4	12.4
90.0	479	100.0000	85.4	12.4
91.0	478	100.0000	85.3	12.4
92.0	477	100.0000	85.3	12.4
93.0	475	100.0000	85.2	12.4
94.0	473	100.0000	85.0	12.4
95.0	472	100.0000	84.9	12.3
96.0	470	100.0000	84.8	12.3
97.0	469	100.0000	84.8	12.3
98.0	468	100.0000	84.7	12.3
99.0	467	100.0000	84.6	12.3
100.0	467	100.0000	84.6	12.3
101.0	468	100.0000	84.7	12.3
102.0	468	100.0000	84.7	12.3
103.0	469	100.0000	84.7	12.3
104.0	469	100.0000	84.7	12.3
105.0	468	100.0000	84.7	12.3
106.0	468	100.0000	84.7	12.3
107.0	468	100.0000	84.7	12.3
108.0	468	100.0000	84.7	12.3
109.0	469	100.0000	84.7	12.3
110.0	469	100.0000	84.8	12.3
111.0	470	100.0000	84.8	12.3
112.0	471	100.0000	84.9	12.3
113.0	473	100.0000	85.0	12.4

RUBIN, BEDNAREK & ASSOCIATES, INC.

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1350 CONNECTICUT AVENUE, NW - SUITE 610

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EXHIBIT 4(f) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Licensed KSCS Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
114.0	474	100.0000	85.1	12.4
115.0	474	100.0000	85.1	12.4
116.0	475	100.0000	85.1	12.4
117.0	476	100.0000	85.2	12.4
118.0	476	100.0000	85.2	12.4
119.0	477	100.0000	85.2	12.4
120.0	477	100.0000	85.3	12.4
121.0	478	100.0000	85.3	12.4
122.0	478	100.0000	85.4	12.4
123.0	479	100.0000	85.4	12.4
124.0	479	100.0000	85.4	12.4
125.0	479	100.0000	85.4	12.4
126.0	478	100.0000	85.4	12.4
127.0	478	100.0000	85.3	12.4
128.0	478	100.0000	85.3	12.4
129.0	478	100.0000	85.3	12.4
130.0	478	100.0000	85.4	12.4
131.0	479	100.0000	85.4	12.4
132.0	479	100.0000	85.4	12.4
133.0	480	100.0000	85.5	12.4
134.0	480	100.0000	85.5	12.4
135.0	480	100.0000	85.5	12.4
136.0	479	100.0000	85.4	12.4
137.0	478	100.0000	85.3	12.4
138.0	476	100.0000	85.2	12.4
139.0	474	100.0000	85.1	12.4
140.0	472	100.0000	85.0	12.3
141.0	470	100.0000	84.8	12.3
142.0	468	100.0000	84.7	12.3
143.0	466	100.0000	84.5	12.3
144.0	465	100.0000	84.5	12.3
145.0	464	100.0000	84.4	12.3
146.0	463	100.0000	84.3	12.3
147.0	461	100.0000	84.2	12.3
148.0	460	100.0000	84.1	12.2
149.0	459	100.0000	84.0	12.2
150.0	458	100.0000	84.0	12.2
151.0	458	100.0000	84.0	12.2
152.0	458	100.0000	84.0	12.2
153.0	458	100.0000	84.0	12.2
154.0	458	100.0000	84.0	12.2
155.0	458	100.0000	84.0	12.2

RUBIN, BEDNAREK & ASSOCIATES, INC.

CONSULTING TELECOMMUNICATIONS ENGINEERS

1350 CONNECTICUT AVENUE, NW - SUITE 610

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EXHIBIT 4(f) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Licensed KSCS Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
156.0	458	100.0000	84.0	12.2
157.0	457	100.0000	83.9	12.2
158.0	457	100.0000	83.9	12.2
159.0	457	100.0000	83.9	12.2
160.0	457	100.0000	83.9	12.2
161.0	459	100.0000	84.0	12.2
162.0	460	100.0000	84.2	12.2
163.0	462	100.0000	84.3	12.3
164.0	463	100.0000	84.3	12.3
165.0	463	100.0000	84.3	12.3
166.0	461	100.0000	84.2	12.3
167.0	460	100.0000	84.1	12.2
168.0	459	100.0000	84.0	12.2
169.0	458	100.0000	84.0	12.2
170.0	458	100.0000	84.0	12.2
171.0	457	100.0000	83.9	12.2
172.0	456	100.0000	83.8	12.2
173.0	455	100.0000	83.8	12.2
174.0	455	100.0000	83.8	12.2
175.0	454	100.0000	83.7	12.2
176.0	454	100.0000	83.7	12.2
177.0	453	100.0000	83.6	12.2
178.0	453	100.0000	83.6	12.2
179.0	452	100.0000	83.6	12.2
180.0	451	100.0000	83.5	12.2
181.0	451	100.0000	83.5	12.2
182.0	450	100.0000	83.4	12.1
183.0	449	100.0000	83.3	12.1
184.0	448	100.0000	83.3	12.1
185.0	447	100.0000	83.2	12.1
186.0	446	100.0000	83.1	12.1
187.0	445	100.0000	83.1	12.1
188.0	445	100.0000	83.1	12.1
189.0	445	100.0000	83.0	12.1
190.0	444	100.0000	83.0	12.1
191.0	444	100.0000	83.0	12.1
192.0	444	100.0000	83.0	12.1
193.0	445	100.0000	83.0	12.1
194.0	446	100.0000	83.1	12.1
195.0	447	100.0000	83.2	12.1
196.0	449	100.0000	83.3	12.1
197.0	452	100.0000	83.5	12.2

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EXHIBIT 4(f) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Licensed KSCS Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
198.0	455	100.0000	83.8	12.2
199.0	458	100.0000	84.0	12.2
200.0	462	100.0000	84.2	12.3
201.0	465	100.0000	84.5	12.3
202.0	468	100.0000	84.7	12.3
203.0	470	100.0000	84.8	12.3
204.0	472	100.0000	84.9	12.3
205.0	473	100.0000	85.0	12.4
206.0	475	100.0000	85.1	12.4
207.0	476	100.0000	85.2	12.4
208.0	478	100.0000	85.3	12.4
209.0	479	100.0000	85.4	12.4
210.0	480	100.0000	85.5	12.4
211.0	482	100.0000	85.6	12.4
212.0	483	100.0000	85.6	12.4
213.0	484	100.0000	85.7	12.4
214.0	485	100.0000	85.8	12.5
215.0	486	100.0000	85.8	12.5
216.0	486	100.0000	85.8	12.5
217.0	487	100.0000	85.9	12.5
218.0	488	100.0000	86.0	12.5
219.0	489	100.0000	86.0	12.5
220.0	490	100.0000	86.1	12.5
221.0	491	100.0000	86.1	12.5
222.0	492	100.0000	86.2	12.5
223.0	493	100.0000	86.3	12.5
224.0	494	100.0000	86.3	12.5
225.0	495	100.0000	86.4	12.5
226.0	495	100.0000	86.4	12.5
227.0	496	100.0000	86.4	12.5
228.0	497	100.0000	86.5	12.5
229.0	499	100.0000	86.6	12.6
230.0	500	100.0000	86.7	12.6
231.0	502	100.0000	86.8	12.6
232.0	502	100.0000	86.8	12.6
233.0	502	100.0000	86.8	12.6
234.0	502	100.0000	86.8	12.6
235.0	502	100.0000	86.8	12.6
236.0	501	100.0000	86.8	12.6
237.0	501	100.0000	86.7	12.6
238.0	501	100.0000	86.7	12.6
239.0	501	100.0000	86.7	12.6

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EXHIBIT 4(f) - (continued)

Tabulation of Distances to Protected and Interfering Contours

For Licensed KSCS Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
240.0	501	100.0000	86.7	12.6
241.0	501	100.0000	86.7	12.6
242.0	500	100.0000	86.7	12.6
243.0	500	100.0000	86.7	12.6
244.0	500	100.0000	86.7	12.6
245.0	500	100.0000	86.7	12.6
246.0	501	100.0000	86.7	12.6
247.0	501	100.0000	86.8	12.6
248.0	502	100.0000	86.8	12.6
249.0	502	100.0000	86.8	12.6
250.0	503	100.0000	86.9	12.6
251.0	504	100.0000	86.9	12.6
252.0	505	100.0000	87.0	12.6
253.0	506	100.0000	87.0	12.6
254.0	506	100.0000	87.0	12.6
255.0	505	100.0000	87.0	12.6
256.0	505	100.0000	87.0	12.6
257.0	504	100.0000	86.9	12.6
258.0	503	100.0000	86.9	12.6
259.0	502	100.0000	86.8	12.6
260.0	502	100.0000	86.8	12.6
261.0	502	100.0000	86.8	12.6
262.0	503	100.0000	86.9	12.6
263.0	504	100.0000	86.9	12.6
264.0	505	100.0000	87.0	12.6
265.0	507	100.0000	87.1	12.6
266.0	508	100.0000	87.2	12.6
267.0	509	100.0000	87.2	12.6
268.0	509	100.0000	87.3	12.7
269.0	509	100.0000	87.3	12.6
270.0	509	100.0000	87.2	12.6
271.0	508	100.0000	87.2	12.6
272.0	508	100.0000	87.2	12.6
273.0	507	100.0000	87.1	12.6
274.0	506	100.0000	87.1	12.6
275.0	505	100.0000	87.0	12.6
276.0	504	100.0000	87.0	12.6
277.0	504	100.0000	86.9	12.6
278.0	504	100.0000	86.9	12.6
279.0	504	100.0000	86.9	12.6
280.0	504	100.0000	86.9	12.6
281.0	504	100.0000	86.9	12.6

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EXHIBIT 4(f) - (continued)**Tabulation of Distances to Protected and Interfering Contours****For Licensed KSCS Facility**

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
282.0	505	100.0000	87.0	12.6
283.0	506	100.0000	87.0	12.6
284.0	507	100.0000	87.1	12.6
285.0	508	100.0000	87.2	12.6
286.0	508	100.0000	87.2	12.6
287.0	508	100.0000	87.2	12.6
288.0	509	100.0000	87.2	12.6
289.0	509	100.0000	87.2	12.6
290.0	509	100.0000	87.3	12.7
291.0	510	100.0000	87.3	12.7
292.0	510	100.0000	87.3	12.7
293.0	511	100.0000	87.3	12.7
294.0	511	100.0000	87.4	12.7
295.0	511	100.0000	87.4	12.7
296.0	511	100.0000	87.4	12.7
297.0	512	100.0000	87.4	12.7
298.0	512	100.0000	87.4	12.7
299.0	512	100.0000	87.4	12.7
300.0	513	100.0000	87.5	12.7
301.0	513	100.0000	87.5	12.7
302.0	513	100.0000	87.5	12.7
303.0	513	100.0000	87.5	12.7
304.0	513	100.0000	87.5	12.7
305.0	513	100.0000	87.5	12.7
306.0	513	100.0000	87.5	12.7
307.0	514	100.0000	87.5	12.7
308.0	514	100.0000	87.5	12.7
309.0	514	100.0000	87.5	12.7
310.0	514	100.0000	87.5	12.7
311.0	514	100.0000	87.5	12.7
312.0	514	100.0000	87.5	12.7
313.0	514	100.0000	87.5	12.7
314.0	514	100.0000	87.5	12.7
315.0	514	100.0000	87.5	12.7
316.0	514	100.0000	87.5	12.7
317.0	514	100.0000	87.5	12.7
318.0	514	100.0000	87.5	12.7
319.0	514	100.0000	87.5	12.7
320.0	515	100.0000	87.6	12.7
321.0	515	100.0000	87.6	12.7
322.0	515	100.0000	87.6	12.7
323.0	515	100.0000	87.6	12.7

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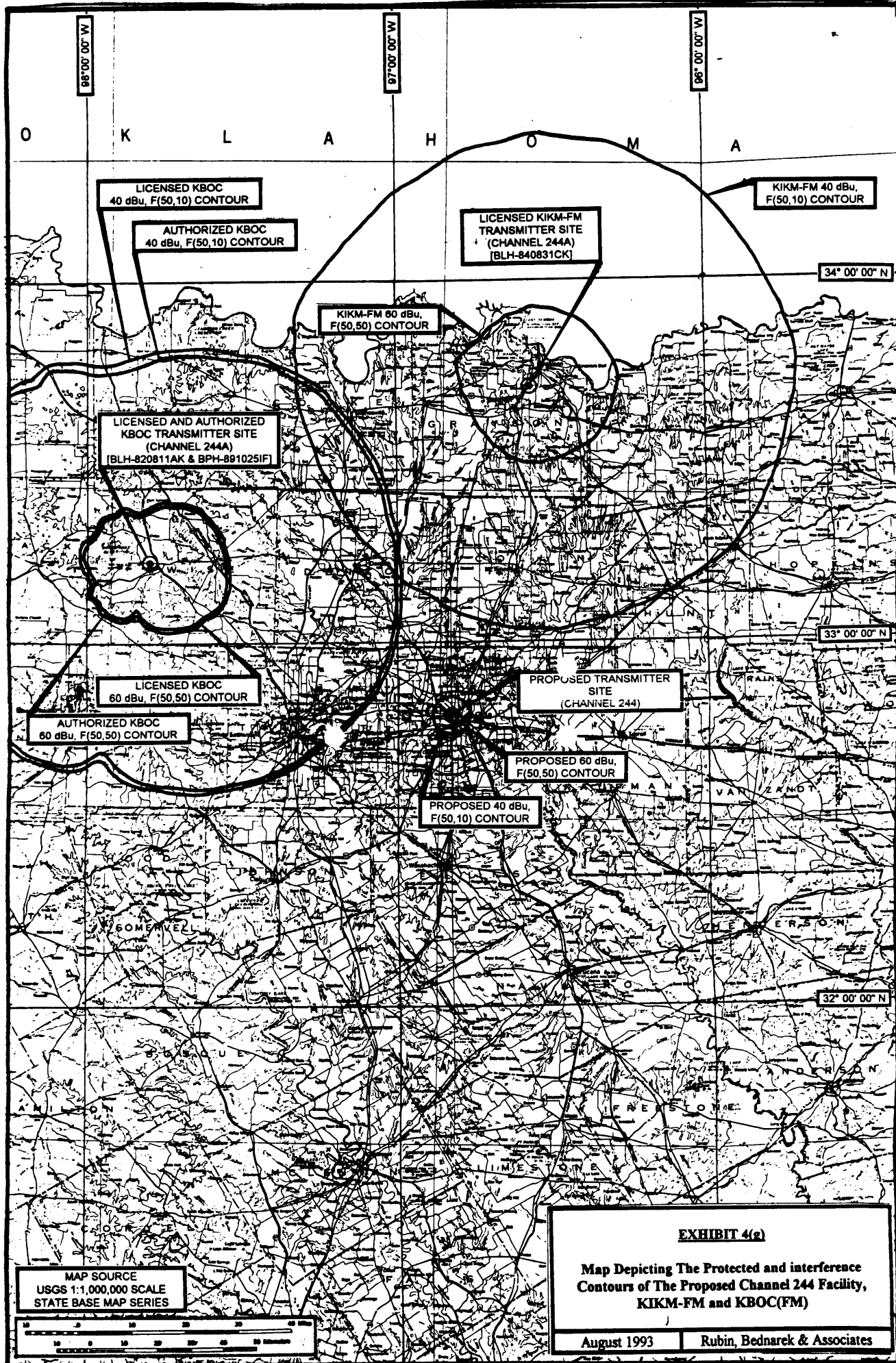
EXHIBIT 4(f) - (continued)

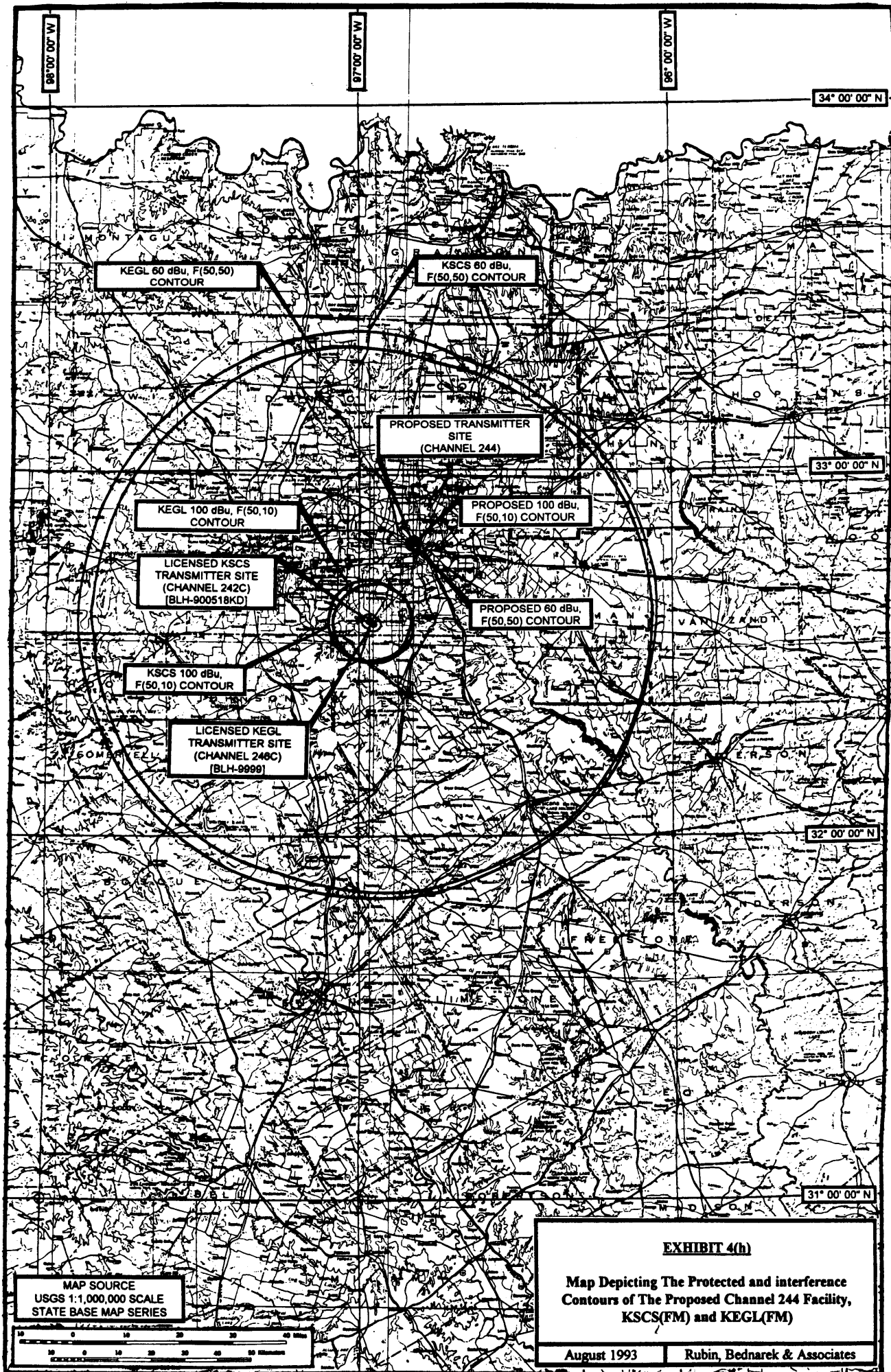
Tabulation of Distances to Protected and Interfering Contours

For Licensed KSCS Facility

<u>Azimuth</u>	<u>HAAT(m)</u>	<u>ERP (kw)</u>	<u>Distance to F(50,50) 60dBu Contour (km)</u>	<u>Distance to F(50,10) 100 dBu Contour (km)</u>
324.0	515	100.0000	87.6	12.7
325.0	515	100.0000	87.6	12.7
326.0	516	100.0000	87.6	12.7
327.0	516	100.0000	87.7	12.7
328.0	517	100.0000	87.7	12.7
329.0	517	100.0000	87.7	12.7
330.0	517	100.0000	87.7	12.7
331.0	517	100.0000	87.7	12.7
332.0	517	100.0000	87.7	12.7
333.0	518	100.0000	87.8	12.7
334.0	518	100.0000	87.8	12.7
335.0	519	100.0000	87.9	12.7
336.0	521	100.0000	87.9	12.7
337.0	522	100.0000	88.0	12.8
338.0	522	100.0000	88.0	12.8
339.0	523	100.0000	88.1	12.8
340.0	523	100.0000	88.1	12.8
341.0	524	100.0000	88.1	12.8
342.0	525	100.0000	88.2	12.8
343.0	525	100.0000	88.2	12.8
344.0	525	100.0000	88.2	12.8
345.0	525	100.0000	88.2	12.8
346.0	525	100.0000	88.2	12.8
347.0	525	100.0000	88.2	12.8
348.0	525	100.0000	88.2	12.8
349.0	525	100.0000	88.2	12.8
350.0	524	100.0000	88.2	12.8
351.0	524	100.0000	88.1	12.8
352.0	524	100.0000	88.1	12.8
353.0	523	100.0000	88.1	12.8
354.0	523	100.0000	88.1	12.8
355.0	523	100.0000	88.1	12.8
356.0	522	100.0000	88.0	12.8
357.0	522	100.0000	88.0	12.8
358.0	521	100.0000	88.0	12.8
359.0	520	100.0000	87.9	12.7

Note : Terrain Source - USGS 30 Arc Second Point Database





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Exhibit 5(a)

Calculation of Interference Contour From Proposed

Channel 244 Facility To Station KSCS(FM)

Distance from KSCS to proposed facility	: 26.9 kilometers
Azimuth from KSCS to proposed facility	: N 28.7° E
HAAT of KSCS antenna in direction of proposed facility	: 468 meters
Predicted KSCS, F(50,50) protected signal level at the proposed channel 244 transmitter site	: 86.7 dBu
Undesired to desired signal ratio (As per Section 73.215[a][2] of the Rules)	: 40 dB
Interfering, F(50,10) signal level of proposed facility	: 126.7 dBu (= 86.7 dBu + 40 dB)

The free space propagation formula is as follows :

$$E^2 = \{Z\} \{ \log^{-1}((ERP - \beta - 75 - [(20)(\log D)]) / 10) \}$$

where

E = Field Strength (V/m) = 2.1627 V/m [= 126.7 dBu]

Z = Characteristic Impedance of free space = 377Ω

ERP = Effective radiated power (dBw) = 0 dBw [= 1 watt]

β = Total obstruction loss (dB) = 0 dB

D = Distance to desired signal contour (miles)

substituting the above values in the equation and solving for D, the distance to the interfering 126.7 dBu contour of the proposed channel 244 facility is 2.6 meters.

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Exhibit 5(b)

Calculation of Interference Contour From Proposed

Channel 244 Facility To Station KEGL(FM)

Distance from KEGL to proposed facility : 27.2 kilometers

Azimuth from KEGL to proposed facility : N 25.5° E

HAAT of KSCS antenna in direction of proposed facility : 432 meters

Predicted KEGL, F(50,50) protected signal level
at the proposed channel 244 transmitter site : 85.7 dBu

Undesired to desired signal ratio
(As per Section 73.215[a][2] of the Rules) : 40 dB

Interfering, F(50,10) signal level of proposed facility : 125.7 dBu (= 85.7 dBu + 40 dB)

The free space propagation formula is as follows :

$$E^2 = \{Z\} \{\log^{-1}((ERP - \beta - 75 - [(20)(\log D)]) / 10)\}$$

where

E = Field Strength (V/m) = 1.9275 V/m [= 125.7 dBu]

Z = Characteristic Impedance of free space = 377Ω

ERP = Effective radiated power (dBw) = 0 dBw [= 1 watt]

β = Total obstruction loss (dB) = 0 dB

D = Distance to desired signal contour (miles)

substituting the above values in the equation and solving for D, the distance to the interfering 125.7 dBu contour of the proposed channel 244 facility is 2.9 meters.

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EXHIBIT 6

Radio Frequency Radiation Level Calculations

The following equation was extracted from OST Bulletin #65 and was used to determine radiation levels at ground level and at 2 meters above the ground for the specified antenna configurations:

$$S = \frac{(2.56)(1.64)(A)(ERP \text{ watts})(F)^2(1000 \text{ mW/watt})}{4\pi(R - 200)^2}$$

where: S = power density at 2 meters above ground level (mW/cm^2)
 F = relative field factor in downward direction
 R = distance to the lowest antenna radiating element
above ground level (cm)
 A = 1 for single polarization, 2 for dual polarization

The maximum radio frequency radiation at frequencies between 30 and 300 MHz is $1\text{mW}/\text{cm}^2$ according to the radio frequency protection guidelines contained in the ANSI C95.1-1982 standard (American National Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 kHz to 100 GHz).

ERP	:	1.0 Watts
Polarization	:	Vertical
Distance of Lowest Antenna Element Above Ground	:	770cm
Relative Field Factor Used in Calculations	:	1.0

$$S = .001028 \text{ mW}/\text{cm}^2$$

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EXHIBIT 6 - (continued)

Radio Frequency Radiation Level Calculations

The following variation of the above equation was used to determine the distance from the center of radiation of specified antenna configurations to the maximum guideline radiation level of 1 mW/cm²:

$$R = \sqrt{\frac{(2.56)(1.64)(A)(ERP \text{ watts})(F)^2(1000 \text{ mW/watt})}{4\pi(S)}}$$

Calculations to determine the distance from the antenna within which the ANSI maximum guideline radiation level of 1 mW/cm² would be exceeded yielded the following result :

$$R = 18.3 \text{ cm}$$