

This minor modification corrects the tower height and changes the antenna COR height, with adjustments to the directional pattern resulting in a slight change in the 1 mV/m contour coverage, as indicated below:

	FROM	TO
CHANNEL	CH 214	No change
COORDINATES	35-55-39 / 120-22-46	No change
SITE AMSL	1001 meters	No change
Tower AGL	15 meters	29 meters
Tower AMSL	1016 meters	1030 meters
COR AGL	12 meters	29 meters
COR AMSL	1013 meters	1030 meters
ERP	2.5 kW Vertical, DA	2.5 kW Vertical, DA (pattern adjusted)
HAAT	365 meters	382 meters
CLASS	B	No change

The proposed 1 mV/m contour will overlap the existing 1 mV/m contour and continue to provide coverage over the community of license of Coalinga.

KFRP will operate in compliance with all applicable FCC rules and regulations including those not specifically addressed in this minor modification.

The below listed pages of this Exhibit contains information as indicated.

Page 2	Tabulation of HAAT / ERP / distance to 1 mV/m contour
Page 3	1 mV/m contour map
Page 4	Existing and proposed 1 mV/m contour map
Page 5 - 21	Allocation Study

**Tabulation of HAAT / ERP / distances to 1 mV/m contour**

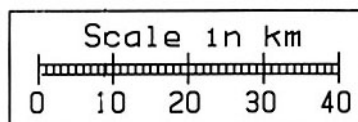
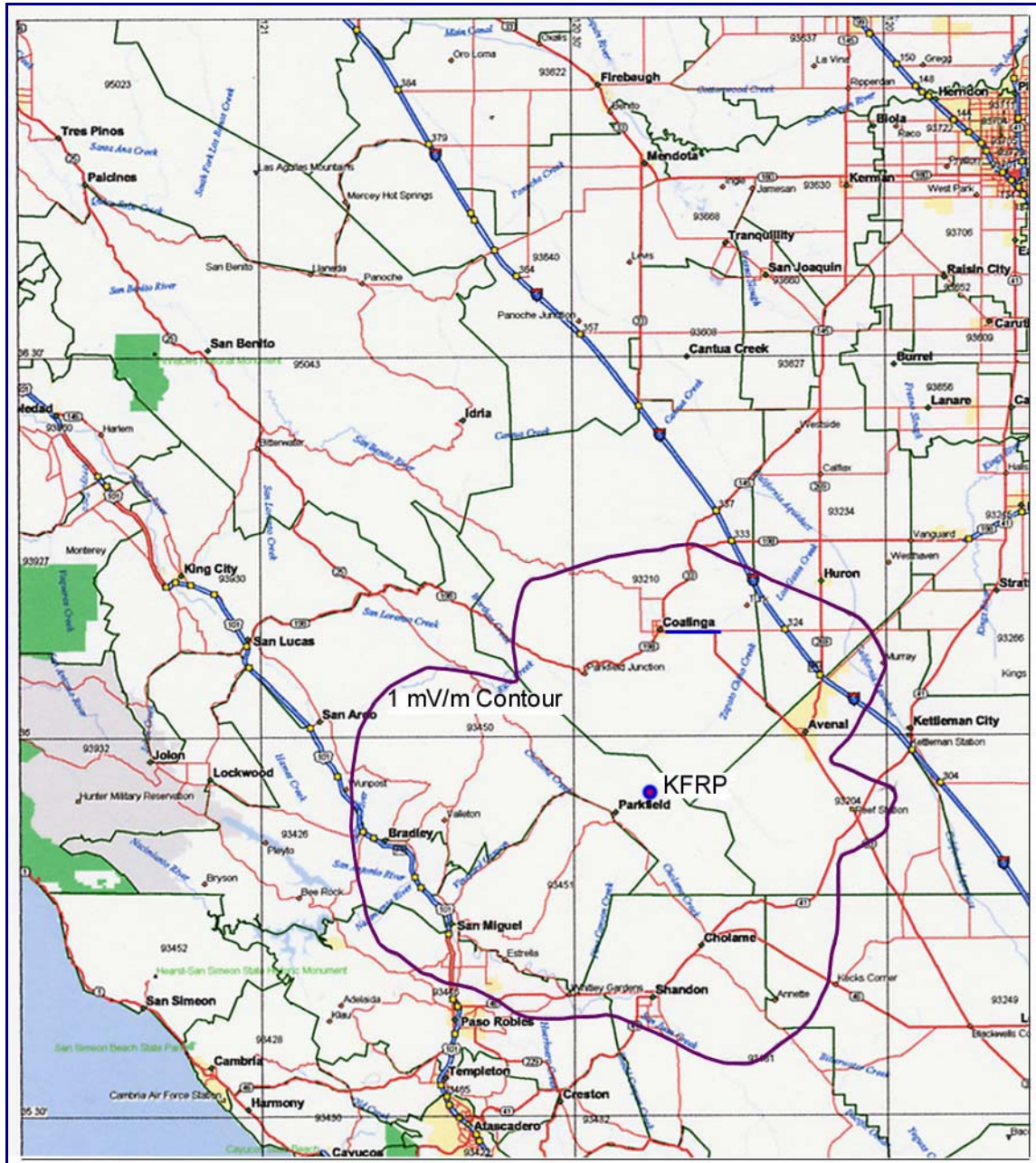
35-55-39 / 120-22-46    2.5 kW ERP Vertical-only DA    382 meters HAAT    1030 meters COR AMSL

Azimuth	HAAT (meters)	ERP (kW)	Relative Field	60 dBu (km)
0	400.8	0.930	0.610	35.5
10	428.6	0.995	0.631	37.1
20	398.9	0.995	0.631	35.9
30	402.8	0.995	0.631	36.1
40	445.0	0.995	0.631	37.8
45	439.8	1.269	0.712	39.6
50	406.2	1.577	0.794	39.9
60	324.4	2.500	1.000	39.7
70	216.3	2.500	1.000	33.1
80	132.1	2.500	1.000	26.2
90	251.0	2.500	1.000	35.5
100	235.7	2.500	1.000	34.5
110	205.0	1.577	0.794	28.8
120	295.9	0.995	0.631	31.0
130	390.2	0.930	0.610	35.0
135	442.3	0.930	0.610	37.2
140	488.6	0.930	0.610	39.2
150	537.1	0.930	0.610	41.4
160	573.0	0.930	0.610	42.9
170	588.9	0.587	0.485	39.3
180	567.3	0.378	0.389	34.8
190	526.8	0.378	0.389	33.2
200	491.7	0.587	0.485	35.4
210	462.7	0.930	0.610	38.0
220	456.7	0.995	0.631	38.3
225	450.3	1.269	0.712	40.1
230	449.9	1.577	0.794	41.9
240	439.1	2.500	1.000	45.4
250	425.3	2.500	1.000	44.7
260	411.6	2.500	1.000	44.0
270	402.9	2.500	1.000	43.6
280	407.1	2.500	1.000	43.8
290	365.2	2.500	1.000	41.8
300	290.5	2.500	1.000	37.8
310	123.5	2.500	1.000	25.5
315	101.5	2.500	1.000	23.4
320	199.8	2.500	1.000	31.7
330	331.8	1.577	0.794	36.5
340	370.3	0.995	0.631	34.8
350	393.0	0.930	0.610	35.2

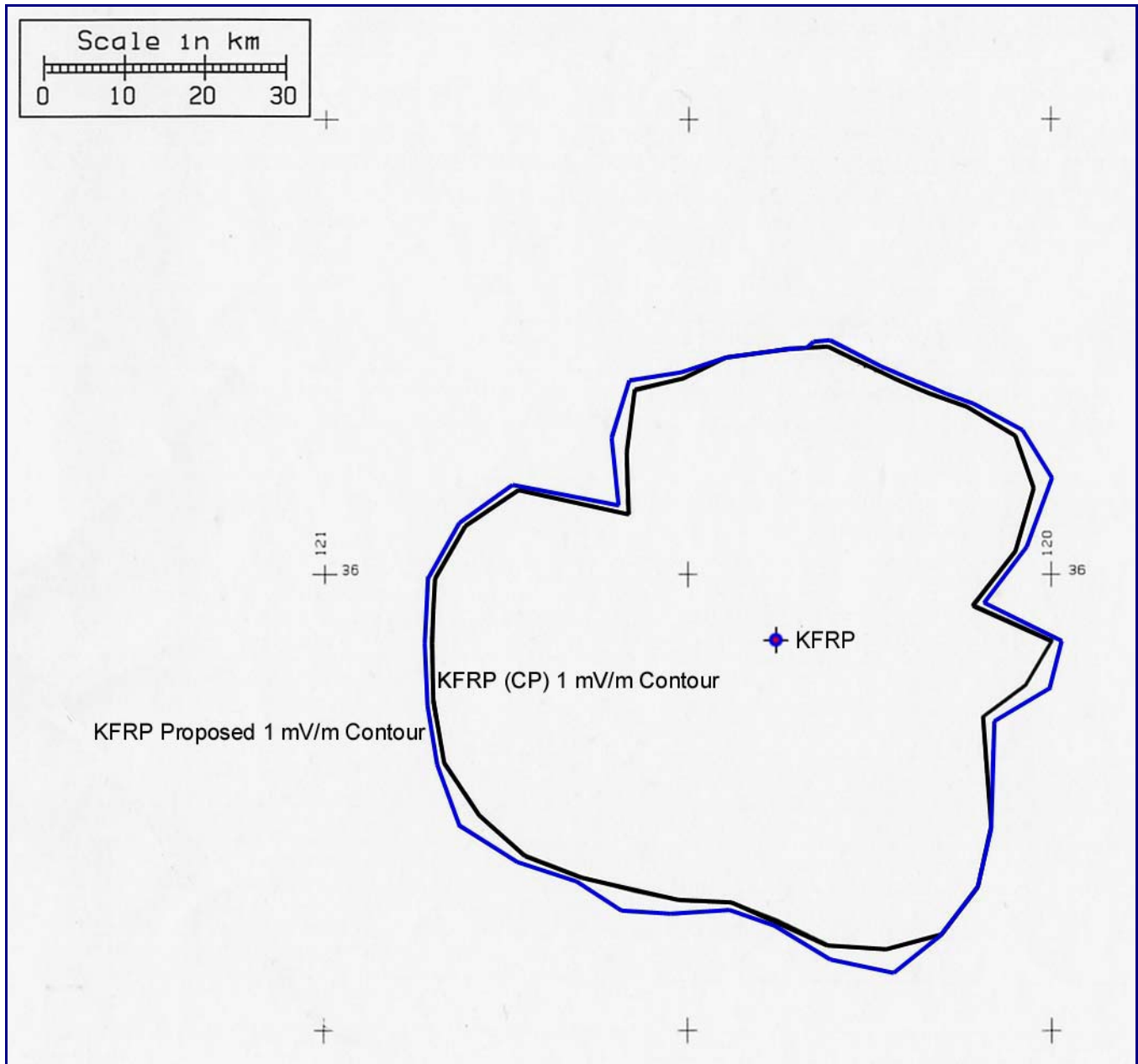
1 mV/m Contour

Population: 48,929    Area: 4,383 sq. km

**1 mV/m contour coverage map**



**Existing & proposed 1 mV/m contour map**



**Family Stations, Inc.**  
**KFRP (CP), Coalinga, CA**  
**Modification to BPED-19971202MB**  
**Facility ID 89308**

**Exhibit 15**  
**February 2005**

**Allocation Study**

This Allocation Study demonstrates compliance with all minimum distance separation and lack of prohibited overlap requirements.

KFRP (CP Mod) CH 214 B 35-55-39 / 120-22-46 2.5 kW ERP (V, DA) 1030 m COR AMSL 382 m HAAT

CH CALL LOCATION	AZI. <--	Latitude Longitude FILE NUMBER	ERP kW HAAT m	ERP(to ref.) HAAT(to ref.)	Dist. km COR m	PRO	INT	IN	OUT
211B KCBX LIC San Luis Obispo, CA	201.6 21.6	35-21-37 120-39-17 BLED-19890317KD	5.300 433	5.300 397	67.69 766	50.1	1.7	27.63	15.92
213B NEW APP Firebaugh, CA	338.9 158.9	36-43-32 120-45-49 BPED-19980519MC	9.400 345	5.433 193	95.04 665	37.5	53.1	4.44	4.50
213B NEW APP Firebaugh, CA	338.9 158.9	36-43-32 120-45-49 BPED-19981110MM	9.100 337	5.260 192	95.04 664	37.1	53.1	4.92	4.85
213B KUFW LIC Woodlake, CA	73.5 253.5	36-17-09 118-50-15 BLED-19830524AA	.850 761	.850 1279	144.42 1715	58.6	44.5	27.43	41.34
213A NEW APP Mendota, CA	356.1 176.1	36-51-46 120-27-32 BPED-19981110MC	.100 175	.100 169	104.03 231	13.4	53.8	49.02	37.56
214B1 KGDPFM CP Santa Maria, CA	182.6 2.6	34-44-20 120-26-41 BPED-20040329ABQ	3.00 252	2.625 252	132.00 407	35.9	95.9	3.15	0.25
214B1 KGDPFM LIC Santa Maria, CA	182.6 2.6	34-44-20 120-26-41 BLED-20030703ABY	3.0 223	2.625 223	132.0 378	33.9	95.9	6.23	2.19
214A KFSR LIC Fresno, CA	29.8 209.8	36-48-42 119-44-43 BLED-19880314KC	2.550 20	2.550 46	113.42 124	15.7	96.0	17.89	1.68
214A KHRI LIC Hollister, CA	319.2 139.2	36-52-02 121-23-58 BLED-20040517AEY	.170 -111	.170 -75	138.73 102	6.4	85.5	87.04	46.78
214B KPFK LIC Los Angeles, CA	131.2 311.2	34-13-45 118-04-03 BMLED-20020719AAH	110.0 863	110.0 534	282.77 1762	89.7	94.8	52.07	98.75
215B KGZO LIC Shafter, CA	141.4 321.4	35-16-51 119-44-52 BLED-19980713KA	1.9 631	.596 320	91.78 1294	28.5	61.6	9.02	2.46

**Family Stations, Inc.  
KFRP (CP), Coalinga, CA  
Modification to BPED-19971202MB  
Facility ID 89308**

**Exhibit 15  
February 2005**

**Allocation Study**

CH CALL LOCATION	AZI. <--	Latitude Longitude FILE NUMBER	ERP kW HAAT m	ERP(to ref.) HAAT(to ref.)	Dist. km COR m	PRO	INT	IN	OUT
215A KHDC LIC Chualar, CA	307.7 127.7	36-34-54 121-26-34 BLED-19810708AC	3.000 59	3.000 44	120.01 369	15.9	43.8	67.30	60.31
217A KCPR LIC San Luis Obispo, CA	200.9 20.9	35-17-58 120-40-26 BLED-1467	2.000 -107	2.000 -234	74.61 128	12.0	1.6	37.33	60.96
217A KDRH LIC King City, CA	301.4 121.4	36-16-22 121-05-02 BLED-20010126AAL	.300 23	.300 -60	74.11 286	7.4	2.9	36.39	63.80

I.F. Relationships:

CH CALL LOCATION	Latitude Longitude	ERP kW HAAT m FILE NUMBER	Dist. km COR m	Required Separation Distance km Clear km
267B KSTTFM LIC Los Osos-Baywood Park, CA	35-21-37 120-39-18	3.4 514 BLH-19971104KA	67.70 853	20.0 47.7

The remaining pages of this Exhibit contain detailed information on the relationship between KFRP (CP Mod) and the following:

Pages 7-9	CH 213B, NEW APP, Firebaugh, CA, BPED-19980519MC
Pages 10-12	CH 213B, NEW APP, Firebaugh, CA, BPED-19981110MM
Pages 13-15	CH 214B1, KGDPFM CP, Santa Maria, CA, BPED-20040329ABQ
Pages 16-18	CH 214A, KFSR LIC, Fresno, CA, BLED-19880314KC
Pages 19-21	CH 215B, KGZO LIC, Shafter, CA, BLED-19980713KA



**Allocation Study**

Tabulation of  
 CH 214, KFRP (CP Mod) 60 dBu protected contour &  
 CH 213, NEW APP, Firebaugh, BPED-19980519MC 54 dBu interference contour

KFRP Channel= 214 Max ERP = 2.5 kW RCAMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				AP213 - BPED980519MC Channel = 213 Max ERP = 9.4 kW RCAMSL = 665 M N. Lat = 364332 W. Lng = 1204549				
Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
325.0	2.012	276.0	35.3	166.6	6.364	191.2	61.3	52.5
326.0	1.921	285.7	35.5	166.1	6.302	192.6	60.9	52.6
327.0	1.832	295.4	35.7	165.6	6.241	193.6	60.5	52.8
328.0	1.745	306.9	35.9	165.1	6.180	194.2	60.1	52.9
329.0	1.660	319.6	36.2	164.7	6.131	194.7	59.7	53.0
330.0	1.577	331.8	36.5	164.1	6.058	194.7	59.3	53.1
331.0	1.513	342.1	36.7	163.6	5.998	193.8	58.9	53.2
332.0	1.450	349.9	36.7	163.0	5.926	191.9	58.7	53.1
333.0	1.388	356.0	36.7	162.4	5.855	189.6	58.6	53.0
334.0	1.328	360.7	36.6	161.7	5.772	186.5	58.6	52.8
335.0	1.269	363.7	36.4	161.1	5.701	184.4	58.8	52.6
336.0	1.212	365.1	36.1	160.4	5.620	183.7	59.0	52.4
337.0	1.156	365.7	35.7	159.8	5.547	185.8	59.3	52.4
338.0	1.101	366.3	35.4	159.2	5.470	190.0	59.6	52.4
339.0	1.047	367.6	35.0	158.6	5.392	196.1	60.0	52.4
340.0	0.995	370.3	34.8	158.0	5.316	203.4	60.3	52.6
341.0	0.988	373.8	34.9	157.5	5.252	209.8	60.2	52.8
342.0	0.982	375.7	34.9	156.9	5.177	217.3	60.2	53.1
343.0	0.975	377.7	34.9	156.3	5.102	224.1	60.2	53.2
344.0	0.969	380.6	35.0	155.7	5.027	229.8	60.3	53.4
345.0	0.962	387.1	35.2	155.1	4.953	234.5	60.2	53.6
346.0	0.956	394.1	35.4	154.5	4.880	238.7	60.0	53.7
347.0	0.949	399.1	35.6	153.9	4.807	243.4	60.0	53.8
348.0	0.943	399.7	35.5	153.3	4.735	249.1	60.2	53.9
349.0	0.936	397.0	35.4	152.8	4.675	254.2	60.5	53.9
350.0	0.930	393.0	35.2	152.3	4.615	259.6	60.9	53.9
351.0	0.930	391.3	35.1	151.8	4.556	264.7	61.2	53.9
352.0	0.930	389.9	35.0	151.2	4.486	270.4	61.4	53.9
353.0	0.930	387.0	34.9	150.8	4.439	273.5	61.8	53.9
354.0	0.930	385.1	34.8	150.3	4.381	276.7	62.1	53.8
355.0	0.930	385.8	34.9	149.7	4.324	279.3	62.3	53.7
356.0	0.930	386.2	34.9	149.2	4.285	280.7	62.5	53.7
357.0	0.930	389.1	35.0	148.7	4.247	281.6	62.7	53.6
358.0	0.930	393.4	35.2	148.1	4.202	282.5	62.9	53.5
359.0	0.930	398.0	35.4	147.6	4.164	283.5	63.0	53.5
0.0	0.930	400.8	35.5	147.0	4.119	285.5	63.3	53.4
1.0	0.936	403.5	35.6	146.5	4.082	288.0	63.5	53.4
2.0	0.943	407.5	35.8	145.9	4.038	292.2	63.7	53.4
3.0	0.949	413.1	36.1	145.3	3.994	297.6	63.8	53.5
4.0	0.956	420.3	36.5	144.7	3.950	303.9	63.9	53.6
5.0	0.962	426.5	36.8	144.1	3.906	310.9	64.1	53.7
6.0	0.969	430.9	37.0	143.5	3.862	318.3	64.4	53.8
7.0	0.975	432.4	37.1	143.0	3.826	324.5	64.7	53.9
8.0	0.982	433.4	37.2	142.5	3.790	330.6	65.1	53.9
9.0	0.988	431.8	37.2	142.2	3.769	334.0	65.6	53.8
10.0	0.995	428.6	37.1	141.8	3.740	338.4	66.1	53.8
11.0	0.995	426.5	37.1	141.5	3.719	341.5	66.7	53.7
12.0	0.995	425.3	37.0	141.2	3.698	344.5	67.2	53.5
13.0	0.995	424.9	37.0	140.9	3.677	347.3	67.7	53.4
14.0	0.995	423.1	36.9	140.6	3.655	350.0	68.3	53.3
15.0	0.995	420.8	36.8	140.3	3.634	352.7	68.8	53.1

**Allocation Study**

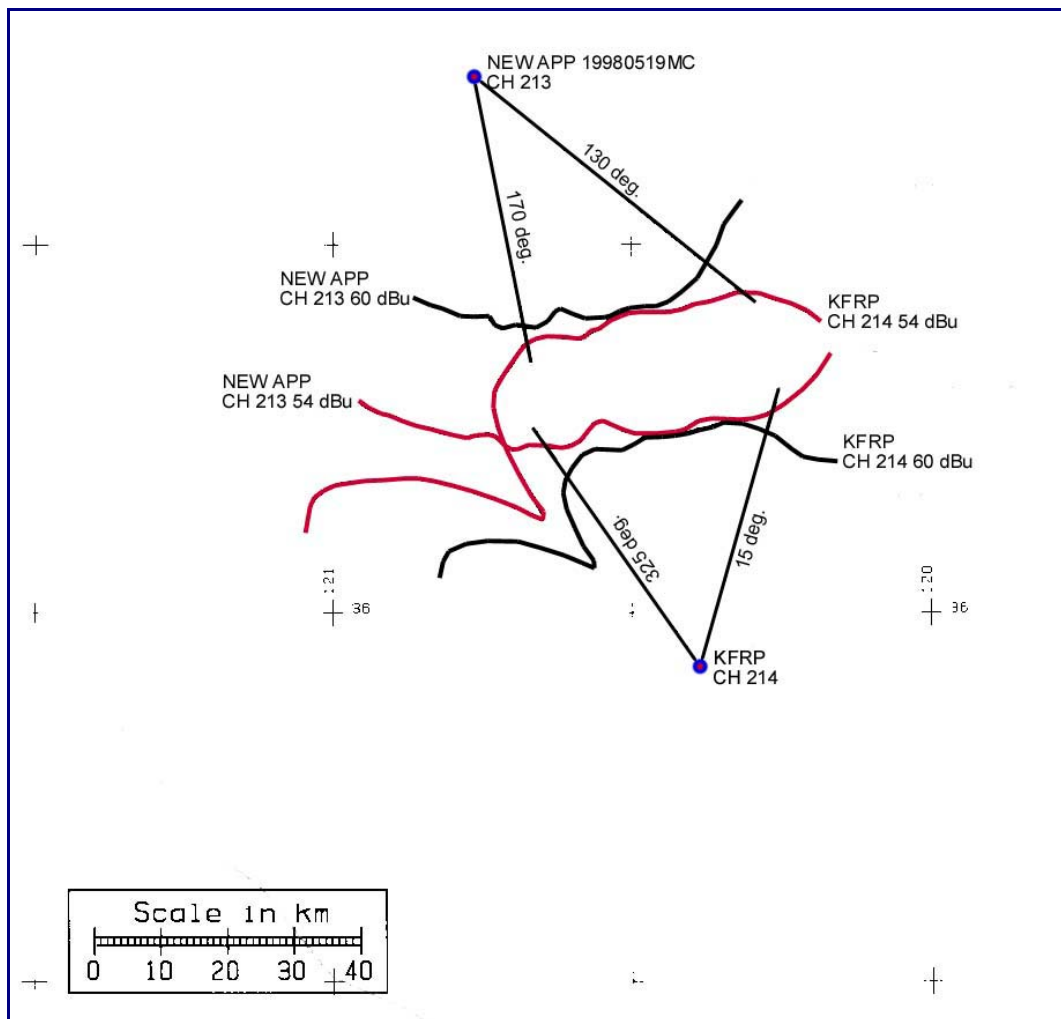
Tabulation of  
 CH 213, NEW APP, Firebaugh, BPED-19980519MC 60 dBu protected contour &  
 CH 214, KFRP (CP Mod) 54 dBu interference contour

AP213 - BPED980519MC Channel= 213 Max ERP = 9.4 kW RCAMSL = 665 M N. Lat = 364332 W. Lng = 1204549				KFRP Channel = 214 Max ERP = 2.5 kW RCAMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				
Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
130.0	2.640	418.1	44.8	359.8	0.930	400.3	59.7	51.9
131.0	2.731	414.0	44.9	359.4	0.930	399.2	59.1	52.1
132.0	2.823	409.3	45.0	358.9	0.930	397.8	58.5	52.3
133.0	2.916	403.8	45.0	358.4	0.930	395.3	57.9	52.4
134.0	3.011	397.5	44.9	357.8	0.930	392.2	57.4	52.5
135.0	3.108	390.8	44.9	357.2	0.930	389.7	56.9	52.7
136.0	3.206	383.9	44.8	356.5	0.930	387.6	56.4	52.8
137.0	3.306	377.2	44.8	355.9	0.930	386.0	56.0	52.9
138.0	3.407	370.4	44.7	355.2	0.930	385.7	55.5	53.1
139.0	3.509	363.2	44.6	354.5	0.930	385.3	55.2	53.2
140.0	3.613	355.2	44.4	353.7	0.930	385.3	54.9	53.3
141.0	3.684	346.4	44.0	352.8	0.930	387.6	54.8	53.4
142.0	3.755	336.2	43.6	351.9	0.930	390.1	54.7	53.5
143.0	3.826	324.5	43.1	351.0	0.930	391.3	54.8	53.5
144.0	3.899	312.1	42.6	350.0	0.930	393.0	55.0	53.5
145.0	3.971	300.6	42.1	349.1	0.936	396.6	55.1	53.5
146.0	4.045	291.4	41.7	348.2	0.942	399.3	55.2	53.6
147.0	4.119	285.5	41.5	347.4	0.947	399.8	55.1	53.7
148.0	4.195	282.7	41.4	346.7	0.951	398.0	54.9	53.7
149.0	4.270	281.1	41.5	346.0	0.956	394.1	54.6	53.8
150.0	4.347	278.1	41.5	345.3	0.960	389.2	54.4	53.7
151.0	4.462	272.0	41.3	344.5	0.965	383.5	54.4	53.6
152.0	4.580	262.7	40.9	343.7	0.971	379.5	54.6	53.4
153.0	4.699	252.1	40.5	342.9	0.976	377.5	54.9	53.3
154.0	4.819	242.6	40.1	342.1	0.981	375.9	55.2	53.2
155.0	4.941	235.2	39.8	341.3	0.986	374.6	55.4	53.1
156.0	5.064	227.1	39.5	340.6	0.991	372.5	55.7	52.9
157.0	5.189	216.1	38.9	339.8	1.005	369.7	56.2	52.7
158.0	5.316	203.4	38.1	339.1	1.042	367.8	57.0	52.5
159.0	5.444	191.9	37.4	338.5	1.074	366.8	57.7	52.4
160.0	5.573	184.8	37.0	337.8	1.112	366.1	58.1	52.3
161.0	5.690	184.1	37.1	337.2	1.145	365.8	58.0	52.5
162.0	5.807	187.8	37.6	336.5	1.184	365.4	57.6	52.8
163.0	5.926	191.9	38.1	335.8	1.223	364.9	57.2	53.1
164.0	6.046	194.6	38.5	335.1	1.264	363.9	56.9	53.3
165.0	6.167	194.3	38.6	334.4	1.304	362.1	56.8	53.4
166.0	6.290	192.9	38.7	333.7	1.346	359.4	56.9	53.4
167.0	6.413	189.9	38.6	333.1	1.382	356.5	57.2	53.3
168.0	6.538	186.1	38.4	332.5	1.419	353.1	57.5	53.2
169.0	6.664	181.1	38.2	331.9	1.456	349.2	57.9	53.0
170.0	6.792	176.6	37.9	331.3	1.494	344.7	58.4	52.8



**Allocation Study**

Map of  
CH 214, KFRP (CP Mod) & CH 213, NEW APP, Firebaugh, BPED-19980519MC  
60 dBu protected contours & 54 dBu interference contours



**Allocation Study**

Tabulation of  
 CH 214, KFRP (CP Mod) 60 dBu protected contour &  
 CH 213, NEW APP, Firebaugh, BPED-19981110MM 54 dBu interference contour

KFRP Channel= 214 Max ERP = 2.5 kW RCAMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				AP213 - BPED981110MM Channel = 213 Max ERP = 9.1 kW RCAMSL = 664 M N. Lat = 364332 W. Lng = 1204549				
Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
325.0	2.012	276.0	35.3	166.6	6.161	190.2	61.3	52.3
326.0	1.921	285.7	35.5	166.1	6.101	191.6	60.9	52.4
327.0	1.832	295.4	35.7	165.6	6.041	192.6	60.5	52.6
328.0	1.745	306.9	35.9	165.1	5.982	193.2	60.1	52.7
329.0	1.660	319.6	36.2	164.7	5.935	193.7	59.7	52.9
330.0	1.577	331.8	36.5	164.1	5.865	193.7	59.3	53.0
331.0	1.513	342.1	36.7	163.6	5.807	192.8	58.9	53.0
332.0	1.450	349.9	36.7	163.0	5.737	190.9	58.7	53.0
333.0	1.388	356.0	36.7	162.4	5.668	188.6	58.6	52.8
334.0	1.328	360.7	36.6	161.7	5.588	185.5	58.6	52.6
335.0	1.269	363.7	36.4	161.1	5.519	183.4	58.8	52.4
336.0	1.212	365.1	36.1	160.4	5.440	182.7	59.0	52.2
337.0	1.156	365.7	35.7	159.8	5.370	184.8	59.3	52.2
338.0	1.101	366.3	35.4	159.2	5.295	189.0	59.6	52.2
339.0	1.047	367.6	35.0	158.6	5.220	195.1	60.0	52.3
340.0	0.995	370.3	34.8	158.0	5.146	202.4	60.3	52.4
341.0	0.988	373.8	34.9	157.5	5.085	208.8	60.2	52.6
342.0	0.982	375.7	34.9	156.9	5.011	216.3	60.2	52.9
343.0	0.975	377.7	34.9	156.3	4.939	223.1	60.2	53.1
344.0	0.969	380.6	35.0	155.7	4.867	228.8	60.3	53.2
345.0	0.962	387.1	35.2	155.1	4.795	233.5	60.2	53.4
346.0	0.956	394.1	35.4	154.5	4.724	237.7	60.0	53.5
347.0	0.949	399.1	35.6	153.9	4.653	242.4	60.0	53.6
348.0	0.943	399.7	35.5	153.3	4.583	248.1	60.2	53.7
349.0	0.936	397.0	35.4	152.8	4.525	253.2	60.5	53.7
350.0	0.930	393.0	35.2	152.3	4.468	258.6	60.9	53.7
351.0	0.930	391.3	35.1	151.8	4.411	263.7	61.2	53.7
352.0	0.930	389.9	35.0	151.2	4.343	269.4	61.4	53.7
353.0	0.930	387.0	34.9	150.8	4.297	272.5	61.8	53.7
354.0	0.930	385.1	34.8	150.3	4.241	275.7	62.1	53.6
355.0	0.930	385.8	34.9	149.7	4.186	278.3	62.3	53.6
356.0	0.930	386.2	34.9	149.2	4.149	279.7	62.5	53.5
357.0	0.930	389.1	35.0	148.7	4.112	280.6	62.7	53.4
358.0	0.930	393.4	35.2	148.1	4.068	281.5	62.9	53.3
359.0	0.930	398.0	35.4	147.6	4.032	282.5	63.0	53.3
0.0	0.930	400.8	35.5	147.0	3.988	284.5	63.3	53.2
1.0	0.936	403.5	35.6	146.5	3.952	287.0	63.5	53.2
2.0	0.943	407.5	35.8	145.9	3.909	291.2	63.7	53.2
3.0	0.949	413.1	36.1	145.3	3.866	296.6	63.8	53.3
4.0	0.956	420.3	36.5	144.7	3.823	302.9	63.9	53.4
5.0	0.962	426.5	36.8	144.1	3.781	309.9	64.1	53.5
6.0	0.969	430.9	37.0	143.5	3.739	317.3	64.4	53.7
7.0	0.975	432.4	37.1	143.0	3.704	323.5	64.7	53.7
8.0	0.982	433.4	37.2	142.5	3.669	329.6	65.1	53.7
9.0	0.988	431.8	37.2	142.2	3.649	333.0	65.6	53.7
10.0	0.995	428.6	37.1	141.8	3.621	337.4	66.1	53.6
11.0	0.995	426.5	37.1	141.5	3.600	340.5	66.7	53.5
12.0	0.995	425.3	37.0	141.2	3.580	343.5	67.2	53.4
13.0	0.995	424.9	37.0	140.9	3.559	346.3	67.7	53.3
14.0	0.995	423.1	36.9	140.6	3.539	349.0	68.3	53.1
15.0	0.995	420.8	36.8	140.3	3.518	351.7	68.8	53.0

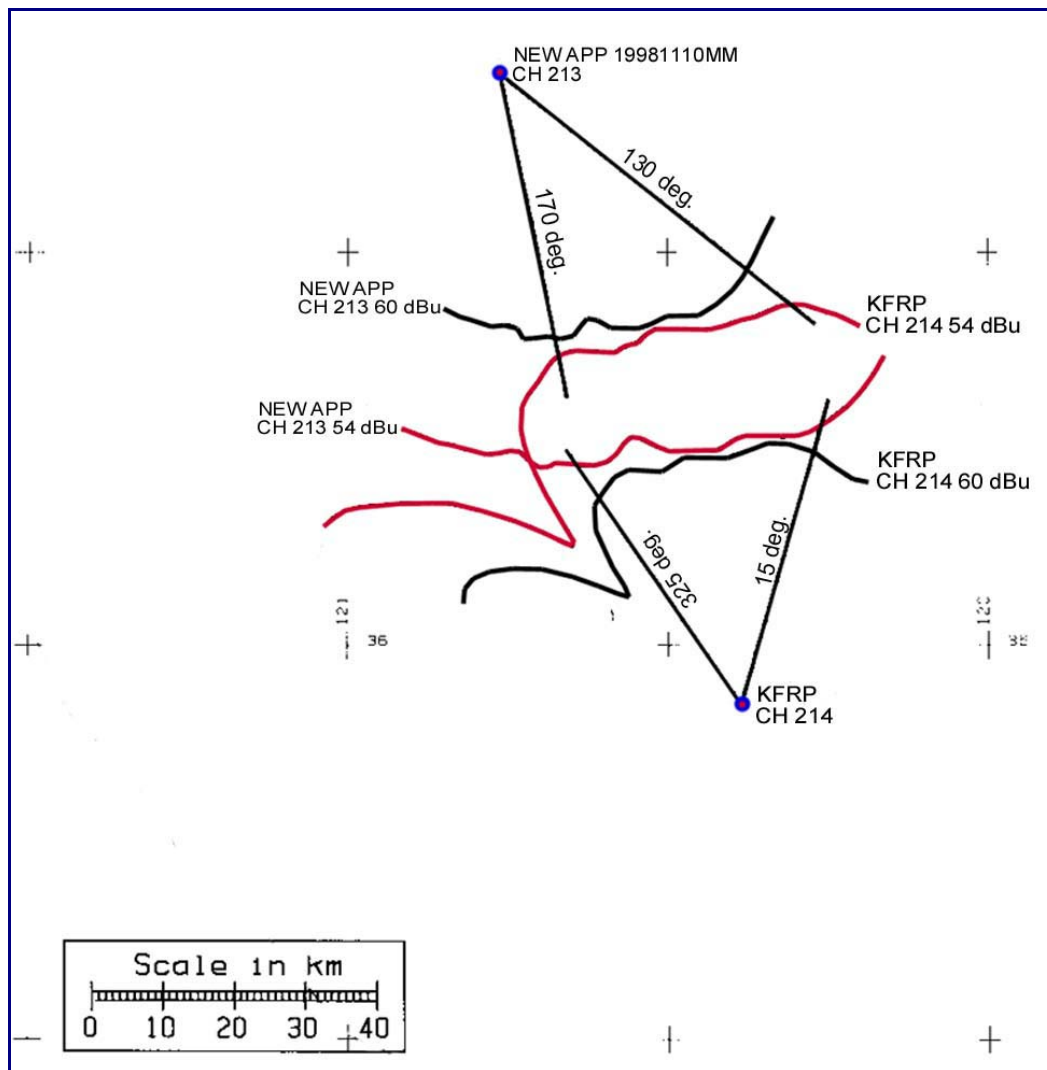
**Allocation Study**

Tabulation of  
 CH 213, NEW APP, Firebaugh, BPED-19981110MM 60 dBu protected contour  
 CH 214, KFRP (CP Mod) 54 dBu interference contour

AP213 - BPED981110MM				KFRP				
Channel= 213				Channel = 214				
Max ERP = 9.1 kW				Max ERP = 2.5 kW				
RCAMSL = 664 M				RCAMSL = 1030 M				
N. Lat = 364332				N. Lat = 355539				
W. Lng = 1204549				W. Lng = 1202246				
Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
130.0	2.556	417.1	44.5	359.1	0.930	398.3	60.0	51.7
131.0	2.644	413.0	44.6	359.1	0.930	398.3	59.3	52.0
132.0	2.733	408.3	44.6	358.7	0.930	397.1	58.7	52.2
133.0	2.823	402.8	44.6	358.1	0.930	393.9	58.1	52.3
134.0	2.915	396.5	44.6	357.6	0.930	391.1	57.6	52.4
135.0	3.009	389.8	44.6	356.9	0.930	388.8	57.1	52.5
136.0	3.104	382.9	44.5	356.3	0.930	387.0	56.7	52.7
137.0	3.200	376.2	44.4	355.7	0.930	385.7	56.2	52.8
138.0	3.298	369.4	44.4	355.0	0.930	385.8	55.8	53.0
139.0	3.397	362.2	44.2	354.3	0.930	385.2	55.5	53.1
140.0	3.498	354.2	44.0	353.5	0.930	385.6	55.2	53.2
141.0	3.566	345.4	43.7	352.6	0.930	388.3	55.0	53.3
142.0	3.635	335.2	43.3	351.7	0.930	390.4	55.0	53.4
143.0	3.704	323.5	42.8	350.8	0.930	391.5	55.1	53.4
144.0	3.774	311.1	42.2	349.8	0.931	393.8	55.3	53.4
145.0	3.845	299.6	41.7	348.9	0.937	397.4	55.4	53.5
146.0	3.916	290.4	41.3	348.1	0.942	399.5	55.5	53.5
147.0	3.988	284.5	41.1	347.3	0.947	399.7	55.4	53.6
148.0	4.061	281.7	41.1	346.6	0.952	397.6	55.2	53.6
149.0	4.134	280.1	41.2	345.9	0.956	393.5	54.9	53.6
150.0	4.208	277.1	41.1	345.2	0.961	388.5	54.8	53.6
151.0	4.320	271.0	41.0	344.4	0.966	382.8	54.7	53.5
152.0	4.434	261.7	40.6	343.6	0.971	379.2	54.9	53.3
153.0	4.549	251.1	40.2	342.8	0.977	377.3	55.2	53.2
154.0	4.665	241.6	39.8	342.0	0.982	375.7	55.5	53.0
155.0	4.783	234.2	39.5	341.3	0.986	374.6	55.7	52.9
156.0	4.903	226.1	39.1	340.5	0.992	372.1	56.0	52.8
157.0	5.024	215.1	38.5	339.8	1.005	369.7	56.5	52.6
158.0	5.146	202.4	37.8	339.1	1.042	367.8	57.3	52.4
159.0	5.270	190.9	37.0	338.5	1.074	366.8	58.0	52.2
160.0	5.395	183.8	36.6	337.8	1.112	366.1	58.4	52.2
161.0	5.508	183.1	36.8	337.2	1.145	365.8	58.3	52.4
162.0	5.622	186.8	37.2	336.5	1.184	365.4	57.9	52.6
163.0	5.737	190.9	37.7	335.8	1.223	364.9	57.5	52.9
164.0	5.853	193.6	38.1	335.1	1.264	363.9	57.2	53.2
165.0	5.971	193.3	38.3	334.4	1.304	362.1	57.2	53.2
166.0	6.089	191.9	38.3	333.8	1.340	359.9	57.3	53.3
167.0	6.209	188.9	38.2	333.2	1.376	357.0	57.5	53.2
168.0	6.330	185.1	38.1	332.6	1.413	353.7	57.8	53.1
169.0	6.452	180.1	37.8	332.0	1.450	349.9	58.3	52.9
170.0	6.575	175.6	37.6	331.5	1.481	346.3	58.7	52.7

**Allocation Study**

Map of  
CH 214, KFRP (CP Mod) & CH 213, NEW APP, Firebaugh, BPED-19981110MM  
60 dBu protected contours & 54 dBu interference contours





**Allocation Study**

Tabulation of

CH 214, KFRP (CP Mod) 60 dBu protected contour & CH 214, KGDPFM (CP) 40 dBu interference contour

KFRP Channel= 214 Max ERP = 2.5 kW RCAMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				KGDP Channel = 214 Max ERP = 3 kW RCAMSL = 407 M N. Lat = 344420 W. Lng = 1202641				
Protected 60 dBu				Interfering 40 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
155.0	0.930	550.0	42.0	14.2	2.367	234.9	96.8	38.3
156.0	0.930	554.5	42.2	13.9	2.376	235.8	96.2	38.5
157.0	0.930	559.4	42.4	13.6	2.385	236.8	95.6	38.8
158.0	0.930	564.2	42.6	13.3	2.393	237.7	95.0	39.0
159.0	0.930	568.9	42.7	13.0	2.402	238.5	94.4	39.2
160.0	0.930	573.0	42.9	12.7	2.411	239.1	93.8	39.4
161.0	0.892	576.8	42.7	12.2	2.425	240.0	93.6	39.5
162.0	0.855	579.8	42.4	11.8	2.437	240.4	93.5	39.6
163.0	0.819	581.9	42.1	11.3	2.452	240.9	93.4	39.7
164.0	0.783	583.4	41.7	10.8	2.466	241.4	93.4	39.7
165.0	0.749	584.6	41.4	10.3	2.481	241.8	93.4	39.8
166.0	0.715	585.9	41.0	9.8	2.493	242.3	93.4	39.8
167.0	0.682	587.4	40.6	9.3	2.502	242.5	93.5	39.8
168.0	0.649	588.4	40.2	8.8	2.511	242.9	93.6	39.8
169.0	0.618	589.0	39.8	8.3	2.521	243.4	93.8	39.8
170.0	0.587	588.9	39.3	7.8	2.530	244.0	94.0	39.7
171.0	0.564	587.7	38.9	7.3	2.539	244.7	94.2	39.7
172.0	0.542	586.5	38.5	6.9	2.546	245.2	94.4	39.7
173.0	0.519	585.1	38.1	6.4	2.555	245.8	94.6	39.6
174.0	0.498	583.7	37.7	6.0	2.562	246.4	94.9	39.6
175.0	0.477	581.8	37.3	5.5	2.572	247.1	95.2	39.5
176.0	0.456	579.7	36.8	5.1	2.579	247.6	95.5	39.5
177.0	0.436	577.7	36.3	4.7	2.586	248.2	95.9	39.4
178.0	0.416	575.5	35.9	4.3	2.594	248.8	96.3	39.3
179.0	0.397	572.1	35.3	3.9	2.601	249.4	96.8	39.2
180.0	0.378	567.3	34.8	3.5	2.608	250.0	97.3	39.0
181.0	0.378	562.6	34.6	3.1	2.616	250.7	97.4	39.0
182.0	0.378	559.3	34.5	2.8	2.621	251.3	97.5	39.0
183.0	0.378	556.3	34.4	2.4	2.629	252.2	97.6	39.0
184.0	0.378	553.0	34.3	2.1	2.634	252.9	97.8	39.0
185.0	0.378	551.1	34.2	1.7	2.642	253.8	97.8	39.0
186.0	0.378	549.2	34.1	1.4	2.647	254.2	98.0	39.0
187.0	0.378	546.2	34.0	1.1	2.653	254.4	98.1	39.0
188.0	0.378	541.5	33.8	0.7	2.660	254.4	98.4	38.9
189.0	0.378	534.4	33.5	0.4	2.666	254.5	98.8	38.8
190.0	0.378	526.8	33.2	0.1	2.672	254.5	99.2	38.7
191.0	0.397	519.5	33.3	359.8	2.676	254.6	99.2	38.7
192.0	0.416	513.2	33.5	359.4	2.682	254.7	99.1	38.7
193.0	0.436	508.1	33.6	359.1	2.686	254.7	99.1	38.7
194.0	0.456	503.7	33.8	358.7	2.691	254.8	99.1	38.8
195.0	0.477	499.3	34.0	358.3	2.697	254.8	99.0	38.8



**Allocation Study**

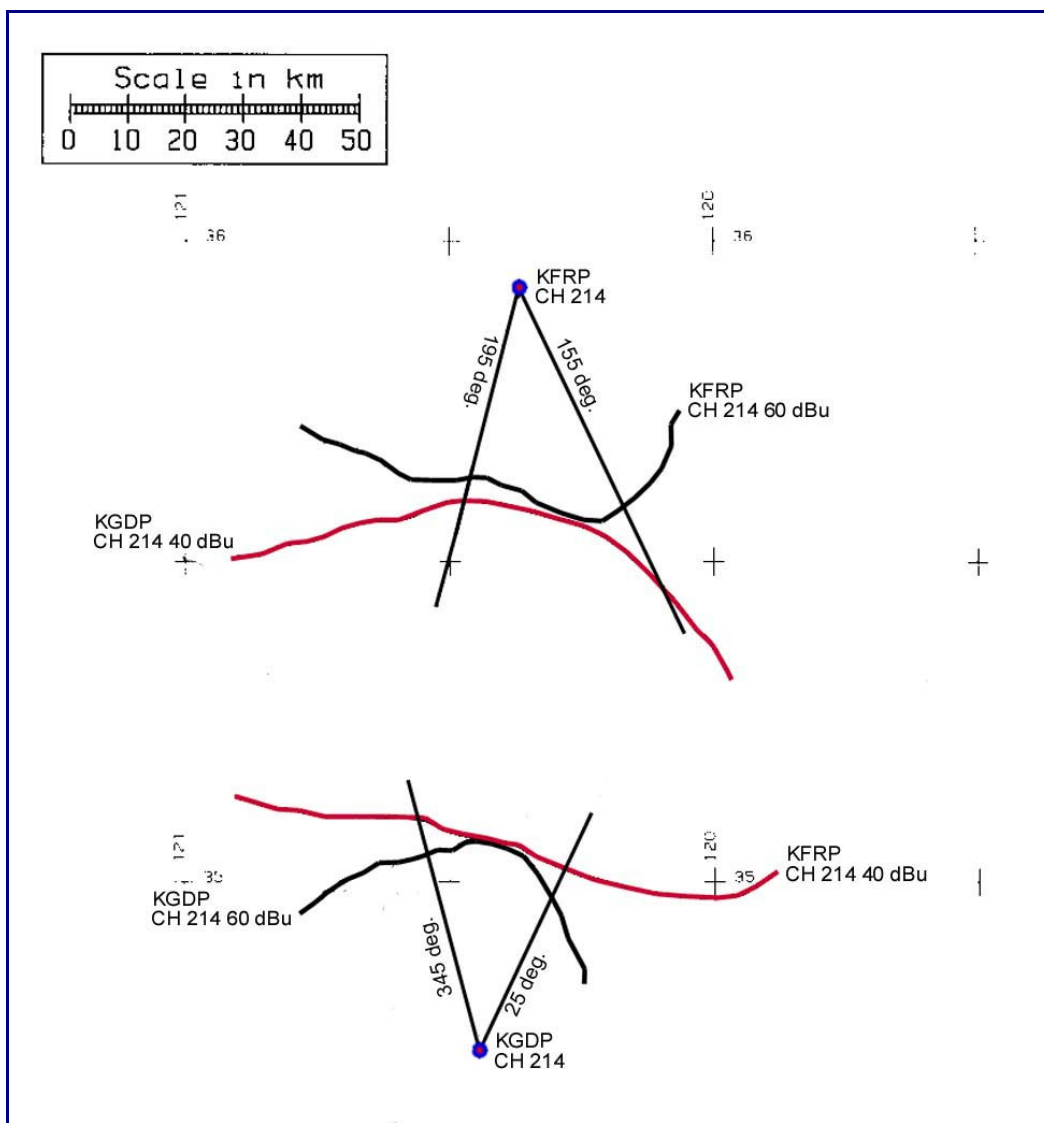
Tabulation of

CH 214, KGDPFM (CP) 60 dBu protected contour & CH 214, KFRP (CP Mod) 40 dBu interference contour

KGDP Channel= 214 Max ERP = 3 kW RCAMSL = 407 M N. Lat = 344420 W. Lng = 1202641				KFRP Channel = 214 Max ERP = 2.5 kW RCAMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				
Protected 60 dBu				Interfering 40 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
345.0	2.890	226.8	35.0	188.7	0.378	536.6	99.2	38.6
346.0	2.874	229.1	35.1	188.4	0.378	538.8	98.8	38.8
347.0	2.858	230.6	35.2	188.1	0.378	540.8	98.6	38.9
348.0	2.843	231.3	35.2	187.7	0.378	543.2	98.3	39.0
349.0	2.827	230.5	35.1	187.4	0.378	544.7	98.2	39.1
350.0	2.811	228.3	34.9	187.0	0.378	546.2	98.2	39.1
351.0	2.797	227.2	34.8	186.6	0.378	547.5	98.2	39.1
352.0	2.783	228.8	34.9	186.3	0.378	548.4	97.9	39.2
353.0	2.769	232.2	35.1	186.0	0.378	549.2	97.6	39.3
354.0	2.756	238.3	35.4	185.7	0.378	550.0	97.1	39.5
355.0	2.742	243.9	35.7	185.4	0.378	550.6	96.7	39.6
356.0	2.728	248.8	36.0	185.0	0.378	551.1	96.3	39.7
357.0	2.714	253.1	36.2	184.7	0.378	551.5	96.0	39.8
358.0	2.701	254.9	36.3	184.3	0.378	552.2	95.9	39.9
359.0	2.687	254.7	36.3	183.9	0.378	553.3	95.8	39.9
0.0	2.673	254.6	36.2	183.5	0.378	554.6	95.8	39.9
1.0	2.655	254.4	36.1	183.2	0.378	555.6	95.9	39.9
2.0	2.636	253.1	36.0	182.8	0.378	556.9	96.0	39.9
3.0	2.618	250.9	35.8	182.4	0.378	558.1	96.2	39.9
4.0	2.599	249.2	35.7	182.0	0.378	559.3	96.4	39.9
5.0	2.581	247.8	35.5	181.7	0.378	560.2	96.5	39.9
6.0	2.562	246.4	35.4	181.3	0.378	561.2	96.7	39.8
7.0	2.544	245.1	35.2	181.0	0.378	562.6	96.9	39.8
8.0	2.526	243.8	35.1	180.6	0.378	564.5	97.1	39.8
9.0	2.508	242.7	35.0	180.3	0.378	565.9	97.3	39.8
10.0	2.490	242.1	34.9	179.9	0.380	567.8	97.5	39.8
11.0	2.460	241.2	34.7	179.6	0.385	569.3	97.8	39.8
12.0	2.431	240.2	34.6	179.3	0.391	570.7	98.1	39.8
13.0	2.402	238.5	34.4	178.9	0.399	572.6	98.4	39.8
14.0	2.373	235.5	34.1	178.7	0.403	573.6	98.8	39.8
15.0	2.344	232.0	33.7	178.4	0.408	574.7	99.3	39.7
16.0	2.316	227.8	33.3	178.1	0.414	575.3	99.9	39.6
17.0	2.287	223.0	32.9	177.9	0.418	575.7	100.5	39.5
18.0	2.259	217.7	32.4	177.7	0.422	576.2	101.2	39.4
19.0	2.231	212.6	31.9	177.5	0.426	576.6	101.8	39.3
20.0	2.203	208.3	31.4	177.3	0.430	577.1	102.4	39.2
21.0	2.154	204.7	31.0	177.1	0.434	577.5	103.1	39.1
22.0	2.105	201.5	30.6	176.9	0.438	577.9	103.7	38.9
23.0	2.056	198.2	30.1	176.8	0.440	578.1	104.3	38.8
24.0	2.008	194.6	29.7	176.6	0.444	578.5	104.9	38.7
25.0	1.961	190.8	29.3	176.5	0.446	578.7	105.5	38.6

**Allocation Study**

Map of  
CH 214, KFRP (CP Mod) & CH 214, KGDPFM (CP)  
60 dBu protected contours & 40 dBu interference contours



**Allocation Study**

Tabulation of

CH 214, KFRP (CP Mod) 60 dBu protected contour & CH 214, KFSR (LIC) 40 dBu interference contour

KFRP Channel= 214 Max ERP = 2.5 kW RCAMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				KFSR - BLEDS80314KC Channel = 214 Max ERP = 2.55 kW RCAMSL = 124 M N. Lat = 364842 W. Lng = 1194443				
Protected 60 dBu				Interfering 40 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
20.0	0.995	398.9	35.9	214.7	2.550	44.0	78.3	35.5
21.0	0.995	393.5	35.7	214.2	2.550	44.2	78.3	35.5
22.0	0.995	388.9	35.5	213.7	2.550	44.3	78.3	35.5
23.0	0.995	385.2	35.4	213.3	2.550	44.4	78.4	35.5
24.0	0.995	382.4	35.3	212.8	2.550	44.6	78.4	35.5
25.0	0.995	381.6	35.2	212.3	2.550	44.8	78.3	35.5
26.0	0.995	382.3	35.3	211.9	2.550	44.9	78.2	35.5
27.0	0.995	384.9	35.4	211.5	2.550	45.1	78.1	35.6
28.0	0.995	389.5	35.5	211.0	2.550	45.3	77.9	35.6
29.0	0.995	395.7	35.8	210.6	2.550	45.5	77.6	35.7
30.0	0.995	402.8	36.1	210.1	2.550	45.7	77.3	35.8
31.0	0.995	409.9	36.4	209.6	2.550	46.0	77.0	35.9
32.0	0.995	416.4	36.6	209.2	2.550	46.3	76.8	35.9
33.0	0.995	422.4	36.9	208.7	2.550	46.7	76.6	36.0
34.0	0.995	428.1	37.1	208.2	2.550	47.0	76.4	36.1
35.0	0.995	433.5	37.3	207.7	2.550	47.3	76.2	36.1
36.0	0.995	437.5	37.5	207.2	2.550	47.5	76.2	36.2
37.0	0.995	439.9	37.6	206.7	2.550	47.7	76.2	36.2
38.0	0.995	441.4	37.7	206.2	2.550	47.7	76.2	36.2
39.0	0.995	443.0	37.7	205.7	2.550	47.7	76.3	36.1
40.0	0.995	445.0	37.8	205.2	2.550	47.6	76.4	36.1
41.0	1.047	446.7	38.3	204.6	2.550	47.5	76.1	36.2
42.0	1.101	447.6	38.8	204.0	2.550	47.4	75.9	36.2
43.0	1.156	446.8	39.1	203.4	2.550	47.3	75.7	36.3
44.0	1.212	444.0	39.4	202.9	2.550	47.1	75.7	36.2
45.0	1.269	439.8	39.6	202.3	2.550	46.9	75.8	36.2
46.0	1.328	434.8	39.8	201.8	2.550	46.7	75.9	36.2
47.0	1.388	429.2	39.9	201.3	2.550	46.5	76.1	36.1
48.0	1.450	422.5	40.0	200.8	2.550	46.3	76.4	36.0
49.0	1.513	414.7	40.0	200.4	2.550	46.1	76.7	35.9
50.0	1.577	406.2	39.9	199.9	2.550	45.8	77.1	35.8
51.0	1.660	397.0	39.9	199.5	2.550	45.7	77.4	35.8
52.0	1.745	386.8	39.9	199.0	2.550	45.6	77.8	35.7
53.0	1.832	375.9	39.8	198.7	2.550	45.5	78.3	35.6
54.0	1.921	365.1	39.7	198.3	2.550	45.5	78.8	35.4
55.0	2.012	355.6	39.6	197.9	2.550	45.5	79.3	35.3
56.0	2.105	348.2	39.6	197.5	2.550	45.5	79.7	35.2
57.0	2.201	342.7	39.6	197.1	2.550	45.6	80.1	35.1
58.0	2.298	337.8	39.7	196.7	2.550	45.6	80.5	35.1
59.0	2.398	332.0	39.8	196.3	2.550	45.7	80.9	35.0
60.0	2.500	324.4	39.7	196.0	2.550	45.7	81.4	34.8

**Allocation Study**

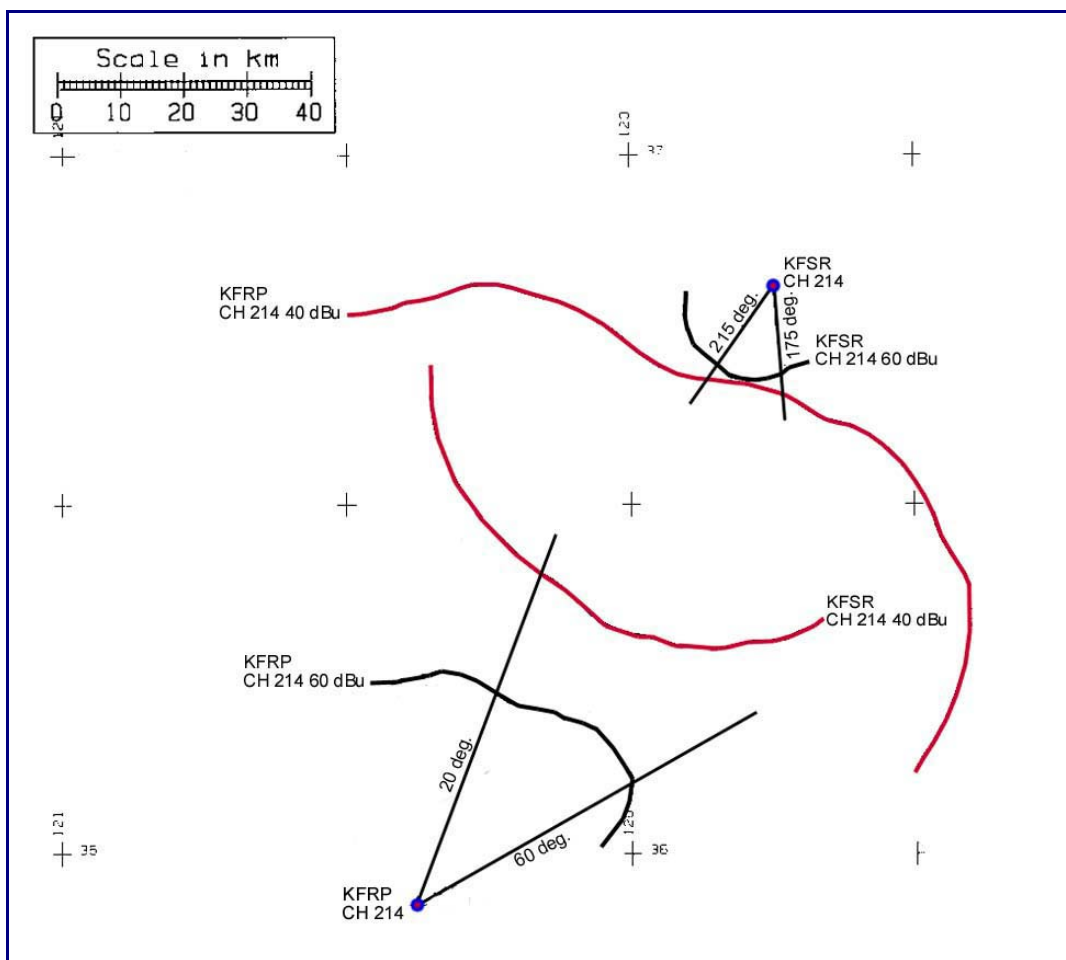
Tabulation of

CH 214, KFSR (LIC) 60 dBu protected contour & CH 214, KFRP (CP Mod) 40 dBu interference contour

KFSR - BLED880314KC Channel= 214 Max ERP = 2.55 kW RCAMSL = 124 M N. Lat = 364842 W. Lng = 1194443				KFRP Channel = 214 Max ERP = 2.5 kW RCAMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				
Protected 60 dBu				Interfering 40 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
175.0	2.550	37.3	14.0	34.7	0.995	432.0	102.3	39.1
176.0	2.550	37.7	14.1	34.6	0.995	431.5	102.1	39.2
177.0	2.550	38.5	14.2	34.5	0.995	430.9	101.8	39.2
178.0	2.550	39.2	14.4	34.5	0.995	430.9	101.6	39.3
179.0	2.550	39.7	14.5	34.4	0.995	430.4	101.3	39.3
180.0	2.550	39.8	14.5	34.3	0.995	429.8	101.2	39.4
181.0	2.550	39.9	14.5	34.1	0.995	428.7	101.0	39.4
182.0	2.550	40.0	14.5	34.0	0.995	428.1	100.9	39.4
183.0	2.550	40.2	14.5	33.9	0.995	427.6	100.7	39.4
184.0	2.550	40.5	14.6	33.8	0.995	427.0	100.5	39.5
185.0	2.550	41.0	14.7	33.7	0.995	426.4	100.3	39.5
186.0	2.550	41.8	14.9	33.6	0.995	425.8	100.1	39.6
187.0	2.550	42.6	15.0	33.5	0.995	425.3	99.8	39.6
188.0	2.550	43.3	15.1	33.4	0.995	424.7	99.6	39.7
189.0	2.550	43.9	15.3	33.3	0.995	424.1	99.4	39.7
190.0	2.550	44.5	15.4	33.2	0.995	423.5	99.2	39.8
191.0	2.550	44.9	15.4	33.1	0.995	422.9	99.0	39.8
192.0	2.550	45.1	15.5	32.9	0.995	421.8	98.8	39.8
193.0	2.550	45.3	15.5	32.8	0.995	421.2	98.7	39.8
194.0	2.550	45.6	15.6	32.7	0.995	420.6	98.6	39.8
195.0	2.550	45.7	15.6	32.5	0.995	419.4	98.5	39.8
196.0	2.550	45.7	15.6	32.4	0.995	418.9	98.4	39.8
197.0	2.550	45.6	15.6	32.2	0.995	417.6	98.3	39.8
198.0	2.550	45.5	15.6	32.0	0.995	416.4	98.3	39.8
199.0	2.550	45.6	15.6	31.9	0.995	415.8	98.2	39.8
200.0	2.550	45.9	15.6	31.7	0.995	414.6	98.1	39.8
201.0	2.550	46.4	15.7	31.6	0.995	413.9	97.9	39.8
202.0	2.550	46.8	15.8	31.5	0.995	413.3	97.8	39.8
203.0	2.550	47.2	15.9	31.3	0.995	411.9	97.7	39.8
204.0	2.550	47.4	15.9	31.1	0.995	410.6	97.6	39.8
205.0	2.550	47.6	16.0	31.0	0.995	409.9	97.5	39.8
206.0	2.550	47.7	16.0	30.8	0.995	408.5	97.5	39.8
207.0	2.550	47.6	16.0	30.7	0.995	407.9	97.5	39.8
208.0	2.550	47.1	15.9	30.5	0.995	406.4	97.6	39.7
209.0	2.550	46.4	15.7	30.3	0.995	405.0	97.7	39.6
210.0	2.550	45.8	15.6	30.2	0.995	404.3	97.8	39.6
211.0	2.550	45.3	15.5	30.0	0.995	402.8	97.9	39.5
212.0	2.550	44.9	15.4	29.8	0.995	401.4	98.0	39.4
213.0	2.550	44.5	15.4	29.7	0.995	400.7	98.1	39.4
214.0	2.550	44.2	15.3	29.5	0.995	399.2	98.2	39.3
215.0	2.550	44.0	15.3	29.4	0.995	398.5	98.2	39.3

**Allocation Study**

Map of  
CH 214, KFRP (CP Mod) & CH 214, KFSR (LIC)  
60 dBu protected contours & 40 dBu interference contours





**Allocation Study**

Tabulation of

CH 214, KFRP (CP Mod) 60 dBu protected contour & CH 215, KGZO (LIC) 54 dBu interference contour

KFRP Channel = 214 Max ERP = 2.5 kW RCMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				KGZO Channel = 215 Max ERP = 1.9 kW RCMSL = 1294 M N. Lat = 351651 W. Lng = 1194452				
Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
85.0	2.500	168.2	29.2	339.3	0.612	673.5	79.4	49.2
86.0	2.500	186.1	30.6	340.1	0.633	684.9	78.6	49.8
87.0	2.500	201.6	31.9	340.9	0.659	694.4	77.7	50.4
88.0	2.500	214.9	33.0	341.6	0.682	701.5	76.8	50.9
89.0	2.500	233.0	34.3	342.4	0.709	708.7	75.9	51.4
90.0	2.500	251.0	35.5	343.1	0.733	714.6	75.0	52.0
91.0	2.500	269.1	36.6	343.8	0.757	720.9	74.1	52.5
92.0	2.500	277.4	37.1	344.0	0.764	722.8	73.3	52.8
93.0	2.500	272.1	36.7	343.6	0.750	719.1	72.8	52.8
94.0	2.500	263.4	36.2	343.0	0.729	713.7	72.4	52.7
95.0	2.500	255.1	35.7	342.5	0.712	709.5	72.0	52.7
96.0	2.500	251.1	35.5	342.1	0.699	706.1	71.5	52.7
97.0	2.500	246.7	35.2	341.7	0.685	702.5	71.1	52.7
98.0	2.500	244.0	35.0	341.4	0.676	699.6	70.6	52.7
99.0	2.500	240.7	34.8	341.0	0.662	695.5	70.1	52.7
100.0	2.500	235.7	34.5	340.5	0.646	689.9	69.8	52.7
101.0	2.398	230.4	33.8	339.8	0.625	680.8	69.6	52.4
102.0	2.298	224.8	33.1	339.0	0.605	668.5	69.5	52.2
103.0	2.201	217.5	32.2	338.1	0.582	651.4	69.5	51.8
104.0	2.105	211.9	31.4	337.3	0.563	634.6	69.5	51.4
105.0	2.012	208.6	30.8	336.7	0.548	622.4	69.5	51.1
106.0	1.921	205.3	30.2	336.0	0.532	609.8	69.4	50.8
107.0	1.832	202.9	29.7	335.4	0.518	601.0	69.4	50.6
108.0	1.745	202.1	29.3	334.9	0.506	594.6	69.3	50.4
109.0	1.660	201.8	28.9	334.4	0.495	588.1	69.1	50.3
110.0	1.577	205.0	28.8	334.0	0.486	582.6	68.9	50.2
111.0	1.513	211.7	29.0	333.8	0.481	579.7	68.4	50.3
112.0	1.450	220.0	29.3	333.6	0.477	576.6	67.8	50.4
113.0	1.388	228.0	29.5	333.4	0.472	573.4	67.3	50.5
114.0	1.328	234.4	29.6	333.2	0.468	570.0	66.9	50.5
115.0	1.269	239.1	29.6	332.8	0.459	562.8	66.6	50.5
116.0	1.212	244.4	29.6	332.4	0.450	555.2	66.3	50.3
117.0	1.156	252.4	29.7	332.1	0.444	549.6	65.9	50.3
118.0	1.101	263.8	30.0	331.9	0.440	545.8	65.4	50.4
119.0	1.047	278.6	30.4	331.7	0.435	542.1	64.7	50.5
120.0	0.995	295.9	31.0	331.6	0.433	540.2	64.0	50.7
121.0	0.988	314.6	31.9	331.6	0.433	540.2	62.9	51.0
122.0	0.982	331.3	32.7	331.5	0.431	538.4	61.9	51.3
123.0	0.975	344.2	33.4	331.3	0.427	534.7	61.1	51.5
124.0	0.969	353.7	33.8	331.0	0.421	529.3	60.4	51.5
125.0	0.962	361.6	34.1	330.6	0.412	522.3	59.9	51.4
126.0	0.956	369.1	34.4	330.2	0.404	515.5	59.4	51.3
127.0	0.949	375.9	34.6	329.8	0.404	509.0	58.9	51.3
128.0	0.943	381.4	34.8	329.3	0.414	501.1	58.5	51.4
129.0	0.936	386.0	34.9	328.8	0.425	493.4	58.2	51.4
130.0	0.930	390.2	35.0	328.2	0.438	484.0	57.9	51.4
131.0	0.930	394.8	35.2	327.7	0.448	475.7	57.5	51.4
132.0	0.930	401.8	35.5	327.2	0.459	466.4	57.1	51.4
133.0	0.930	412.9	36.0	326.7	0.470	456.0	56.5	51.5
134.0	0.930	427.3	36.5	326.2	0.481	444.6	55.8	51.6
135.0	0.930	442.3	37.2	325.7	0.493	432.4	55.0	51.7
136.0	0.930	455.3	37.7	325.1	0.506	417.3	54.4	51.7
137.0	0.930	465.1	38.1	324.5	0.520	402.1	53.9	51.6
138.0	0.930	473.0	38.5	323.8	0.536	384.6	53.5	51.4
139.0	0.930	480.8	38.8	323.1	0.553	367.3	53.1	51.2
140.0	0.930	488.6	39.2	322.4	0.570	349.7	52.7	51.0
141.0	0.930	496.3	39.5	321.6	0.590	329.6	52.3	50.6
142.0	0.930	503.3	39.8	320.9	0.607	312.3	52.0	50.3
143.0	0.930	509.6	40.1	320.1	0.627	293.3	51.8	49.9
144.0	0.930	514.6	40.3	319.3	0.634	275.4	51.6	49.5
145.0	0.930	518.7	40.5	318.5	0.638	258.3	51.5	49.0

**Allocation Study**

Tabulation of

CH 215, KGZO (LIC) 60 dBu protected contour & CH 214, KFRP (CP Mod) 54 dBu interference contour

KGZO Channel = 215 Max ERP = 1.9 kW RCAMSL = 1294 M N. Lat = 351651 W. Lng = 1194452				KFRP Channel = 214 Max ERP = 2.5 kW RCAMSL = 1030 M N. Lat = 355539 W. Lng = 1202246				
Protected 60 dBu				Interfering 54 dBu				
Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
285.0	0.385	499.0	32.2	157.7	0.930	562.8	68.5	52.9
286.0	0.402	491.0	32.3	157.4	0.930	561.4	68.1	53.0
287.0	0.420	482.9	32.3	157.1	0.930	559.9	67.6	53.1
288.0	0.438	474.8	32.3	156.8	0.930	558.4	67.2	53.3
289.0	0.456	466.5	32.4	156.5	0.930	557.0	66.8	53.4
290.0	0.475	457.9	32.3	156.2	0.930	555.5	66.3	53.5
291.0	0.475	449.0	32.0	155.6	0.930	552.7	66.2	53.5
292.0	0.475	440.3	31.7	155.1	0.930	550.4	66.1	53.5
293.0	0.475	431.5	31.3	154.5	0.930	547.9	65.9	53.5
294.0	0.475	422.2	31.0	154.0	0.930	545.9	65.8	53.5
295.0	0.475	411.9	30.6	153.4	0.930	543.9	65.8	53.5
296.0	0.475	399.5	30.2	152.8	0.930	542.3	65.8	53.4
297.0	0.475	384.2	29.6	152.2	0.930	541.2	65.9	53.3
298.0	0.475	366.1	29.0	151.5	0.930	540.2	66.2	53.2
299.0	0.475	346.0	28.2	150.7	0.930	538.9	66.6	53.1
300.0	0.475	325.7	27.3	150.0	0.930	537.1	67.1	52.8
301.0	0.494	306.2	26.7	149.4	0.930	535.0	67.4	52.7
302.0	0.514	287.2	26.2	148.8	0.930	532.4	67.7	52.5
303.0	0.534	268.7	25.6	148.3	0.930	530.3	68.0	52.4
304.0	0.554	251.0	25.0	147.7	0.930	527.7	68.3	52.2
305.0	0.575	235.1	24.5	147.2	0.930	525.9	68.7	52.0
306.0	0.596	222.0	24.0	146.8	0.930	524.5	68.9	51.9
307.0	0.617	211.5	23.6	146.3	0.930	522.9	69.1	51.8
308.0	0.639	202.8	23.4	145.9	0.930	521.7	69.3	51.7
309.0	0.661	195.7	23.2	145.6	0.930	520.7	69.3	51.7
310.0	0.684	190.2	23.0	145.2	0.930	519.4	69.3	51.6
311.0	0.679	186.8	22.8	144.9	0.930	518.3	69.4	51.6
312.0	0.673	186.7	22.8	144.5	0.930	516.8	69.4	51.5
313.0	0.668	190.0	22.9	144.2	0.930	515.5	69.2	51.6
314.0	0.662	196.2	23.2	143.9	0.930	514.2	68.8	51.7
315.0	0.657	204.3	23.6	143.7	0.930	513.2	68.4	51.8
316.0	0.651	215.2	24.1	143.4	0.930	511.7	67.8	52.0
317.0	0.646	229.9	24.9	143.1	0.930	510.1	67.0	52.2
318.0	0.641	248.2	25.7	142.8	0.930	508.4	66.1	52.4
319.0	0.635	268.9	26.6	142.5	0.930	506.6	65.1	52.7
320.0	0.630	291.0	27.6	142.1	0.930	504.0	64.2	53.0
321.0	0.605	314.7	28.4	141.7	0.930	501.3	63.3	53.2
322.0	0.580	339.6	29.2	141.2	0.930	497.7	62.5	53.4
323.0	0.556	364.8	30.1	140.7	0.930	494.0	61.7	53.6
324.0	0.532	389.6	30.7	140.2	0.930	490.2	61.1	53.7
325.0	0.508	414.8	31.2	139.6	0.930	485.5	60.6	53.7
326.0	0.486	439.8	31.8	139.1	0.930	481.6	60.1	53.8
327.0	0.464	462.4	32.3	138.5	0.930	476.9	59.6	53.9
328.0	0.442	480.7	32.7	137.9	0.930	472.3	59.4	53.8
329.0	0.421	496.5	32.9	137.3	0.930	467.6	59.3	53.7
330.0	0.400	512.2	33.1	136.7	0.930	462.5	59.2	53.6
331.0	0.421	529.3	34.2	135.9	0.930	454.1	58.3	53.8
332.0	0.442	547.7	35.4	135.0	0.930	442.3	57.3	53.8
333.0	0.464	566.4	36.5	134.0	0.930	427.3	56.4	53.8
334.0	0.486	582.6	37.5	133.1	0.930	414.2	55.8	53.7
335.0	0.508	595.9	38.3	132.1	0.930	402.7	55.2	53.6
336.0	0.532	609.8	39.2	131.1	0.930	395.3	54.7	53.6
337.0	0.556	628.4	40.2	130.0	0.930	390.2	54.1	53.7
338.0	0.580	649.3	41.2	128.8	0.938	385.1	53.5	53.9
339.0	0.605	668.5	42.3	127.6	0.945	379.3	53.0	53.9
340.0	0.630	683.6	43.1	126.4	0.953	372.0	52.6	53.9
341.0	0.662	695.5	44.0	125.2	0.961	363.1	52.3	53.8
342.0	0.696	705.2	44.8	124.0	0.969	353.7	52.2	53.6
343.0	0.729	713.7	45.5	122.8	0.977	341.9	52.1	53.3
344.0	0.764	722.8	46.3	121.6	0.984	325.0	52.1	52.8
345.0	0.800	733.1	47.0	120.4	0.992	303.4	52.1	52.1

**Allocation Study**

Map of  
CH 214, KFRP (CP Mod) & CH 215, KGZO (LIC)  
60 dBu protected contours & 54 dBu interference contours

