Washington, District of Columbia

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
286.	WAF859	13000.0	-18.1	AA1142	0.6	DOWN	45.1	0.0		25000	24S604	VIDEO	-95.2	77.1	-173.5	9.0	86.1
1005.	POTOMA	13000.0	-21.5	AA1211	0.4	UP	47.6	0.0		6000	PASSIV	VIDEO	-98.9	77.4	-173.3	8.8	86.2
150.	WAF859	13000.0	-24.3	A12420	0.9	DOWN	41.4	0.0		12500	2K8D01	VIDEO	-101.9	77.6	-173.5	9.0	86.6
661.	RXONLY	13000.0	-21.0	*12000	2.7	DOWN	41.5	0.0		25000	24SB01	VIDEO	-98.8	77.8	-173.5	9.0	86.8
425.	WGW956	13000.0	-17.2	A13420	0.2	UP	45.1	0.0		25000	2K8D02	VIDEO	-95.2	78.0	-173.4	8.9	86.9
157.	WGZ356	13000.0	-16.9	AA1142	0.6	UP	45.1	0.0		25000	2K8D02	VIDEO	-95.2	78.3	-173.2	8.7	87.0
153.	WAF859	13000.0	-16.9	AA1142	0.9	DOWN	45.1	0.0		25000	2K8D02	VIDEO	-95.2	78.3	-173.5	9.0	87.3
221.	ABCNEW	13000.0	-20.5	*12000	0.0	DOWN	41.5	0.0		25000	2K8D02	VIDEO	-98.8	78.3	-173.5	9.0	87.3
256.	CHESAP	13000.0	-20.5	*12000	1.1	DOWN	41.5	0.0		25000	24S604	VIDEO	-98.8	78.3	-173.5	9.0	87.3
454.	WHY545	13000.0	-20.5	*12000	0.0	DOWN	41.5	0.0	12500F9	25000	2K8D01	VIDEO	-98.8	78.3	-173.5	9.0	87.3
722.	WGV723	13000.0	-16.2	P13200	0.2	UP	45.3	0.0	25000F9	25000	2K8D02	VIDEO	-95.0	78.7	-173.4	8.9	87.6
723.	WGV724	13000.0	-16.2	P13200	0.2	UP	45.3	0.0	25000F9	25000	2K8D02	VIDEO	-95.0	78.7	-173.4	8.9	87.6
722.	WGV725	13000.0	-16.2	P13200	0.3	DOWN	45.3	0.0	25000F9	25000	2K8D02	VIDEO	-95.0	78.7	-173.5	9.0	87.7
723.	WGV726	13000.0	-16.2	P13200	0.3	DOWN	45.3	0.0	25000F9	25000	2K8D02	VIDEO	-95.0	78.7	-173.5	9.0	87.7
148.	14THST	13000.0	-23.1	AA1036	0.5	UP	41.0	0.0		12500	2K8D02	VIDEO	-102.3	79.2	-173.3	8.8	87.9
172.	RXONLY	13000.0	-17.4	*12000	3.2	UP	41.5	0.0		25000	NURAD1	VIDEO	-98.8	81.3	-172.1	7.6	88.9
444.	ABCNEW	13000.0	-18.8	*12000	0.0	DOWN	41.5	0.0		25000	2K8D02	VIDEO	-98.8	80.0	-173.5	9.0	89.0
496.	RXONLY	13000.0	-15.0	*13000	0.3	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	80.1	-173.3	8.8	89.0
287.	WAF859	13000.0	-18.1	AA1142	0.6	DOWN	45.1	0.0		12500	24S607	VIDEO	-98.2	80.1	-173.5	9.0	89.1
599.	BRENMA	13000.0	-17.9	A12420	0.7	UP	41.4	0.0		25000	2K8D02	VIDEO	-98.9	81.0	-173.2	8.7	89.7
158.	WGZ356	13000.0	-16.9	AA1142	0.6	UP	45.1	0.0		12500	24S607	VIDEO	-98.2	81.3	-173.2	8.7	90.0
155.	WAF859	13000.0	-16.9	AA1142	0.9	DOWN	45.1	0.0		12500	24S607	VIDEO	-98.2	81.3	-173.5	9.0	90.3
660.	RXONLY	13000.0	-13.3	A13420	0.3	UP	45.1	0.0		25000	2K8D02	VIDEO	-95.2	81.8	-173.3	8.8	90.7
458.	NEWJER	13000.0	-12.8	AA1133	0.8	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	82.4	-173.1	8.6	91.0
449.	ABCNEW	13000.0	-16.1	*12000	0.0	DOWN	41.5	0.0		25000	2K8D02	VIDEO	-98.8	82.6	-173.5	9.0	91.6
224.	NEBRAS	13000.0	-15.4	*12000	0.4	UP	41.5	0.0		25000	2PSI01	VIDEO	-98.8	83.3	-173.3	8.8	92.1
602.	SEMINA	13000.0	-15.3	AA1033	2.8	DOWN	41.5	0.0		25000	24S604	VIDEO	-98.8	83.4	-173.5	9.0	92.4
600.	BRENMA	13000.0	-17.9	A12420	0.7	UP	41.4	0.0		12500	2K8D02	VIDEO	-101.9	84.0	-173.2	8.7	92.7
229.	WDT883	13000.0	-14.8	AA1033	0.9	DOWN	41.5	0.0		25000	2B9D01	VIDEO	-98.8	84.0	-173.5	9.0	93.0
231.	WDT884	13000.0	-14.8	AA1033	0.9	DOWN	41.5	0.0		25000	2B9D01	VIDEO	-98.8	84.0	-173.5	9.0	93.0
226.	ABCNEW	13000.0	-14.4	*12000	0.0	DOWN	41.5	0.0		25000	2K8D02	VIDEO	-98.8	84.3	-173.5	9.0	93.3
457.	WASHIN	13000.0	-13.6	S12000	1.0	UP	41.6	0.0		25000	2GGF02	VIDEO	-98.7	85.1	-173.0	8.5	93.6
1110.	RXONLY	13000.0	-14.0	*12000	3.5	DOWN	41.5	0.0		25000	000000	VIDEO	-98.8	84.8	-173.5	9.0	93.8
435.	BENDER	13000.0	-11.7	*12000	2.3	UP	41.5	0.0		25000	2PSI01	VIDEO	-98.8	87.1	-172.5	8.0	95.0
495.	RXONLY	13000.0	-12.2	AA1033	0.9	UP	41.5	0.0		25000	24S604	VIDEO	-98.8	86.6	-173.1	8.6	95.2
230.	WETAST	13000.0	-11.3	AA1033	2.4	UP	41.5	0.0		25000	2B9D01	VIDEO	-98.8	87.4	-172.4	7.9	95.3
243.	RECWAS	13000.0	-40.6	O10000	0.0	DOWN	13.0	0.0		25000	MOBILE	VIDEO	-127.3	86.7	-173.5	9.0	95.7
493.	RXONLY	13000.0	-6.4	*13000	0.9	UP	45.1	0.0		25000	000000	VIDEO	-95.2	88.8	-173.1	8.6	97.4
658.	RXONLY	13000.0	-8.0	*12000	4.8	UP	41.5	0.0		25000	2K8D02	VIDEO	-98.8	90.8	-171.6	7.1	97.9
601.	ARLING	13000.0	-4.1	AA1133	3.7	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	91.1	-171.9	7.4	98.5
217.	WAW491	13000.0	-8.0	*12000	4.8	DOWN	41.5	0.0		25000	2K8D02	VIDEO	-98.8	90.8	-173.5	9.0	99.8
433.	RXONLY	13000.0	-8.0	*12000	0.0	DOWN	41.5	0.0		25000	24S604	VIDEO	-98.8	90.8	-173.5	9.0	99.8
455.	ABCNEW	13000.0	-7.9	*12000	0.0	DOWN	41.5	0.0		25000	2K8D02	VIDEO	-98.8	90.9	-173.5	9.0	99.9
216.	WAW488	13000.0	-4.6	*12000	7.0	UP	41.5	0.0		25000	2K8D02	VIDEO	-98.8	94.2	-170.6	6.1	100.3
227.	ABCNEW	13000.0	-6.4	*12000	2.3	UP	41.5	0.0		25000	2K8D02	VIDEO	-98.8	92.3	-172.5	8.0	100.3
228.	ABCNEW	13000.0	-3.6	*12000	0.0	DOWN	41.5	0.0		25000	2K8D02	VIDEO	-98.8	95.1	-173.5	9.0	104.1
218.	RXONLY	13000.0	4.9	*12000	5.4	UP	41.5	0.0		25000	2K8D02	VIDEO	-98.8	103.7	-171.3	6.8	110.5

Washington, District of Columbia

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
432.	WHMMST	13000.0	19.9	*13000	9.7	UP	45.1	0.0		25000	2K8D02	VIDEO	-95.2	115.0	-169.6	5.1	120.1
970.	OLNEYP	13000.0	16.3	AA1312	28.0	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	113.9	-173.5	9.0	122.9
990.	EOCBLD	13000.0	16.3	AA1312	28.0	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	113.9	-173.5	9.0	122.9

Chicago, Illinois

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
994.	FIXEDS	13000.0	-63.1	*15000	0.4	DOWN	48.8	0.0		12500	AB0005	VIDEO	-94.5	31.4	-173.5	9.0	40.4
29.	RXONLY	13000.0	-94.8	010000	0.1	DOWN	13.0	0.0		12500	000000	VIDEO	-130.3	35.5	-173.5	9.0	44.5
28.	RECCHI	13000.0	-51.5	*13000	0.2	DOWN	45.1	0.0		25000	MOBILE	VIDEO	-95.2	43.7	-173.5	9.0	52.7
993.	RXONLY	13000.0	-82.9	010000	0.2	DOWN	13.0	0.0		25000	000000	VIDEO	-127.3	44.4	-173.5	9.0	53.4
644.	NLAKEV	13000.0	-48.9	AA1133	1.0	DOWN	45.1	0.0		6000	2YAH03	VIDEO	-101.4	52.5	-173.5	9.0	61.5
764.	NSTATE	13000.0	-48.8	AA1133	1.0	DOWN	45.1	0.0		6000	2YAH03	VIDEO	-101.4	52.6	-173.5	9.0	61.6
24.	RXONLY	13000.0	-48.5	AA1133	0.8	DOWN	45.1	0.0		6000	2YAH03	VIDEO	-101.4	52.9	-173.5	9.0	61.9
220.	5701NS	13000.0	-48.5	AA1133	0.8	DOWN	45.1	0.0		6000	2YAH03	VIDEO	-101.4	52.9	-173.5	9.0	61.9
636.	NLAKES	13000.0	-48.2	AA1133	0.9	DOWN	45.1	0.0		6000	2YAH03	VIDEO	-101.4	53.2	-173.5	9.0	62.2
228.	LAKESH	13000.0	-47.8	AA1133	0.6	DOWN	45.1	0.0		6000	2YAH03	VIDEO	-101.4	53.6	-173.5	9.0	62.6
746.	CRETE	13000.0	-44.0	AA1312	0.3	DOWN	48.8	0.0		6000	2Y5B08	VIDEO	-97.7	53.6	-173.5	9.0	62.6
742.	MOORES	13000.0	-42.0	S15003	0.2	DOWN	49.0	0.0		6000	BUF623	VIDEO	-97.5	55.5	-173.5	9.0	64.5
212.	6101NS	13000.0	-45.5	AA1133	0.9	DOWN	45.1	0.0		6000	2YAH03	VIDEO	-101.4	55.9	-173.5	9.0	64.9
163.	WESTMO	13000.0	-41.5	AA1315	0.3	DOWN	48.8	0.0		6000	TEM159	VIDEO	-97.7	56.1	-173.5	9.0	65.1
266.	MORTON	13000.0	-42.6	AA1214	0.2	DOWN	47.6	0.0		6000	TEM222	VIDEO	-98.9	56.3	-173.5	9.0	65.3
484.	LANSIN	13000.0	-38.8	AA1413	0.1	DOWN	50.9	0.0		6000	2Y5B07	VIDEO	-95.6	56.7	-173.5	9.0	65.7
61.	PARKFO	13000.0	-41.8	AA1211	0.3	DOWN	47.6	0.0		6000	2Y5B07	VIDEO	-98.9	57.0	-173.5	9.0	66.0
738.	WESTRO	13000.0	-40.4	S15003	0.3	DOWN	49.0	0.0		6000	BUF623	VIDEO	-97.5	57.1	-173.5	9.0	66.1
86.	WAQ359	13000.0	-43.1	A11110	11.7	UP	35.5	0.0		25000	243W06	VIDEO	-104.8	61.6	-169.1	4.6	66.3
684.	DOLTON	13000.0	-37.9	AA1000	0.3	DOWN	50.9	0.0		6000	TEM222	VIDEO	-95.6	57.7	-173.5	9.0	66.7
1134.	WGZ472	13000.0	-33.8	AA1315	0.2	DOWN	48.8	0.0		25000	24S607	VIDEO	-91.5	57.7	-173.5	9.0	66.7
834.	WGZ339	13000.0	-36.6	A15210	0.1	DOWN	48.5	0.0	12500F9	12500	24S607	VIDEO	-94.8	58.2	-173.5	9.0	67.2
984.	DOWNER	13000.0	-36.6	A15210	0.3	DOWN	48.5	0.0		12500	2PUY01	VIDEO	-94.8	58.2	-173.5	9.0	67.2
1091.	WGZ456	13000.0	-34.4	AA1214	0.1	UP	47.6	0.0		25000	2K7I01	VIDEO	-92.7	58.3	-173.4	8.9	67.2
734.	W2NDST	13000.0	-39.0	S15003	0.2	DOWN	49.0	0.0		6000	BUF623	VIDEO	-97.5	58.5	-173.5	9.0	67.5
35.	OAK BR	13000.0	-49.1	M14713	0.5	UP	44.2	12.0	25M0 F8W	25000	27CX01	VIDEO	-108.1	58.9	-173.2	8.7	67.7
251.	ELMWOO	13000.0	-40.1	AA1214	0.2	DOWN	47.6	0.0		6000	TEM222	VIDEO	-98.9	58.8	-173.5	9.0	67.8
681.	WLY387	13000.0	-37.1	M14713	0.3	UP	44.2	0.0	25M0 F8W	25000	27CX01	VIDEO	-96.1	58.9	-173.3	8.8	67.8
35.	HANCOC	13000.0	-49.1	M14713	0.7	DOWN	44.2	12.0	25M0 F8W	25000	27CX01	VIDEO	-108.1	58.9	-173.5	9.0	67.9
1032.	LKVILL	13000.0	-38.6	*15000	0.4	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	59.1	-173.3	8.8	67.9
772.	STJOHN	13000.0	-39.7	*12000	0.1	UP	41.5	0.0		25000	000000	VIDEO	-98.8	59.1	-173.5	9.0	68.0
680.	WLY387	13000.0	-48.7	M14713	0.6	UP	44.2	12.0	25M0 F8W	25000	27CX01	VIDEO	-108.1	59.4	-173.2	8.7	68.1
1033.	LKVILL	13000.0	-38.6	*15000	0.3	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	59.1	-173.5	9.0	68.1
448.	WHIT	13000.0	-38.3	AA1315	0.4	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	59.4	-173.5	9.0	68.4
680.	WLY388	13000.0	-48.7	M14713	0.8	DOWN	44.2	12.0	25M0 F8W	25000	27CX01	VIDEO	-108.1	59.4	-173.5	9.0	68.4
394.	NORRID	13000.0	-35.9	AA1413	0.2	DOWN	50.9	0.0		6000	2K7I01	VIDEO	-95.6	59.6	-173.5	9.0	68.6
473.	WHEATF	13000.0	-37.6	S15003	0.1	DOWN	49.0	0.0		6000	BUF623	VIDEO	-97.5	59.8	-173.5	9.0	68.8
236.	ELMHUR	13000.0	-40.8	AA1142	0.6	UP	45.1	0.0		6000	TEM222	VIDEO	-101.4	60.6	-173.2	8.7	69.3
1022.	LINDEN	13000.0	-37.1	A15120	0.6	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	60.6	-173.2	8.7	69.3
1128.	PADDOC	13000.0	-31.2	AA1315	0.1	DOWN	48.8	0.0		25000	24S607	VIDEO	-91.5	60.3	-173.5	9.0	69.3
194.	NEWLEN	13000.0	-37.1	A15120	0.2	DOWN	48.8	0.0		6000	2K7B03	VIDEO	-97.7	60.6	-173.5	9.0	69.6
1016.	LINDEN	13000.0	-37.1	*15000	0.2	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	60.6	-173.5	9.0	69.6
710.	FOREST	13000.0	-40.7	AA1142	0.2	DOWN	45.1	0.0		6000	TEM222	VIDEO	-101.4	60.7	-173.5	9.0	69.7
152.	CENTER	13000.0	-36.9	AA1315	0.4	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	60.8	-173.5	9.0	69.8
281.	FRANKL	13000.0	-40.5	AA1142	0.3	DOWN	45.1	0.0		6000	TEM222	VIDEO	-101.4	60.9	-173.5	9.0	69.9
31.	WAC262	13000.0	-34.0	AA1133	1.9	DOWN	45.1	0.0		25000	24S603	VIDEO	-95.2	61.1	-173.5	9.0	70.1
1024.	WINTHR	13000.0	-36.5	AA1306	0.2	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	61.1	-173.5	9.0	70.1

Chicago, Illinois

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986.	DOWNER	13000.0	-36.6	A15210	0.3	DOWN	48.5	0.0		6000	2PUY01	VIDEO	-98.0	61.3	-173.5	9.0	70.3
59.	WAQ359	13000.0	-39.3	A11110	10.1	UP	35.5	0.0		25000	243W06	VIDEO	-104.8	65.4	-169.5	5.0	70.4
593.	HILLSI	13000.0	-44.1	AA1036	0.3	DOWN	41.0	0.0		6000	TEM222	VIDEO	-105.5	61.4	-173.5	9.0	70.4
178.	NEWLEN	13000.0	-36.1	A15120	0.2	DOWN	48.8	0.0		6000	TEMXX1	VIDEO	-97.7	61.6	-173.5	9.0	70.6
459.	GLENWO	13000.0	-35.9	AA1315	0.2	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	61.8	-173.5	9.0	70.8
8.	RAILRD	13000.0	-35.6	S15003	0.2	DOWN	49.0	0.0		6000	BUF623	VIDEO	-97.5	61.9	-173.5	9.0	70.9
1154.	STREAM	13000.0	-35.8	A15120	0.3	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	61.9	-173.5	9.0	70.9
1151.	HOFF	13000.0	-30.6	AA1214	0.5	DOWN	47.6	0.0		25000	2K7I01	VIDEO	-92.7	62.1	-173.5	9.0	71.1
850.	SHOREW	13000.0	-35.4	AA1312	0.1	UP	48.8	0.0		6000	2K7B03	VIDEO	-97.7	62.3	-173.5	9.0	71.3
1114.	WGZ460	13000.0	-30.3	AA1214	0.3	DOWN	47.6	0.0		25000	2K7I01	VIDEO	-92.7	62.3	-173.5	9.0	71.3
437.	NEWCHI	13000.0	-35.3	AA1315	0.2	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	62.4	-173.5	9.0	71.4
340.	MELROS	13000.0	-35.2	A15120	0.2	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	62.5	-173.5	9.0	71.5
1071.	UNIGRV	13000.0	-34.9	AA1312	0.1	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	62.8	-173.5	9.0	71.8
1042.	SKOKIE	13000.0	-34.8	AA1306	0.3	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	62.9	-173.5	9.0	71.9
938.	JOLIET	13000.0	-35.6	AA1211	0.2	UP	47.6	0.0		6000	2K7B03	VIDEO	-98.9	63.3	-173.4	8.9	72.2
585.	WILLOW	13000.0	-34.4	A15310	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	63.3	-173.5	9.0	72.3
835.	SHOREW	13000.0	-34.4	AA1312	0.1	UP	48.8	0.0		6000	TEMXX1	VIDEO	-97.7	63.3	-173.5	9.0	72.3
300.	PALOSH	13000.0	-33.9	A15310	0.7	UP	48.8	0.0		6000	2PUY01	VIDEO	-97.7	63.8	-173.1	8.6	72.4
558.	MIDLOT	13000.0	-35.4	AA1211	0.3	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	63.5	-173.5	9.0	72.5
1058.	SCHAUM	13000.0	-34.2	A15120	0.4	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	63.5	-173.5	9.0	72.5
827.	HERSHE	13000.0	-37.8	AA1133	0.2	DOWN	45.1	0.0		6000	2K7G01	VIDEO	-101.4	63.6	-173.5	9.0	72.6
421.	CHESTE	13000.0	-33.7	AA1315	0.3	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	64.0	-173.4	8.9	72.9
43.	NILES	13000.0	-34.8	AA1203	0.2	DOWN	47.6	0.0		6000	24S604	VIDEO	-98.9	64.1	-173.5	9.0	73.1
105.	BEDFOR	13000.0	-33.5	A15120	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	64.1	-173.5	9.0	73.1
608.	TINLEY	13000.0	-33.5	A15120	0.3	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	64.1	-173.5	9.0	73.1
922.	JOLIET	13000.0	-34.6	AA1211	0.2	UP	47.6	0.0		6000	TEMXX1	VIDEO	-98.9	64.3	-173.4	8.9	73.2
1067.	WATERF	13000.0	-33.3	AA1312	0.1	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	64.3	-173.4	8.9	73.3
1076.	WGZ456	13000.0	-34.4	AA1214	0.1	UP	47.6	0.0		6000	2K7I04	VIDEO	-98.9	64.5	-173.4	8.9	73.4
316.	MERRIO	13000.0	-33.1	A15310	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	64.6	-173.5	9.0	73.6
367.	BERWYN	13000.0	-34.3	AA1211	0.3	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	64.6	-173.5	9.0	73.6
1.	CLIFTO	13000.0	-34.1	AA1211	0.2	DOWN	47.6	0.0		6000	2K7G01	VIDEO	-98.9	64.8	-173.5	9.0	73.8
797.	WHEATL	13000.0	-33.9	AA1211	0.1	UP	47.6	0.0		6000	2K7B01	VIDEO	-98.9	65.0	-173.4	8.9	73.9
621.	TINLEY	13000.0	-32.5	A15120	0.3	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	65.1	-173.5	9.0	74.1
653.	BLUEIS	13000.0	-32.2	A15120	0.1	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	65.4	-173.5	9.0	74.4
879.	PLAINF	13000.0	-33.3	AA1211	0.1	UP	47.6	0.0		6000	2K7B03	VIDEO	-98.9	65.6	-173.4	8.9	74.5
681.	WLY388	13000.0	-42.1	M14713	0.5	DOWN	44.2	12.0	25M0 F8W	25000	27CX01	VIDEO	-108.1	65.9	-173.5	9.0	74.9
796.	WHEATL	13000.0	-32.9	AA1211	0.1	UP	47.6	0.0		6000	TEMXX1	VIDEO	-98.9	66.0	-173.4	8.9	74.9
308.	HAMMON	13000.0	-31.6	A15120	0.2	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	66.1	-173.5	9.0	75.1
1040.	HIGHLA	13000.0	-30.0	M13400	0.1	UP	44.0	0.0		25000	2K8D02	VIDEO	-96.3	66.2	-173.4	8.9	75.2
209.	NBCTOW	13000.0	-34.1	A11110	11.7	UP	35.5	0.0		25000	349	VIDEO	-104.8	70.6	-169.1	4.6	75.3
969.	HOMER	13000.0	-32.6	AA1211	0.3	DOWN	47.6	0.0		6000	2K7B03	VIDEO	-98.9	66.3	-173.5	9.0	75.3
864.	PLAINF	13000.0	-32.3	AA1211	0.1	UP	47.6	0.0		6000	TEMXX1	VIDEO	-98.9	66.6	-173.4	8.9	75.5
60.	WAQ359	13000.0	-33.3	A11110	14.0	UP	35.5	0.0		25000	243W06	VIDEO	-104.8	71.4	-168.7	4.2	75.6
757.	AROMAP	13000.0	-34.8	AA1133	0.2	DOWN	45.1	0.0		6000	2K7G01	VIDEO	-101.4	66.6	-173.5	9.0	75.6
1047.	NORTHB	13000.0	-32.1	A14720	0.2	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	66.8	-173.4	8.9	75.7
88.	SHOREW	13000.0	-32.1	AA1211	0.4	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	66.8	-173.5	9.0	75.8
332.	BURNHA	13000.0	-30.9	*15000	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	66.8	-173.5	9.0	75.8

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Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
908.	LOCKPO	13000.0	-32.0	AA1211	0.2	DOWN	47.6	0.0		6000	2K7B03	VIDEO	-98.9	66.9	-173.5	9.0	75.9
397.	NORRID	13000.0	-28.5	AA1413	0.2	DOWN	50.9	0.0		6000	TEM312	VIDEO	-95.6	67.0	-173.5	9.0	76.0
527.	IRVING	13000.0	-31.8	AA1203	0.5	DOWN	47.6	0.0		6000	2K7G01	VIDEO	-98.9	67.0	-173.5	9.0	76.0
429.	SOHAVE	13000.0	-30.4	AA1315	0.4	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	67.3	-173.3	8.8	76.1
13.	112TH&	13000.0	-34.3	A13210	0.2	DOWN	44.8	0.0		6000	2K7G01	VIDEO	-101.7	67.3	-173.5	9.0	76.3
953.	HOMER	13000.0	-31.6	AA1211	0.3	DOWN	47.6	0.0		6000	TEMXX1	VIDEO	-98.9	67.3	-173.5	9.0	76.3
37.	PALHEI	13000.0	-30.2	A15320	0.2	DOWN	48.8	0.0		6000	2K7I02	VIDEO	-97.7	67.4	-173.5	9.0	76.4
72.	SAUVIL	13000.0	-30.2	A15320	0.2	DOWN	48.8	0.0		6000	2K7I02	VIDEO	-97.7	67.4	-173.5	9.0	76.4
343.	MELROS	13000.0	-30.2	AA1312	0.2	DOWN	48.8	0.0		6000	TEM312	VIDEO	-97.7	67.5	-173.5	9.0	76.5
996.	FAIR	13000.0	-33.8	AA1133	0.2	UP	45.1	0.0		6000	2PUY01	VIDEO	-101.4	67.6	-173.4	8.9	76.5
51.	STONEP	13000.0	-31.2	AA1211	0.3	DOWN	47.6	0.0		6000	2PUY01	VIDEO	-98.9	67.6	-173.5	9.0	76.6
85.	WCX474	13000.0	-37.1	A11110	14.1	DOWN	35.5	0.0		25000	2YFH01	VIDEO	-104.8	67.6	-173.5	9.0	76.6
788.	LYONS	13000.0	-31.2	AA1211	0.2	DOWN	47.6	0.0		6000	2PUY01	VIDEO	-98.9	67.7	-173.5	9.0	76.7
33.	WAC262	13000.0	-27.2	AA1133	9.3	DOWN	45.1	0.0		25000	24S603	VIDEO	-95.2	67.9	-173.5	9.0	76.9
893.	LOCKPO	13000.0	-31.0	AA1211	0.2	DOWN	47.6	0.0		6000	TEMXX1	VIDEO	-98.9	67.9	-173.5	9.0	76.9
726.	KOUTS	13000.0	-30.9	AA1211	0.2	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	68.0	-173.5	9.0	77.0
784.	RXONLY	13000.0	-30.5	*11000	17.0	UP	35.5	0.0		25000	AB0004	VIDEO	-104.8	74.2	-167.6	3.1	77.3
1136.	HOFF	13000.0	-30.6	AA1214	0.5	DOWN	47.6	0.0		6000	2K7I03	VIDEO	-98.9	68.3	-173.5	9.0	77.3
144.	DEMOTT	13000.0	-30.5	AA1211	0.1	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	68.4	-173.5	9.0	77.4
773.	STJOHN	13000.0	-30.4	AA1214	0.3	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	68.5	-173.5	9.0	77.5
1056.	BUFF	13000.0	-30.3	AA1214	0.1	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	68.5	-173.5	9.0	77.5
1100.	WGZ460	13000.0	-30.3	AA1214	0.3	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	68.5	-173.5	9.0	77.5
709.	HOMEWO	13000.0	-22.8	A15120	0.3	DOWN	48.8	0.0		25000	24S604	VIDEO	-91.5	68.7	-173.5	9.0	77.7
699.	HOMEWO	13000.0	-29.7	*14000	0.2	DOWN	47.6	0.0		6000	24S604	VIDEO	-98.9	69.2	-173.5	9.0	78.2
1115.	WINDHA	13000.0	-32.0	AA1142	0.3	UP	45.1	0.0		6000	2K7I01	VIDEO	-101.4	69.3	-173.4	8.9	78.2
1092.	ROLLIN	13000.0	-29.4	A14720	0.3	DOWN	47.6	0.0		6000	2PU701	VIDEO	-98.9	69.5	-173.5	9.0	78.5
298.	OAKPAR	13000.0	-24.8	*15000	0.2	DOWN	48.8	0.0		12500	24S604	VIDEO	-94.5	69.7	-173.5	9.0	78.7
707.	HOMEWO	13000.0	-24.8	A15120	0.3	DOWN	48.8	0.0		12500	24S604	VIDEO	-94.5	69.7	-173.5	9.0	78.7
129.	LEMONT	13000.0	-29.0	AA1211	0.3	DOWN	47.6	0.0		6000	2K7B03	VIDEO	-98.9	69.8	-173.5	9.0	78.8
142.	LEMONT	13000.0	-29.0	AA1211	0.3	DOWN	47.6	0.0		6000	TEM425	VIDEO	-98.9	69.8	-173.5	9.0	78.8
143.	LEMONT	13000.0	-29.0	AA1211	0.3	DOWN	47.6	0.0		6000	2K7B01	VIDEO	-98.9	69.8	-173.5	9.0	78.8
36.	OAKPAR	13000.0	-25.3	*13000	0.2	DOWN	45.1	0.0		25000	24S604	VIDEO	-95.2	69.9	-173.5	9.0	78.9
22.	112TH&	13000.0	-28.3	A13210	0.2	DOWN	44.8	0.0		12500	24S607	VIDEO	-98.5	70.2	-173.5	9.0	79.2
324.	DIXMOO	13000.0	-27.5	*15000	0.3	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	70.2	-173.5	9.0	79.2
547.	SWESTE	13000.0	-28.3	A13210	0.2	DOWN	44.8	0.0		12500	24S607	VIDEO	-98.5	70.2	-173.5	9.0	79.2
210.	PARKFO	13000.0	-31.1	S12500	0.1	DOWN	41.7	0.0		12500	2BVY02	VIDEO	-101.6	70.5	-173.5	9.0	79.5
370.	BERWYN	13000.0	-28.4	AA1211	0.2	DOWN	47.6	0.0		6000	TEM312	VIDEO	-98.9	70.5	-173.5	9.0	79.5
371.	BERWYN	13000.0	-28.4	AA1211	0.2	DOWN	47.6	0.0		6000	TEM319	VIDEO	-98.9	70.5	-173.5	9.0	79.5
104.	RECCHI	13000.0	-56.0	O10000	0.0	DOWN	13.0	0.0		25000	MOBILE	VIDEO	-127.3	71.3	-173.5	9.0	80.3
375.	BERWYN	13000.0	-28.4	AA1211	0.2	DOWN	47.6	0.0		6000	TEM312	VIDEO	-98.9	70.5	-173.5	9.0	79.5
1005.	PARK	13000.0	-30.7	AA1133	0.3	UP	45.1	0.0		6000	2PUY01	VIDEO	-101.4	70.6	-173.4	8.9	79.5
113.	LEMONT	13000.0	-28.0	AA1211	0.3	DOWN	47.6	0.0		6000	TEMXX1	VIDEO	-98.9	70.8	-173.5	9.0	79.8
507.	HARBOR	13000.0	-28.1	AA1203	0.8	DOWN	47.6	0.0		6000	2K7G01	VIDEO	-98.9	70.8	-173.5	9.0	79.8
623.	TINLEY	13000.0	-26.2	AA1312	0.4	DOWN	48.8	0.0		6000	TEM312	VIDEO	-97.7	71.5	-173.5	9.0	80.5
624.	TINLEY	13000.0	-26.2	AA1312	0.4	DOWN	48.8	0.0		6000	TEM319	VIDEO	-97.7	71.5	-173.5	9.0	80.5
625.	TINLEY	13000.0	-26.2	AA1312	0.4	DOWN	48.8	0.0		6000	TEM312	VIDEO	-97.7	71.5	-173.5	9.0	80.5
548.	HURONP	13000.0	-27.2	AA1203	5.7	DOWN	47.6	0.0		6000	2YX508	VIDEO	-98.9	71.7	-173.5	9.0	80.7

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Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
96.	4SEASO	13000.0	-27.0	AA1211	0.4	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	71.8	-173.5	9.0	80.8
34.	WAC262	13000.0	-23.2	AA1133	9.3	DOWN	45.1	0.0		25000	24S603	VIDEO	-95.2	71.9	-173.5	9.0	80.9
87.	SEARST	13000.0	-23.2	AA1133	9.3	DOWN	45.1	0.0		25000	24S603	VIDEO	-95.2	71.9	-173.5	9.0	80.9
469.	TEMPYL	13000.0	-31.7	*11000	2.4	UP	35.5	0.0		25000	000000	VIDEO	-104.8	73.1	-172.4	7.9	81.0
573.	MIDLOT	13000.0	-26.8	AA1211	0.2	DOWN	47.6	0.0		6000	TEM312	VIDEO	-98.9	72.1	-173.5	9.0	81.1
574.	MIDLOT	13000.0	-26.8	AA1211	0.2	DOWN	47.6	0.0		6000	TEM319	VIDEO	-98.9	72.1	-173.5	9.0	81.1
575.	MIDLOT	13000.0	-26.8	AA1211	0.2	DOWN	47.6	0.0		6000	TEM312	VIDEO	-98.9	72.1	-173.5	9.0	81.1
1015.	MTPROS	13000.0	-25.3	A15800	0.6	DOWN	48.9	0.0		6000	2K7G01	VIDEO	-97.6	72.2	-173.5	9.0	81.2
537.	SWELLS	13000.0	-29.1	AA1133	0.4	DOWN	45.1	0.0		6000	2K7G01	VIDEO	-101.4	72.3	-173.5	9.0	81.3
1075.	MTPROS	13000.0	-25.2	A15800	0.1	DOWN	48.9	0.0		6000	2K7I01	VIDEO	-97.6	72.4	-173.5	9.0	81.4
668.	BLUEIS	13000.0	-25.0	AA1312	0.2	DOWN	48.8	0.0		6000	TEM312	VIDEO	-97.7	72.6	-173.5	9.0	81.6
669.	BLUEIS	13000.0	-25.0	AA1312	0.2	DOWN	48.8	0.0		6000	TEM319	VIDEO	-97.7	72.6	-173.5	9.0	81.6
670.	BLUEIS	13000.0	-25.0	AA1312	0.2	DOWN	48.8	0.0		6000	TEM312	VIDEO	-97.7	72.6	-173.5	9.0	81.6
296.	OAKPAR	13000.0	-24.8	*15000	0.2	DOWN	48.8	0.0		6000	24S604	VIDEO	-97.7	72.9	-173.5	9.0	81.9
1152.	ROLL	13000.0	-25.6		0.5	UP	47.6	0.0		6000	2K7G01	VIDEO	-98.9	73.3	-173.3	8.8	82.1
1097.	ROLL	13000.0	-25.6	A14720	0.3	UP	47.6	0.0		6000	2K7G01	VIDEO	-98.9	73.3	-173.4	8.9	82.2
1094.	WGZ457	13000.0	-25.6	A14720	0.5	DOWN	47.6	0.0		6000	2K7G01	VIDEO	-98.9	73.3	-173.5	9.0	82.3
1099.	WGZ459	13000.0	-25.3	AA1214	0.4	DOWN	47.6	0.0		6000	2K7G01	VIDEO	-98.9	73.5	-173.5	9.0	82.5
517.	SLAKES	13000.0	-24.9	AA1203	0.7	DOWN	47.6	0.0		6000	2K7G01	VIDEO	-98.9	74.0	-173.5	9.0	83.0
683.	JOHNHA	13000.0	-20.9	*13000	0.1	DOWN	45.1	0.0		25000	000000	VIDEO	-95.2	74.3	-173.5	9.0	83.3
211.	PARKFO	13000.0	-27.0	S12000	0.1	DOWN	41.6	0.0		12500	2BVY02	VIDEO	-101.7	74.7	-173.5	9.0	83.7
38.	WAM610	13000.0	-18.7	AA1315	0.2	DOWN	48.8	0.0		12500	2B9H01	VIDEO	-94.5	75.8	-173.5	9.0	84.8
40.	WAM610	13000.0	-18.7	*15000	0.2	DOWN	48.8	0.0		12500	2B9H01	VIDEO	-94.5	75.8	-173.5	9.0	84.8
41.	WGP410	13000.0	-18.7	AA1315	0.1	DOWN	48.8	0.0		12500	2PUY01	VIDEO	-94.5	75.8	-173.5	9.0	84.8
482.	NMICHI	13000.0	-20.3	A12420	2.7	UP	41.4	0.0		25000	2ZFA02	VIDEO	-98.9	78.5	-172.3	7.8	86.3
725.	SOUTHW	13000.0	-17.7	A14001	0.6	UP	47.3	0.0		12500	24S604	VIDEO	-96.0	78.3	-173.2	8.7	87.0
834.	WAM610	13000.0	-19.6	A15210	0.0	DOWN	48.5	0.0	5750A5C	6000	2PUY01	VIDEO	-98.0	78.3	-173.5	9.0	87.3
483.	NMICHI	13000.0	-20.3	A12420	6.7	DOWN	41.4	0.0		25000	2ZFA02	VIDEO	-98.9	78.5	-173.5	9.0	87.5
495.	LAKEME	13000.0	-22.5	AA1103	0.5	DOWN	45.1	0.0		6000	2K7G01	VIDEO	-101.4	78.9	-173.5	9.0	87.9
995.	RACINE	13000.0	-18.1	*13000	0.0	UP	45.1	0.0	F9	12500	000000	VIDEO	-98.2	80.1	-173.5	9.0	89.1
995.	KENOSH	13000.0	-18.1	*13000	0.1	DOWN	45.1	0.0	F9	12500	000000	VIDEO	-98.2	80.1	-173.5	9.0	89.1
82.	WBBMST	13000.0	-16.5	*11000	25.2	UP	35.5	0.0		25000	000000	VIDEO	-104.8	88.3	-165.5	1.0	89.2
1041.	ZION	13000.0	-17.9	*13000	0.1	DOWN	45.1	0.0	F9	12500	000000	VIDEO	-98.2	80.3	-173.5	9.0	89.3
1041.	NCHICA	13000.0	-17.9	*13000	0.0	DOWN	45.1	0.0	F9	12500	000000	VIDEO	-98.2	80.3	-173.5	9.0	89.3
1014.	ZION	13000.0	-16.6	*13000	0.1	UP	45.1	0.0	F9	12500	000000	VIDEO	-98.2	81.6	-173.5	9.0	90.5
1014.	KENOSH	13000.0	-16.6	*13000	0.2	DOWN	45.1	0.0	F9	12500	000000	VIDEO	-98.2	81.6	-173.5	9.0	90.6
787.	RXONLY	13000.0	-26.1	AA1033	0.4	DOWN	41.5	10.0		25000	24S604	VIDEO	-108.8	82.6	-173.5	9.0	91.6
785.	RXONLY	13000.0	-12.5	*13000	2.3	DOWN	45.1	0.0		25000	000000	VIDEO	-95.2	82.7	-173.5	9.0	91.7
84.	WBBMST	13000.0	-14.6	*12000	0.1	UP	41.5	0.0		25000	000000	VIDEO	-98.8	84.2	-173.5	9.0	93.2
682.	NMICHI	13000.0	-20.6	*11000	0.0	DOWN	35.5	0.0		25000	000000	VIDEO	-104.8	84.2	-173.5	9.0	93.2
12.	20NWAC	13000.0	-8.4	A73000	0.2	UP	43.1	0.0		25000	24S604	VIDEO	-97.2	88.8	-173.4	8.9	97.7
81.	WIK22	13000.0	2.6		22.5	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	97.8	-166.0	1.5	99.2
786.	RXONLY	13000.0	-11.5	A11400	14.7	DOWN	35.5	0.0		25000	252	VIDEO	-104.8	93.3	-173.5	9.0	102.3
83.	NMICHI	13000.0	-7.5	A11110	1.4	UP	35.5	0.0		25000	000000	VIDEO	-104.8	97.3	-172.8	8.3	105.6
80.	WAW492	13000.0	2.6	AA1113	22.5	DOWN	45.1	0.0		25000	24S604	VIDEO	-95.2	97.8	-173.5	9.0	106.8
477.	CHICAO	13000.0	-0.4	AA1211	11.4	DOWN	47.6	0.0		6000	000000	VIDEO	-98.9	98.5	-173.5	9.0	107.5
481.	SWACKE	13000.0	13.7	AA1033	54.7	UP	41.5	0.0		25000	000000	VIDEO	-98.8	112.4	-164.5	0.0	112.4

Chicago, Illinois

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt Ang. (Deg.)	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
635.	WJACKS	13000.0	13.7	AA1033	74.7 UP	41.5	0.0		25000	000000	VIDEO	-98.8	112.4	-164.5	0.0	112.4
652.	HANCOC	13000.0	11.7	AA1133	25.2 DOWN	45.1	0.0		25000	000000	VIDEO	-95.2	106.9	-173.5	9.0	115.9

San Mateo, California

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
332.	RXONLY	13000.0	-97.9	O10000	0.2	DOWN	13.0	0.0		25000	24S604	VIDEO	-127.3	29.4	-173.5	9.0	38.4
318.	FIXEDL	13000.0	-92.9	O10000	0.4	DOWN	13.0	0.0		25000	24S604	VIDEO	-127.3	34.4	-173.5	9.0	43.4
319.	FIXEDL	13000.0	-92.9	O10000	0.4	DOWN	13.0	0.0		12500	24S607	VIDEO	-130.3	37.4	-173.5	9.0	46.4
579.	SKYLOW	13000.0	-50.7	AA1211	1.4	UP	47.6	0.0		6000	COT11A	VIDEO	-98.9	48.2	-172.8	8.3	56.5
398.	BATTER	13000.0	-43.0	P15700	0.1	DOWN	49.0	0.0		25000	000000	VIDEO	-91.3	48.3	-173.5	9.0	57.3
739.	RXONLY	13000.0	-43.0	P15700	0.1	DOWN	49.0	0.0		25000	000000	VIDEO	-91.3	48.3	-173.5	9.0	57.3
587.	WOODSI	13000.0	-48.3	A15120	1.5	UP	48.8	0.0		6000	COT11A	VIDEO	-97.7	49.3	-172.8	8.3	57.6
465.	RXONLY	13000.0	-72.1	*02000	0.1	UP	18.4	0.0		25000	23L701	VIDEO	-121.9	49.7	-173.4	8.9	58.7
734.	DURAND	13000.0	-45.2	A14720	1.5	UP	47.6	4.0	12500F9	25000	24S607	VIDEO	-96.7	51.4	-172.8	8.3	59.7
338.	ELCERR	13000.0	-39.3	S15005	0.2	UP	48.8	0.0		25000	000000	VIDEO	-91.5	52.2	-173.4	8.9	61.1
606.	POINTM	13000.0	-45.5	AA1312	0.3	DOWN	48.8	0.0		6000	BUF623	VIDEO	-97.7	52.2	-173.5	9.0	61.2
234.	WOW98	13000.0	-39.4	AA1211	2.1	UP	47.6	0.0	25000F9	25000	2B9D01	VIDEO	-92.7	53.3	-172.5	8.0	61.3
657.	REDWOO	13000.0	-44.0	AA1312	1.3	UP	48.8	1.0		6000	27M701	VIDEO	-98.7	54.6	-172.9	8.4	63.0
904.	SKAGGS	13000.0	-44.7	AA1211	0.1	DOWN	47.6	0.0		6000	2Y5K07	VIDEO	-98.9	54.1	-173.5	9.0	63.1
284.	NEWARK	13000.0	-45.5	AA1133	0.3	UP	45.1	0.0		6000	2K7I01	VIDEO	-101.4	55.9	-173.4	8.9	64.7
755.	DIXON	13000.0	-42.7	A12110	0.6	UP	41.5	0.0		25000	2GGF01	VIDEO	-98.8	56.1	-173.2	8.7	64.8
1.	RXONLY	13000.0	-38.2	*13000	0.8	DOWN	45.1	0.0		25000	000000	VIDEO	-95.2	57.0	-173.5	9.0	66.0
46.	WAM603	13000.0	-41.8	AA1033	1.2	DOWN	41.5	0.0		25000	2BVY01	VIDEO	-98.8	57.0	-173.5	9.0	66.0
132.	ELKHOR	13000.0	-37.7	A14720	1.3	UP	47.6	0.0		12500	2K8D01	VIDEO	-95.7	57.9	-172.9	8.4	66.3
2.	PAJARO	13000.0	-40.2	P14200	2.3	UP	47.9	0.0		6000	2K7I01	VIDEO	-98.6	58.4	-172.5	8.0	66.4
208.	WOW98	13000.0	-37.9	P14700	0.2	UP	47.5	0.0		12500	2BVY02	VIDEO	-95.8	57.9	-173.4	8.9	66.8
753.	WGX275	13000.0	-40.4	AA1033	0.4	UP	41.5	0.0	25000F9	25000	24S604	VIDEO	-98.8	58.3	-173.3	8.8	67.1
144.	MONTER	13000.0	-39.5	AA1312	0.3	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	58.2	-173.5	9.0	67.2
40.	WAG953	13000.0	-39.7	P13400	3.8	DOWN	45.1	0.0		12500	2BVY02	VIDEO	-98.2	58.5	-173.5	9.0	67.5
42.	LOMAPR	13000.0	-39.7	P13400	3.8	DOWN	45.1	0.0		12500	2BVY02	VIDEO	-98.2	58.5	-173.5	9.0	67.5
750.	RXONLY	13000.0	-37.5	AA1315	3.9	DOWN	48.8	5.0		25000	2YQ401	VIDEO	-96.5	58.9	-173.5	9.0	67.9
223.	WGX273	13000.0	-39.1	AA1033	1.2	UP	41.5	0.0	25000F9	25000	24S604	VIDEO	-98.8	59.7	-172.9	8.4	68.1
297.	DRYCRE	13000.0	-38.7	A14720	2.4	UP	47.6	0.0		6000	27M705	VIDEO	-98.9	60.2	-172.4	7.9	68.1
574.	ELGRAN	13000.0	-37.6	AA1211	5.4	UP	47.6	0.0		6000	2YAH03	VIDEO	-98.9	61.3	-171.3	6.8	68.1
149.	LOSLAU	13000.0	-32.1	P15700	0.2	DOWN	49.0	0.0		25000	24S604	VIDEO	-91.3	59.2	-173.5	9.0	68.2
95.	WATSON	13000.0	-38.0	P14200	2.9	UP	47.9	0.0		6000	2K7I01	VIDEO	-98.6	60.6	-172.2	7.7	68.3
190.	LATHRO	13000.0	-37.7	P15200	0.1	DOWN	49.4	0.0		6000	2K7I01	VIDEO	-97.1	59.4	-173.5	9.0	68.4
321.	MTOSO	13000.0	-31.4	P15400	0.7	DOWN	49.3	0.0		25000	24SB01	VIDEO	-91.0	59.6	-173.5	9.0	68.6
833.	DOBE	13000.0	-37.5	A15120	0.7	UP	48.8	0.0		6000	2K7I03	VIDEO	-97.7	60.2	-173.2	8.7	68.9
519.	MT TAM	13000.0	-32.6	AA1211	0.9	DOWN	47.6	0.0		25000	24S604	VIDEO	-92.7	60.1	-173.5	9.0	69.1
552.	BLACKM	13000.0	-34.9	P13400	1.1	DOWN	45.1	0.0		25000	2B9D01	VIDEO	-95.2	60.3	-173.5	9.0	69.3
337.	324MID	13000.0	-34.1	AA1103	1.5	UP	45.1	0.0		25000	27CX01	VIDEO	-95.2	61.1	-172.8	8.3	69.4
134.	SOLEDA	13000.0	-32.0	A14110	0.2	DOWN	47.6	0.0		25000	2VJ904	VIDEO	-92.7	60.6	-173.5	9.0	69.6
78.	CAPITO	13000.0	-36.2	P14200	3.7	UP	47.9	0.0		6000	2K7I01	VIDEO	-98.6	62.4	-171.9	7.4	69.8
275.	LOSGAT	13000.0	-36.5	AA1312	0.7	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	61.2	-173.1	8.6	69.8
316.	STOCKT	13000.0	-29.9	P15400	0.5	UP	49.3	0.0		25000	24S602	VIDEO	-91.0	61.0	-173.3	8.8	69.8
782.	ELKGRO	13000.0	-36.7	AA1315	0.2	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	60.9	-173.5	9.0	69.9
290.	ORESTI	13000.0	-28.9	P15400	1.5	UP	49.3	0.0		25000	24S602	VIDEO	-91.0	62.0	-172.8	8.3	70.3
224.	KNIGHT	13000.0	-28.9	P15400	1.4	UP	49.3	0.0		25000	2GGF01	VIDEO	-91.0	62.1	-172.9	8.4	70.4
315.	LINDEN	13000.0	-31.0	P14400	0.3	UP	47.6	0.0		25000	24S602	VIDEO	-92.7	61.6	-173.3	8.8	70.5
928.	LUCASV	13000.0	-39.6	S13006	3.7	DOWN	45.3	0.0		6000	BUF623	VIDEO	-101.2	61.5	-173.5	9.0	70.5
112.	DAYVAL	13000.0	-35.2	P14200	3.8	UP	47.9	0.0		6000	2K7I01	VIDEO	-98.6	63.3	-171.9	7.4	70.7

San Mateo, California

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
453.	SHARON	13000.0	-39.7	AA1133	1.2	DOWN	45.1	0.0		6000	BUF624	VIDEO	-101.4	61.7	-173.5	9.0	70.7
550.	KICU T	13000.0	-38.2	BA0046	1.8	UP	41.5	2.0		25000	TEMP68	VIDEO	-100.8	62.5	-172.7	8.2	70.7
339.	89TH/1	13000.0	-32.3	AA1121	2.5	UP	45.1	0.0		25000	2BVY01	VIDEO	-95.2	62.9	-172.4	7.9	70.8
518.	MT DIA	13000.0	-30.8	AA1211	1.4	DOWN	47.6	0.0		25000	24S604	VIDEO	-92.7	61.9	-173.5	9.0	70.9
903.	RXONLY	13000.0	-30.5	AA1214	0.5	UP	47.6	0.0		25000	2K8D02	VIDEO	-92.7	62.2	-173.3	8.8	70.9
314.	MANTEC	13000.0	-28.6	P15400	0.7	UP	49.3	0.0		25000	24S602	VIDEO	-91.0	62.4	-173.1	8.6	71.0
205.	WAE394	13000.0	-36.1	P13400	0.5	DOWN	45.1	0.0		12500	2B9D01	VIDEO	-98.2	62.1	-173.5	9.0	71.1
851.	DUNNEL	13000.0	-35.3	A15120	0.4	UP	48.8	0.0		6000	2K7I04	VIDEO	-97.7	62.3	-173.3	8.8	71.1
150.	LOSLAU	13000.0	-32.1	P15700	0.2	DOWN	49.0	0.0		12500	24S604	VIDEO	-94.3	62.2	-173.5	9.0	71.2
291.	CRYSTA	13000.0	-33.4	A14720	2.0	DOWN	47.6	0.0		12500	2K8D01	VIDEO	-95.7	62.2	-173.5	9.0	71.2
227.	RXONLY	13000.0	-35.2	M13018	3.2	DOWN	44.7	2.0		25000	2K7801	VIDEO	-97.6	62.3	-173.5	9.0	71.3
233.	WHZ985	13000.0	-30.4	AA1211	2.4	DOWN	47.6	0.0		25000	2B9D02	VIDEO	-92.7	62.3	-173.5	9.0	71.3
355.	HALFMO	13000.0	-35.9	AA1133	0.1	DOWN	45.1	0.0		12500	2BVY02	VIDEO	-98.2	62.3	-173.5	9.0	71.3
824.	BLOSSO	13000.0	-35.4	A15120	0.1	DOWN	48.8	0.0		6000	2K7I04	VIDEO	-97.7	62.3	-173.5	9.0	71.3
887.	MONRIO	13000.0	-35.1	AA1312	0.3	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	62.6	-173.3	8.8	71.4
894.	MONTER	13000.0	-36.1	AA1312	0.3	UP	48.8	1.0		6000	2K7G01	VIDEO	-98.7	62.6	-173.3	8.8	71.4
295.	REDWOO	13000.0	-35.5	A14720	1.9	UP	47.6	0.0		6000	27M705	VIDEO	-98.9	63.4	-172.6	8.1	71.5
369.	SANMAT	13000.0	-35.9	AA1211	1.1	UP	47.6	0.0		6000	2PUQ03	VIDEO	-98.9	63.0	-173.0	8.5	71.5
520.	MILLBR	13000.0	-38.3	AA1133	1.2	UP	45.1	0.0		6000	2PUQ03	VIDEO	-101.4	63.0	-173.0	8.5	71.5
935.	BODEGA	13000.0	-34.8	AA1312	0.6	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	62.8	-173.2	8.7	71.5
406.	WBH841	13000.0	-35.7	AA1211	0.8	UP	47.6	0.0		6000	2PUQ03	VIDEO	-98.9	63.1	-173.1	8.6	71.7
77.	SPGHIL	13000.0	-32.4	*13000	0.1	DOWN	45.1	0.0		25000	24S604	VIDEO	-95.2	62.8	-173.5	9.0	71.8
214.	DANVIL	13000.0	-33.2	AA1312	3.8	UP	48.8	0.0		6000	BUF623	VIDEO	-97.7	64.5	-171.9	7.4	71.9
842.	BOYNTO	13000.0	-38.4	AA1133	0.1	DOWN	45.1	0.0		6000	2K7I01	VIDEO	-101.4	62.9	-173.5	9.0	71.9
877.	MOHRHA	13000.0	-36.0	AA1211	0.1	DOWN	47.6	0.0		6000	2K7G01	VIDEO	-98.9	62.9	-173.5	9.0	71.9
160.	APTOS	13000.0	-33.9	A15120	1.7	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	63.8	-172.7	8.2	72.0
551.	BLACKM	13000.0	-31.9	P13400	1.1	DOWN	45.1	0.0		25000	2B9D02	VIDEO	-95.2	63.3	-173.5	9.0	72.3
317.	STOCKT	13000.0	-29.0	P14400	0.6	UP	47.6	0.0		25000	24S602	VIDEO	-92.7	63.7	-173.2	8.7	72.4
743.	RXONLY	13000.0	-33.4	A12420	5.1	UP	41.4	0.0		25000	2BVY01	VIDEO	-98.9	65.5	-171.4	6.9	72.4
261.	PLEASA	13000.0	-32.7	P15200	1.9	UP	49.4	0.0		6000	2K7G01	VIDEO	-97.1	64.4	-172.6	8.1	72.5
180.	RXONLY	13000.0	-27.6	P15700	0.2	UP	49.0	0.0		25000	24S604	VIDEO	-91.3	63.7	-173.4	8.9	72.6
723.	MTNVIE	13000.0	-33.1	AA1312	1.9	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	64.6	-172.6	8.1	72.7
249.	LIVERM	13000.0	-33.4	A15120	1.1	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	64.3	-173.0	8.5	72.8
754.	RXONLY	13000.0	-34.4	*12000	0.4	UP	41.5	0.0		25000	000000	VIDEO	-98.8	64.3	-173.3	8.8	73.1
151.	SPRING	13000.0	-34.2	AA1211	0.8	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	64.6	-173.1	8.6	73.2
549.	WBN409	13000.0	-27.6	A15210	0.7	DOWN	48.5	0.0		25000	24S604	VIDEO	-91.8	64.2	-173.5	9.0	73.2
666.	MOUNTA	13000.0	-27.0	AA1312	0.6	UP	48.8	0.0		25000	2B9D01	VIDEO	-91.5	64.5	-173.2	8.7	73.2
744.	RXONLY	13000.0	-30.7	AA1133	0.4	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	64.5	-173.3	8.8	73.3
753.	WGR831	13000.0	-40.4	A11401	0.7	DOWN	35.5	0.0	25000F9	25000	24S604	VIDEO	-104.8	64.3	-173.5	9.0	73.3
255.	LIVERM	13000.0	-32.8	A15120	1.1	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	64.9	-173.0	8.5	73.4
736.	SANBRU	13000.0	-28.5	A14210	0.7	DOWN	47.3	0.0		25000	24S607	VIDEO	-93.0	64.5	-173.5	9.0	73.5
158.	SPRING	13000.0	-34.2	AA1211	0.0	UP	47.6	0.0		6000	2PUY01	VIDEO	-98.9	64.6	-173.5	9.0	73.6
226.	WSH20	13000.0	-29.9	A15110	2.0	DOWN	48.8	0.0		12500	2BVY02	VIDEO	-94.5	64.6	-173.5	9.0	73.6
259.	SANRAM	13000.0	-29.9	A15110	2.0	DOWN	48.8	0.0		12500	2BVY03	VIDEO	-94.5	64.6	-173.5	9.0	73.6
223.	WGR832	13000.0	-40.1	A11401	1.5	DOWN	35.5	0.0	25000F9	25000	24S604	VIDEO	-104.8	64.7	-173.5	9.0	73.7
323.	ALAMED	13000.0	-30.1	S14004	1.4	UP	47.8	0.0		12500	24S604	VIDEO	-95.5	65.4	-172.8	8.3	73.7
522.	HILLSB	13000.0	-32.9	AA1312	0.1	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	64.7	-173.4	8.9	73.7

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Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
411.	WALNUT	13000.0	-27.6	AA1211	0.6	UP	47.6	0.0		25000	2ZJL02	VIDEO	-92.7	65.1	-173.2	8.7	73.8
135.	HOLLIS	13000.0	-33.5	AA1211	0.9	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	65.3	-173.1	8.6	73.9
232.	STOCKT	13000.0	-26.6	AA1315	0.1	DOWN	48.8	0.0		25000	2BVY02	VIDEO	-91.5	64.9	-173.5	9.0	73.9
752.	RXONLY	13000.0	-33.6	AA1033	0.6	UP	41.5	0.0		25000	24S604	VIDEO	-98.8	65.2	-173.2	8.7	73.9
142.	HOLLIS	13000.0	-33.5	AA1211	0.5	UP	47.6	0.0		6000	2PUY01	VIDEO	-98.9	65.3	-173.2	8.7	74.1
404.	SAUSAL	13000.0	-35.8	AA1133	1.0	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	65.6	-173.0	8.5	74.1
199.	LOSBAN	13000.0	-26.2	*15000	0.3	DOWN	48.8	0.0		25000	24S602	VIDEO	-91.5	65.3	-173.5	9.0	74.3
234.	WHZ985	13000.0	-30.4	AA1211	2.3	DOWN	47.6	0.0	12500F9	12500	2IH201	VIDEO	-95.7	65.3	-173.5	9.0	74.3
516.	SAN BR	13000.0	-27.4	AA1211	0.7	DOWN	47.6	0.0		25000	24S604	VIDEO	-92.7	65.3	-173.5	9.0	74.3
734.	KICU-T	13000.0	-45.2	AA1350	1.7	DOWN	48.8	16.0	12500F9	12500	24S607	VIDEO	-110.5	65.3	-173.5	9.0	74.3
335.	RXONLY	13000.0	-33.1	*12000	0.5	UP	41.5	0.0		25000	000000	VIDEO	-98.8	65.7	-173.2	8.7	74.4
181.	SANTAC	13000.0	-30.9	A15120	2.5	UP	48.8	0.0		6000	2K7I01	VIDEO	-97.7	66.8	-172.4	7.9	74.6
65.	SANJUA	13000.0	-38.1	AA1033	2.2	UP	41.5	0.0		6000	2K7I01	VIDEO	-105.0	66.8	-172.5	8.0	74.8
299.	MORGAN	13000.0	-32.8	A14110	0.6	UP	47.6	0.0		6000	2K7I03	VIDEO	-98.9	66.1	-173.2	8.7	74.8
44.	SALINA	13000.0	-32.9	*13000	3.2	UP	45.1	5.0	24800F9	25000	2VJ903	VIDEO	-100.2	67.3	-172.1	7.6	74.9
308.	SANFRA	13000.0	-26.6	AA1211	0.3	UP	47.6	0.0		25000	2G4H01	VIDEO	-92.7	66.0	-173.4	8.9	74.9
793.	HILLTO	13000.0	-35.5	AA1103	2.4	DOWN	45.1	0.0		6000	2Y5K07	VIDEO	-101.4	65.9	-173.5	9.0	74.9
210.	SANTAC	13000.0	-33.9	AA1142	2.2	UP	45.1	0.0		6000	2K7I01	VIDEO	-101.4	67.4	-172.5	8.0	75.4
311.	ORINDA	13000.0	-24.3	AA1315	1.2	UP	48.8	0.0		25000	2K7I01	VIDEO	-91.5	67.2	-172.9	8.4	75.6
726.	LUNDYL	13000.0	-30.9	AA1211	3.1	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	68.0	-172.1	7.6	75.6
336.	RXONLY	13000.0	-27.5	S13006	1.3	UP	45.3	0.0		25000	24S604	VIDEO	-95.0	67.4	-172.9	8.4	75.8
47.	LOSLOM	13000.0	-31.4	AA1211	1.2	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	67.5	-172.9	8.4	75.9
220.	MODEST	13000.0	-25.3	AA1211	1.1	UP	47.6	0.0		25000	24S604	VIDEO	-92.7	67.4	-173.0	8.5	75.9
267.	PLEASA	13000.0	-29.7	AA1315	2.2	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	68.0	-172.5	8.0	76.0
639.	FOSTER	13000.0	-31.6	AA1211	0.4	UP	47.6	0.0		6000	2K7G01	VIDEO	-98.9	67.3	-173.3	8.8	76.1
860.	SABAST	13000.0	-30.9	AA1211	1.9	UP	47.6	0.0		6000	2K7G01	VIDEO	-98.9	67.9	-172.6	8.1	76.1
310.	WSH20	13000.0	-24.3	AA1315	0.1	DOWN	48.8	0.0		25000	2ZJL02	VIDEO	-91.5	67.2	-173.5	9.0	76.2
735.	MONUME	13000.0	-24.3	AA1350	1.7	DOWN	48.8	0.0		25000	24S607	VIDEO	-91.5	67.2	-173.5	9.0	76.2
44.	WHG368	13000.0	-32.9	*13000	3.3	DOWN	45.1	5.0	24800F9	25000	2VJ903	VIDEO	-100.2	67.3	-173.5	9.0	76.3
278.	KQF20	13000.0	-27.9	P13400	2.7	DOWN	45.1	0.0		25000	2R1501	VIDEO	-95.2	67.3	-173.5	9.0	76.3
260.	PLEASA	13000.0	-28.7	P15200	1.9	UP	49.4	0.0		6000	2K7G01	VIDEO	-97.1	68.4	-172.6	8.1	76.5
517.	MONUME	13000.0	-25.1	AA1211	1.8	DOWN	47.6	0.0		25000	24S604	VIDEO	-92.7	67.5	-173.5	9.0	76.5
751.	WALNUT	13000.0	-31.2	*12000	0.8	DOWN	41.5	0.0		25000	24S604	VIDEO	-98.8	67.6	-173.5	9.0	76.6
45.	SOLEDA	13000.0	-25.0	A14100	0.2	DOWN	47.6	0.0		25000	000000	VIDEO	-92.7	67.7	-173.5	9.0	76.7
738.	RXONLY	13000.0	-27.3	AA1133	1.0	DOWN	45.1	0.0		25000	NURAD1	VIDEO	-95.2	67.9	-173.5	9.0	76.9
756.	DIXON	13000.0	-33.2	P13200	0.1	DOWN	45.3	0.0		6000	2K7I01	VIDEO	-101.2	68.0	-173.5	9.0	77.0
489.	DOOLIT	13000.0	-32.8	AA1133	0.5	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	68.6	-173.2	8.7	77.3
577.	RXONLY	13000.0	-26.6	*13000	0.6	UP	45.1	0.0		25000	000000	VIDEO	-95.2	68.6	-173.2	8.7	77.3
869.	ROHNER	13000.0	-30.1	AA1211	3.2	UP	47.6	1.0		6000	2K7G01	VIDEO	-99.9	69.7	-172.1	7.6	77.4
870.	ROHPRK	13000.0	-29.1	AA1211	3.2	UP	47.6	0.0		6000	2K7G01	VIDEO	-98.9	69.7	-172.1	7.6	77.4
358.	SANFRA	13000.0	-28.6	AA1142	2.6	UP	45.1	0.0		12500	24S607	VIDEO	-98.2	69.6	-172.4	7.9	77.5
784.	RXONLY	13000.0	-24.2	*14000	0.9	DOWN	47.6	0.0		25000	000000	VIDEO	-92.7	68.5	-173.5	9.0	77.5
447.	DANVIL	13000.0	-28.9	*14000	3.2	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	69.9	-172.1	7.6	77.6
731.	SUNNYV	13000.0	-26.3	A13110	0.6	UP	45.1	0.0		25000	2VJ903	VIDEO	-95.2	68.9	-173.2	8.7	77.6
783.	RXONLY	13000.0	-24.0	*14000	0.8	DOWN	47.6	0.0		25000	24S604	VIDEO	-92.7	68.6	-173.5	9.0	77.6
228.	WRS52	13000.0	-29.5	A13610	2.0	DOWN	45.1	0.0		12500	2BVY02	VIDEO	-98.2	68.7	-173.5	9.0	77.7
19.	OAKHIL	13000.0	-29.5	AA1211	1.0	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	69.4	-173.0	8.5	77.9

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Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
282.	MTNVIE	13000.0	-26.1	P13200	0.1	DOWN	45.3	0.0		25000	2B9D01	VIDEO	-95.0	68.9	-173.5	9.0	77.9
715.	SSANRA	13000.0	-35.1	AA1033	2.0	UP	41.5	0.0		6000	2K7G01	VIDEO	-105.0	69.8	-172.6	8.1	77.9
913.	SONOMA	13000.0	-31.5	AA1133	2.1	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	69.9	-172.5	8.0	77.9
331.	RXONLY	13000.0	-26.1	*13000	0.1	DOWN	45.1	0.0		25000	000000	VIDEO	-95.2	69.1	-173.5	9.0	78.1
732.	CUPERT	13000.0	-26.1	AA1142	0.6	DOWN	45.1	0.0		25000	2B9D01	VIDEO	-95.2	69.1	-173.5	9.0	78.1
733.	CUPERT	13000.0	-26.1	AA1142	0.6	DOWN	45.1	0.0		25000	2B9D02	VIDEO	-95.2	69.1	-173.5	9.0	78.1
29.	2035MA	13000.0	-29.0	AA1211	1.4	UP	47.6	0.0		6000	2PU701	VIDEO	-98.9	69.8	-172.8	8.3	78.2
379.	DANVIL	13000.0	-29.1	P14400	1.2	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	69.7	-172.9	8.4	78.2
802.	PETALU	13000.0	-27.9	A15110	1.2	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	69.8	-172.9	8.4	78.2
509.	TIBURO	13000.0	-31.6	AA1133	0.9	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	69.8	-173.1	8.6	78.3
740.	RXONLY	13000.0	-28.9	AA1033	1.2	UP	41.5	0.0		25000	24S604	VIDEO	-98.8	69.9	-172.9	8.4	78.3
340.	PACIFI	13000.0	-30.9	AA1133	2.4	UP	45.1	0.0		6000	2PUQ03	VIDEO	-101.4	70.5	-172.4	7.9	78.4
391.	CASTRO	13000.0	-30.5	AA1133	3.3	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	70.9	-172.1	7.6	78.5
357.	PALOAL	13000.0	-28.6	AA1142	2.7	DOWN	45.1	0.0		12500	24S607	VIDEO	-98.2	69.6	-173.5	9.0	78.6
431.	WESMOR	13000.0	-34.9	S12500	4.5	DOWN	41.7	0.0		6000	BUF623	VIDEO	-104.8	69.8	-173.5	9.0	78.8
680.	CLYDE	13000.0	-26.8	S15004	1.8	UP	49.0	0.0		6000	2K7I01	VIDEO	-97.5	70.7	-172.7	8.2	78.8
235.	EIGLEB	13000.0	-30.5	A13610	2.3	UP	45.1	0.0		6000	2K7I03	VIDEO	-101.4	70.9	-172.5	8.0	78.9
895.	MTSTHE	13000.0	-27.8	AA1312	0.1	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	69.9	-173.4	8.9	78.9
130.	WHY730	13000.0	-22.1	S14006	0.8	UP	47.8	0.0	25000F9	25000	2YQ402	VIDEO	-92.5	70.4	-173.1	8.6	79.0
240.	EIGLEB	13000.0	-30.5	A13610	1.8	UP	45.1	0.0		6000	2K7I01	VIDEO	-101.4	70.9	-172.6	8.1	79.1
613.	VOLLME	13000.0	-26.7	S13003	0.5	UP	45.2	2.0	25M0 F8W	25000	27CX01	VIDEO	-97.1	70.4	-173.3	8.8	79.1
619.	FOOTHI	13000.0	-30.1	AA1133	2.6	UP	45.1	0.0		6000	2Y7Q04	VIDEO	-101.4	71.3	-172.3	7.8	79.1
280.	KQF20	13000.0	-27.9	P13400	2.7	DOWN	45.1	0.0		12500	2B9D01	VIDEO	-98.2	70.3	-173.5	9.0	79.3
468.	BIGROC	13000.0	-21.2	AA1312	0.6	DOWN	48.8	0.0		25000	24S607	VIDEO	-91.5	70.3	-173.5	9.0	79.3
130.	WLD563	13000.0	-22.1	S14006	1.1	DOWN	47.8	0.0	25000F9	25000	2YQ402	VIDEO	-92.5	70.4	-173.5	9.0	79.4
613.	MTDIAB	13000.0	-26.7	S13003	0.7	DOWN	45.2	2.0	25M0 F8W	25000	27CX01	VIDEO	-97.1	70.4	-173.5	9.0	79.4
169.	PRUNED	13000.0	-34.0	AA1033	0.9	UP	41.5	0.0		6000	2K7I01	VIDEO	-105.0	71.0	-173.1	8.6	79.5
324.	DUBLIN	13000.0	-25.6	A15120	3.2	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	72.0	-172.1	7.6	79.6
342.	LAFAYE	13000.0	-31.2	A12110	6.3	DOWN	41.5	0.0		12500	2GGF02	VIDEO	-101.8	70.6	-173.5	9.0	79.6
749.	RXONLY	13000.0	-24.3	M13019	4.3	DOWN	45.1	0.0		25000	2PSI01	VIDEO	-95.2	70.8	-173.5	9.0	79.8
287.	FREMON	13000.0	-21.7	A14110	0.5	DOWN	47.6	0.0		25000	000000	VIDEO	-92.7	70.9	-173.5	9.0	79.9
467.	WBP236	13000.0	-24.2	A13110	0.8	DOWN	45.1	0.0		25000	2VJ903	VIDEO	-95.2	70.9	-173.5	9.0	79.9
678.	WOX20	13000.0	-20.0	P15400	3.2	DOWN	49.3	0.0		25000	2BVY01	VIDEO	-91.0	70.9	-173.5	9.0	79.9
56.	AROMAS	13000.0	-32.7	AA1033	2.5	UP	41.5	0.0		6000	2K7I01	VIDEO	-105.0	72.2	-172.4	7.9	80.1
399.	SAUSAL	13000.0	-29.8	AA1133	1.0	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	71.6	-173.0	8.5	80.1
742.	RXONLY	13000.0	-23.3	AA1315	0.2	UP	48.8	0.0		12500	24S607	VIDEO	-94.5	71.2	-173.4	8.9	80.1
222.	WGV955	13000.0	-24.6	P14700	0.1	DOWN	47.5	0.0		12500	24S607	VIDEO	-95.8	71.2	-173.5	9.0	80.2
288.	NEWARK	13000.0	-26.6	AA1133	0.7	UP	45.1	0.0		12500	24S605	VIDEO	-98.2	71.6	-173.1	8.6	80.2
816.	RURALN	13000.0	-27.5	AA1211	0.5	UP	47.6	0.0		6000	2K7G01	VIDEO	-98.9	71.4	-173.3	8.8	80.2
618.	JONESS	13000.0	-23.1	AA1133	1.5	UP	45.1	0.0		25000	000000	VIDEO	-95.2	72.0	-172.8	8.3	80.3
201.	234GIS	13000.0	-28.5	P13400	2.9	UP	45.1	3.0		12500	24S607	VIDEO	-101.2	72.7	-172.2	7.7	80.4
451.	FALSTR	13000.0	-30.9	AA1036	0.3	DOWN	41.0	0.0		12500	24S604	VIDEO	-102.3	71.4	-173.5	9.0	80.4
470.	MARINA	13000.0	-29.6	AA1133	0.8	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	71.8	-173.1	8.6	80.4
598.	UNIVER	13000.0	-29.9	AA1133	1.5	DOWN	45.1	0.0		6000	BUF624	VIDEO	-101.4	71.5	-173.5	9.0	80.5
748.	RXONLY	13000.0	-20.7	*14000	0.8	UP	47.6	0.0		25000	000000	VIDEO	-92.7	72.0	-173.1	8.6	80.6
746.	RXONLY	13000.0	-20.9	*14000	1.9	DOWN	47.6	0.0		25000	AB0004	VIDEO	-92.7	71.8	-173.5	9.0	80.8
771.	ELKGRO	13000.0	-25.7	AA1315	0.2	DOWN	48.8	0.0		6000	2K7I01	VIDEO	-97.7	71.9	-173.5	9.0	80.9

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809.	AMERIC	13000.0	-25.4	AA1312	0.7	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	72.3	-173.2	8.7	80.9
246.	MILPIT	13000.0	-29.1	AA1033	9.8	UP	41.5	0.0		6000	2K7I01	VIDEO	-105.0	75.9	-169.6	5.1	81.0
320.	RXONLY	13000.0	-23.0	AA1133	0.4	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	72.2	-173.3	8.8	81.0
921.	CROCKE	13000.0	-29.1	AA1133	0.5	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	72.3	-173.2	8.7	81.1
359.	CABLEO	13000.0	-22.6	AA1133	0.8	UP	45.1	0.0		25000	TEM138	VIDEO	-95.2	72.6	-173.1	8.6	81.2
632.	CORTEM	13000.0	-25.1	A15110	0.8	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	72.6	-173.1	8.6	81.2
542.	PINOLE	13000.0	-25.0	A15120	0.5	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	72.7	-173.3	8.8	81.4
823.	RECEIV	13000.0	-29.0	AA1133	7.5	DOWN	45.1	0.0		6000	2YAH03	VIDEO	-101.4	72.4	-173.5	9.0	81.4
230.	TRACY	13000.0	-21.8	S13008	1.6	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	73.4	-172.7	8.2	81.6
737.	2JACKL	13000.0	-21.9	AA1133	1.1	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	73.2	-173.0	8.5	81.7
408.	WBN409	13000.0	-32.2	A12110	0.9	DOWN	41.5	0.0		6000	2K7G01	VIDEO	-105.0	72.8	-173.5	9.0	81.8
421.	RECEIV	13000.0	-25.9	*12000	0.1	DOWN	41.5	0.0		25000	24S604	VIDEO	-98.8	72.8	-173.5	9.0	81.8
911.	BIGROC	13000.0	-24.9	*15000	0.1	DOWN	48.8	0.0		6000	2K7B01	VIDEO	-97.7	72.8	-173.5	9.0	81.8
128.	RXONLY	13000.0	-25.9	*12000	0.1	DOWN	41.5	0.0		25000	24S604	VIDEO	-98.8	72.9	-173.5	9.0	81.9
697.	ORINDA	13000.0	-25.7	AA1214	0.2	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	73.2	-173.4	8.9	82.1
131.	RXONLY	13000.0	-25.4	*12000	0.1	UP	41.5	0.0		25000	000000	VIDEO	-98.8	73.4	-173.5	9.0	82.3
256.	WLD566	13000.0	-18.9	S14006	0.1	UP	47.8	0.0	25000F9	25000	2YQ402	VIDEO	-92.5	73.6	-173.5	9.0	82.5
667.	MARTIN	13000.0	-22.3	P15400	3.0	UP	49.3	0.0		6000	2K7I01	VIDEO	-97.2	74.8	-172.2	7.7	82.5
256.	WLD570	13000.0	-18.9	S14006	0.3	DOWN	47.8	0.0	25000F9	25000	2YQ402	VIDEO	-92.5	73.6	-173.5	9.0	82.6
466.	WOX20	13000.0	-20.6	AA1306	0.4	UP	48.8	0.0		12500	2BVY01	VIDEO	-94.5	73.9	-173.3	8.8	82.7
912.	WLF534	13000.0	-24.0	S12500	1.2	UP	41.7	0.0	25000F9	25000	24S604	VIDEO	-98.6	74.6	-172.9	8.4	83.0
343.	LAFAYE	13000.0	-24.1	P14400	1.5	UP	47.6	0.0		6000	2K7I02	VIDEO	-98.9	74.8	-172.8	8.3	83.1
410.	RXONLY	13000.0	-22.5	AA1142	3.8	UP	45.1	0.0		12500	2YQ401	VIDEO	-98.2	75.7	-171.9	7.4	83.1
709.	ESANRA	13000.0	-22.8	A15110	1.7	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	74.9	-172.7	8.2	83.1
553.	ALAMED	13000.0	-27.9	AA1036	0.1	UP	41.0	0.0		12500	24S604	VIDEO	-102.3	74.4	-173.4	8.9	83.4
912.	WLG828	13000.0	-24.0	S12500	1.2	DOWN	41.7	0.0	25000F9	25000	24S604	VIDEO	-98.6	74.6	-173.5	9.0	83.6
213.	WPZ22	13000.0	-20.9	AA1214	2.3	DOWN	47.6	0.0		12500	24S607	VIDEO	-95.7	74.7	-173.5	9.0	83.7
244.	MILPIT	13000.0	-20.8	A14110	2.6	DOWN	47.6	0.0		12500	24S607	VIDEO	-95.7	74.8	-173.5	9.0	83.8
363.	SANCAR	13000.0	-23.2	P13200	0.8	DOWN	45.3	0.0		12500	2VJ904	VIDEO	-98.0	74.8	-173.5	9.0	83.8
620.	MORAGA	13000.0	-23.4	P14400	1.1	UP	47.6	0.0		6000	2K7I03	VIDEO	-98.9	75.5	-173.0	8.5	83.9
614.	WALNUT	13000.0	-26.6	P13000	0.0	DOWN	44.8	0.0		6000	000000	VIDEO	-101.7	75.0	-173.5	9.0	84.0
203.	234GIS	13000.0	-21.5		3.0	UP	45.1	0.0		12500	2R1501	VIDEO	-98.2	76.7	-172.2	7.7	84.4
444.	NEWARK	13000.0	-22.2	AA1133	0.7	UP	45.1	0.0		12500	24S607	VIDEO	-98.2	76.0	-173.1	8.6	84.6
785.	FAIRFA	13000.0	-20.2	A15110	3.0	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	77.5	-172.2	7.7	85.2
463.	KPIX	13000.0	-18.8		0.1	UP	45.1	0.0		25000	000000	VIDEO	-95.2	76.4	-173.4	8.9	85.3
197.	MONTPE	13000.0	-22.0	A14110	0.7	UP	47.6	0.0		6000	000000	VIDEO	-98.9	76.9	-173.1	8.6	85.5
595.	RXONLY	13000.0	-18.3	*13000	0.1	UP	45.1	0.0		25000	000000	VIDEO	-95.2	76.9	-173.4	8.9	85.8
219.	SANRAM	13000.0	-20.1	P15200	3.3	DOWN	49.4	0.0		6000	000000	VIDEO	-97.1	76.9	-173.5	9.0	85.9
258.	ALDERC	13000.0	-19.0	A14510	2.2	DOWN	47.3	0.0		12500	2K8D01	VIDEO	-96.0	76.9	-173.5	9.0	85.9
372.	SANRAF	13000.0	-19.5	A15120	2.5	UP	48.8	0.0		6000	2K7G01	VIDEO	-97.7	78.1	-172.4	7.9	86.0
413.	SCMDPR	13000.0	-43.2	1015RF	0.2	DOWN	20.0	0.0		25000	000000	VIDEO	-120.3	77.1	-173.5	9.0	86.1
416.	RXONLY	13000.0	-21.3	AA1033	0.0	DOWN	41.5	0.0		25000	000000	VIDEO	-98.8	77.4	-173.5	9.0	86.4
417.	SANFRA	13000.0	-21.3	AA1033	0.0	DOWN	41.5	0.0		25000	000000	VIDEO	-98.8	77.4	-173.5	9.0	86.4
334.	RXONLY	13000.0	-17.5	*13000	0.4	UP	45.1	0.0		25000	24S604	VIDEO	-95.2	77.7	-173.3	8.8	86.5
578.	RXONLY	13000.0	-14.6	*14000	0.9	UP	47.6	0.0		25000	000000	VIDEO	-92.7	78.1	-173.1	8.6	86.6
209.	SANJOS	13000.0	-17.5	*13000	0.0	DOWN	45.1	0.0		25000	000000	VIDEO	-95.2	77.7	-173.5	9.0	86.7
554.	CLAWIT	13000.0	-22.6	AA1133	1.8	UP	45.1	0.0		6000	2K7G01	VIDEO	-101.4	78.8	-172.7	8.2	86.9

San Mateo, California

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
460.	WHB717	13000.0	-16.9	*13000	0.1	UP	45.1	0.0	F9	25000	000000	VIDEO	-95.2	78.3	-173.5	9.0	87.2
741.	RXONLY	13000.0	-13.7	*14000	1.7	UP	47.6	0.0		25000	000000	VIDEO	-92.7	79.0	-172.7	8.2	87.2
360.	SANBRU	13000.0	-20.3	*12000	0.3	UP	41.5	0.0		25000	000000	VIDEO	-98.8	78.5	-173.3	8.8	87.3
460.	WHB718	13000.0	-16.9	*13000	0.2	DOWN	45.1	0.0	F9	25000	000000	VIDEO	-95.2	78.3	-173.5	9.0	87.3
446.	SANBRU	13000.0	-16.5	P13200	0.1	DOWN	45.3	0.0		25000	24S602	VIDEO	-95.0	78.5	-173.5	9.0	87.5
274.	RXONLY	13000.0	-16.5	AA1133	3.6	DOWN	45.1	0.0		25000	000000	VIDEO	-95.2	78.6	-173.5	9.0	87.6
605.	ANTENN	13000.0	-20.3	A12420	0.1	UP	41.4	0.0		25000	000000	VIDEO	-98.9	78.6	-173.5	9.0	87.6
257.	WLD202	13000.0	-12.3	S14006	2.6	UP	47.8	0.0	25000F9	25000	2YQ402	VIDEO	-92.5	80.1	-172.3	7.8	88.0
792.	FAIRFI	13000.0	-16.2	AA1211	1.6	DOWN	47.6	0.0		12500	24S607	VIDEO	-95.7	79.4	-173.5	9.0	88.4
508.	SANFRA	13000.0	-15.7	AA1133	0.8	DOWN	45.1	0.0		25000	1003	VIDEO	-95.2	79.5	-173.5	9.0	88.5
362.	SANBRU	13000.0	-19.3	A12420	0.0	DOWN	41.4	0.0		25000	24S604	VIDEO	-98.9	79.6	-173.5	9.0	88.6
257.	WLD961	13000.0	-12.3	S14006	2.7	DOWN	47.8	0.0	25000F9	25000	2YQ402	VIDEO	-92.5	80.1	-173.5	9.0	89.1
415.	WGX251	13000.0	-13.2	AA1133	2.3	UP	45.1	0.0		25000	000000	VIDEO	-95.2	82.0	-172.5	8.0	89.9
596.	UNIONC	13000.0	-16.6	AA1133	1.3	UP	45.1	0.0		12500	24S607	VIDEO	-98.2	81.6	-172.9	8.4	89.9
418.	WCT841	13000.0	-13.2	AA1133	2.4	DOWN	45.1	0.0	F9	25000	000000	VIDEO	-95.2	82.0	-173.5	9.0	91.0
368.	SANFRA	13000.0	-11.2	*13000	4.1	UP	45.1	0.0		25000	000000	VIDEO	-95.2	84.0	-171.8	7.3	91.2
365.	SANFRA	13000.0	-15.7	A13420	3.3	DOWN	45.1	0.0		12500	2VJ904	VIDEO	-98.2	82.5	-173.5	9.0	91.5
452.	RXONLY	13000.0	-16.0	P12200	0.0	DOWN	41.7	0.0		25000	000000	VIDEO	-98.6	82.5	-173.5	9.0	91.5
419.	KMB91	13000.0	-10.1	AA1133	4.7	UP	45.1	0.0	F9	25000	000000	VIDEO	-95.2	85.0	-171.6	7.1	92.1
361.	SANBRU	13000.0	-15.4	A12110	0.2	UP	41.5	0.0		25000	000000	VIDEO	-98.8	83.4	-173.4	8.9	92.3
696.	KQED	13000.0	-15.3	*12000	0.2	UP	41.5	0.0		25000	000000	VIDEO	-98.8	83.5	-173.4	8.9	92.4
371.	VANNES	13000.0	-9.9	P13200	1.8	UP	45.3	0.0	F9	25000	000000	VIDEO	-95.0	85.1	-172.7	8.2	93.3
419.	WCX623	13000.0	-10.1	AA1133	4.7	DOWN	45.1	0.0	F9	25000	000000	VIDEO	-95.2	85.0	-173.5	9.0	94.0
573.	RXONLY	13000.0	-12.5	R13300	3.8	DOWN	42.2	0.0		25000	24SS04	VIDEO	-98.1	85.6	-173.5	9.0	94.6
371.	WBX243	13000.0	-9.9	R13200	1.9	DOWN	44.4	0.0	F9	25000	000000	VIDEO	-95.9	86.0	-173.5	9.0	95.0
745.	RXONLY	13000.0	-12.2	AA1033	0.4	UP	41.5	0.0		25000	000000	VIDEO	-98.8	86.5	-173.3	8.8	95.3
461.	BATTER	13000.0	5.6		8.7	UP	45.1	0.0		25000	000000	VIDEO	-95.2	100.8	-170.0	5.5	106.3
409.	WBX242	13000.0	9.3	P13200	10.8	UP	45.3	0.0	F9	25000	000000	VIDEO	-95.0	104.3	-169.3	4.8	109.1
366.	SANFRA	13000.0	8.9	*13000	2.5	UP	45.1	0.0		25000	000000	VIDEO	-95.2	104.1	-172.4	7.9	112.0
409.	WGV716	13000.0	9.3	P13200	10.8	DOWN	45.3	0.0	F9	25000	000000	VIDEO	-95.0	104.3	-173.5	9.0	113.3
422.	RECSFR	13000.0	-20.6	O10000	0.0	DOWN	13.0	0.0		25000	MOBILE	VIDEO	-127.3	106.7	-173.5	9.0	115.7
420.	RECEIV	13000.0	16.3	*12000	0.0	DOWN	41.5	0.0		25000	24S604	VIDEO	-98.8	115.1	-173.5	9.0	124.1

New Orleans, Louisiana

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
1.	RXONLY	13000.0	-96.8	010000	0.3	DOWN	13.0	0.0		25000	24S604	VIDEO	-127.3	30.4	-173.5	9.0	39.4
269.	MOBRX	13000.0	-76.7	N31000	0.2	DOWN	26.0	0.0		25000	2YFH01	VIDEO	-114.3	37.6	-173.5	9.0	46.6
259.	SAUCIE	13000.0	-46.9	S15003	0.2	DOWN	49.0	0.0		6000	BUF651	VIDEO	-97.5	50.6	-173.5	9.0	59.6
82.	SCARRO	13000.0	-74.2	010000	0.3	UP	13.0	0.0	F9	25000	000000	VIDEO	-127.3	53.1	-173.3	8.8	61.9
82.	METAIR	13000.0	-74.2	010000	0.4	DOWN	13.0	0.0	F9	25000	000000	VIDEO	-127.3	53.1	-173.5	9.0	62.1
170.	LOCKPO	13000.0	-43.6	AA1312	0.2	DOWN	48.8	0.0		6000	BUF612	VIDEO	-97.7	54.1	-173.5	9.0	63.1
161.	LAROSE	13000.0	-42.3	AA1312	0.2	DOWN	48.8	0.0		6000	BUF612	VIDEO	-97.7	55.4	-173.5	9.0	64.4
86.	LEEVIL	13000.0	-42.1	AA1312	0.2	DOWN	48.8	0.0		6000	BUF612	VIDEO	-97.7	55.6	-173.5	9.0	64.6
123.	CHENIE	13000.0	-41.2	AA1312	0.2	DOWN	48.8	0.0		6000	BUF612	VIDEO	-97.7	56.5	-173.5	9.0	65.5
188.	FOURCH	13000.0	-38.2	AA1312	0.2	DOWN	48.8	0.0		6000	BUF612	VIDEO	-97.7	59.5	-173.5	9.0	68.5
117.	HARAHA	13000.0	-38.4	AA1133	0.3	DOWN	45.1	0.0		12500	2BVY02	VIDEO	-98.2	59.8	-173.5	9.0	68.8
225.	DULAC	13000.0	-37.8	AA1211	0.1	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	61.1	-173.5	9.0	70.1
183.	MONTEG	13000.0	-37.7	AA1211	0.1	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	61.2	-173.5	9.0	70.2
118.	CHAUVI	13000.0	-37.5	AA1211	0.1	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	61.4	-173.5	9.0	70.4
99.	TERRYT	13000.0	-35.3	A15120	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	62.4	-173.5	9.0	71.4
94.	TERRYT	13000.0	-34.3	A15120	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	63.4	-173.5	9.0	72.4
131.	THERIO	13000.0	-35.5	AA1211	0.2	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	63.4	-173.5	9.0	72.4
238.	BAYOUL	13000.0	-35.4	AA1211	0.2	DOWN	47.6	0.0		6000	2K7I01	VIDEO	-98.9	63.4	-173.5	9.0	72.4
235.	AVONDA	13000.0	-33.6	A15120	0.3	DOWN	48.8	0.0		6000	2PU701	VIDEO	-97.7	64.0	-173.5	9.0	73.0
244.	ALLENR	13000.0	-33.5	AA1312	0.3	DOWN	48.8	0.0		6000	BUF8WS	VIDEO	-97.7	64.2	-173.5	9.0	73.2
65.	HARVE	13000.0	-33.0	A15120	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	64.7	-173.5	9.0	73.7
61.	MARRER	13000.0	-32.6	A15120	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	65.1	-173.5	9.0	74.1
243.	ALLENR	13000.0	-32.4	AA1312	0.3	DOWN	48.8	0.0		6000	BUF8WS	VIDEO	-97.7	65.3	-173.5	9.0	74.3
201.	GRETNA	13000.0	-35.5	AA1133	0.4	DOWN	45.1	0.0		6000	2PU701	VIDEO	-101.4	65.8	-173.5	9.0	74.8
44.	BARATA	13000.0	-31.6	AA1312	0.1	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	66.0	-173.5	9.0	75.0
8.	LAFITT	13000.0	-31.5	AA1312	0.2	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	66.2	-173.5	9.0	75.2
197.	BOURG	13000.0	-35.4	BA0046	0.2	DOWN	41.5	0.0		12500	27CX02	VIDEO	-101.8	66.4	-173.5	9.0	75.4
213.	BRIDGE	13000.0	-34.8	AA1133	0.3	DOWN	45.1	0.0		6000	2PU701	VIDEO	-101.4	66.5	-173.5	9.0	75.5
35.	KENR	13000.0	-30.5	A15120	0.2	DOWN	48.8	0.0		6000	2PUY01	VIDEO	-97.7	67.1	-173.5	9.0	76.1
216.	CROWNP	13000.0	-27.2	AA1413	0.1	DOWN	50.9	0.0		6000	2K7G01	VIDEO	-95.6	68.4	-173.5	9.0	77.4
71.	HARVEY	13000.0	-29.1	A15120	0.2	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	68.6	-173.5	9.0	77.6
204.	GRETNA	13000.0	-36.1	AA1033	0.4	UP	41.5	0.0		6000	2PU701	VIDEO	-105.0	68.8	-173.3	8.8	77.6
102.	TERRYT	13000.0	-28.8	A15120	0.2	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	68.9	-173.5	9.0	77.9
198.	GRETNA	13000.0	-32.2	AA1133	0.5	DOWN	45.1	0.0		6000	2PU701	VIDEO	-101.4	69.2	-173.5	9.0	78.2
112.	GIBSON	13000.0	-29.5	AA1211	0.2	UP	47.6	0.0		6000	2K7I01	VIDEO	-98.9	69.4	-173.4	8.9	78.3
81.	BAYOUB	13000.0	-32.0	BA0046	0.3	DOWN	41.5	0.0		12500	27CX02	VIDEO	-101.8	69.7	-173.5	9.0	78.7
20.	WESTWE	13000.0	-31.6	AA1133	0.4	DOWN	45.1	0.0		6000	2PU701	VIDEO	-101.4	69.8	-173.5	9.0	78.8
54.	LAROSE	13000.0	-25.8	A13110	0.2	DOWN	45.1	0.0		12500	24S604	VIDEO	-98.2	72.4	-173.5	9.0	81.4
179.	BOURG	13000.0	-25.8	A13110	0.2	DOWN	45.1	0.0		12500	24S604	VIDEO	-98.2	72.4	-173.5	9.0	81.4
55.	MARRER	13000.0	-32.5	AA1033	0.5	DOWN	41.5	0.0		6000	2PU701	VIDEO	-105.0	72.5	-173.5	9.0	81.5
203.	GRETNA	13000.0	-28.8	AA1133	0.6	DOWN	45.1	0.0		6000	2PU701	VIDEO	-101.4	72.6	-173.5	9.0	81.6
137.	KENNER	13000.0	-24.7	A15120	0.2	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	73.0	-173.5	9.0	82.0
3.	GRANDI	13000.0	-22.4	A14110	0.2	DOWN	47.6	0.0		12500	24S604	VIDEO	-95.7	73.3	-173.5	9.0	82.3
152.	METAIR	13000.0	-25.4	AA1211	0.4	UP	47.6	0.0		6000	2K7G01	VIDEO	-98.9	73.5	-173.3	8.8	82.3
17.	TERRYT	13000.0	-24.2	A15110	0.3	DOWN	48.8	0.0		6000	2PU701	VIDEO	-97.7	73.5	-173.5	9.0	82.5
23.	WOODLA	13000.0	-31.5	AA1033	0.6	DOWN	41.5	0.0		6000	2PU701	VIDEO	-105.0	73.5	-173.5	9.0	82.5
58.	MARRER	13000.0	-30.3	AA1033	0.6	DOWN	41.5	0.0		6000	2PU701	VIDEO	-105.0	74.7	-173.5	9.0	83.7

New Orleans, Louisiana

Rec. Num.	Call Sign	Freq. (Mhz)	C (dBm)	Antenna Type	Tilt (Deg.)	Ang.	Gain (dBi)	LL (dB)	Emission Desig.	Bw (Khz)	Equip. Code	Loading	I (dBm)	C/I (dB)	Pwr.Flx (dBW/4Khz)	Adj.I (dB)	Adj.C/I (dB)
210.	GRETNA	13000.0	-30.3	AA1033	0.3	DOWN	41.5	0.0		6000	2PU701	VIDEO	-105.0	74.7	-173.5	9.0	83.7
230.	AVON	13000.0	-26.2	*13000	0.7	UP	45.1	0.0		6000	2PUY01	VIDEO	-101.4	75.2	-173.2	8.7	83.8
169.	BAYOUB	13000.0	-20.5	A14110	0.2	DOWN	47.6	0.0		12500	24S604	VIDEO	-95.7	75.2	-173.5	9.0	84.2
196.	BOURG	13000.0	-20.5	A14110	0.2	DOWN	47.6	0.0		12500	24S604	VIDEO	-95.7	75.2	-173.5	9.0	84.2
139.	KENNER	13000.0	-21.7	A15120	0.2	DOWN	48.8	0.0		6000	2K7G01	VIDEO	-97.7	75.9	-173.5	9.0	84.9
26.	WAGGAM	13000.0	-24.9	AA1133	0.7	DOWN	45.1	0.0		6000	2K7G01	VIDEO	-101.4	76.5	-173.5	9.0	85.5
85.	ASSUMP	13000.0	-22.5	S14003	0.2	DOWN	47.5	0.0		6000	2PU701	VIDEO	-99.0	76.5	-173.5	9.0	85.5
182.	GOLDEN	13000.0	-18.7	A14110	0.2	DOWN	47.6	0.0		12500	24S604	VIDEO	-95.7	77.0	-173.5	9.0	86.0
181.	BAYOUC	13000.0	-24.1	BA0046	0.2	DOWN	41.5	0.0		12500	27CX02	VIDEO	-101.8	77.7	-173.5	9.0	86.7
40.	CHEFME	13000.0	-15.9	AA1315	0.3	DOWN	48.8	0.0		12500	24S604	VIDEO	-94.5	78.6	-173.5	9.0	87.6
42.	CANALS	13000.0	-15.9	AA1315	0.2	DOWN	48.8	0.0		12500	24S604	VIDEO	-94.5	78.6	-173.5	9.0	87.6
4.	KABEDR	13000.0	-14.9	AA1315	0.2	DOWN	48.8	0.0		12500	24S604	VIDEO	-94.5	79.6	-173.5	9.0	88.6
6.	CHEFME	13000.0	-14.9	AA1315	0.4	DOWN	48.8	0.0		12500	24S604	VIDEO	-94.5	79.6	-173.5	9.0	88.6
84.	LAF2	13000.0	-18.8	S14003	0.2	DOWN	47.5	0.0		6000	2PU701	VIDEO	-99.0	80.2	-173.5	9.0	89.2
136.	WWLTVS	13000.0	-18.1	*12000	0.0	DOWN	41.5	0.0		25000	24ST01	VIDEO	-98.8	80.6	-173.5	9.0	89.6
53.	GARDEN	13000.0	-12.5	*13000	0.6	UP	45.1	0.0		25000	000000	VIDEO	-95.2	82.7	-173.2	8.7	91.3
180.	SOJEFF	13000.0	-14.6	A12420	3.1	UP	41.4	0.0		25000	2K8D02	VIDEO	-98.9	84.3	-172.2	7.7	92.0
83.	WVUE	13000.0	-12.6	A12420	3.1	UP	41.4	0.0		25000	24S604	VIDEO	-98.9	86.3	-172.2	7.7	94.0

D

APPENDIX D

AUXILIARY BROADCAST ELECTRONIC NEWS GATHERING (ENG) ANALYSIS IN THE 6425 - 6525 MHz, 6725 - 7125 MHz AND 12.75 - 13.25 GHz BANDS

D.1 Introduction

In this section we shall assess the interference effects from a single Globalstar satellite into different configurations of electronic new gathering (ENG) and TV pick-up. Upon calculating the carrier-to-interference power ratio, C/I, we can determine when the conditions will permit sharing between a Globalstar satellite's downlink and the ENG/TV pick-up operations in the 6425 - 6525 MHz, 6875 - 7125 MHz and 12.75 - 13.25 GHz bands.

D.2 ENG Configurations Analyses

Electronic news gathering (ENG), or TV pick-up, and electronic field production (EFP), rely on a field positioned van, a fixed or an airborne station to transmit an event to a central location. The central location could be a high rise building. A more prevalent receive site is the TV transmitter tower [9]. Irrespective of where is the receive site, it is important to note that the receive site is very high which allows accessibility to the ENG field-located units. The second important issue to note is on the receive system configuration at the central site, in terms of radios and antennas. Our analysis will address configurations I through IV given by Table D.2-1.

	Antenna Configuration	Radio Configuration	Frequency Band
I.	Four 90° sector-switched building mounted	Equipped with pre-amplifier and junction box	6425 - 6525 MHz and 6875 - 7125 MHz
II.	Tower mounted offset fed parabola with (29.5" x 18.5") parabola size	Equipped with or without LNA	6425 - 6525 MHz and 6875 - 7125 MHz
III.	Tower mounted (> 300 ft) csc^2 1.4 meter antenna	Equipped with LNA	6425 - 6525 MHz and 6875 - 7125 MHz
IV.	Tower mounted 6 ft parabolic antenna	Radio mounted behind antenna	12.75 - 13.25 GHz

Table D.2-1
Different ENG Central Receive Site Configurations

The field located van, fixed or airborne equipment will be assumed to operate with adequate effective radiated power and parameters not to exceed those described in [1] §74.636 and §74.641.

D2.1 Calculation of Carrier-to-Interference Power Ratio for ENG

Utilizing the method presented in Section 2.1.3.2, we can conclude the line-of-sight carrier-to-interference power ratio, C/I (dB) with a Globalstar satellite. While the central receive antenna is mounted at large heights, partial obstructions may occur along the transmission path which lowers the desired received carrier level, thus lowering the C/I power ratios. We shall take a similar approach, which is traditional, to that addressing broadcast operations in [9] and [10].

D2.2 Introduction of Fade Margin, Obstruction Losses, and Rain Attenuation

The carrier level may suffer additional losses due to obstruction and rain. Thus,

$$C_{ENG} = C - x - \beta \text{ (dBm)} \qquad \text{(D-1)}$$

where

C is the received carrier level in (dBm) as calculated in Equation 2-15.

x is the obstruction loss (dB) and,

β is the total rain attenuation (dB)

A similar treatment can be applied to the interfering signal. Though, to arrive at worst case, we shall assume the interfering path does not suffer obstruction or rain attenuation. This approach will also yield minimum C_{ENG}/I power ratios.

The microwave path reliability is calculated based on several parameters. One of these parameters is the fade margin. The FM-Video thermal fade margin is defined as follows:

$$\text{Fade Margin} = C - \text{Threshold (dB)} \qquad \text{(D-2)}$$

where

C is the received carrier power at the input to the receiver (dBm)

and

Threshold is the equivalent received carrier level which

produces a 30 dB signal-to-noise power ratio, S/N, in the baseband (dBm).

Typical values of radio thresholds were obtained from [12].

Typical thermal fade margins for ENG in the 7 GHz band may range from 25 dB - 40 dB dependent on event duration, path clearance and frequency availability. The 12.75 - 13.25 GHz band requires a 40 dB - 45 dB fade margin.

D2.3 ENG Configurations Performance

Our analysis objective is to determine for typical system configurations where is the break point at which the C/I objective (as given in Section 2.1.2.1.1) will not be met.

D2.3.1 Configuration I

Center receive site has four (4) 90° sector-switched building-mounted antennas.

The radio racks are assumed placed at antenna level. The system is equipped with a pre-amplifier which is utilized to solely compensate for the branching losses. The threshold of the radios is -84 dBm.

The remote unit is assumed to utilize an adequate effective radiated power not exceeding 35 dBm [1, §74.636] and an emission of 20 MHz in the 6875 - 7125 MHz band and the 6425 - 6525 MHz band [1, §74.637].

Each 90° sectored antenna is assumed to exhibit a 13 dBi of main beam gain. The vertical half power beamwidth is 13°. Now we need to determine the maximum antenna gain coupled with the maximum satellite flux density in the antenna's direction. Based on maximum PFD of -164.5 dBw/m^2/4 kHz, 7 GHz, a 20 MHz receiver, no directivity, and no fixed losses, equation 2-17 of section 2.1.3 yields:

$$I_R = -172.9 + 13 - 0 + 37 = -122.9 \text{ dBm}$$

Elevation Angle (degrees)	PFd dBw/4kHz/m^2 (1)	Interference Power (dBm)	Antenna Directivity (dB) (2)	Modified I_R (dBm)
0	-173.5	-131.9	0	-131.9
5	-171.5	-129.9	0	-129.9
10	-169.5	-127.9	3	-130.9
15	-168.5	-126.9	10	-136.9
20	-166.5	-124.9	17	-141.9
25	-165.5	-123.9	15	-138.9
>30	-164.5	-122.9	>15	<-137.9

Table D.2.3.1-1
Maximum Interference Power Determination for 7 GHz ENG
Four 90° Sectored Antenna Configuration with 20 MHz receivers.

Note 1: Power flux density of a single Globalstar mobile satellite.

Note 2: Typical antenna directivity in the vertical plane was applied.

Table D.2.3.1-1 shows the maximum interference power occurring when the satellite is close to the horizon with I_R = -129.9 dBm (note that the original interference power was modified by antenna directivity). Now we can determine the effect of a single satellite interference on configuration I.

Fade Margin (dB)	Obstruction Losses (dB)	ENG Receive Carrier Level (dBm)	C/I (dB)[2]	C/I Objective (dB)[1]
40	0	-44	85.9	54
34	6	-50	79.9	54
29	11	-55	74.9	54
23	17	-61	68.9	54
17	23	-67	62.9	54
11	29	-73	56.9	54
8.1	31.9	-75.9	54	54
5	35	-79	50.9	54
0	40	-84	45.9	54

Table D.2.3.1-2
Performance of Configuration I for 7 GHz ENG
Four 90° sectored antennas, with dominant path obstructions and one interfering Globalstar satellite.

Note 1: C/I (dB) objective is given in Section 2.1.2.1.1.

Note 2: No polarization discrimination was applied. ENG deployed polarizations may include linear (V,H), and circular (RH, LH).

Based on Table D.2.3.1-2, we can meet the objective of 54 dB with only an 8 dB fade margin. Note that the 54 dB C/I is based on 77 dB of S/N with allowable degradation not more than 0.5 dB [4, pp 129].

During instantaneous deep fades up to 40 dB, and with no other interferers present, we expect the Globalstar interfering signal of -129.9 dBm (45.9 dB below the threshold) to have very minimal effect on the ENG path.

D2.3.2 Configuration II

Center receive configuration has an offset fed parabolic antenna with approximate dimensions of 3 ft x 2 ft. An elliptical waveguide is employed. The radio has a 20 MHz bandwidth with or without a low noise amplifier (LNA)[1].

The antenna main beam gain is 30 dBi with half power vertical beamwidth of approximately 7.5°. The LNA is assumed to only compensate for any fixed losses.

We shall proceed in evaluating this configuration with the effects of obstruction (and rain) and the presence of a Globalstar satellite. Following the method developed for the earlier configuration, we can construct the following tables:

Elevation Angle (degrees)	PFd ($dBW/m^2/4$ kHz)	Interference Power I_R (dBm)(1)	Antenna Directivity (dB)(2)	Modified I_R (dBm)
0	-173.5	-114.9	0	-114.9
5	-171.5	-112.9	3	-115.9
10	-169.5	-110.9	15	-125.9
15	-168.5	-109.9	30	-139.9
20	-166.5	-107.9	30	-137.9
25	-165.5	-106.9	30	-136.9
>30	-164.5	-105.9	>32	<-137.9

Table D.2.3.2-1
Maximum Interference Power Determination for 7 GHz ENG.
Center receive site employs an offset fed paraboloid.

Note 1: $I_R = -172.9 + 30 - 0 + 37 = -105.9$ dBm with no directivity.

Note 2: Antenna beamwidth is approximately 7.5°. Vertical pattern is assumed 6 dB worse than typical horizontal pattern.

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1 Note that upon computing the C/I as shown in Section 2.1.2, the contributions of fixed losses, waveguide and other connectors, as well as the LNA will be canceled. These effects need to be considered when the interference objective is characterized by the interference power level only, especially when the LNA gain over compensates for the fixed losses.

Therefore, based on Table D.2.3.2-1, the worst case interference level occurs at the horizon with I_R = -114.9 dBm (30.9 dB below the threshold of -84 dBm).

We proceed to evaluate configuration II under path obstruction (and rain) and in the presence with a Globalstar satellite.

Fade Margin (dB)	Obstruction Losses (dB)	Receive Carrier Level (dBm)	C/I (dB)(2)	C/I Objective (dB)(1)
40	0	-44	70.9	54
34	6	-50	64.9	54
29	11	-55	59.9	54
23	17	-61	53.9	54
17	23	-67	47.9	54
11	29	-73	41.9	54
5	35	-79	35.9	54
0	40	-84	30.9	54

Table D.2.3.2-2
Performance of Configuration II for 7 GHz ENG.
Center receive site employing an offset fed paraboloid (3 ft x 2 ft) with a 20 MHz receiver.

Note 1: C/I objective (dB) is given by in Section 2.1.2.1.1.

Note 2: No polarization discrimination was applied. ENG deployed polarizations may include linear (V,H), and circular (RH, LH).

The C/I objective will be met with a 23 dB fade margin. Customarily the ENG path, for short events, may tolerate a 25 dB fade margin. For this criteria, an interference objective will always be met. Should instantaneous deep fades up to 40 dB occur, the calculated S/N becomes (from equation 2-2b, Section 2.1.2.1.1)

$$S/N = 30.9 + 23.44 = 54.34 \text{ dB}$$

The combination of 54.34 with a S/N of 30 dB yields a 30 dB S/N [7, pp 42 -44]. Thus, the single Globalstar will not cause an outage when the ENG goes into a fade equal to 40 dB. Also, the threshold will not be degraded by more than 1 dB.

D2.3.3 <u>Configuration III</u>

Center receive site has a cosecant squared (csc^2) 1.4 meter antenna with LNA.

The main beam gain of the csc^2 1.4 meter antenna is 36 dBi. the radiation pattern referencing a half beamwidth of 3.8°, behaves like a cosecant-squared.

Thus, the gain pattern follows the formula [13, p 35 and 36]

$$G(\phi) = G(\phi_o) \frac{\csc^2\phi}{\csc^2\phi_o} \qquad \phi_o < \phi < \phi_1 \qquad \text{(D-3)}$$

where

$G(\phi)$ is the gain at angle ϕ, ϕ_o and ϕ_1 are the limits of the cosecant-squared beam. Converting to decibels.

$$10 \log [G(\phi)] = 10 \log [G(\phi_o)] + 10 \log \frac{\csc^2\phi}{\csc^2\phi_o} \text{ (dB)} \qquad \text{(D-4)}$$

where

$10 \log [G(\phi_o)] = -3$ dB and $\phi_o = 1.9°$.

Elevation Angle (degrees)	PFD (dBW/m^2/4 kHz)	Interference Power, I_R (dBm)[1]	Antenna Directivity (dB)	Modified I_R (dBm)
0	-173.5	-108.9	0	-108.9
5	-171.5	-106.9	7.3	-114.2
10	-169.5	-104.9	15.6	-120.5
15	-168.5	-103.9	19.7	-123.6
20	-166.5	-101.9	22.4	-124.3
25	-165.5	-100.9	24.5	-125.4
>30	-164.5	-99.9	>26	<-125.9

Table 2.3.3-1
Maximum Interference Power Determination for 7 GHz ENG
Center receive site employs a cosecant-squared vertical pattern.

Note 1: $I_R = -172.9 + 36 - 0 + 37 = -99.9$ dBm

Assumed no directivity.

20 MHz receive bandwidth assumed.

Antenna gain is 36 dBi.

Fade Margin (dB)	Obstruction Losses (dB)	Receive Carrier Level (dBm)	C/I (dB)[2]	C/I Objective (dB)[1]
40	0	-44	64.9	54
34	6	-50	58.9	54
29	11	-55	53.9	54
23	17	-61	47.9	54
17	23	-67	41.9	54
11	29	-73	35.9	54
5	35	-79	30.9	54
0	40	-84	24.9	54

Table 2.3.3-2
Performance of Configuration III for 7 GHz ENG.
Center receive site employing a cosecant-squared vertical pattern with a 20 MHz receiver.

Note 1: C/I objective (dB) is given in Section 2.1.2.1.1.

Note 2: No polarization discrimination was applied. ENG may employ linear (V,H), and circular (RH, LH) polarizations.

Table 2.3.3-2 shows that paths designed for no less than 25 dB fade margin, the C/I will not be less than 49.9 dB. The C/I is given by C/I = S/N - 23.44 (equation 2-2b, Section 2.1.2.1.1), then for a C/I of 49.9 dB, the combined S/N is 73.34 dB. Thus, the S/N short haul objective of 67 dB [7, pp 30] is degraded by 1 dB instead of the desired 0.5 dB [4, pp 129]. The additional degradation should not significantly affect the ENG performance. Also, the threshold will not be degraded by more than 1 dB.

When the ENG path suffers from an instantaneous fade of 40 dB, the result of combining 48.34 dB S/N (for 24.9 dB C/I the S/N is 48.34 dB) and 30 dB S/N results in 30 dB S/N [7, pp 42 - 44] which will not result in an outage due to the satellite's signal present. Also, the threshold will not be degraded by more than 1 dB.

D2.3.4 Configuration IV

Center receive site operates in the 12.75 - 13.25 GHz frequency band and employs a 6 foot diameter parabolic antenna. The RF received signal is assumed to be demodulated at antenna height to avoid any losses.