

KQST(FM) 275C0
Sedona, AZ
Proposed Minor Modification
Of Licensed Facility

The instant application is being contemporaneously and contingently filed with 301 Applications submitted by the following parties:

Yavapai Broadcasting Corporation (“Yavapai”), licensee of KQST(FM) Sedona, AZ
Smoke and Mirrors, LLC (“Smoke”), licensee of KFTT(FM) Bagdad, AZ
RBG Licenses of Las Vegas, LLC (“RBG”), licensee of KVGS(FM) Laughlin, NV
Steven M. Greeley (“Greeley”), licensee of KJJJ(FM) Lake Havasu City, AZ

In its application, Yavapai proposes to modify the antenna site coordinates of KQST(FM) and downgrade from Channel 275C to 275C0. In order for the KQST(FM) change to occur, Smoke proposes a Channel Substitution for KFTT(FM) of Channel 299C3 in place of Channel 276C3. In order for the KFTT(FM) channel change to occur, RBG proposes to change KVGS(FM)’s community of license from Laughlin, NV, to Meadview, AZ, and modify both its reference coordinates and its antenna site coordinates. In order for to provide continuing local transmission service at Laughlin, NV, upon KVGS(FM)’s community change to Meadview, Greeley proposes that KJJJ(FM) shall, first, change its community of license from Lake Havasu City, AZ, to Laughlin, NV, modify its reference coordinates and antenna site, and upgrade from Channel 272C2 to mutually exclusive Channel 272C1. Consequently, each of the four applications is contingent upon the others.

KQST(FM), by this application, proposes to modify its currently licensed facilities to specify a new antenna site using the following parameters:

Channel:	275
Class:	C0
Antenna Coordinates:	N34-41-11, 112-07-02 (NAD 27)
Reference Coordinates:	N34-55-08, W111-41-23 (NAD 27)
ASRN:	Not Applicable
Tower Height AMSL:	60 m
COR AMSL:	2388 m
COR AGL:	56 m
COR HAAT:	799 m
ERP:	22.5 kW
Directional Antenna:	NO

The instant application proposes a one-step downgrade for KQST from Channel 275C to Channel 275C0. As such, a fully spaced reference coordinate in accordance with Section 73.207 must be provided. The applicant has selected the following coordinates for the one-step downgrade:

KQST(FM) 73.207 Reference Coordinates: N34-55-08, W111-41-23 (NAD 27)

Exhibit 1 is a channel spacings study from these reference coordinates demonstrating that the proposed facility is fully spaced towards all applications, authorizations, and permits pursuant to Section 73.207 with the exception of being shortspaced to KFTT(FM) 276C3 Bagdad, AZ. In order to eliminate this shortspacing, Smoke and Mirrors LLC., licensee of KFTT(FM), contingently proposes a channel substitution of Channel 299C3 in place of 276C3. Exhibit 2 is a city-grade contour map from the proposed reference site easily demonstrating requisite coverage of Sedona, AZ.

As can be seen in Exhibit 3, KQST's community of license, Sedona, AZ, entirely within the FCC predicted F(50,50) 70 dBu contour using the facilities proposed herein. Exhibit 4 is an antenna site channel spacings study demonstrating that the proposed facility is fully spaced towards all applications, authorizations, and permits pursuant to Section 73.207 with the exception of KFTT(FM) 276C3 Bagdad; an errant CDBS entry to delete Channel 276C at Hurricane, UT; a counterproposal in MB Docket 05-263, now dismissed, to add Channel 276C0 at Desert Hills, AZ, a counterproposal in MB Docket 05-263, now dismissed, to add Channel 277A at Ash Fork, AZ, KCDX(FM) 276C1 Florence, AZ, and the unused Vacant Allotment at Quartzsite, AZ on Channel 275C3. As mentioned above, in order to eliminate the KFTT(FM) shortspacing, Smoke and Mirrors LLC., licensee of KFTT(FM), contingently proposes a channel substitution of Channel 299C3 in place of 276C3 at its current site. And, since the applicant requests Section 73.215 Contour protection processing towards KCDX(FM) and the unused Vacant Allotment on Channel 275C3 at Quartzsite, the proposed antenna site is otherwise fully spaced pursuant to all other authorizations, proposals, and reserved uses under Section 73.207.

KQST(FM) may request 73.215 Contour Protection towards KCDX(FM) as it complies with the minimum separation requirements towards the first adjacent station at its proposed antenna site. The channel spacings study in Exhibit 4 shows that the proposed KQST(FM) 275C0 Antenna Location is spaced 193.89 kilometers from KCDX(FM). In order to be eligible for 73.215 Contour Protection, the minimum "C0 to C1" spacings for first adjacent stations must be at least 176 kilometers. The proposed KQST(FM) 275C0 Antenna Location satisfies this requirement by 17.89 kilometers.

KQST(FM) may request 73.215 Contour Protection towards the Vacant Allotment on Channel 275C3 at Quartzsite, AZ, as it complies with the minimum separation requirements towards the co-channel station at its proposed antenna site. The channel spacings study in Exhibit 4 shows that the proposed KQST(FM) 275C0 Antenna Location is spaced 225.33 kilometers from the Vacant Allotment. In order to be eligible for 73.215 Contour Protection, the minimum "C0 to C3" spacings for co-channel stations must be at least 215 kilometers. The proposed KQST(FM) 275C0 Antenna Location satisfies this requirement by 10.33 kilometers.

Using the facilities proposed herein, KQST(FM) 275C0 complies with the Contour Protection requirements of Part 73.215 towards KCDX(FM) and the Vacant Allotment at Quartzsite. The attached overlap tabulation studies in Exhibits 5 and 8 demonstrate that this application complies with the Contour Protection Requirements of Section 73.215

In reviewing the attached studies, it should be noted that since KCDX(FM) is classified as a Section 73.215 Station, the following overlap studies were conducted assuming it actual facilities where “Maximized” Class C3 Facilities – 25 kW at an HAAT of 199 meters – were assumed for the Vacant Allotment at Quartzsite.

Using the KQST(FM) 275C0 technical parameters proposed in this application, Exhibit 8 demonstrates that the F(50,50) 60 dBu Contour for KQST(FM) does not overlap the F(50,10) 54 dBu Interfering Contour of KCDX(FM). Likewise, Exhibit 9 demonstrates that the F(50,50) 60 dBu Contour for KCDX(FM) does not overlap the F(50,10) 54 dBu Interfering Contour of the instant KQST(FM) application on 275C0.

Using the KQST(FM) 275C0 technical parameters proposed in this application, Exhibit 8 demonstrates that the F(50,50) 60 dBu Contour for KQST(FM) does not overlap the F(50,10) 40 dBu Interfering Contour of the Vacant Allotment at Quartzsite. Likewise, Exhibit 9 demonstrates that the F(50,50) 60 dBu Contour for the Vacant Allotment at Quartzsite does not overlap the F(50,10) 40 dBu Interfering Contour of the instant KQST(FM) application on 275C0.

The proposed antenna site utilizes an existing tower which does not require FAA Registration or NEPA/SHPO notification.

Due to the fact that several existing and proposed emitters are located at or near the site, the applicant agrees to conduct a Radiofrequency Electromagnetic Field survey at the site upon construction to ensure that any areas at ground level that exceed the Commission’s exposure guideline values are appropriately marked and fenced. The results of the survey will be provided with the application for license. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

The proposed facility should be exempt from environmental processing because the facility would not be located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules.

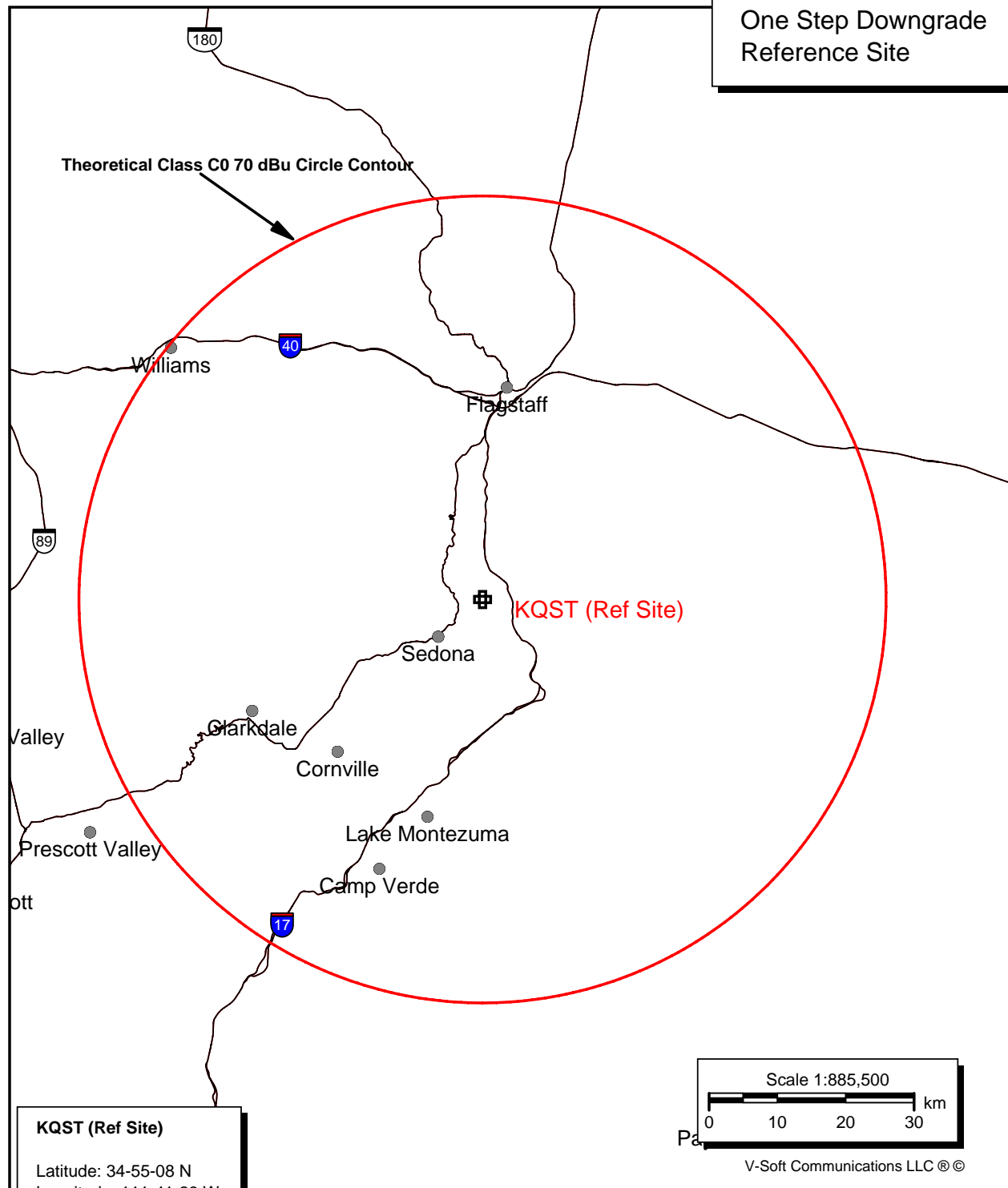
KQST 275C0
Reference Site Channel Study

REFERENCE 34 55 08 N. CLASS = C0 Int = C
111 41 23 W. Current Spacings

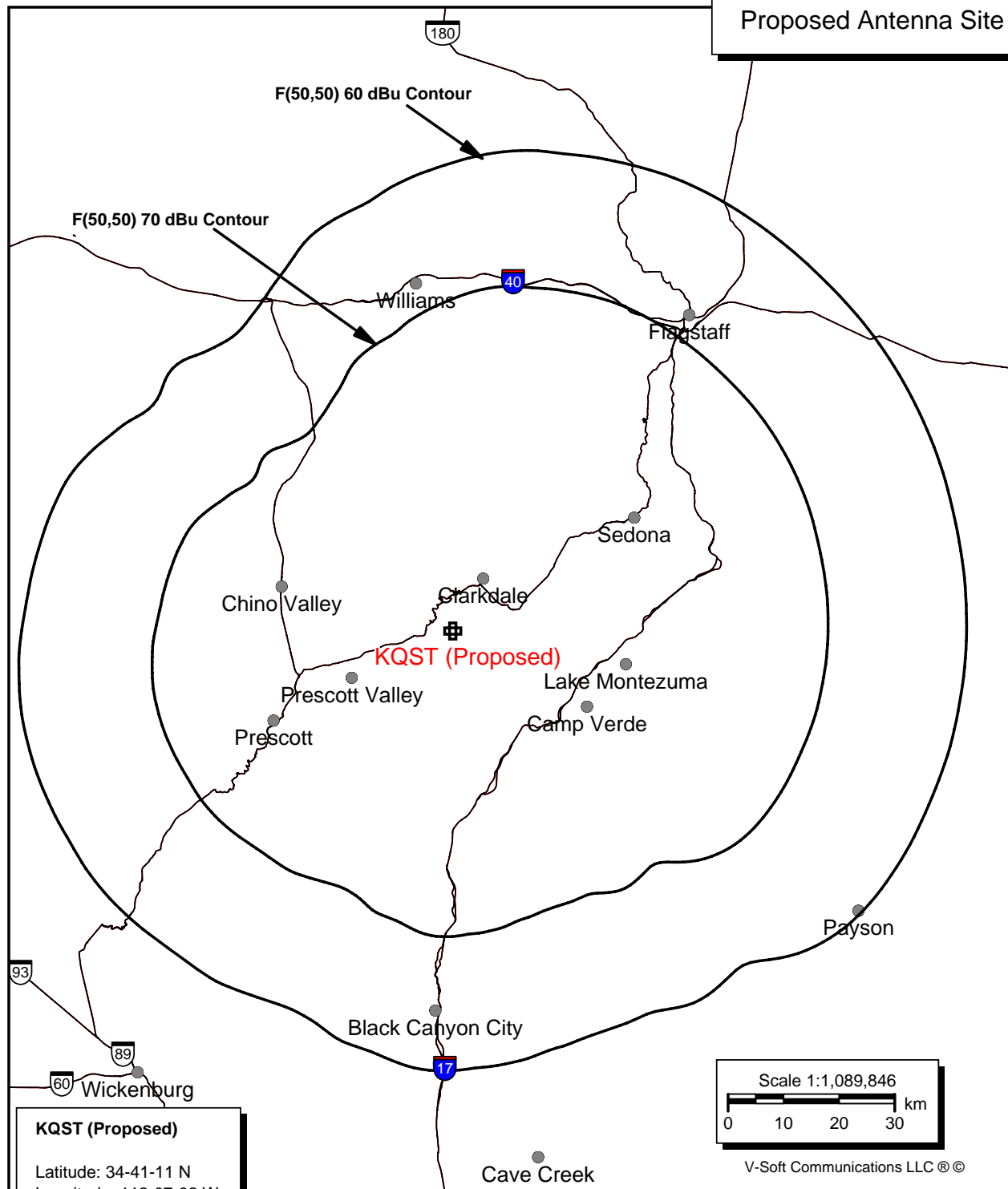
DI SPLAY DATES
DATA 01-10-07
SEARCH 01-19-07

----- Channel 275 - 102.9 MHz -----

Call	Channel	Location	Azi	Dist	FCC	Margin
KQST	LIC 275C	Sedona	AZ 71.7	17.46	281.0	-263.54
Of no Concern: Currently authorized KQST Facilities						
RDEL	DEL 276C	Hurricane	UT 302.8	193.37	220.0	-26.63
Of no Concern: Errant Entry						
RDEL	DEL 276C3	Bagdad	AZ 254.2	147.33	163.0	-15.67
KFTT	LIC-N 276C3	Bagdad	AZ 254.8	149.89	163.0	-13.11
Of Concern: Substitute Channel 299C3 contingently proposed for KFTT.						
KCDX	LIC-N 276C1	Florence	AZ 156.3	196.03	196.0	0.03
RADD	ADD 277A	Ash Fork	AZ 297.0	86.94	86.0	0.94
KZKE	CP -N 277C3	Seligman	AZ 295.0	107.84	87.0	20.84
RDEL	DEL 277C3	Seligman	AZ 295.0	107.84	87.0	20.84
KZKE	LIC 277A	Seligman	AZ 295.0	107.84	86.0	21.84
AL3981	RSV 276C	Florence	AZ 163.7	243.23	220.0	23.23
RADD	ADD 276C0	Desert Hills	AZ 260.4	232.53	207.0	25.53
KZKE	RSV 277C3	Seligman	AZ 296.4	112.77	87.0	25.77
KCDX	APP-D 276C	Florence	AZ 164.0	246.71	220.0	26.71
RADD	ADD 276C	Kanab	UT 342.6	247.91	220.0	27.91
RADD	ADD 276C	Kanab	UT 342.6	247.91	220.0	27.91
AL5595	VAC 273C1	Grand Canyon Village	AZ 341.6	131.98	94.0	37.98
RDEL	DEL 275C3	Quartzsite	AZ 239.8	272.11	226.0	46.11
AL1221	VAC 275C3	Quartzsite	AZ 239.8	272.11	226.0	46.11
RS2379	RSV 276C	Hurricane	UT 323.4	268.74	220.0	48.74
NEW	CP 276C	Hurricane	UT 323.4	268.74	220.0	48.74
RDEL	DEL 276C	Hurricane	UT 323.4	268.74	220.0	48.74
KLNZ	LIC 278C	Glendale	AZ 209.3	168.44	105.0	63.44
AU7052118	VAC 278C3	Taylor	AZ 108.6	154.94	87.0	67.94
KNIX-FM	LIC 273C	Phoenix	AZ 191.2	179.30	105.0	74.30

**KQST 275C0 Sedona, AZ
One Step Downgrade
Reference Site****KQST (Ref Site)**

Latitude: 34-55-08 N
Longitude: 111-41-23 W
ERP: 100.00 kW
HAAT: 301.0 m
Channel: 275 C0
Frequency: 102.9 MHz
AMSL Height: 2179.9 m
Elevation: 1800.65 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

**KQST 275C0 Sedona, AZ
Proposed Antenna Site****KQST (Proposed)**

Latitude: 34-41-11 N
Longitude: 112-07-02 W
ERP: 22.50 kW
HAAT: 799.0 m
Channel: 275 C0
Frequency: 102.9 MHz
AMSL Height: 2388.0 m
Elevation: 2332.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

KQST(FM) 275C0
Antenna Site Spacings Study

REFERENCE						DISPLAY DATES		
34 41 11 N.		CLASS = CO		Int = C		DATA	01-10-07	
112 07 02 W.		Current		Spacings		SEARCH	01-19-07	
----- Channel 275 - 102.9 MHz -----								
Call		Channel	Location		Azi	Dist	FCC	Margin
ALLO	USE	275C	Sedona	AZ	57.9	38.48	281.0	-242.52
KQST	LIC	275C	Sedona	AZ	60.4	63.89	281.0	-217.11
Of no Concern: Current KQST Authorization.								
RDEL	DEL	276C3	Bagdad	AZ	261.8	103.61	163.0	-59.39
KFTT	LIC-N	276C3	Bagdad	AZ	262.5	106.38	163.0	-56.62
ALLO	USE	276C3	Bagdad	AZ	258.7	114.09	163.0	-48.91
Of Concern: Channel 299C3 contingently proposed for KFTT's use.								
RDEL	DEL	276C	Hurricane	UT	316.4	179.46	220.0	-40.54
Of no Concern: Errant CDBS Entry.								
RADD	ADD	276C0	Desert Hills	AZ	265.9	190.57	207.0	-16.43
Of no Concern: Proposal to add Channel 276C0 at Desert Hills in MB Docket 05-263 has been dismissed.								
RADD	ADD	277A	Ash Fork	AZ	329.3	75.49	86.0	-10.51
Of no Concern: Proposal to add Channel 277A at Ash Fork in MB Docket 05-263 has been dismissed.								
KCDX	LIC-N	276C1	Florence	AZ	142.3	193.89	196.0	-2.11
Applicant requests 73.215 Contour Protection processing towards this station.								
RDEL	DEL	275C3	Quartzsite	AZ	240.3	225.33	226.0	-0.67
AL1221	VAC	275C3	Quartzsite	AZ	240.3	225.33	226.0	-0.67
Applicant requests 73.215 Contour Protection processing towards this station.								
KZKE	CP -N	277C3	Seligman	AZ	320.4	92.20	87.0	5.20
RDEL	DEL	277C3	Seligman	AZ	320.4	92.20	87.0	5.20
KZKE	LIC	277A	Seligman	AZ	320.4	92.20	86.0	6.20
KZKE	RSV	277C3	Seligman	AZ	320.5	97.75	87.0	10.75
ALLO	USE	277A	Seligman	AZ	316.1	99.14	86.0	13.14
AL3981	RSV	276C	Florence	AZ	152.5	233.94	220.0	13.94
KCDX	APP-D	276C	Florence	AZ	153.0	237.08	220.0	17.08
ALLO	USE	278C	Glendale	AZ	193.9	124.42	105.0	19.42
KLNZ	LIC	278C	Glendale	AZ	199.4	128.63	105.0	23.63
RADD	ADD	276C	Kanab	UT	352.1	264.55	220.0	44.55
RADD	ADD	276C	Kanab	UT	352.1	264.55	220.0	44.55
ALLO	USE	275C2	Hurricane	UT	340.6	284.07	239.0	45.07
KNIX-FM	LIC	273C	Phoenix	AZ	178.1	150.21	105.0	45.21
ALLO M	USE	273C	Phoenix	AZ	178.1	150.21	105.0	45.21
NEW	CP	276C	Hurricane	UT	333.1	270.00	220.0	50.00
RDEL	DEL	276C	Hurricane	UT	333.1	270.00	220.0	50.00
RS2379	RSV	276C	Hurricane	UT	333.1	270.00	220.0	50.00
AL5595	VAC	273C1	Grand Canyon Village	AZ	358.8	150.92	94.0	56.92
ALLO	USE	274C	Boulder City	NV	301.1	288.90	220.0	68.90

Exhibit 5

01-19-2007 30 Sec. Terrain Data

KQST Proposed
Channel = 275C0
Max ERP = 22.5 kW
RCAMSL = 2388 M
N. Lat = 344111.0
W. Lng = 1120702.0

KCDX BLH19990702KE
Channel = 276C1
Max ERP = 2.7 kW
RCAMSL = 2280 M
N. Lat = 33 17 55
W. Lng = 110 50 28

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
063.0	022.5000	1235.1	092.6	349.9	002.7000	1026.1	199.1	28.7
064.0	022.5000	1235.9	092.6	350.1	002.7000	1026.1	197.6	29.0
065.0	022.5000	1236.4	092.6	350.2	002.7000	1026.1	196.0	29.2
066.0	022.5000	1236.7	092.6	350.4	002.7000	1026.1	194.4	29.5
067.0	022.5000	1237.2	092.7	350.5	002.7000	1026.1	192.9	29.8
068.0	022.5000	1237.8	092.7	350.6	002.7000	1032.0	191.3	30.1
069.0	022.5000	1238.1	092.7	350.7	002.7000	1032.0	189.7	30.4
070.0	022.5000	1237.7	092.7	350.8	002.7000	1032.0	188.1	30.7
071.0	022.5000	1236.9	092.6	350.8	002.7000	1032.0	186.5	31.0
072.0	022.5000	1235.7	092.6	350.9	002.7000	1032.0	184.9	31.4
073.0	022.5000	1234.1	092.6	351.0	002.7000	1032.0	183.3	31.7
074.0	022.5000	1232.0	092.6	351.0	002.7000	1032.0	181.7	32.0
075.0	022.5000	1229.9	092.5	351.1	002.7000	1032.0	180.1	32.3
076.0	022.5000	1228.0	092.5	351.1	002.7000	1032.0	178.5	32.7
077.0	022.5000	1226.6	092.5	351.1	002.7000	1032.0	176.9	33.0
078.0	022.5000	1226.0	092.5	351.2	002.7000	1032.0	175.3	33.3
079.0	022.5000	1226.1	092.5	351.2	002.7000	1032.0	173.7	33.7
080.0	022.5000	1226.3	092.5	351.2	002.7000	1032.0	172.1	34.0
081.0	022.5000	1226.6	092.5	351.2	002.7000	1032.0	170.5	34.4
082.0	022.5000	1226.8	092.5	351.2	002.7000	1032.0	168.9	34.8
083.0	022.5000	1227.0	092.5	351.2	002.7000	1032.0	167.2	35.1
084.0	022.5000	1227.2	092.5	351.1	002.7000	1032.0	165.6	35.5
085.0	022.5000	1226.8	092.5	351.1	002.7000	1032.0	164.0	35.9
086.0	022.5000	1225.5	092.5	351.0	002.7000	1032.0	162.4	36.3
087.0	022.5000	1223.9	092.4	351.0	002.7000	1032.0	160.8	36.7
088.0	022.5000	1222.2	092.4	350.9	002.7000	1032.0	159.2	37.1
089.0	022.5000	1221.3	092.4	350.8	002.7000	1032.0	157.6	37.5
090.0	022.5000	1220.4	092.4	350.7	002.7000	1032.0	156.0	37.9
091.0	022.5000	1219.3	092.4	350.6	002.7000	1032.0	154.4	38.3
092.0	022.5000	1217.4	092.3	350.5	002.7000	1026.1	152.9	38.6
093.0	022.5000	1215.2	092.3	350.3	002.7000	1026.1	151.3	39.0
094.0	022.5000	1213.0	092.3	350.2	002.7000	1026.1	149.7	39.4
095.0	022.5000	1209.9	092.2	350.0	002.7000	1026.1	148.2	39.8
096.0	022.5000	1206.1	092.2	349.8	002.7000	1026.1	146.7	40.2
097.0	022.5000	1202.3	092.1	349.6	002.7000	1026.1	145.2	40.6
098.0	022.5000	1198.8	092.1	349.4	002.7000	1019.9	143.6	40.9
099.0	022.5000	1196.2	092.0	349.1	002.7000	1019.9	142.1	41.3
100.0	022.5000	1193.8	092.0	348.9	002.7000	1019.9	140.7	41.7
101.0	022.5000	1190.9	091.9	348.6	002.7000	1019.9	139.2	42.1
102.0	022.5000	1187.6	091.9	348.3	002.7000	1015.0	137.7	42.5
103.0	022.5000	1183.9	091.8	348.0	002.7000	1015.0	136.3	42.8
104.0	022.5000	1178.7	091.7	347.7	002.7000	1015.0	134.9	43.2
105.0	022.5000	1172.7	091.6	347.4	002.7000	1011.5	133.5	43.6
106.0	022.5000	1166.8	091.5	347.0	002.7000	1011.5	132.2	43.9
107.0	022.5000	1160.6	091.4	346.6	002.7000	1011.5	130.8	44.3
108.0	022.5000	1154.6	091.3	346.2	002.7000	1008.5	129.5	44.6
109.0	022.5000	1148.8	091.2	345.8	002.7000	1008.5	128.2	45.0
110.0	022.5000	1143.4	091.1	345.4	002.7000	1003.8	127.0	45.3
111.0	022.5000	1138.7	091.1	344.9	002.7000	1003.8	125.7	45.6
112.0	022.5000	1134.6	091.0	344.4	002.7000	0995.5	124.5	45.9
113.0	022.5000	1130.6	090.9	344.0	002.7000	0995.5	123.3	46.3
114.0	022.5000	1126.2	090.8	343.5	002.7000	0985.4	122.1	46.5
115.0	022.5000	1121.3	090.7	342.9	002.7000	0985.4	121.0	46.8
116.0	022.5000	1115.7	090.6	342.4	002.7000	0973.4	119.9	47.0
117.0	022.5000	1109.2	090.5	341.8	002.7000	0973.4	118.9	47.3
118.0	022.5000	1102.3	090.4	341.2	002.7000	0959.3	117.9	47.5
119.0	022.5000	1095.1	090.3	340.6	002.7000	0959.3	116.9	47.7
120.0	022.5000	1087.6	090.1	340.0	002.7000	0945.1	116.0	47.9

121.0	022.5000	1079.4	090.0	339.3	002.7000	0933.2	115.2	48.0
122.0	022.5000	1070.1	089.8	338.6	002.7000	0933.2	114.4	48.2
123.0	022.5000	1059.7	089.6	337.9	002.7000	0925.1	113.6	48.4
124.0	022.5000	1047.9	089.3	337.2	002.7000	0918.4	112.9	48.5
125.0	022.5000	1034.7	089.1	336.5	002.7000	0910.3	112.3	48.6
126.0	022.5000	1019.9	088.8	335.7	002.7000	0910.3	111.8	48.7
127.0	022.5000	1002.8	088.4	334.9	002.7000	0899.7	111.4	48.7
128.0	022.5000	0982.7	088.0	334.1	002.7000	0887.5	111.1	48.7
129.0	022.5000	0959.8	087.5	333.3	002.7000	0874.9	110.9	48.6
130.0	022.5000	0934.9	087.0	332.5	002.7000	0862.8	110.8	48.5
131.0	022.5000	0908.6	086.4	331.7	002.7000	0862.8	110.8	48.5
132.0	022.5000	0880.9	085.7	330.8	002.7000	0850.8	110.9	48.4
133.0	022.5000	0851.7	084.9	330.0	002.7000	0837.3	111.2	48.1
134.0	022.5000	0820.7	084.1	329.1	002.7000	0822.6	111.6	47.9
135.0	022.5000	0788.2	083.1	328.3	002.7000	0809.4	112.2	47.6
136.0	022.5000	0755.1	082.1	327.5	002.7000	0800.1	112.9	47.3
137.0	022.5000	0723.6	081.0	326.7	002.7000	0800.1	113.7	47.1
138.0	022.5000	0698.4	080.2	325.9	002.7000	0794.2	114.4	46.8
139.0	022.5000	0683.7	079.6	325.2	002.7000	0789.0	114.7	46.7
140.0	022.5000	0679.6	079.5	324.5	002.7000	0782.5	114.8	46.6
141.0	022.5000	0681.7	079.6	323.8	002.7000	0782.5	114.6	46.6
142.0	022.5000	0685.2	079.7	323.1	002.7000	0774.3	114.5	46.6
143.0	022.5000	0688.7	079.8	322.4	002.7000	0766.0	114.3	46.5
144.0	022.5000	0691.2	079.9	321.7	002.7000	0766.0	114.3	46.5
145.0	022.5000	0692.1	079.9	321.0	002.7000	0760.0	114.3	46.4
146.0	022.5000	0690.6	079.9	320.3	002.7000	0758.9	114.5	46.4
147.0	022.5000	0685.8	079.7	319.7	002.7000	0758.9	114.9	46.3
148.0	022.5000	0676.7	079.4	319.0	002.7000	0762.8	115.4	46.2
149.0	022.5000	0664.6	078.9	318.4	002.7000	0768.3	116.1	46.1
150.0	022.5000	0651.1	078.4	317.8	002.7000	0768.3	116.9	45.8
151.0	022.5000	0637.4	077.9	317.2	002.7000	0772.6	117.7	45.7
152.0	022.5000	0626.2	077.5	316.6	002.7000	0772.6	118.5	45.5
153.0	022.5000	0620.5	077.3	316.0	002.7000	0776.7	119.1	45.3
154.0	022.5000	0619.3	077.2	315.4	002.7000	0784.0	119.5	45.3
155.0	022.5000	0618.7	077.2	314.8	002.7000	0784.0	120.0	45.2
156.0	022.5000	0617.8	077.1	314.2	002.7000	0793.2	120.5	45.1
157.0	022.5000	0616.0	077.1	313.6	002.7000	0793.2	121.1	45.0
158.0	022.5000	0613.9	077.0	313.1	002.7000	0801.0	121.8	44.9
159.0	022.5000	0612.1	076.9	312.5	002.7000	0801.0	122.4	44.7
160.0	022.5000	0611.1	076.9	312.0	002.7000	0805.9	123.1	44.6
161.0	022.5000	0611.0	076.9	311.4	002.7000	0809.0	123.7	44.4
162.0	022.5000	0611.8	076.9	310.9	002.7000	0809.0	124.4	44.3
163.0	022.5000	0614.0	077.0	310.4	002.7000	0810.9	125.0	44.1
164.0	022.5000	0617.7	077.1	309.8	002.7000	0810.9	125.7	43.9
165.0	022.5000	0620.7	077.3	309.3	002.7000	0811.5	126.4	43.8
166.0	022.5000	0621.5	077.3	308.8	002.7000	0811.5	127.1	43.5
167.0	022.5000	0624.0	077.4	308.3	002.7000	0810.8	127.9	43.3
168.0	022.5000	0628.9	077.6	307.8	002.7000	0810.8	128.6	43.1
169.0	022.5000	0635.3	077.8	307.3	002.7000	0809.3	129.3	42.9
170.0	022.5000	0641.9	078.1	306.8	002.7000	0809.3	130.1	42.7
171.0	022.5000	0646.0	078.2	306.3	002.7000	0807.3	130.9	42.5
172.0	022.5000	0648.6	078.3	305.8	002.7000	0807.3	131.8	42.2
173.0	022.5000	0651.8	078.4	305.4	002.7000	0803.5	132.8	41.9
174.0	022.5000	0654.2	078.5	305.0	002.7000	0803.5	133.7	41.6
175.0	022.5000	0656.5	078.6	304.6	002.7000	0803.5	134.7	41.4
176.0	022.5000	0657.3	078.7	304.2	002.7000	0796.2	135.8	41.0
177.0	022.5000	0658.3	078.7	303.9	002.7000	0796.2	136.9	40.7
178.0	022.5000	0662.2	078.8	303.5	002.7000	0785.3	137.9	40.3
179.0	022.5000	0665.9	079.0	303.1	002.7000	0785.3	139.0	40.0
180.0	022.5000	0668.5	079.1	302.8	002.7000	0785.3	140.1	39.7
181.0	022.5000	0669.1	079.1	302.5	002.7000	0774.2	141.2	39.3
182.0	022.5000	0669.5	079.1	302.2	002.7000	0774.2	142.4	38.9
183.0	022.5000	0669.6	079.1	301.9	002.7000	0774.2	143.6	38.6
184.0	022.5000	0666.7	079.0	301.7	002.7000	0774.2	144.9	38.3
185.0	022.5000	0662.7	078.9	301.5	002.7000	0774.2	146.2	37.9
186.0	022.5000	0656.8	078.6	301.4	002.7000	0764.8	147.5	37.5
187.0	022.5000	0648.4	078.3	301.3	002.7000	0764.8	148.9	37.1
188.0	022.5000	0639.6	078.0	301.2	002.7000	0764.8	150.3	36.8
189.0	022.5000	0630.9	077.7	301.1	002.7000	0764.8	151.7	36.4
190.0	022.5000	0622.2	077.3	301.1	002.7000	0764.8	153.0	36.1
191.0	022.5000	0615.1	077.0	301.0	002.7000	0764.8	154.4	35.7
192.0	022.5000	0610.5	076.9	300.9	002.7000	0764.8	155.7	35.4
193.0	022.5000	0606.8	076.7	300.8	002.7000	0764.8	157.0	35.1
194.0	022.5000	0603.8	076.6	300.7	002.7000	0764.8	158.4	34.8
195.0	022.5000	0599.3	076.4	300.6	002.7000	0764.8	159.7	34.4

Exhibit 6

01-19-2007 30 Sec. Terrain Data

KCDX BLH19990702KE
 Channel = 276C1
 Max ERP = 2.7 kW
 RCAMSL = 2280 M
 N. Lat = 33 17 55
 W. Lng = 110 50 28

KQST Proposed
 Channel = 275C0
 Max ERP = 22.5 kW
 RCAMSL = 2388 M
 N. Lat = 344111.0
 W. Lng = 1120702.0

Protected
 60 dBu

Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
305.0	002.7000	0803.5	060.9	150.2	022.5000	0651.1	137.0	48.1
306.0	002.7000	0807.3	061.0	149.9	022.5000	0651.1	136.4	48.2
307.0	002.7000	0809.3	061.1	149.5	022.5000	0664.6	135.9	48.5
308.0	002.7000	0810.8	061.1	149.0	022.5000	0664.6	135.5	48.6
309.0	002.7000	0811.5	061.2	148.6	022.5000	0664.6	135.1	48.7
310.0	002.7000	0810.9	061.1	148.2	022.5000	0676.7	134.7	49.0
311.0	002.7000	0809.0	061.1	147.8	022.5000	0676.7	134.5	49.1
312.0	002.7000	0805.9	061.0	147.3	022.5000	0685.8	134.3	49.2
313.0	002.7000	0801.0	060.9	146.9	022.5000	0685.8	134.1	49.3
314.0	002.7000	0793.2	060.6	146.4	022.5000	0690.6	134.1	49.3
315.0	002.7000	0784.0	060.4	145.9	022.5000	0690.6	134.1	49.3
316.0	002.7000	0776.7	060.2	145.5	022.5000	0692.1	134.2	49.4
317.0	002.7000	0772.6	060.0	145.0	022.5000	0692.1	134.1	49.4
318.0	002.7000	0768.3	059.9	144.6	022.5000	0692.1	134.1	49.4
319.0	002.7000	0762.8	059.8	144.1	022.5000	0691.2	134.2	49.3
320.0	002.7000	0758.9	059.6	143.7	022.5000	0691.2	134.2	49.3
321.0	002.7000	0760.0	059.7	143.2	022.5000	0688.7	134.1	49.3
322.0	002.7000	0766.0	059.8	142.8	022.5000	0688.7	133.9	49.4
323.0	002.7000	0774.3	060.1	142.3	022.5000	0685.2	133.6	49.4
324.0	002.7000	0782.5	060.3	141.9	022.5000	0685.2	133.4	49.5
325.0	002.7000	0789.0	060.5	141.4	022.5000	0681.7	133.3	49.5
326.0	002.7000	0794.2	060.7	141.0	022.5000	0681.7	133.2	49.5
327.0	002.7000	0800.1	060.8	140.5	022.5000	0679.6	133.1	49.5
328.0	002.7000	0809.4	061.1	140.0	022.5000	0679.6	133.0	49.5
329.0	002.7000	0822.6	061.5	139.6	022.5000	0679.6	132.8	49.6
330.0	002.7000	0837.3	061.9	139.1	022.5000	0683.7	132.6	49.7
331.0	002.7000	0850.8	062.2	138.6	022.5000	0683.7	132.5	49.7
332.0	002.7000	0862.8	062.5	138.1	022.5000	0698.4	132.4	49.9
333.0	002.7000	0874.9	062.8	137.6	022.5000	0698.4	132.4	49.9
334.0	002.7000	0887.5	063.1	137.1	022.5000	0723.6	132.4	50.2
335.0	002.7000	0899.7	063.4	136.6	022.5000	0723.6	132.5	50.2
336.0	002.7000	0910.3	063.6	136.1	022.5000	0755.1	132.6	50.6
337.0	002.7000	0918.4	063.8	135.6	022.5000	0755.1	132.8	50.5
338.0	002.7000	0925.1	063.9	135.2	022.5000	0788.2	133.1	50.8
339.0	002.7000	0933.2	064.1	134.7	022.5000	0788.2	133.4	50.8
340.0	002.7000	0945.1	064.3	134.2	022.5000	0820.7	133.7	51.1
341.0	002.7000	0959.3	064.6	133.7	022.5000	0820.7	133.9	51.0
342.0	002.7000	0973.4	064.9	133.2	022.5000	0851.7	134.2	51.3
343.0	002.7000	0985.4	065.2	132.8	022.5000	0851.7	134.5	51.2
344.0	002.7000	0995.5	065.4	132.3	022.5000	0880.9	134.9	51.3
345.0	002.7000	1003.8	065.5	131.9	022.5000	0880.9	135.4	51.2
346.0	002.7000	1008.5	065.6	131.4	022.5000	0908.6	135.9	51.3
347.0	002.7000	1011.5	065.7	131.0	022.5000	0908.6	136.5	51.1
348.0	002.7000	1015.0	065.8	130.6	022.5000	0908.6	137.2	51.0
349.0	002.7000	1019.9	065.9	130.2	022.5000	0934.9	137.8	51.0
350.0	002.7000	1026.1	066.0	129.8	022.5000	0934.9	138.4	50.8
351.0	002.7000	1032.0	066.1	129.4	022.5000	0959.8	139.1	50.9
352.0	002.7000	1039.1	066.2	129.0	022.5000	0959.8	139.7	50.7
353.0	002.7000	1045.9	066.4	128.6	022.5000	0959.8	140.4	50.5
354.0	002.7000	1052.5	066.5	128.3	022.5000	0982.7	141.2	50.5
355.0	002.7000	1058.3	066.6	127.9	022.5000	0982.7	141.9	50.3
356.0	002.7000	1064.3	066.7	127.5	022.5000	0982.7	142.7	50.1
357.0	002.7000	1070.1	066.8	127.2	022.5000	1002.8	143.5	50.0
358.0	002.7000	1075.0	066.9	126.9	022.5000	1002.8	144.4	49.8
359.0	002.7000	1079.9	067.0	126.5	022.5000	1002.8	145.2	49.6
000.0	002.7000	1084.7	067.1	126.2	022.5000	1019.9	146.1	49.5
001.0	002.7000	1087.5	067.1	126.0	022.5000	1019.9	147.0	49.2
002.0	002.7000	1090.1	067.2	125.7	022.5000	1019.9	148.0	49.0

003.0	002.7000	1092.4	067.2	125.4	022.5000	1034.7	148.9	48.9
004.0	002.7000	1094.0	067.3	125.2	022.5000	1034.7	149.9	48.6
005.0	002.7000	1095.2	067.3	124.9	022.5000	1034.7	150.9	48.4
006.0	002.7000	1096.2	067.3	124.7	022.5000	1034.7	151.9	48.1
007.0	002.7000	1095.1	067.3	124.5	022.5000	1047.9	153.0	48.0
008.0	002.7000	1092.1	067.2	124.3	022.5000	1047.9	154.0	47.7
009.0	002.7000	1088.5	067.2	124.1	022.5000	1047.9	155.1	47.4
010.0	002.7000	1089.1	067.2	123.9	022.5000	1047.9	156.2	47.2
011.0	002.7000	1090.3	067.2	123.7	022.5000	1047.9	157.2	46.9
012.0	002.7000	1089.7	067.2	123.6	022.5000	1047.9	158.3	46.6
013.0	002.7000	1085.2	067.1	123.5	022.5000	1059.7	159.4	46.5
014.0	002.7000	1080.1	067.0	123.3	022.5000	1059.7	160.6	46.2
015.0	002.7000	1075.6	066.9	123.2	022.5000	1059.7	161.7	45.9
016.0	002.7000	1069.8	066.8	123.1	022.5000	1059.7	162.9	45.6
017.0	002.7000	1062.2	066.7	123.1	022.5000	1059.7	164.0	45.3

Exhibit 7

01-19-2007 30 Sec. Terrain Data

KQST Propose
Channel = 275C0
Max ERP = 22.5 kW
RCAMSL = 2388 M
N. Lat = 344111.0
W. Lng = 1120702.0

VAC 275C3 Quartzsite, AZ
Channel = 275C3
Max ERP = 25 kW
RCAMSL = 100 M
N. Lat = 33 39 50
W. Lng = 114 13 45

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
183.0	022.5000	0669.6	079.1	079.2	025.0000	-0273.1	194.4	22.2
184.0	022.5000	0666.7	079.0	079.1	025.0000	-0273.1	193.1	22.4
185.0	022.5000	0662.7	078.9	078.9	025.0000	-0273.1	191.8	22.7
186.0	022.5000	0656.8	078.6	078.7	025.0000	-0273.1	190.6	22.9
187.0	022.5000	0648.4	078.3	078.5	025.0000	-0273.1	189.4	23.2
188.0	022.5000	0639.6	078.0	078.3	025.0000	-0272.5	188.2	23.4
189.0	022.5000	0630.9	077.7	078.1	025.0000	-0272.5	187.0	23.6
190.0	022.5000	0622.2	077.3	077.8	025.0000	-0272.5	185.8	23.8
191.0	022.5000	0615.1	077.0	077.6	025.0000	-0272.5	184.7	24.0
192.0	022.5000	0610.5	076.9	077.4	025.0000	-0272.5	183.5	24.2
193.0	022.5000	0606.8	076.7	077.2	025.0000	-0272.5	182.4	24.5
194.0	022.5000	0603.8	076.6	077.0	025.0000	-0272.5	181.2	24.7
195.0	022.5000	0599.3	076.4	076.7	025.0000	-0272.5	180.1	24.9
196.0	022.5000	0592.0	076.1	076.4	025.0000	-0273.6	179.1	25.1
197.0	022.5000	0582.1	075.7	076.1	025.0000	-0273.6	178.1	25.2
198.0	022.5000	0571.8	075.2	075.7	025.0000	-0273.6	177.2	25.4
199.0	022.5000	0562.9	074.7	075.4	025.0000	-0276.4	176.4	25.6
200.0	022.5000	0556.7	074.4	075.1	025.0000	-0276.4	175.5	25.7
201.0	022.5000	0552.6	074.2	074.8	025.0000	-0276.4	174.5	25.9
202.0	022.5000	0549.5	074.0	074.5	025.0000	-0281.5	173.6	26.1
203.0	022.5000	0548.0	073.9	074.2	025.0000	-0281.5	172.6	26.3
204.0	022.5000	0548.6	074.0	073.9	025.0000	-0281.5	171.6	26.5
205.0	022.5000	0550.6	074.1	073.7	025.0000	-0281.5	170.5	26.7
206.0	022.5000	0553.7	074.3	073.4	025.0000	-0287.7	169.4	26.9
207.0	022.5000	0557.3	074.5	073.2	025.0000	-0287.7	168.3	27.1
208.0	022.5000	0561.2	074.7	072.9	025.0000	-0287.7	167.2	27.3
209.0	022.5000	0565.5	074.9	072.7	025.0000	-0287.7	166.2	27.5
210.0	022.5000	0570.2	075.1	072.4	025.0000	-0291.8	165.1	27.7
211.0	022.5000	0575.2	075.3	072.1	025.0000	-0291.8	164.0	27.9
212.0	022.5000	0580.4	075.6	071.8	025.0000	-0291.8	163.0	28.1
213.0	022.5000	0585.6	075.8	071.5	025.0000	-0291.8	161.9	28.3
214.0	022.5000	0589.7	076.0	071.2	025.0000	-0292.3	161.0	28.4
215.0	022.5000	0592.1	076.1	070.9	025.0000	-0292.3	160.1	28.6
216.0	022.5000	0593.5	076.2	070.5	025.0000	-0290.9	159.2	28.8
217.0	022.5000	0594.5	076.2	070.1	025.0000	-0290.9	158.5	28.9
218.0	022.5000	0595.5	076.3	069.7	025.0000	-0290.9	157.7	29.0
219.0	022.5000	0597.0	076.3	069.3	025.0000	-0288.7	156.9	29.2
220.0	022.5000	0599.0	076.4	068.9	025.0000	-0288.7	156.2	29.3
221.0	022.5000	0601.5	076.5	068.5	025.0000	-0285.9	155.4	29.5
222.0	022.5000	0604.6	076.6	068.1	025.0000	-0285.9	154.7	29.6
223.0	022.5000	0608.3	076.8	067.6	025.0000	-0285.9	154.0	29.7
224.0	022.5000	0612.5	076.9	067.2	025.0000	-0281.2	153.3	29.8
225.0	022.5000	0617.2	077.1	066.8	025.0000	-0281.2	152.6	30.0
226.0	022.5000	0621.9	077.3	066.3	025.0000	-0278.6	151.9	30.1
227.0	022.5000	0626.4	077.5	065.9	025.0000	-0278.6	151.3	30.2
228.0	022.5000	0630.5	077.6	065.4	025.0000	-0280.3	150.7	30.3
229.0	022.5000	0634.6	077.8	064.9	025.0000	-0280.3	150.1	30.4
230.0	022.5000	0638.5	077.9	064.4	025.0000	-0284.5	149.6	30.5
231.0	022.5000	0642.1	078.1	064.0	025.0000	-0284.5	149.1	30.6
232.0	022.5000	0645.2	078.2	063.5	025.0000	-0286.3	148.7	30.7
233.0	022.5000	0647.9	078.3	062.9	025.0000	-0286.3	148.3	30.7
234.0	022.5000	0650.3	078.4	062.4	025.0000	-0282.9	148.0	30.8
235.0	022.5000	0652.5	078.5	061.9	025.0000	-0282.9	147.7	30.8
236.0	022.5000	0654.3	078.5	061.4	025.0000	-0277.0	147.5	30.9
237.0	022.5000	0655.4	078.6	060.8	025.0000	-0277.0	147.3	30.9
238.0	022.5000	0655.6	078.6	060.3	025.0000	-0270.3	147.2	30.9
239.0	022.5000	0655.3	078.6	059.8	025.0000	-0270.3	147.1	30.9
240.0	022.5000	0655.3	078.6	059.2	025.0000	-0263.4	147.1	30.9

241.0	022.5000	0655.7	078.6	058.7	025.0000	-0263.4	147.1	30.9
242.0	022.5000	0656.7	078.6	058.2	025.0000	-0256.3	147.1	30.9
243.0	022.5000	0658.2	078.7	057.6	025.0000	-0256.3	147.2	30.9
244.0	022.5000	0659.9	078.8	057.1	025.0000	-0250.4	147.2	30.9
245.0	022.5000	0661.5	078.8	056.6	025.0000	-0250.4	147.3	30.9
246.0	022.5000	0662.8	078.9	056.0	025.0000	-0245.9	147.5	30.9
247.0	022.5000	0663.8	078.9	055.5	025.0000	-0240.7	147.7	30.8
248.0	022.5000	0664.7	078.9	055.0	025.0000	-0240.7	147.9	30.8
249.0	022.5000	0665.7	079.0	054.4	025.0000	-0235.4	148.2	30.7
250.0	022.5000	0666.7	079.0	053.9	025.0000	-0235.4	148.5	30.7
251.0	022.5000	0667.5	079.0	053.4	025.0000	-0231.6	148.8	30.6
252.0	022.5000	0667.8	079.0	052.9	025.0000	-0231.6	149.2	30.6
253.0	022.5000	0667.6	079.0	052.4	025.0000	-0229.6	149.7	30.5
254.0	022.5000	0667.3	079.0	051.9	025.0000	-0229.6	150.2	30.4
255.0	022.5000	0667.1	079.0	051.4	025.0000	-0227.2	150.7	30.3
256.0	022.5000	0666.9	079.0	050.9	025.0000	-0227.2	151.3	30.2
257.0	022.5000	0666.5	079.0	050.5	025.0000	-0223.4	151.8	30.1
258.0	022.5000	0665.8	079.0	050.0	025.0000	-0223.4	152.5	30.0
259.0	022.5000	0664.4	078.9	049.6	025.0000	-0223.4	153.2	29.9
260.0	022.5000	0662.4	078.8	049.1	025.0000	-0219.3	153.9	29.7
261.0	022.5000	0659.8	078.7	048.7	025.0000	-0219.3	154.7	29.6
262.0	022.5000	0656.6	078.6	048.3	025.0000	-0215.9	155.5	29.4
263.0	022.5000	0653.6	078.5	047.9	025.0000	-0215.9	156.4	29.3
264.0	022.5000	0650.4	078.4	047.5	025.0000	-0215.9	157.2	29.1
265.0	022.5000	0647.3	078.3	047.1	025.0000	-0213.3	158.1	29.0
266.0	022.5000	0644.6	078.2	046.8	025.0000	-0213.3	159.0	28.8
267.0	022.5000	0641.7	078.1	046.4	025.0000	-0211.2	160.0	28.6
268.0	022.5000	0636.9	077.9	046.1	025.0000	-0211.2	161.0	28.4
269.0	022.5000	0631.7	077.7	045.8	025.0000	-0211.2	162.1	28.2
270.0	022.5000	0626.8	077.5	045.5	025.0000	-0209.5	163.1	28.0
271.0	022.5000	0621.9	077.3	045.2	025.0000	-0209.5	164.2	27.8
272.0	022.5000	0616.8	077.1	044.9	025.0000	-0209.5	165.3	27.6
273.0	022.5000	0612.2	076.9	044.6	025.0000	-0209.5	166.4	27.4
274.0	022.5000	0608.3	076.8	044.3	025.0000	-0207.8	167.5	27.2
275.0	022.5000	0604.7	076.6	044.1	025.0000	-0207.8	168.6	27.0
276.0	022.5000	0602.5	076.5	043.8	025.0000	-0207.8	169.7	26.8
277.0	022.5000	0599.9	076.4	043.6	025.0000	-0207.8	170.8	26.6
278.0	022.5000	0596.7	076.3	043.3	025.0000	-0206.1	171.9	26.4
279.0	022.5000	0593.8	076.2	043.1	025.0000	-0206.1	173.1	26.2
280.0	022.5000	0591.1	076.1	042.9	025.0000	-0206.1	174.2	26.0
281.0	022.5000	0588.2	075.9	042.7	025.0000	-0206.1	175.4	25.8
282.0	022.5000	0585.1	075.8	042.5	025.0000	-0204.4	176.6	25.5
283.0	022.5000	0582.7	075.7	042.3	025.0000	-0204.4	177.8	25.3
284.0	022.5000	0580.7	075.6	042.1	025.0000	-0204.4	179.0	25.1
285.0	022.5000	0578.3	075.5	041.9	025.0000	-0204.4	180.2	24.9
286.0	022.5000	0575.4	075.3	041.8	025.0000	-0204.4	181.4	24.6
287.0	022.5000	0572.1	075.2	041.7	025.0000	-0204.4	182.7	24.4
288.0	022.5000	0568.9	075.0	041.5	025.0000	-0204.4	183.9	24.2
289.0	022.5000	0566.1	074.9	041.4	025.0000	-0202.7	185.1	23.9
290.0	022.5000	0562.9	074.7	041.3	025.0000	-0202.7	186.4	23.7
291.0	022.5000	0559.0	074.5	041.2	025.0000	-0202.7	187.7	23.5
292.0	022.5000	0554.1	074.3	041.1	025.0000	-0202.7	189.0	23.2
293.0	022.5000	0548.2	074.0	041.1	025.0000	-0202.7	190.3	23.0
294.0	022.5000	0541.7	073.6	041.1	025.0000	-0202.7	191.6	22.7
295.0	022.5000	0534.7	073.2	041.1	025.0000	-0202.7	193.0	22.5
296.0	022.5000	0527.5	072.7	041.1	025.0000	-0202.7	194.3	22.2

Exhibit 8

01-19-2007 30 Sec. Terrain Data

VAC 275C3 Quartzsite, AZ
Channel = 275C3
Max ERP = 25 kW
RCAMSL = 100 M
N. Lat = 33 39 50
W. Lng = 114 13 45

KQST Proposed
Channel = 275C0
Max ERP = 22.5 kW
RCAMSL = 2388 M
N. Lat = 344111.0
W. Lng = 1120702.0

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	025.0000	-0144.9	022.7	245.5	022.5000	0661.5	214.6	31.2
001.0	025.0000	-0145.8	022.7	245.4	022.5000	0661.5	214.3	31.3
002.0	025.0000	-0146.7	022.7	245.4	022.5000	0661.5	213.9	31.3
003.0	025.0000	-0147.7	022.7	245.3	022.5000	0661.5	213.5	31.4
004.0	025.0000	-0148.9	022.7	245.3	022.5000	0661.5	213.2	31.5
005.0	025.0000	-0150.2	022.7	245.2	022.5000	0661.5	212.9	31.5
006.0	025.0000	-0151.5	022.7	245.2	022.5000	0661.5	212.5	31.6
007.0	025.0000	-0152.9	022.7	245.1	022.5000	0661.5	212.2	31.6
008.0	025.0000	-0154.2	022.7	245.1	022.5000	0661.5	211.9	31.7
009.0	025.0000	-0155.6	022.7	245.0	022.5000	0661.5	211.5	31.7
010.0	025.0000	-0157.1	022.7	244.9	022.5000	0661.5	211.2	31.8
011.0	025.0000	-0158.7	022.7	244.9	022.5000	0661.5	210.9	31.8
012.0	025.0000	-0160.4	022.7	244.8	022.5000	0661.5	210.6	31.9
013.0	025.0000	-0161.9	022.7	244.7	022.5000	0661.5	210.3	32.0
014.0	025.0000	-0163.3	022.7	244.7	022.5000	0661.5	210.0	32.0
015.0	025.0000	-0164.7	022.7	244.6	022.5000	0661.5	209.7	32.1
016.0	025.0000	-0166.1	022.7	244.5	022.5000	0661.5	209.4	32.1
017.0	025.0000	-0167.6	022.7	244.4	022.5000	0659.9	209.1	32.1
018.0	025.0000	-0169.1	022.7	244.4	022.5000	0659.9	208.8	32.2
019.0	025.0000	-0170.5	022.7	244.3	022.5000	0659.9	208.5	32.2
020.0	025.0000	-0171.9	022.7	244.2	022.5000	0659.9	208.2	32.3
021.0	025.0000	-0173.4	022.7	244.1	022.5000	0659.9	208.0	32.3
022.0	025.0000	-0175.1	022.7	244.0	022.5000	0659.9	207.7	32.4
023.0	025.0000	-0176.8	022.7	244.0	022.5000	0659.9	207.4	32.4
024.0	025.0000	-0178.4	022.7	243.9	022.5000	0659.9	207.2	32.5
025.0	025.0000	-0180.0	022.7	243.8	022.5000	0659.9	206.9	32.5
026.0	025.0000	-0181.6	022.7	243.7	022.5000	0659.9	206.7	32.6
027.0	025.0000	-0183.3	022.7	243.6	022.5000	0659.9	206.5	32.6
028.0	025.0000	-0184.9	022.7	243.5	022.5000	0659.9	206.2	32.7
029.0	025.0000	-0186.6	022.7	243.4	022.5000	0658.2	206.0	32.7
030.0	025.0000	-0188.3	022.7	243.3	022.5000	0658.2	205.8	32.7
031.0	025.0000	-0189.9	022.7	243.2	022.5000	0658.2	205.6	32.8
032.0	025.0000	-0191.4	022.7	243.2	022.5000	0658.2	205.4	32.8
033.0	025.0000	-0192.6	022.7	243.1	022.5000	0658.2	205.2	32.8
034.0	025.0000	-0193.7	022.7	243.0	022.5000	0658.2	205.0	32.9
035.0	025.0000	-0194.9	022.7	242.9	022.5000	0658.2	204.8	32.9
036.0	025.0000	-0196.2	022.7	242.8	022.5000	0658.2	204.6	32.9
037.0	025.0000	-0197.6	022.7	242.7	022.5000	0658.2	204.5	33.0
038.0	025.0000	-0199.0	022.7	242.6	022.5000	0658.2	204.3	33.0
039.0	025.0000	-0200.1	022.7	242.5	022.5000	0656.7	204.1	33.0
040.0	025.0000	-0201.3	022.7	242.4	022.5000	0656.7	204.0	33.0
041.0	025.0000	-0202.7	022.7	242.2	022.5000	0656.7	203.8	33.1
042.0	025.0000	-0204.4	022.7	242.1	022.5000	0656.7	203.7	33.1
043.0	025.0000	-0206.1	022.7	242.0	022.5000	0656.7	203.6	33.1
044.0	025.0000	-0207.8	022.7	241.9	022.5000	0656.7	203.5	33.1
045.0	025.0000	-0209.5	022.7	241.8	022.5000	0656.7	203.4	33.2
046.0	025.0000	-0211.2	022.7	241.7	022.5000	0656.7	203.2	33.2
047.0	025.0000	-0213.3	022.7	241.6	022.5000	0656.7	203.2	33.2
048.0	025.0000	-0215.9	022.7	241.5	022.5000	0655.7	203.1	33.2
049.0	025.0000	-0219.3	022.7	241.4	022.5000	0655.7	203.0	33.2
050.0	025.0000	-0223.4	022.7	241.3	022.5000	0655.7	202.9	33.2
051.0	025.0000	-0227.2	022.7	241.2	022.5000	0655.7	202.8	33.2
052.0	025.0000	-0229.6	022.7	241.1	022.5000	0655.7	202.8	33.3
053.0	025.0000	-0231.6	022.7	240.9	022.5000	0655.7	202.7	33.3
054.0	025.0000	-0235.4	022.7	240.8	022.5000	0655.7	202.7	33.3
055.0	025.0000	-0240.7	022.7	240.7	022.5000	0655.7	202.6	33.3
056.0	025.0000	-0245.9	022.7	240.6	022.5000	0655.7	202.6	33.3
057.0	025.0000	-0250.4	022.7	240.5	022.5000	0655.3	202.6	33.3

058.0	025.0000	-0256.3	022.7	240.4	022.5000	0655.3	202.6	33.3
059.0	025.0000	-0263.4	022.7	240.3	022.5000	0655.3	202.6	33.3
060.0	025.0000	-0270.3	022.7	240.2	022.5000	0655.3	202.6	33.3
061.0	025.0000	-0277.0	022.7	240.0	022.5000	0655.3	202.6	33.3
062.0	025.0000	-0282.9	022.7	239.9	022.5000	0655.3	202.6	33.3
063.0	025.0000	-0286.3	022.7	239.8	022.5000	0655.3	202.6	33.3
064.0	025.0000	-0284.5	022.7	239.7	022.5000	0655.3	202.6	33.3
065.0	025.0000	-0280.3	022.7	239.6	022.5000	0655.3	202.7	33.3
066.0	025.0000	-0278.6	022.7	239.5	022.5000	0655.3	202.7	33.3
067.0	025.0000	-0281.2	022.7	239.4	022.5000	0655.3	202.8	33.2
068.0	025.0000	-0285.9	022.7	239.3	022.5000	0655.3	202.9	33.2
069.0	025.0000	-0288.7	022.7	239.2	022.5000	0655.3	202.9	33.2
070.0	025.0000	-0290.9	022.7	239.0	022.5000	0655.3	203.0	33.2
071.0	025.0000	-0292.3	022.7	238.9	022.5000	0655.3	203.1	33.2
072.0	025.0000	-0291.8	022.7	238.8	022.5000	0655.3	203.2	33.2
073.0	025.0000	-0287.7	022.7	238.7	022.5000	0655.3	203.3	33.2
074.0	025.0000	-0281.5	022.7	238.6	022.5000	0655.3	203.4	33.1
075.0	025.0000	-0276.4	022.7	238.5	022.5000	0655.3	203.5	33.1
076.0	025.0000	-0273.6	022.7	238.4	022.5000	0655.6	203.6	33.1
077.0	025.0000	-0272.5	022.7	238.3	022.5000	0655.6	203.8	33.1
078.0	025.0000	-0272.5	022.7	238.2	022.5000	0655.6	203.9	33.0
079.0	025.0000	-0273.1	022.7	238.1	022.5000	0655.6	204.0	33.0
080.0	025.0000	-0274.1	022.7	238.0	022.5000	0655.6	204.2	33.0
081.0	025.0000	-0275.6	022.7	237.9	022.5000	0655.6	204.3	33.0
082.0	025.0000	-0277.4	022.7	237.8	022.5000	0655.6	204.5	32.9
083.0	025.0000	-0278.4	022.7	237.7	022.5000	0655.6	204.7	32.9
084.0	025.0000	-0279.3	022.7	237.6	022.5000	0655.6	204.9	32.9
085.0	025.0000	-0280.3	022.7	237.5	022.5000	0655.4	205.0	32.8
086.0	025.0000	-0283.3	022.7	237.4	022.5000	0655.4	205.2	32.8
087.0	025.0000	-0288.1	022.7	237.3	022.5000	0655.4	205.4	32.7
088.0	025.0000	-0292.8	022.7	237.2	022.5000	0655.4	205.6	32.7
089.0	025.0000	-0298.0	022.7	237.1	022.5000	0655.4	205.8	32.7
090.0	025.0000	-0299.6	022.7	237.0	022.5000	0655.4	206.1	32.6
091.0	025.0000	-0301.1	022.7	236.9	022.5000	0655.4	206.3	32.6
092.0	025.0000	-0302.5	022.7	236.8	022.5000	0655.4	206.5	32.5
093.0	025.0000	-0306.8	022.7	236.7	022.5000	0655.4	206.8	32.5
094.0	025.0000	-0314.0	022.7	236.7	022.5000	0655.4	207.0	32.5
095.0	025.0000	-0321.4	022.7	236.6	022.5000	0655.4	207.2	32.4
096.0	025.0000	-0328.7	022.7	236.5	022.5000	0654.3	207.5	32.4
097.0	025.0000	-0334.8	022.7	236.4	022.5000	0654.3	207.8	32.3
098.0	025.0000	-0336.9	022.7	236.3	022.5000	0654.3	208.0	32.3
099.0	025.0000	-0335.8	022.7	236.2	022.5000	0654.3	208.3	32.2
100.0	025.0000	-0334.8	022.7	236.2	022.5000	0654.3	208.6	32.2
101.0	025.0000	-0334.5	022.7	236.1	022.5000	0654.3	208.9	32.1
102.0	025.0000	-0336.1	022.7	236.0	022.5000	0654.3	209.1	32.1
103.0	025.0000	-0339.2	022.7	235.9	022.5000	0654.3	209.4	32.0
104.0	025.0000	-0342.4	022.7	235.9	022.5000	0654.3	209.7	32.0
105.0	025.0000	-0345.4	022.7	235.8	022.5000	0654.3	210.0	31.9
106.0	025.0000	-0346.6	022.7	235.7	022.5000	0654.3	210.3	31.9
107.0	025.0000	-0347.7	022.7	235.7	022.5000	0654.3	210.7	31.8
108.0	025.0000	-0348.4	022.7	235.6	022.5000	0654.3	211.0	31.7
109.0	025.0000	-0348.4	022.7	235.5	022.5000	0654.3	211.3	31.7
110.0	025.0000	-0349.1	022.7	235.5	022.5000	0652.5	211.6	31.6
111.0	025.0000	-0351.9	022.7	235.4	022.5000	0652.5	211.9	31.6
112.0	025.0000	-0356.1	022.7	235.4	022.5000	0652.5	212.3	31.5