

FCC Form 301 Section III-A #10b Supporting Exhibits
Arizona Lotus Corp. • K T K T (A M)
990 KHz Nighttime Allocation Study, Tucson, Arizona, July 2011

Mueller Broadcast Design
613 S. La Grange Road
La Grange, Illinois 60525
(708) 352-2166

Nighttime RSS Limit Calculations

Run Date: 07-27-2011 17:12:02

<u>Call</u>	<u>AntID</u>	<u>Class</u>	<u>Freq</u>	<u>Location</u>	<u>Power</u>	<u>Mode</u>	<u>Status</u>	<u>File</u>	<u>Coordinates</u>
NEW	81911	P B	980 B	KENAI	AK US	0.900 KW,	ND2-N	APP BNP 20040127AKI	60-30-39N/151-16-12W
CKNW:2.4765 + KFBX:1.2036 = 2.75									
NEW	104448	P B	980 B	KENAI	AK US	0.500 KW,	ND2-N	APP BNP 20070917AAB	60-30-39N/151-16-12W
CKNW:2.4765 + KFBX:1.2036 = 2.75									
KINS	98575	O B	980 B	EUREKA	CA US	0.500 KW,	DAN-N	LIC BL 20070404ACT	40-48- 2N/124- 7-39W
KFWB:8.0715 + KKNW:4.6873 + KSVC:3.2365 + KSPZ:2.8694 + KBBO:2.8693 = 10.68									
KFWB	4328	O B	980 B	LOS ANGELES	CA US	5.000 KW,	ND1-U	LIC BL	34- 4-11N/118-11-35W
ZYH-707:2.8574 + KMBZ:2.7964 + KHTY:2.4686 + XEXT:1.7807 + KBBO:1.483 + KMIN:1.3931 = 5.42									
KDBV	54453	O B	980 B	SALINAS	CA US	10.000 KW,	DA2-N	LIC BL 19990601DC	36-43-58N/121-35-32W
KFWB:20.2769 = 20.28									
KGLN	115206	O B	980 B	GLENWOOD SPRINGS	CO US	0.225 KW,	ND2-N	LIC BL 20110608ACP	39-33-10N/107-19-48W
KMBZ:8.4362 + KSVC:7.9181 + KFWB:5.6554 + KSPZ:5.0542 + CKNW:3.4633 = 14.26									
WTEM	68436	O B	980 B	WASHINGTON	DC US	5.000 KW,	DA2-N	LIC BL 19950303AA	38-57-43N/ 76-58-24W
ZYH-707:5.4361 + WBGJ:4.1195 + WILK:1.9265 + WOFX:1.8134 = 7.32									
WRNE	89512	O B	980 B	GULF BREEZE	FL US	1.000 KW,	DAN-N	LIC BL 20050210AWZ	30-29- 8N/ 87- 5- 1W
WYFN:13.3544 + WTOT:7.831 + WFHG:6.4345 + ZYH-707:6.2709 + KRTX:5.762 + WTEM:4.7155 = 19.39									
WTOT	72567	O B	980 B	MARIANNA	FL US	0.340 KW,	ND1-N	LIC BL	30-47- 1N/ 85-15-18W
WYFN:7.3705 + WFHG:6.9213 + ZYH-707:6.4472 + WTEM:5.9229 + WHSR:4.3036 + KRTX:4.2161 + WRNE:4.1183 = 15.24									
WHSR	95986	O B	980 B	POMPANO BEACH	FL US	2.200 KW,	DA2-N	LIC BL 20050203AEN	26-20- 6N/ 80-15-55W
ZYH-707:8.406 + WTEM:4.8377 + HJNL:4.3061 + HOR 57:4.1208 + XEQO:3.5108 + HRZC 2:3.1807 + KRTX:3.0852 = 12.71									
KSPZ	4370	O B	980 B	AMMON	ID US	1.000 KW,	DA2-N	LIC BL 19830308AA	43-31-23N/112- 0-36W
CKNW:7.6008 + KDSJ:7.0062 + KFWB:5.1993 + KSVC:5.1739 + CJME:4.351 + KMBZ:4.1508 + KBBO:4.0717 = 14.61									
KSGM	1837	O B	980 B	CHESTER	IL US	0.470 KW,	DAN-N	LIC BL 19981021AC	37-47-16N/ 89-54-21W
KMBZ:8.947 + WYFN:6.5428 + ZYH-707:4.5613 + KRTX:3.3305 + WTEM:3.1637 = 12.84									
WITY	21709	O B	980 B	DANVILLE	IL US	1.000 KW,	DA1-U	LIC BL 19990129DC	40- 4-41N/ 87-38-20W
WYFN:17.3486 + WONE:13.4817 + KSGM:9.1864 + KMBZ:6.3656 = 24.65									
WCAP	4389	O B	980 B	LOWELL	MA US	5.000 KW,	DA2-N	LIC BL 19801014AT	42-39-16N/ 71-21-43W
WOFX:47.8176 = 47.82									
KKMS	4395	O B	980 B	RICHFIELD	MN US	5.000 KW,	DA1-U	LIC BL	44-47-18N/ 93-12-54W
KMBZ:9.1763 + WONE:8.8802 + WITY:6.4741 + WYFN:4.5176 + KDSJ:4.0547 = 15.55									
KMBZ	4408	O B	980 B	KANSAS CITY	MO US	5.000 KW,	DAN-N	LIC BL	39- 2-17N/ 94-36-55W
ZYH-707:3.9809 + KFWB:1.7457 + WTEM:1.6834 + XEQO:1.6757 = 4.95									
WAAV	1726	O B	980 B	LELAND	NC US	5.000 KW,	DAN-N	LIC BL 19980609KD	34-14-54N/ 78- 0- 6W
WTEM:19.3587 + WFHG:12.3875 + WYFN:6.6827 + ZYH-707:6.492 = 24.80									
KMIN	4419	O B	980 B	GRANTS	NM US	0.250 KW,	ND1-N	LIC BL 19901015AG	35- 9- 5N/107-52-31W
KFWB:7.7177 + KMBZ:7.2032 + KSVC:6.4243 + KSPZ:4.2515 + ZYH-707:3.4586 + KGLN:3.3898 = 13.94									
WOFX	4421	O B	980 B	TROY	NY US	5.000 KW,	DAN-N	LIC BL	42-46-56N/ 73-50- 7W
WILK:5.0712 + ZYH-707:4.8086 + WDCX:4.3497 + WTEM:3.9589 + CKRU:3.3626 + WCAP:3.1448 + CHTX:2.6795 + CKGM:2.6651 = 10.90									

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Call	AntID	Class	Freq	Location	Power	Mode	Status	File	Coordinates	
WONE	66736	O B	980 B	DAYTON	OH US	5.000 KW,	DAN-N	LIC BL	19830105AE	39-40- 3N/ 84-10- 1W
WTEM:7.7172 + WYFN:6.6345 + ZYH-707:4.7014 + WILK:4.0949 + KMBZ:3.9047 + KSGM:3.8387 + WFHG:3.684 = 13.64										
WILK	4434	O B	980 B	WILKES-BARRE	PA US	1.000 KW,	DAN-N	LIC BL		41-13-42N/ 75-56-53W
WTEM:9.3891 + WOFX:6.1077 + ZYH-707:5.0063 = 12.27										
KDSJ	4445	O B	980 B	DEADWOOD	SD US	1.000 KW,	DAN-N	LIC BL	19800128AJ	44-22-57N/103-39-44W
KMBZ:8.6765 + CJME:5.7632 + KSVC:3.637 + KSPZ:3.5589 = 11.59										
WYFN	4449	O B	980 B	NASHVILLE	TN US	5.000 KW,	DAN-N	LIC BL		36-12-25N/ 86-40-25W
WTEM:5.7403 + KMBZ:5.5841 + ZYH-707:5.1429 + WITY:4.4114 + WGTK:3.9743 + KSGM:3.8774 + KRTX:3.2962 + WTOT:3.1648 = 12.72										
KRTX	74619	O B	980 B	ROSENBURG/RICHMOND	TX US	4.000 KW,	DAN-N	LIC BL	19990415DC	29-49-19N/ 95-52-58W
WYFN:10.5527 + KMBZ:8.5078 + WRNE:5.603 + ZYH-707:5.2907 + XEQO:5.1401 + XENR:4.4008 + XEFF:4.2994 = 17.53										
KSVC	99315	O B	980 B	RICHFIELD	UT US	1.000 KW,	DAN-N	LIC BL	20070531BIV	38-45-40N/112- 4-35W
KFWB:10.5434 + KSPZ:9.3814 + KMBZ:4.8996 + KGLN:4.002 = 15.47										
WFHG	4471	O B	980 B	BRISTOL	VA US	1.000 KW,	DAN-N	LIC BL		36-36-30N/ 82- 9-36W
WTEM:14.8826 + WONE:14.0112 + WYFN:9.5005 + WAAV:6.1462 = 23.36										
KBBO	70918	O B	980 B	SELAH	WA US	0.500 KW,	DA2-N	LIC BL	19991124AAW	46-38-25N/120-35-48W
CKNW:19.2597 = 19.26										
WCUB	4499	O B	980 B	TWO RIVERS	WI US	5.000 KW,	DA2-N	LIC BL	19811009AE	44- 3-50N/ 87-41-49W
WONE:28.9508 + WITY:14.1129 = 32.21										
NEW	55420	P B	990 B	PRINCE RUPERT	BC CA	10.000 KW,	DAN-N	Fac. ID:	99241	54-19- 0N/130-10- 0W
CBW:4.2222 = 4.22										
CBW	55423	O A	990 A	WINNIPEG	MB CA	46.000 KW,	ND1-N	Fac. ID:	99242	49-50-12N/ 97-30-43W
Class-A protected to 0.5 mv/m skywave contour.										
CBY	55424	O A	990 A	CORNER BROOK	NF CA	10.000 KW,	ND1-U	Fac. ID:	99243	48-55-58N/ 57-54-26W
Class-A protected to 0.5 mv/m skywave contour.										
CHTX	27561	P B	990 B	MONTREAL	QC CA	50.000 KW,	DA2-N	Fac. ID:	99244	45-17-43N/ 73-43-20W
CBW:7.7009 + CBY:7.6726 = 10.87										
CKGM	27563	O B	990 B	MONTREAL	QC CA	50.000 KW,	DA2-N	Fac. ID:	107659	45-17-43N/ 73-43-20W
CBW:7.7009 + CBY:7.6726 = 10.87										
CHTX	55427	P B	990 B	MONTREAL	QC CA	50.000 KW,	DA2-N	Fac. ID:	99244	45-17-43N/ 73-43-20W
CBW:7.7009 + CBY:7.6726 = 10.87										
CKGM	113252	P B	990 B	MONTREAL	QC CA	50.000 KW,	DA2-N	Fac. ID:	107659	45-17-43N/ 73-43-18W
CBW:7.7004 + CBY:7.6731 = 10.87										
CBDB	101426	P B	990 B	WATSON LAKE	YT CA	0.165 KW,	ND -N	Fac. ID:	177627	60- 3-58N/128-43-15W
55420:11.4148 = 11.41										
CMOE	57675	P C	990 C	GERONA	CU	1.000 KW,	ND1-N	Fac. ID:	100682	21-52- 0N/ 82-47- 0W
WDYZ:7.385 + WNML:4.2944 = 8.54										
CMKE	57677	P C	990 C	HOLGUIN	CU	1.000 KW,	ND1-N	Fac. ID:	100683	20-51- 0N/ 76-16- 0W
WMYM:11.9708 = 11.97										

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CMGE	57679	O C	990 C S	SPIRITUS	CU	1.000 KW,	ND1-N	Fac. ID: 100684	21-56- 0N/ 79-27- 0W
WYM:9.8285 = 9.83									
XECL	33187	O B	990 B	MEXICALI	BN MX	5.000 KW,	ND1-N	Fac. ID: 101989	32-37-48N/115-30- 6W
CBW:3.4768 + KRKS:2.4372 + KTKT:2.2173 = 4.79									
XECL1	59987	P B	990 B	MEXICALI	BN MX	5.000 KW,	ND1-N	Fac. ID: 112818	32-39- 8N/115-23-20W
CBW:3.498 + KRKS:2.4783 + KTKT:2.2325 = 4.83									
XEHZ	59990	O B	990 B	LA PAZ	BS MX	0.250 KW,	ND1-N	Fac. ID: 101994	24- 5-26N/110-20-11W
XET:17.6745 = 17.67									
XEER	59996	O B	990 B	CD.CUAUHEMOC	CH MX	0.250 KW,	ND1-N	Fac. ID: 101997	28-23-38N/106-49- 3W
XEFP:7.2931 + KTKT:6.7016 = 9.90									
XEER	92593	P B	990 B	CD.CUAUHEMOC	CH MX	0.750 KW,	ND -N	Fac. ID: 101997	28-23-38N/106-49- 3W
XEFP:7.2931 + KTKT:6.7016 = 9.90									
XENVA2	59998	P B	990 B	ALTARES	CI MX	0.100 KW,	ND1-N	Fac. ID: 101999	28-51- 1N/103-21-25W
XEFP:7.6721 + KFCD:5.8991 + XEPI:5.3764 = 11.07									
XETG	60001	O B	990 B	TUXTLA GUTIERREZ	CS MX	1.000 KW,	ND1-N	Fac. ID: 102001	16-47- 6N/ 93- 7- 9W
XET:27.0861 + XEPI:13.934 = 30.46									
XEPI	102307	P B	990 B	PALO REDONDO	GR MX	5.000 KW,	ND -N	Fac. ID: 177859	17-33-44N/ 99-28- 1W
XET:52.4468 = 52.45									
XEPI	109462	P B	990 B	PALO REDONDO	GR MX	5.000 KW,	ND -N	Fac. ID: 177859	17-33-42N/ 99-27-42W
XET:52.4375 = 52.44									
XEBC	33216	O B	990 B	CD.GUZMAN	JA MX	0.100 KW,	ND1-N	Fac. ID: 102002	19-42-45N/103-28-27W
XET:62.0433 = 62.04									
XEBC	60003	P B	990 B	CD.GUZMAN	JA MX	1.000 KW,	ND1-N	Fac. ID: 102002	19-42-45N/103-28-27W
XET:62.0433 = 62.04									
XE	60007	P B	990 B	LAGOS DE MORENO	JA MX	1.000 KW,	ND1-N	Fac. ID: 102004	21-21-54N/101-55-45W
XET:77.936 = 77.94									
XEATM	60011	O B	990 B	MORELIA	MC MX	1.000 KW,	ND1-N	Fac. ID: 102006	19-41-36N/101- 8-52W
XET:70.911 = 70.91									
XE	60015	P B	990 B	TACAMBARO	MC MX	1.000 KW,	ND1-N	Fac. ID: 102008	19-13- 7N/101-28-50W
XET:66.3395 = 66.34									
XET	60021	O B	990 B	MONTERREY	NL MX	50.000 KW,	DAN-N	Fac. ID: 102011	25-44- 0N/100-14-42W
XEPI:10.2627 + XEFP:10.1837 + XEID:7.7347 = 16.40									
XET	110421	P B	990 B	MONTERREY	NL MX	50.000 KW,	DA -N	Fac. ID: 102011	25-44- 0N/100-14-42W
XEPI:10.2627 + XEFP:10.1837 + XEID:7.7347 = 16.40									
XEIU	33240	O B	990 B	OAXACA	OA MX	0.250 KW,	ND1-N	Fac. ID: 102013	17- 3-42N/ 96-44-24W
XET:42.5621 = 42.56									
XEIU1	60027	P B	990 B	OAXACA	OA MX	1.000 KW,	ND1-N	Fac. ID: 112865	17- 3-42N/ 96-44-24W
XET:42.5621 = 42.56									
XEOL	33247	O B	990 B	TEZIUTLAN	PU MX	1.000 KW,	ND1-N	Fac. ID: 102016	19-48-53N/ 97-22-32W
XET:63.4428 = 63.44									

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XEOL1	60031	P B	990 B	TEZIUTLAN	PU MX	2.500 KW,	ND1-N	Fac. ID: 112871	19-48-35N/ 97-23- 4W
XET:63.459 = 63.46									
XEID	113880	P B	990 B	ALAMO	VE MX	1.900 KW,	ND -N	Fac. ID: 189201	20-54-35N/ 97-40- 9W
XET:70.2714 = 70.27									
XEID	114233	P B	990 B	ALAMO	VE MX	1.700 KW,	ND -N	Fac. ID: 189201	20-57-11N/ 97-40-10W
XET:70.3511 = 70.35									
XEUM	60035	O B	990 B	VALLADOLID	YC MX	0.250 KW,	ND1-N	Fac. ID: 102019	20-40-40N/ 88-12-32W
XET:13.8719 = 13.87									
XEFP	33262	O B	990 B	JALPA	ZA MX	0.150 KW,	ND1-N	Fac. ID: 102021	21-39-37N/102-56-40W
XET:72.9357 = 72.94									
XEFP1	60043	P B	990 B	JALPA	ZA MX	1.000 KW,	ND1-N	Fac. ID: 112886	21-39-37N/102-56-40W
XET:72.9357 = 72.94									
XEFP	95037	P B	990 B	JALPA	ZA MX	5.000 KW,	ND -N	Fac. ID: 102021	21-39-37N/102-56-40W
XET:72.9357 = 72.94									
XEFP	105405	P B	990 B	JALPA	ZA MX	3.000 KW,	ND -N	Fac. ID: 102021	21-39-37N/102-56-40W
XET:72.9357 = 72.94									
XEFP	109152	P B	990 B	JALPA	ZA MX	2.500 KW,	ND -N	Fac. ID: 102021	21-39-37N/102-56-40W
XET:72.9357 = 72.94									
KTKT	66739	O B	990 B	TUCSON	AZ US	1.000 KW,	DA2-N	LIC BL 19830203AB	32-15-19N/111- 0-32W
CBW:4.7522 + XEER:2.9378 + XEFP:2.8044 + XEPI:2.6663 + KRKS:2.5954 + KSVP:2.5881 + KFCD:1.9644 = 7.97									
KATD	107175	O B	990 B	PITTSBURG	CA US	5.000 KW,	DA2-N	LIC BMML20090323AEE	38-30-17N/121-10-48W
KTMS:3.8894 + CBW:3.8864 + KOMO:3.3177 = 6.42									
KTMS	4627	O B	990 B	SANTA BARBARA	CA US	0.500 KW,	DA2-N	LIC BL 19890314AA	34-28-15N/119-40-33W
KATD:6.8292 + CBW:3.6487 + KFWD:2.3645 = 8.10									
KTMS	107892	P B	990 B	SANTA BARBARA	CA US	0.125 KW,	DA2-N	APP BSTA20090605AAP	34-28-15N/119-40-33W
KATD:6.8292 + CBW:3.6487 + KFWD:2.3645 = 8.10									
KRKS	72691	O B	990 B	DENVER	CO US	0.390 KW,	DAN-N	LIC BL 20000105AAR	39-47-57N/104-58-12W
CBW:11.8383 = 11.84									
WMYM	1553	O B	990 B	MIAMI	FL US	5.000 KW,	DA2-N	LIC BL 19971112KA	25-50-34N/ 80-25-12W
WDYZ:4.0646 + WNML:3.9142 + WNTP:3.0791 + XET:3.0016 + CBW:2.6357 + HOU 44:2.4996 + KZZB:2.4577 + XEPI:2.4286 + HCEW2:2.1821 = 8.96									
WDYZ	98800	O B	990 B	ORLANDO	FL US	14.000 KW,	DA2-N	LIC BL 20070413AHC	28-34-27N/ 81-27-46W
WNML:5.8817 + WMYM:4.1781 + CBW:3.0946 + WNTP:2.8508 + KZZB:2.7612 + KWAM:2.5322 + XET:2.3154 = 9.44									
KIKI	4649	O B	990 B	HONOLULU	HI US	5.000 KW,	ND1-U	LIC BL 19970205AB	21-19-26N/157-52-32W
KATD:1.4724 + 55420:1.0254 + CBW:.7174 = 1.93									
WGSO	4681	O B	990 B	NEW ORLEANS	LA US	0.400 KW,	ND1-N	LIC BL 19871209AF	29-57-24N/ 90- 4-34W
WNML:14.5098 + KZZB:10.8332 + WDYZ:6.7027 + KFCD:6.0502 + WMYM:5.4738 = 20.96									
WDEO	4683	O B	990 B	YPSILANTI	MI US	0.250 KW,	DA2-N	LIC BL 19870316AH	42-15-55N/ 83-36-42W
WMVP:10.8357 + CBW:8.2143 + WDCX:5.3832 + WONE:3.7854 = 15.11									

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KSVF	4703	O B	990 B	ARTESIA NM US	0.250 KW,	ND1-N	LIC BL		32-49-29N/104-23-59W
CBW:6.0184 + KTKT:5.2355 + KFCD:4.8745 + KRKS:3.7522 + XEFP:3.3711 + XEPI:3.2303 + XEER:3.1736 = 11.55									
WDCX	4716	O B	990 B	ROCHESTER NY US	2.500 KW,	DA2-N	LIC BL	19831223AC	43-13-54N/ 77-52- 0W
CHTX:7.764 + CBW:4.7343 + CKGM:4.6804 + CHTX:4.4446 + WMVP:3.7026 + WNML:3.0494 = 12.14									
WNTP	99508	O B	990 B	PHILADELPHIA PA US	10.000 KW,	DA2-N	LIC BL	20070626ASI	40- 5-43N/ 75-16-37W
CHTX:3.7755 + CKGM:3.7392 + WNML:3.4215 + CBW:3.3928 + WMVP:2.55 + WDEO:2.2158 = 7.93									
WPRA	4792	O B	990 B	MAYAGUEZ PR US	0.910 KW,	ND1-U	LIC BL	19971024KB	18-10- 8N/ 67- 9- 3W
WNML:4.4139 + WNTP:3.6752 + 4VCPS:3.4093 + HOU 44:3.1542 + WDYZ:3.0563 + WMYM:3.0209 + HCEW2:3.0062 = 9.06									
WALE	2037	O B	990 B	GREENVILLE RI US	5.000 KW,	DA2-N	LIC BL	19990611AE	41-57-18N/ 71-35-39W
WDCX:24.1884 + WNTP:9.1285 + CHTX:8.2633 = 27.14									
WNML	80519	O B	990 B	KNOXVILLE TN US	10.000 KW,	DAN-N	LIC BL	20031112AJC	36- 2-33N/ 83-53-59W
CBW:5.357 + WMVP:3.6848 + KWAM:2.8154 + WDEO:2.494 + WNTP:2.3841 + WYFN:2.1129 = 8.16									
KWAM	4758	O B	990 B	MEMPHIS TN US	0.450 KW,	DA2-N	LIC BL	19890316AA	35- 8- 4N/ 90- 5-38W
CBW:6.8136 + WNML:6.0189 + WYFN:3.7754 + WGSO:3.5008 + WDYZ:3.1859 = 10.92									
KZZB	4760	O B	990 B	BEAUMONT TX US	1.000 KW,	DA1-U	LIC BL	19831118AA	30- 8-57N/ 94- 7-59W
KFCD:13.3094 + WNML:7.1894 + XET:6.6605 + WGSO:5.3449 + CBW:4.9688 = 18.07									
KFCD	86641	O B	990 B	FARMERSVILLE TX US	0.920 KW,	DA2-N	LIC BL	20040624AEP	33- 7- 1N/ 96-16-47W
CBW:6.5359 + KZZB:6.2142 + KWAM:5.0971 + XET:3.7921 + XEPI:3.2073 + WNML:2.942 = 11.86									
KCEO	4923	O B	1000 B	VISTA CA US	0.250 KW,	DA2-N	LIC BL	19830331AA	33-13-59N/117-16- 9W
KOMO:13.4286 = 13.43									
KCEO	90426	P B	1000 B	VISTA CA US	0.900 KW,	DA2-N	CP BP	20040109AAF	33-13-58N/117-16-11W
KOMO:13.4289 = 13.43									
WMVP	97761	O A	1000 A	CHICAGO IL US	50.000 KW,	DA2-N	LIC BL	20070118AFE	41-49- 5N/ 87-59-18W
Class-A protected to 0.5 mv/m skywave contour.									
KTOK	4985	O B	1000 B	OKLAHOMA CITY OK US	5.000 KW,	DA2-N	LIC BL		35-21-29N/ 97-27-48W
ZYK-522:2.2494 + HOK 36:1.4043 + XEGQ:1.0787 + WMVP:1.0472 + HCAW2:.9815 + YVNM:.9672 + KFCD:.8413 = 3.45									
KTOK	112437	P B	1000 B	OKLAHOMA CITY OK US	5.800 KW,	DA2-N	CP BP	20100830ABU	35-21-29N/ 97-27-48W
ZYK-522:2.2494 + HOK 36:1.4043 + XEGQ:1.0787 + WMVP:1.0472 + HCAW2:.9815 + YVNM:.9672 + KFCD:.8413 = 3.45									
WVWI	5014	O B	1000 B	CHARLOTTE AMALIE VI US	1.000 KW,	ND1-N	LIC BL	19800908AN	18-20-11N/ 64-56-41W
YVNM:13.0579 + ZYK-522:6.9926 + HOK 36:4.3086 = 15.43									
KOMO	5012	O A	1000 A	SEATTLE WA US	50.000 KW,	DAN-N	LIC BL	19950830AB	47-27-49N/122-26-27W
Class-A protected to 0.5 mv/m skywave contour.									

FCC Form 301 Section III-A #10b Supporting Exhibits
Arizona Lotus Corp. • K T K T (A M)
990 KHz Nighttime Allocation Study, Tucson, Arizona, July 2011

Mueller Broadcast Design
613 S. La Grange Road
La Grange, Illinois 60525
(708) 352-2166

<u>Call</u>	<u>KHz.</u>	<u>Cls</u>	<u>Location</u>		<u>GC-KM</u>	<u>SL-KM</u>	<u>Bear.</u>	<u>G-MP</u>	<u>M-MP</u>	<u>S.W.F.</u>	<u>Min</u>	<u>Max</u>	<u>RSS50</u>	<u>RSS25</u>	<u>Max-IDF</u>	<u>Ant ID</u>
KGLN	980	BO	GLENWOOD SPRINGS	CO US	876.2	898.7	21.2°	35.9°	44.3°	0.055371	7.4°	13.3°	11.57	14.26	3219.5	115206
KDSJ	980	BO	DEADWOOD	SD US	1491.3	1504.7	23.2°	38.4°	46.9°	0.021587	2.2°	5.7°	10.42	11.59	6712.6	4445
CBW	990	AO	WINNIPEG	MB CA	2250.8	2259.7	25.8°	41.2°	50.1°	0.007490	0.0°	0.0°	0.50	-n/a-	333.8	55423
KRKS	990	BO	DENVER	CO US	998.6	1018.4	31.2°	36.1°	44.6°	0.045010	6.0°	11.2°	11.84	11.84	328.8	72691
KMIN	980	BO	GRANTS	NM US	433.2	477.1	41.1°	33.7°	42.1°	0.144801	17.4°	27.9°	12.36	13.94	1203.1	4419
KKMS	980	BO	RICHFIELD	MN US	2074.1	2083.8	42.7°	38.9°	48.0°	0.010992	0.0°	1.9°	14.32	15.55	10000+	4395
WCUB	980	BO	TWO RIVERS	WI US	2411.0	2419.3	50.3°	38.7°	48.2°	0.007980	0.0°	0.2°	28.95	32.21	10000+	4499
CBY	990	AO	CORNER BROOK	NF CA	4737.9	4742.1	50.9°	43.7°	54.4°	0.001312	0.0°	0.0°	0.50	-n/a-	1905.1	55424
CHTX	990	BP	MONTREAL	QC CA	3502.4	3508.1	54.6°	40.3°	50.5°	0.002508	0.0°	0.0°	10.87	-n/a-	10000+	55427
CKGM	990	BO	MONTREAL	QC CA	3502.4	3508.1	54.6°	40.3°	50.5°	0.002508	0.0°	0.0°	10.87	-n/a-	10000+	27563
CHTX	990	BP	MONTREAL	QC CA	3502.4	3508.1	54.6°	40.3°	50.5°	0.002508	0.0°	0.0°	10.87	-n/a-	10000+	27561
CKGM	990	BP	MONTREAL	QC CA	3502.4	3508.1	54.6°	40.3°	50.5°	0.002508	0.0°	0.0°	10.87	-n/a-	10000+	113252
WMVP	1000	AO	CHICAGO	IL US	2293.0	2301.7	55.8°	37.6°	47.1°	0.009374	0.0°	0.8°	0.50	0.50	2667.1	97761
WDEO	990	BO	YPSILANTI	MI US	2652.1	2659.6	57.4°	38.1°	47.8°	0.006675	0.0°	0.0°	13.60	15.11	2828.7	4683
WDCX	990	BO	ROCHESTER	NY US	3133.1	3139.5	57.5°	38.9°	49.0°	0.004292	0.0°	0.0°	10.23	12.14	3535.5	4716
KMBZ	980	BO	KANSAS CITY	MO US	1658.6	1670.6	58.4°	35.9°	45.1°	0.018826	1.2°	4.5°	3.98	4.95	3289.0	4408
WOFX	980	BO	TROY	NY US	3448.0	3453.8	59.4°	39.0°	49.2°	0.003361	0.0°	0.0°	8.23	10.90	10000+	4421
WCAP	980	BO	LOWELL	MA US	3647.3	3652.8	60.0°	39.1°	49.5°	0.002876	0.0°	0.0°	47.82	47.82	10000+	4389
WITY	980	BO	DANVILLE	IL US	2262.1	2270.9	60.8°	36.7°	46.3°	0.009990	0.0°	0.9°	21.97	24.65	10000+	21709
WALE	990	BO	GREENVILLE	RI US	3621.9	3627.4	61.3°	38.8°	49.1°	0.003014	0.0°	0.0°	24.19	27.14	10000+	2037
WILK	980	BO	WILKES-BARRE	PA US	3253.9	3260.1	62.1°	38.0°	48.2°	0.004141	0.0°	0.0°	11.20	12.27	10000+	4434
WONE	980	BO	DAYTON	OH US	2540.8	2548.7	63.5°	36.7°	46.5°	0.007825	0.0°	0.0°	10.18	13.64	10000+	66736
WNTP	990	BO	PHILADELPHIA	PA US	3298.9	3305.0	64.5°	37.5°	47.7°	0.004140	0.0°	0.0°	7.17	7.93	2393.8	99508
KSGM	980	BO	CHESTER	IL US	2012.3	2022.2	66.3°	35.5°	45.0°	0.013211	0.0°	2.2°	11.08	12.84	10000+	1837
WTEM	980	BO	WASHINGTON	DC US	3146.0	3152.3	66.7°	36.8°	47.0°	0.004827	0.0°	0.0°	6.82	7.32	10000+	68436
KTOK	1000	BP	OKLAHOMA CITY	OK US	1296.8	1312.2	70.9°	34.0°	43.1°	0.030216	3.4°	7.5°	2.65	3.45	1427.0	112437
KTOK	1000	BO	OKLAHOMA CITY	OK US	1296.8	1312.2	70.9°	34.0°	43.1°	0.030216	3.4°	7.5°	2.65	3.45	1427.0	4985
WFHG	980	BO	BRISTOL	VA US	2679.0	2686.4	71.6°	35.3°	45.2°	0.007432	0.0°	0.0°	20.44	23.36	10000+	4471
WYFN	980	BO	NASHVILLE	TN US	2273.4	2282.1	72.1°	34.8°	44.5°	0.010605	0.0°	0.9°	9.52	12.72	10000+	4449
WNML	990	BO	KNOXVILLE	TN US	2521.2	2529.2	72.9°	34.9°	44.8°	0.008572	0.0°	0.0°	6.50	8.16	1189.8	80519
KWAM	990	BO	MEMPHIS	TN US	1957.2	1967.4	74.9°	34.1°	43.7°	0.014488	0.0°	2.5°	9.09	10.92	942.4	4758
WAAV	980	BO	LELAND	NC US	3063.5	3070.1	76.8°	34.4°	44.5°	0.005792	0.0°	0.0°	22.98	24.80	10000+	1726
KFCD	990	BO	FARMERSVILLE	TX US	1380.5	1394.9	82.1°	32.9°	42.1°	0.027671	2.8°	6.7°	10.36	11.86	535.7	86641
KSVP	990	BO	ARTESIA	NM US	622.6	653.9	82.4°	32.6°	41.2°	0.092050	11.6°	19.6°	9.35	11.55	156.8	4703
WTOT	980	BO	MARIANNA	FL US	2440.5	2448.7	87.0°	32.2°	42.0°	0.010006	0.0°	0.1°	11.99	15.24	10000+	72567
WRNE	980	BO	GULF BREEZE	FL US	2275.0	2283.8	88.6°	31.9°	41.7°	0.011533	0.0°	0.9°	15.48	19.39	10000+	89512
WDYZ	990	BO	ORLANDO	FL US	2853.2	2860.2	90.4°	31.3°	41.3°	0.007530	0.0°	0.0°	7.21	9.44	1567.3	98800
WGSO	990	BO	NEW ORLEANS	LA US	2005.8	2015.7	91.8°	31.5°	41.1°	0.014725	0.0°	2.3°	18.11	20.96	1779.4	4681
KZZB	990	BO	BEAUMONT	TX US	1620.1	1632.4	93.8°	31.5°	40.8°	0.021534	1.4°	4.7°	15.13	18.07	1048.8	4760
WHSR	980	BO	POMPANO BEACH	FL US	3041.7	3048.3	94.5°	30.2°	40.3°	0.006825	0.0°	0.0°	9.70	12.71	10000+	95986

FCC Form 301 Section III-A #10b Supporting Exhibits
Arizona Lotus Corp. • K T K T (A M)
990 KHz Nighttime Allocation Study, Tucson, Arizona, July 2011

Mueller Broadcast Design
613 S. La Grange Road
La Grange, Illinois 60525
(708) 352-2166

<u>Call</u>	<u>KHz.</u>	<u>Cls</u>	<u>Location</u>		<u>GC-KM</u>	<u>SL-KM</u>	<u>Bear.</u>	<u>G-MP</u>	<u>M-MP</u>	<u>S.W.F.</u>	<u>Min</u>	<u>Max</u>	<u>RSS50</u>	<u>RSS25</u>	<u>Max-IDF</u>	<u>Ant ID</u>
WMYM	990	BO	MIAMI	FL US	3046.2	3052.7	95.6°	29.9°	40.1°	0.006854	0.0°	0.0°	6.43	8.96	1633.6	1553
KRTX	980	BO	ROSENBERG/RICHMO	TX US	1464.8	1478.4	96.7°	31.3°	40.5°	0.025634	2.3°	6.0°	13.56	17.53	8549.7	74619
WVWI	1000	BO	CHARLOTTE AMALIE	VI US	4840.9	4845.1	97.1°	27.2°	38.1°	0.002911	0.0°	0.0°	14.81	15.43	10000+	5014
WPRA	990	BO	MAYAGUEZ	PR US	4644.3	4648.6	98.8°	26.9°	37.7°	0.003245	0.0°	0.0°	6.68	9.06	3489.7	4792
CMKE	990	CP	HOLGUIN	CU	3660.9	3666.3	101.5°	27.6°	38.0°	0.002269	0.0°	0.0°	11.97	-n/a-	10000+	57677
CMGE	990	CO	S SPIRITUS	CU	3312.8	3318.8	102.3°	28.0°	38.2°	0.002863	0.0°	0.0°	9.83	-n/a-	8582.8	57679
CMOE	990	CP	GERONA	CU	3012.0	3018.6	105.5°	27.8°	37.8°	0.003562	0.0°	0.0°	8.54	-n/a-	5996.2	57675
XEUM	990	BO	VALLADOLID	YC MX	2600.4	2608.1	114.0°	26.9°	36.7°	0.005097	0.0°	0.0°	13.87	-n/a-	6803.7	60035
XENVA2	990	BP	ALTARES	CI MX	824.4	848.3	115.3°	30.6°	39.3°	0.083836	11.2°	11.2°	11.07	-n/a-	330.1	59998
XET	990	BP	MONTERREY	NL MX	1272.2	1287.8	122.0°	29.1°	38.1°	0.040520	5.7°	5.7°	16.40	-n/a-	1011.6	110421
XET	990	BO	MONTERREY	NL MX	1272.2	1287.8	122.0°	29.1°	38.1°	0.040520	5.7°	5.7°	16.40	-n/a-	1011.6	60021
XETG	990	BO	TUXTLA GUTIERREZ	CS MX	2489.2	2497.2	129.5°	24.8°	34.3°	0.005728	0.0°	0.0°	30.46	-n/a-	10000+	60001
XEID	990	BP	ALAMO	VE MX	1823.7	1834.6	130.3°	26.8°	35.9°	0.013997	1.9°	1.9°	70.35	-n/a-	10000+	114233
XEID	990	BP	ALAMO	VE MX	1827.2	1838.1	130.4°	26.7°	35.9°	0.013912	1.9°	1.9°	70.27	-n/a-	10000+	113880
XEOL	990	BO	TEZIUTLAN	PU MX	1937.5	1947.8	132.2°	26.2°	35.4°	0.011530	1.3°	1.3°	63.44	-n/a-	10000+	33247
XEOL1	990	BP	TEZIUTLAN	PU MX	1937.3	1947.6	132.3°	26.2°	35.4°	0.011534	1.3°	1.3°	63.46	-n/a-	10000+	60031
XEER	990	BP	CD.CUAUHEMOC	CH MX	588.2	621.3	135.8°	30.3°	38.8°	0.112857	16.7°	16.7°	9.90	-n/a-	219.4	92593
XEER	990	BO	CD.CUAUHEMOC	CH MX	588.2	621.3	135.8°	30.3°	38.8°	0.112857	16.7°	16.7°	9.90	-n/a-	219.4	59996
XEIU	990	BO	OAXACA	OA MX	2215.9	2224.9	136.3°	24.8°	34.1°	0.007831	0.0°	0.0°	42.56	-n/a-	10000+	33240
XEIU1	990	BP	OAXACA	OA MX	2215.9	2224.9	136.3°	24.8°	34.1°	0.007831	0.0°	0.0°	42.56	-n/a-	10000+	60027
XE	990	BP	LAGOS DE MORENO	JA MX	1507.7	1520.9	141.2°	26.9°	35.8°	0.025999	3.8°	3.8°	77.94	-n/a-	7494.1	60007
XEPI	990	BP	PALO REDONDO	GR MX	2002.9	2012.9	141.9°	25.0°	34.1°	0.010360	0.9°	0.9°	52.44	-n/a-	10000+	109462
XEPI	990	BP	PALO REDONDO	GR MX	2002.5	2012.5	141.9°	25.0°	34.1°	0.010365	0.9°	0.9°	52.45	-n/a-	10000+	102307
XEATM	990	BO	MORELIA	MC MX	1707.3	1719.0	142.5°	26.1°	35.0°	0.017297	2.6°	2.6°	70.91	-n/a-	10000+	60011
XEFP	990	BP	JALPA	ZA MX	1422.3	1436.3	143.9°	27.0°	35.8°	0.030627	4.5°	4.5°	72.94	-n/a-	5953.6	105405
XEFP	990	BP	JALPA	ZA MX	1422.3	1436.3	143.9°	27.0°	35.8°	0.030627	4.5°	4.5°	72.94	-n/a-	5953.6	109152
XEFP	990	BP	JALPA	ZA MX	1422.3	1436.3	143.9°	27.0°	35.8°	0.030627	4.5°	4.5°	72.94	-n/a-	5953.6	95037
XEFP	990	BO	JALPA	ZA MX	1422.3	1436.3	143.9°	27.0°	35.8°	0.030627	4.5°	4.5°	72.94	-n/a-	5953.6	33262
XEFP1	990	BP	JALPA	ZA MX	1422.3	1436.3	143.9°	27.0°	35.8°	0.030627	4.5°	4.5°	72.94	-n/a-	5953.6	60043
XE	990	BP	TACAMBARO	MC MX	1733.3	1744.8	144.4°	25.8°	34.8°	0.016461	2.4°	2.4°	66.34	-n/a-	10000+	60015
XEBC	990	BP	CD.GUZMAN	JA MX	1583.6	1596.2	149.9°	26.0°	34.8°	0.022318	3.3°	3.3°	62.04	-n/a-	6950.0	60003
XEBC	990	BO	CD.GUZMAN	JA MX	1583.6	1596.2	149.9°	26.0°	34.8°	0.022318	3.3°	3.3°	62.04	-n/a-	6950.0	33216
XEHZ	990	BO	LA PAZ	BS MX	910.2	931.9	175.7°	28.2°	36.4°	0.072924	9.8°	9.8°	17.67	-n/a-	605.9	59990
KIKI	990	BO	HONOLULU	HI US	4768.4	4772.6	267.3°	28.8°	32.8°	0.003850	0.0°	0.0°	1.79	1.93	627.3	4649
XECL	990	BO	MEXICALI	BN MX	423.6	468.4	276.8°	32.5°	40.3°	0.138372	23.4°	23.4°	4.79	-n/a-	86.5	33187
XECL1	990	BP	MEXICALI	BN MX	413.3	459.1	277.3°	32.5°	40.3°	0.140560	23.9°	23.9°	4.83	-n/a-	86.0	59987
KCEO	1000	BP	VISTA	CA US	595.4	628.1	282.2°	32.8°	40.5°	0.097707	12.2°	20.5°	13.43	13.43	1718.0	90426
KCEO	1000	BO	VISTA	CA US	595.3	628.0	282.2°	32.8°	40.5°	0.097717	12.2°	20.5°	13.43	13.43	1717.8	4923
KFWB	980	BO	LOS ANGELES	CA US	698.2	726.3	288.7°	33.2°	40.8°	0.078879	10.1°	17.3°	4.70	5.42	859.1	4328
KTMS	990	BP	SANTA BARBARA	CA US	841.3	864.8	289.4°	33.4°	40.9°	0.060564	7.8°	14.0°	7.74	8.10	167.1	107892

FCC Form 301 Section III-A #10b Supporting Exhibits
Arizona Lotus Corp. • K T K T (A M)
990 KHz Nighttime Allocation Study, Tucson, Arizona, July 2011

Mueller Broadcast Design 613 S. La Grange Road La Grange, Illinois 60525 (708) 352-2166

<u>Call</u>	<u>KHz.</u>	<u>Cls</u>	<u>Location</u>		<u>GC-KM</u>	<u>SL-KM</u>	<u>Bear.</u>	<u>G-MP</u>	<u>M-MP</u>	<u>S.W.F.</u>	<u>Min</u>	<u>Max</u>	<u>RSS50</u>	<u>RSS25</u>	<u>Max-IDF</u>	<u>Ant ID</u>
KTMS	990	BO	SANTA BARBARA	CA US	841.3	864.8	289.4°	33.4°	40.9°	0.060564	7.8°	14.0°	7.74	8.10	167.1	4627
KDBV	980	BO	SALINAS	CA US	1089.2	1107.4	300.1°	34.6°	41.9°	0.040674	5.1°	9.9°	20.28	20.28	6231.5	54453
KATD	990	BO	PITTSBURG	CA US	1153.3	1170.5	309.9°	35.5°	42.8°	0.036727	4.5°	9.1°	6.42	6.42	218.6	107175
KINS	980	BO	EUREKA	CA US	1505.8	1519.0	312.8°	36.7°	43.8°	0.023102	2.1°	5.6°	9.33	10.68	5778.8	98575
NEW	980	BP	KENAI	AK US	4284.3	4289.0	329.3°	48.0°	53.3°	0.001260	0.0°	0.0°	2.48	2.75	10000+	104448
NEW	980	BP	KENAI	AK US	4284.3	4289.0	329.3°	48.0°	53.3°	0.001260	0.0°	0.0°	2.48	2.75	10000+	81911
KOMO	1000	AO	SEATTLE	WA US	1947.4	1957.6	333.6°	40.0°	47.2°	0.012934	0.0°	2.6°	0.50	0.50	1933.0	5012
NEW	990	BP	PRINCE RUPERT	BC CA	2881.0	2887.9	334.0°	43.7°	50.3°	0.003960	0.0°	0.0°	4.22	-n/a-	2665.4	55420
KBBO	980	BO	SELAH	WA US	1795.6	1806.7	335.7°	39.5°	46.9°	0.015313	0.5°	3.5°	19.26	19.26	10000+	70918
CBDB	990	BP	WATSON LAKE	YT CA	3354.9	3360.9	342.4°	46.5°	53.3°	0.002778	0.0°	0.0°	11.41	-n/a-	10000+	101426
KSVC	980	BO	RICHFIELD	UT US	729.7	756.7	352.7°	35.5°	43.5°	0.073087	9.5°	16.5°	14.11	15.47	2645.1	99315
KSPZ	980	BO	AMMON	ID US	1255.8	1271.6	356.3°	37.9°	45.9°	0.030092	3.7°	7.9°	11.57	14.61	6068.2	4370

KEY:

Call = Callsign

Location = City, State, Country

Bear. = Bearing to station in degrees

S.W.F. = Skywave Factor in mv/m

RSS50 = 50% exclusion RSS

KHz. = Frequency in Kilohertz

GC-KM = Distance in kilometers

G-MP = Geographic Midpoint Latitude

Min = Minimum Critical Angle in degrees

RSS25 = 25% exclusion RSS

Cls = Station Class

SL-KM = Slant distance in KM

M-MP = Geomagnetic Midpoint Latitude

Max = Maximum Critical Angle in degrees

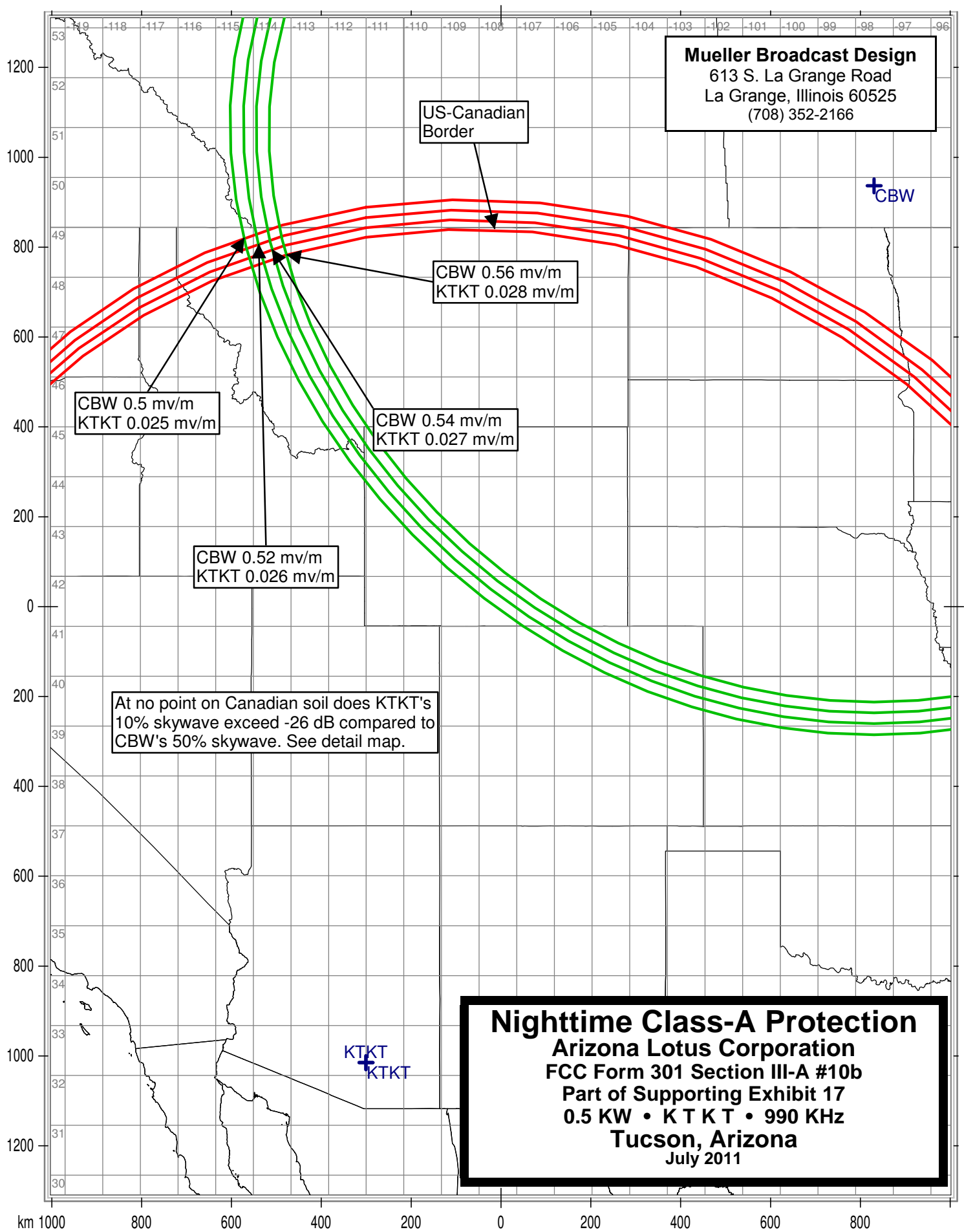
MaxIDF = Maximum calculated allowable radiation in mv/m/km. **AntID** = FCC Antenna ID

FCC Form 301 Section III-A #10b Supporting Exhibits
Arizona Lotus Corp. • K T K T (A M)
990 KHz Nighttime Allocation Study, Tucson, Arizona, July 2011

Mueller Broadcast Design 613 S. La Grange Road La Grange, Illinois 60525 (708) 352-2166

Vert. Elev.	Critical Bearings from KTKT:									
	25.79°	31.18°	82.39°	115.34°	135.78°	276.85°	277.30°	289.37°	289.37°	309.87°
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0°	242.92	247.78	286.46	313.95	313.58	78.52	78.33	77.25	77.25	95.97
5°	241.75	246.62	285.21	312.39	311.96	78.66	78.47	77.47	77.47	96.07
10°	238.30	243.15	281.49	307.73	307.13	79.07	78.89	78.11	78.11	96.37
15°	232.63	237.45	275.32	300.07	299.18	79.76	79.60	79.12	79.12	96.80
20°	224.88	229.64	266.74	289.52	288.29	80.68	80.55	80.42	80.42	97.25
25°	215.22	219.87	255.84	276.27	274.67	81.76	81.64	81.86	81.86	97.56
30°	203.85	208.34	242.71	260.55	258.60	82.83	82.74	83.23	83.23	97.55
35°	190.97	195.22	227.50	242.64	240.39	83.66	83.59	84.27	84.27	97.00
40°	176.79	180.73	210.39	222.84	220.39	83.96	83.91	84.68	84.68	95.66
45°	161.50	165.07	191.61	201.49	198.95	83.41	83.37	84.13	84.13	93.31
50°	145.30	148.42	171.42	178.96	176.46	81.67	81.64	82.32	82.32	89.70
55°	128.35	130.96	150.13	155.62	153.30	78.44	78.42	78.97	78.97	84.65
60°	110.78	112.87	128.08	131.85	129.82	73.45	73.44	73.84	73.84	77.98
At minimum critical angles:										
Theta=	0.0°	6.0°	11.6°	11.2°	16.7°	23.4°	23.9°	7.8°	7.8°	4.5°
E(mv)=	242.92	246.11	279.78	306.16	295.80	81.40	81.40	77.78	77.78	96.05
At maximum critical angles:										
Theta=	0.0°	11.2°	19.6°	11.2°	16.7°	23.4°	23.9°	14.0°	14.0°	9.1°
E(mv)=	242.92	241.98	267.52	306.16	295.80	81.40	81.40	78.89	78.89	96.31
Point=	CBW	KRKS	KSVP	XENVA2	XEER	XECL	XECL1	KTMS	KTMS	KATD
RadLim=	333.78	328.77	284.40	330.14	297.00	86.54	85.97	167.09	167.09	218.56
SWFuV=	7.490	45.010	92.050	83.836	112.857	138.372	140.560	60.564	60.564	36.727
Limit=	0.364	2.215	5.151(1)	5.134	6.677(2)	2.253	2.288	0.956	0.956	0.707
R.S.S.=	0.50	11.84	11.55	11.07	9.90	4.79	4.83	8.10	8.10	6.42
% of RSS=	**	18.71%	44.61%	46.37%	67.41%	47.03%	47.34%	11.80%	11.80%	11.02%

Radiation Limit (RadLim) in mv/m/km, Skywave Factor (SWF) in uv/m/km.
 Limit from KTKT to point in mv/m, RSS Limit for point in mv/m. * = first-adjacent. ** = class-A
 (1) current radiation toward KSVP = 284.4 mv/m/km Limit = 5.2355 mv/m
 (2) current radiation toward XEER = 297.0 mv/m/km Limit = 6.7016 mv/m



Nighttime Class-A Protection
Arizona Lotus Corporation
FCC Form 301 Section III-A #10b
Part of Supporting Exhibit 17
0.5 KW • K T K T • 990 KHz
Tucson, Arizona
July 2011

