

City of Chicago Richard M. Daley, Mayor

Office of Emergency Management and Communications

141) West Madison Street Chicago, Ulinois 60607 (312) 746-9111 (312) 746-9120 (FAX) (312) 746-9911 (TTY) http://www.cityofchicago.org 19 April 2007

Scott Kotler
Chief, Systems Analysis Branch
Satellite Division
International Bureau
Federal Communications Commission

Mr. Kotler:

Please include the attached spreadsheet with FCC file number SES-LIC-20070404-00445 in reference to the 2-degree compliance demonstration spreadsheet.

Thank you for your prompt consideration,

James G. Argiropoulos
Acting Executive Director

Office of Emergency Management and Communications

City of Chicago

NEIGHBORHOODS

Two Degree Demonstration for Antenna Input of 8.67W, Bandwidth 4 MHz

Routinely Licensed Input power density (dBW/4 kHz)

-14 Digital Maximum antenna Gain (dBi) @ 14.25 GHz

Max EIRP density (dBW/4 kHz) for proposed Earth Station

Non-routinely sized antenna input Power density (dBW/4 kHz)

-20.62

Value of Theta	25/209(a)(1)(4)	Maria Programa	i - Ni basas-sa		
(degrees)		Off-Axis (), EIRP Defisity	Non-Routinely	Max off-axis	Margin
(degrees)	The second	underst.	sized Antenna Off-	EIRP Density of	
		Routhers	Axis Gain (dBi)	non-routinely	
				sized antenna	
		Licensing)		(dBW/4kHz)	
1.25	2.3.386266	12.5	32.7	12.08	0.50
1.3	1 262	12.2	32.2	11.58	0.57
1,4	250	ELITE SELECT	29.7	80.9	2.27
1.5	248	and the states of the states	28.7	8.08	2.52
1.6	23.9	######################################	25.2	4.58	5.32
1.7	26.2	515 P41 5175952	23.7	3.08	6.16
1.8		64 G 3 E 3 E 3 E 3 E 3 E 3 E 3 E 3 E 3 E 3	22.6	1.98	6.64
1.9	22.0	13:20:20	22	1.38	6.65
2	型。4.5-215	\$2.52.43VE87/5	21.4	0.78	6.69
2.1	元3 美国的第20 9	9 20 6	20.9	0.28	6.66
2.2	\$1.55.75.20.4	6.4	20.4	- 0.22	6.66
2.3	:/"q"21276280.0		19.9	-0.7 <u>2</u>	6.68
2.4	B 142-119 6	基础等5 5	19.5	-1.12	6.61
2.5	17.77.77.79.11	Market 15:1	19.1	-1.52	6.57
2.6	4.42: 15.18.6	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	18.6	-2.02	6. <u>65</u>
2.7	1) 45/11/1182	F1-1-A19/412	18.2	-2.42	6.64
2.8	32.43/14/19/7/8	30.50 W. 30.8	17.8	-2.82	6.64
2.9	X-1401/1774		17.4	-3.22	6.66
3	3.00 (1.00 TAN		17.1	-3.52	<u>6.59</u>
3.5	NATA PARA 54 1876 - 2 34 319		15.4	-5.22	6.62
4.5	######################################	577.5-6-521, 4031 5-3-6-71115193	13.9	-6.72	6.67
4 .5	12.4 1.5	2.5	12.7	-7.92 -9.12	6.59
		3. 3. 16. 4. 3. 5	11,5 10.5	-10.12	6.65 6.61
		747978 2415	9.5	-11.12	6.67
6.5	16.65 年 17.65 11.55 日 17.65	5.3	8.7	-11,92	6.60
7	E 500 1 7 107 19	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.8	-12.82	6.69
7.1	8.10.408.0	5000 0 60	7.7	-12.92	6.92
8	# 80 J. #88.0	≈ ₇ ,¥≥357: }\$-610	6.4	-14.22	8.22
9.2	0.8%NEE	6.0	4.9	<u>-15.72</u>	9,72
10		7:52 N 144-7:0	4	-16.62	9.62
11	(4)4 - 12 - 16 0	:::::45 ii-8:0	3	-17.62	9.59
	******5.0		2	-18.62	<u>9.64</u>
15	沙京巴尼第26	731-132E; F1/124	-0,4	-21.02	9.62
<u>2</u> 0	计数型差距设置	34.2.2.7.4.5	-3.5	-2 <u>4.1</u> 2	9.59
25	3 w 29	**************************************	-3.5	- <u>24.12</u>	7.17
30	49 2.66	18.9	-4 <u>.9</u>	-25.52	6.59
35	**********6·6	≎યાર્જ્ય (⊈ે, ⊱20:6	<u>-6.6</u>	<u>-27.22</u>	6.62
40	43-23 AV 41-8-1	22:1	-8	-28.62	6.57
48		24.0		-30.62	6.59

Two Degree Demonstration for Antenna Input of 8.67W, Bandwidth 4 MHz

50	**************************************	40	20.62	6.60
30	Aller and the contract of the	<u> </u>	-30.62	6.62
60	34.2 D17721010 EDIETE 722	FD -10	-30.62	6.62
70	126/5/1924/1010 (423/5/22/22	-1 <u>0</u>	-30.62	6.62
80	55.755.35-10f0 该洲岛的\$22	-10	-30.62	6.62
<u>9</u> 0	135-2-53001-10101-155-6-6-2-22	€0 -10	-30.62	6.62
100	经营收契约的 经经济证据	₹ 0 .=10	- <u>30.62</u>	6.62
<u>12</u> 0	2514222300 Shakkara	fig -10	-30,62	6.62
140	TV = 14:31=10:0 (49)=48:99:52	₩Q -10	-30.62	6.62
160	35 SEA 2051 010 EARLY STIFE	-10	-30.62	6.62
180	1/49-14-1510'0 ST 16-7E-24	¥Q	-30.62	6.62

Minimum Margin

0.50

----Original Message-----

From: aroush@cityofchicago.org [mailto:aroush@cityofchicago.org]

Sent: Wednesday, April 18, 2007 10:31 AM

To: Scott Kotler

Subject: Fwd: FCC file number SES-LIC-20070404-00445

Scott-

Here is some supplemental information for our license submission that you requested.

Thanks,

Aric

Aric Roush

Assistant Director of Information Services Office of Emergency Management & Communications (312) 746-9268

>>> "Larry Augsburger" <Larry.Augsburger@morganfranklin.com> 4/18/2007 >>> 9:26 AM >>>

Aric.

The following information should be included in a letter from the OEMC to the FCC (Scott Kotler) along with the attached files. This should resolve Scott Kotler's issues with the license submittal and allow it to proceed.

Please modify the license application file number SES-LIC-20070404-00445 with the following changes:

*

3.7 meter hub antenna: for emission 4M80G1D, the EIRP density per carrier (Item E49 of Schedule B) should be 38.8 dBW/4 kHz and the Maximum EIRP per carrier (Item E48 of Schedule B) should be 69.59 dBW. The Total EIRP for all Carriers (Item E40) should be 69.59 dBW.

*

UCV-1 (1.5 meter antenna), for emission 4M00G1D, the EIRP density per carrier (Item E49 of Schedule B) should be 31.5 dBW/4 kHz and the Maximum EIRP per carrier (Item E48 of Schedule B) should be 61.5 dBW.

Total EIRP for all Carriers (Item E40) should be 61.5 dBW.

*

UCV-2 (0.96 meter antenna) is NOT compliant with 25.209(a) and (b), see attached files for radiation patterns. Also, for emission 4M00G1D, the EIRP density per carrier (Item E49 of

Schedule B) should be 20.58 dBW/4 kHz and the Maximum EIRP per carrier (Item E48 of Schedule B) should be 50.58 dBW. Total EIRP for all Carriers (Item E40) should be 50.58 dBW. Total Input Power at Antenna Flange (Item E38) should be 8.67 Watts.

Regards,

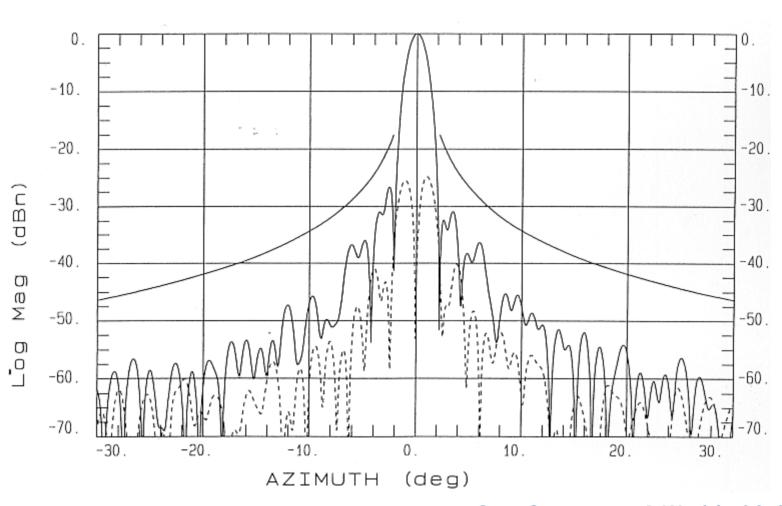
Larry Augsburger Sr. Systems Analyst

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ranklin.com/exchweb/bin/redir.asp?URL=http://www.morganfranklin.com>

SURPASSING EXPECTATIONS(tm)



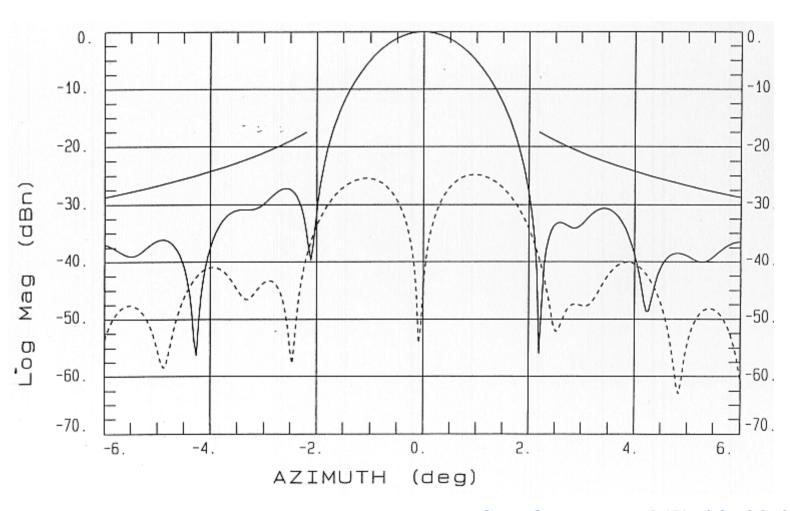
14.25 GHz, Vertical



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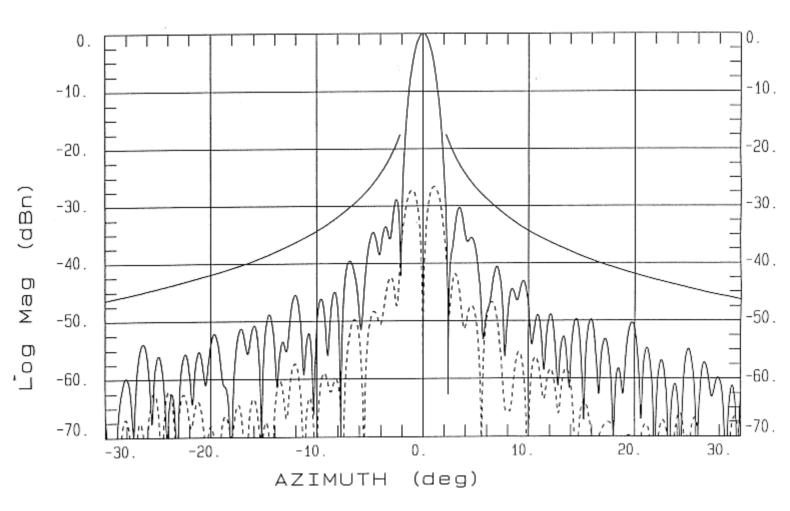


14.25 GHz, Vertical



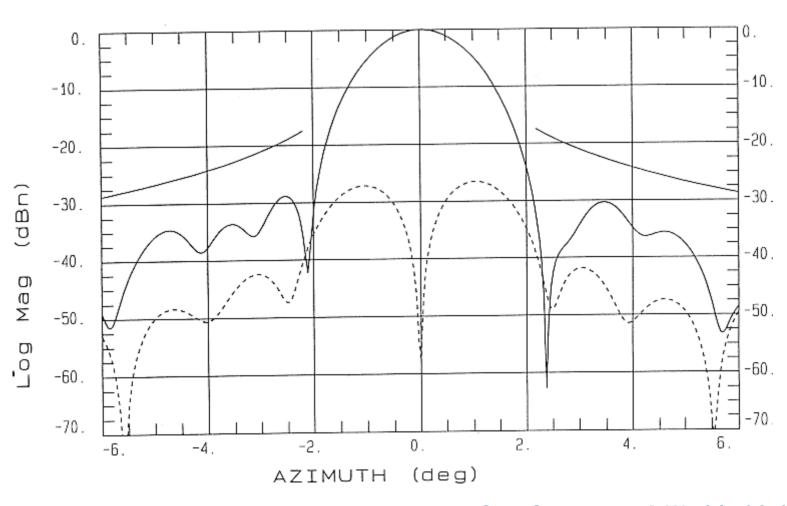


14.25 GHz, Horizontal



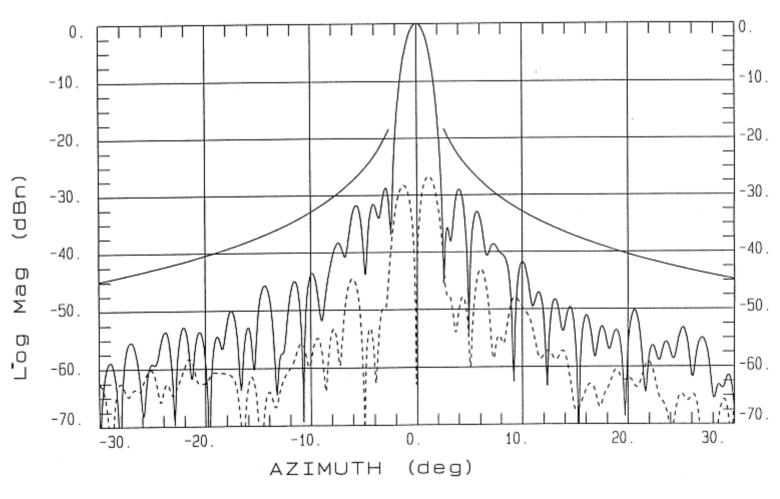


14.25 GHz, Horizontal



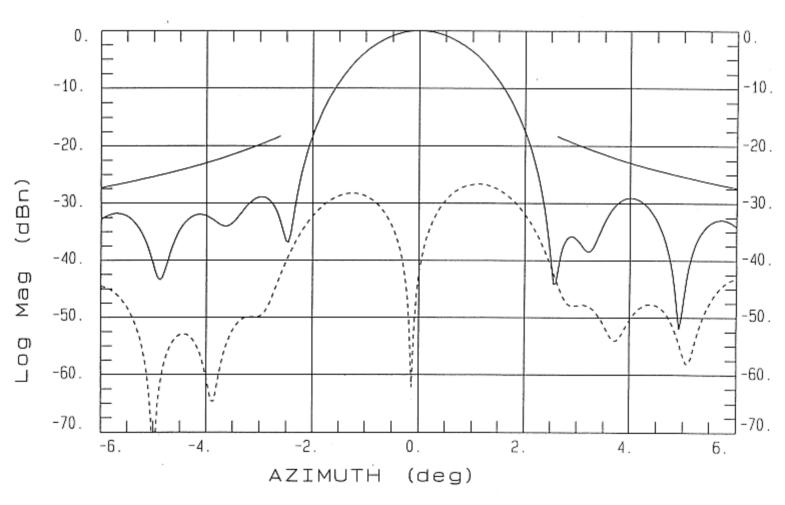


11.95 GHz, Vertical



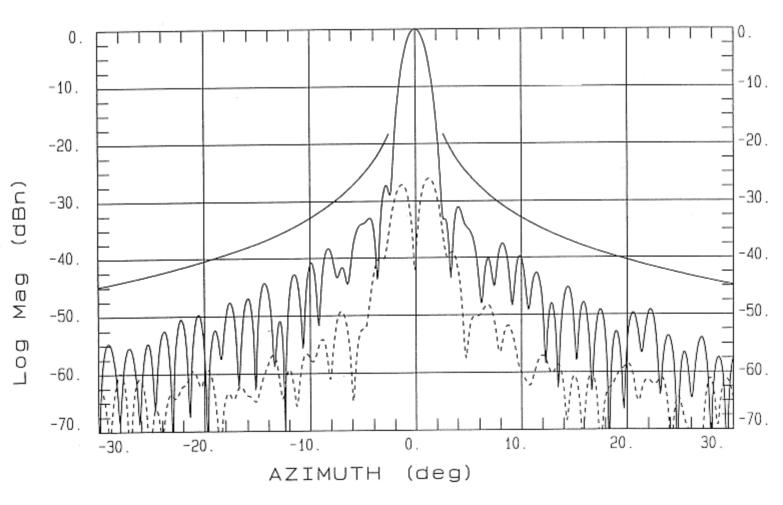


11.95 GHz, Vertical



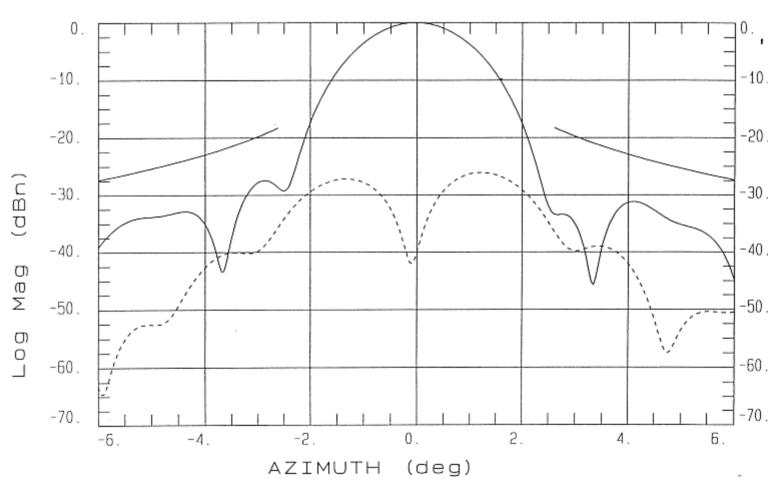


11.95 GHz, Horizontal





11.95 GHz, Horizontal



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