

Mobile
SATELLITE CONNECTION

January 6, 2003

Ms. Sylvia Lam
 Federal Communications Commission
 Satellite and Radiocommunication Division
 International Bureau
 The Portals, 445 Twelfth Street NW
 Room 7-A346
 Washington, D.C. 20554

Re: STA for Mobile Satellite Connection
 Temporary fixed earth station at Honolulu & Maui, HI.
 SES-STA-20021230-02167

Dear Ms. Lam:

Mobile Satellite Connection hereby requests the following additions to the STA referenced above.

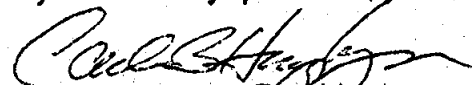
The revision involves an addition of emission designators and frequency band as shown below. There is also an increase in the transmit power from -16.8 dBW/4 kHz to -14.5 dBW/4 kHz.

Emission / Transmit Band (MHz) 9M00G7W / 6227.0000 - 6263.0000
 18M0G7W / 6227.0000 - 6263.0000

	<u>9M00G7W</u>	<u>18M0G7W</u>	
Max. Available RF Power (dBW)/4 kHz	-14.50	-15.60	
	(dBW)/MHz) 9.50	8.40	
Max. EIRP	(dBW)/4 kHz) 27.50	26.40	
	(dBW)/MHz) 51.50	50.40	
	(dBW) 61.00	63.00	

All other parameters remain the same. The transmit power in watts is the same as shown in the previous radiation hazard study.

If you have any questions, please call me at (251)-666-5757.


 Carl Humphreys, President
 Mobile Satellite Connection



Robert C. Draper
Principal Engineer
Satellite Services Engineering
500 Hills Drive
P.O. Box 7018
Bedminster, NJ 07921
Office (908)-470-2326
Fax (908)-470-2546

January 8, 2003

Ms. Sylvia Lam
Federal Communications Commission
Satellite and Radiocommunication Division
International Bureau
The Portals, Room 7-A346
445 12th Street, S.W.
Washington, DC 20554

Subject: STA request for Mobile Satellite Connection to transmit using a 2.4 meter C-band temporary-fixed earth station from Honolulu, Maui, and Kona Hawaii to the Telstar 7 Satellite located at 129° West Longitude.

Dear Ms. Lam:

The purpose of this letter is to certify that Loral Skynet¹ is fully aware that Mobile Satellite Connection is planning to communicate with the Telstar 7 U.S. domestic satellite using Prodelin offset C-band transmit/receive antennas that do not strictly conform to the FCC 2-degree spacing requirements for off-axis sidelobe gain².

Loral Skynet is authorized to operate and currently operates Telstar 7 at 129° WL in the geostationary earth orbit.

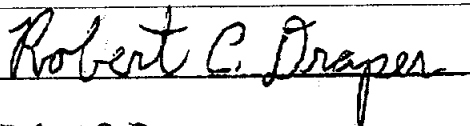
The undersigned certifies that Loral Skynet has examined the performance parameters of the Prodelin 2.4 meter diameter antenna, as it is to be used by Mobile Satellite Connection. This antenna exhibits non-conformance in the region from 1.0 to 1.5 degrees off axis from maximum gain, due to the width of its main gain lobe. It is understood that this antenna will be used to transmit wideband digital carriers having a maximum symbol-rate bandwidth of 20 MHz and operating at a maximum input power density at the antenna waveguide flange of -14.5 dBW/4 kHz.

¹ Skynet is a registered trademark of Loral SpaceCom Corporation

² 47 CFR § 25.209

Loral Skynet confirms that the operation of this antenna with these parameters is fully consistent with the Telstar 7 coordination agreements, and will be taken into account as necessary in all future intersystem coordination agreements between Loral Skynet and affected adjacent satellite operators.

Respectfully,

A handwritten signature in cursive script that reads "Robert C. Draper". The signature is written in black ink and is positioned above the printed name.

Robert C. Draper



COMSEARCH®

January 6, 2003

*** CLIENT COPY ***
*** PLEASE MAIL ***
*** TO CUSTOMER ***

Re: Mobile Satellite Connection
Maui, Hawaii - Kapakua Resort
Temporary Transmit-Only Earth Station
Revision Notice
Operation Dates: 01/06/03 - 01/12/03


Dear Frequency Coordinator:

On behalf of our client referenced above, we are forwarding the attached coordination data for a temporary transmit-only earth station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

This revision notice is for the addition the frequency band of 6227 - 6263 MHz, the addition of emission designators 9M00G7W and 18M0G7W and a increase in the transmit power to -14.5 dBW/4 kHz.

Sincerely,


Timothy O. Crutcher
Senior Frequency Coordinator
Microwave and Satellite Services

Enclosure

Table of Earth Station Coordination Values
01/06/2003

Earth Station Name MAUI HI
 Owner MOBILE SATELLITE CONNECTION
 Latitude (DMS) (NAD83) 20 59 58.0 N
 Longitude (DMS) (NAD83) 156 39 33.0 W
 Ground Elevation (Ft/m) 240.01 / 73.15 AMSL
 Antenna Centerline (Ft/m) 12.01 / 3.66 AGL
 Objectives: Transmit -154.0 (dBW /4 kHz) TX Power -14.5 (dBW/4 kHz)

Azimuth (Deg)	Horizon Elevation Angle (Deg)	Antenna Disc. Angle (Deg)	Antenna Gain (dBi)	6.0 GHz Coordination Distance (Km)
0	0.00	111.17	-10.00	131.5
5	0.00	108.28	-10.00	131.5
10	0.00	105.30	-10.00	131.5
15	0.00	102.25	-10.00	131.5
20	0.00	99.13	-10.00	131.5
25	0.00	95.97	-10.00	131.5
30	0.00	92.79	-10.00	131.5
35	0.00	89.59	-10.00	131.5
40	0.00	86.40	-10.00	131.5
45	0.00	83.22	-10.00	131.5
50	0.00	80.07	-10.00	131.5
55	0.00	76.97	-10.00	131.5
60	0.00	73.93	-10.00	131.5
65	0.00	70.98	-10.00	131.5
70	0.00	68.12	-10.00	131.5
75	0.52	65.10	-10.00	106.6
80	0.65	62.38	-10.00	100.5
85	1.13	59.59	-10.00	100.0
90	1.29	57.17	-10.00	100.0
95	1.89	54.60	-10.00	100.0
100	2.05	52.60	-10.00	100.0
105	2.54	50.57	-10.00	100.0
110	2.60	49.25	-10.00	100.0
115	3.21	47.73	-9.97	100.0
120	3.59	46.80	-9.76	100.0
125	4.05	46.19	-9.61	100.0
130	4.71	45.79	-9.52	100.0
135	4.57	46.61	-9.71	100.0
140	5.01	47.28	-9.87	100.0
145	4.80	48.95	-10.00	100.0
150	4.99	50.59	-10.00	100.0
155	4.46	53.12	-10.00	100.0
160	3.62	56.06	-10.00	100.0
165	2.81	59.10	-10.00	100.0
170	2.47	61.97	-10.00	100.0
175	1.69	65.17	-10.00	100.0
180	1.30	68.23	-10.00	100.0

Table of Earth Station Coordination Values
01/06/2003

Earth Station Name MAUI HI
 Owner MOBILE SATELLITE CONNECTION
 Latitude (DMS) (NAD83) 20 59 58.0 N
 Longitude (DMS) (NAD83) 156 39 33.0 W
 Ground Elevation (Ft/m) 240.01 / 73.15 AMSL
 Antenna Centerline (Ft/m) 12.01 / 3.66 AGL
 Objectives: Transmit -154.0 (dBW /4 kHz) TX Power -14.5 (dBW/4 kHz)

Azimuth (Deg)	Horizon Elevation Angle (Deg)	Antenna Disc. Angle (Deg)	Antenna Gain (dBi)	6.0 GHz Coordination Distance (Km)
185	0.89	71.37	-10.00	100.0
190	0.56	74.52	-10.00	104.8
195	0.29	77.68	-10.00	124.3
200	0.00	80.87	-10.00	131.5
205	0.00	84.03	-10.00	131.5
210	0.00	87.21	-10.00	131.5
215	0.00	90.41	-10.00	131.5
220	0.00	93.60	-10.00	131.5
225	0.00	96.78	-10.00	131.5
230	0.00	99.93	-10.00	131.5
235	0.00	103.03	-10.00	131.5
240	0.00	106.07	-10.00	131.5
245	0.00	109.02	-10.00	131.5
250	0.00	111.88	-10.00	131.5
255	0.00	114.62	-10.00	131.5
260	0.00	117.21	-10.00	131.5
265	0.00	119.64	-10.00	131.5
270	0.00	121.87	-10.00	131.5
275	0.00	123.88	-10.00	131.5
280	0.00	125.64	-10.00	131.5
285	0.00	127.12	-10.00	131.5
290	0.00	128.29	-10.00	131.5
295	0.00	129.14	-10.00	131.5
300	0.00	129.63	-10.00	131.5
305	0.00	129.77	-10.00	131.5
310	0.00	129.54	-10.00	131.5
315	0.00	128.95	-10.00	131.5
320	0.00	128.03	-10.00	131.5
325	0.00	126.77	-10.00	131.5
330	0.00	125.22	-10.00	131.5
335	0.00	123.40	-10.00	131.5
340	0.00	121.33	-10.00	131.5
345	0.00	119.04	-10.00	131.5
350	0.00	116.57	-10.00	131.5
355	0.00	113.94	-10.00	131.5



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SUPPLEMENTAL SHOWING, PART 25.203(C)

Mobile Satellite Connection
Maui, Hawaii - Kapakua Resort
Temporary Transmit-Only Earth Station
Operation Dates: 01/06/03 - 01/12/03

PURSUANT TO PART 25.203(C) OF THE FCC RULES AND REGULATIONS THE ABOVE REFERENCED SATELLITE EARTH STATION WAS COORDINATED WITH THE EXISTING LICENSEES AND APPLICANTS WHOSE FACILITIES COULD BE AFFECTED. VERBAL AND WRITTEN COORDINATION WAS CONDUCTED ON JANUARY 6, 2003.

THE FOLLOWING CARRIERS OR THEIR DESIGNATED COORDINATION AGENTS WERE NOTIFIED:

AT&T WIRELESS SERVICES OF HAWAII, INC.
COLUMBIA OPERATIONS CENTER - FCC
COMSEARCH
HAWAII STATE
MAUI COMMUNITY COLLEGE
PACWEST NETWORK HAWAII INC
UNIVERSITY OF HAWAII
VERIZON HAWAII INC.

THERE ARE NO UNRESOLVED INTERFERENCE OBJECTIONS WITH THE STATIONS CONTAINED IN THESE APPLICATIONS.

RESPECTFULLY SUBMITTED,

COMSEARCH


TIMOTHY O. CRUTCHER
SENIOR FREQUENCY COORDINATOR



January 6, 2003

*** CLIENT COPY ***
*** PLEASE MAIL ***
*** TO CUSTOMER ***

Re: Mobile Satellite Connection
Honolulu, Hawaii - Waialae Country Club
Temporary Transmit-Only Earth Station
Revision Notice
Operation Dates: 01/15/03 - 01/19/03


Dear Frequency Coordinator:

On behalf of our client referenced above, we are forwarding the attached coordination data for a temporary transmit-only earth station to be located at the site referenced above.

This earth station will transmit only on the satellite(s) and frequency or frequencies as described in the attached data. Please do not report cases involving 4 GHz facilities or problems involving non-active paths or frequencies outside the specified range.

This revision notice is for the addition the frequency band of 6227 - 6263 MHz, the addition of emission designators 9M00G7W and 18M0G7W and a increase in the transmit power to -14.5 dBW/4Khz.

Sincerely,



Timothy O. Crutcher
Senior Frequency Coordinator
Microwave and Satellite Services

Enclosure

SATELLITE EARTH STATION
 FREQUENCY COORDINATION DATA
 01/06/2003

Company	MOBILE SATELLITE CONNECTION		
Earth Station Name, State	HONOLULU, HI		
Latitude (DMS) (NAD83)	21 16 22.0 N		
Longitude (DMS) (NAD83)	157 46 36.0 W		
Ground Elevation AMSL (Ft/m)	10.01 /	3.05	
Antenna Centerline AGL (Ft/m)	12.01 /	3.66	
Transmit Antenna Type:	FCC32	PRODELIN	
6.0 GHz Gain (dBi) / Diameter (m)	42.0 /	2.4	
3 dB / 15 dB Half Beamwidth	0.80 /	1.60	
Operating Mode	TRANSMIT ONLY		
Modulation	DIGITAL		
Emission / Transmit Band (MHz)	9M00G7W /	6227.0000 -	6263.0000
	18M0G7W /	6227.0000 -	6263.0000
	<u>9M00G7W</u>	<u>18M0G7W</u>	
Max. Available RF Power (dBW)/4 kHz	-14.50	-15.60	
(dBW)/MHz)	9.50	8.40	
Max. EIRP (dBW)/4 kHz)	27.50	26.40	
(dBW)/MHz)	51.50	50.40	
(dBW)	61.00	63.00	
Max permissible Interference Power			
6.0 GHz, 20% (dBW/4 kHz)	-154.0		
6.0 GHz, 0.0025% (dBW/4 kHz)	-131.0		
Range of Satellite Arc (Geostationary)			
Degrees Longitude	129.0 W / 129.0 W		
Azimuth Range (Min/Max)	123.5 / 123.5		
Corresponding Elevation Angles	49.1 / 49.1		
Radio Climate	C		
Rain Zone	4		
Max Great Circle Coordination Distance (Mi/Km)			
6.0 GHz	138.1 /	222.2	
Precipitation Scatter Contour Radius (Mi/Km)			
6.0 GHz	62.1 /	100.0	

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 Antenna Centerline (Ft/m) 12.01 / 3.66 AGL
 Objectives: Transmit -154.0 (dBW /4 kHz) TX Power -14.5 (dBW/4 kHz)

Azimuth (Deg)	Horizon Elevation Angle (Deg)	Antenna Disc. Angle (Deg)	6.0 GHz	
			Antenna Gain (dBi)	Coordination Distance (Km)
0	0.00	111.16	-10.00	222.2
5	7.02	110.71	-10.00	100.0
10	6.09	106.92	-10.00	100.0
15	5.98	103.36	-10.00	100.0
20	5.94	99.77	-10.00	100.0
25	6.48	96.21	-10.00	100.0
30	6.21	92.53	-10.00	100.0
35	6.05	88.87	-10.00	100.0
40	5.53	85.26	-10.00	100.0
45	4.94	81.74	-10.00	100.0
50	4.21	78.35	-10.00	100.0
55	3.88	75.00	-10.00	100.0
60	3.12	71.90	-10.00	100.0
65	2.42	68.95	-10.00	100.0
70	1.54	66.29	-10.00	100.0
75	0.50	63.97	-10.00	153.4
80	0.00	61.61	-10.00	222.2
85	0.00	59.14	-10.00	222.2
90	0.49	56.50	-10.00	155.3
95	1.06	53.98	-10.00	100.0
100	0.93	52.26	-10.00	104.7
105	0.00	51.59	-10.00	222.2
110	0.00	50.43	-10.00	222.2
115	0.00	49.62	-10.00	222.2
120	0.00	49.17	-10.00	222.2
125	0.00	49.10	-10.00	222.2
130	0.00	49.40	-10.00	222.2
135	0.00	50.08	-10.00	222.2
140	0.00	51.11	-10.00	222.2
145	0.00	52.47	-10.00	222.2
150	0.00	54.13	-10.00	222.2
155	0.00	56.07	-10.00	222.2
160	0.00	58.25	-10.00	222.2
165	0.00	60.65	-10.00	222.2
170	0.00	63.23	-10.00	222.2
175	0.00	65.96	-10.00	222.2
180	0.00	68.84	-10.00	222.2

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Azimuth (Deg)	Horizon Elevation Angle (Deg)	Antenna Disc. Angle (Deg)	Antenna Gain (dBi)	6.0 GHz Coordination Distance (Km)
185	0.00	71.82	-10.00	222.2
190	0.00	74.89	-10.00	222.2
195	0.00	78.04	-10.00	222.2
200	0.00	81.24	-10.00	222.2
205	0.00	84.48	-10.00	222.2
210	0.00	87.74	-10.00	222.2
215	0.00	91.02	-10.00	222.2
220	0.00	94.28	-10.00	222.2
225	0.41	97.60	-10.00	175.3
230	0.20	100.80	-10.00	222.0
235	0.00	103.92	-10.00	222.2
240	0.65	107.25	-10.00	135.0
245	0.83	110.39	-10.00	114.7
250	0.94	113.42	-10.00	103.2
255	1.04	116.33	-10.00	100.0
260	1.26	119.17	-10.00	100.0
265	0.98	121.53	-10.00	100.0
270	1.44	124.20	-10.00	100.0
275	1.46	126.34	-10.00	100.0
280	1.56	128.29	-10.00	100.0
285	1.33	129.63	-10.00	100.0
290	1.10	130.62	-10.00	100.0
295	0.88	131.25	-10.00	109.1
300	1.12	131.95	-10.00	100.0
305	1.54	132.44	-10.00	100.0
310	2.08	132.66	-10.00	100.0
315	2.58	132.41	-10.00	100.0
320	3.29	131.95	-10.00	100.0
325	3.92	130.98	-10.00	100.0
330	4.47	129.56	-10.00	100.0
335	4.96	127.72	-10.00	100.0
340	5.74	125.75	-10.00	100.0
345	5.34	122.73	-10.00	100.0
350	5.38	119.82	-10.00	100.0
355	6.51	117.26	-10.00	100.0



SUPPLEMENTAL SHOWING, PART 25.203(C)

Mobile Satellite Connection
Honolulu, Hawaii - Waialae Country Club
Temporary Transmit-Only Earth Station
Operation Dates: 01/15/03 - 01/19/03

PURSUANT TO PART 25.203(C) OF THE FCC RULES AND REGULATIONS THE ABOVE REFERENCED SATELLITE EARTH STATION WAS COORDINATED WITH THE EXISTING LICENSEES AND APPLICANTS WHOSE FACILITIES COULD BE AFFECTED. VERBAL AND WRITTEN COORDINATION WAS CONDUCTED ON JANUARY 6, 2003.


THE FOLLOWING CARRIERS OR THEIR DESIGNATED COORDINATION AGENTS WERE NOTIFIED:

AT&T CORP
AT&T CORP-GOVT MKTS HAWAII INF TRANSFER
AT&T WIRELESS SERVICES OF HAWAII, INC.
COLUMBIA OPERATIONS CENTER - FCC
COMSEARCH
HAWAII STATE
MAUI COMMUNITY COLLEGE
PACWEST NETWORK HAWAII INC
RADIO DYNAMICS CONSULTING
UNIVERSITY OF HAWAII
VERIZON HAWAII INC.

THERE ARE NO UNRESOLVED INTERFERENCE OBJECTIONS WITH THE STATIONS CONTAINED IN THESE APPLICATIONS.

RESPECTFULLY SUBMITTED,

COMSEARCH


TIMOTHY O. CRUTCHER
SENIOR FREQUENCY COORDINATOR
MICROWAVE AND SATELLITE SERVICES