

FROM : FREQ MAN

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S-3560-EX-1998

2002 Edmund Halley Drive

Reston, VA 20191 USA

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OCT 15 1998

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October 6, 1998

*** CLIENT COPY ***
*** PLEASE MAIL ***
*** TO CUSTOMER ***, VA 00000

Re: U.S. Sea Launch
Buoy 46042 (Off California Coast)
Temporary Transmit-Receive Earth Station
Operation Dates: 11/01/98 to 05/01/99

***** TEMPORARY EARTH STATION *****

Dear Sir:

On behalf of U.S. Sea Launch, we are forwarding the attached coordination data for a Temporary Transmit/Receive earth station to be located off the Coast of California near the area of Buoy 46042.

The purpose of this Temporary Earth Station coordination is to allow U.S. Sea Launch the opportunity to test their ship board C-band uplink from a fixed Ocean location that will approximate the eventual Pacific Ocean launch position.

This earth station will transmit only on selected frequencies to the particular satellite(s) described in the attached data. This facility will be in operation from November 1, 1998 thru May 1, 1999. Please do not report non-active paths or frequencies outside of the specified ranges.

Sincerely,

Comsearch



Gary K. Edwards
Group Manager
Satellite Services

Enclosures

Table of Earth Station Coordination Values
09/30/98

Earth Station Name BUOY 46042 CALIFORNIA COAST
 Owner US SEA LAUNCH
 Latitude 36 45 0.0 N
 Longitude 122 25 12.0 W
 Ground Elevation (Ft/m) 0.0 / 0.0 AMSL ACL 145.5 Feet AGL
 Antenna Model ANDREW CORPORATION ES37K-C
 Objectives: Receive -162.0 (dBW /1 MHz)
 Transmit -154.0 (dBW /4 kHz) TX Power -13.9 (dBW/4 kHz)

Azimuth (Deg)	Horizon Elevation Angle (Deg)	Antenna Disc. Angle (Deg)	4 GHz		6 GHz	
			Antenna Gain (dBi)	Coordination Distance (Km)	Antenna Gain (dBi)	Coordination Distance (Km)
0	0.00	109.84	-16.88	401.5	-13.89	132.3
5	0.00	114.58	-17.00	400.0	-17.67	120.7
10	0.00	119.30	-17.00	400.0	-21.01	113.9
15	0.00	123.99	-17.00	400.0	-21.50	112.7
20	0.00	128.65	-17.00	400.0	-21.50	112.7
25	0.00	133.25	-17.00	400.0	-21.50	112.7
30	0.00	137.79	-17.00	400.0	-21.50	112.7
35	0.00	142.23	-17.00	400.0	-21.50	112.7
40	0.00	146.54	-17.00	400.0	-21.50	112.7
45	0.00	150.66	-17.00	400.0	-21.50	112.7
50	0.00	154.49	-17.00	400.0	-21.50	112.7
55	0.00	157.89	-17.00	400.0	-21.50	112.7
60	0.00	160.62	-17.00	400.0	-21.50	112.7
65	0.00	162.38	-17.00	400.0	-21.50	112.7
70	0.00	162.85	-17.00	400.0	-21.50	112.7
75	0.00	161.94	-17.00	400.0	-21.50	112.7
80	0.00	159.83	-17.00	400.0	-21.50	112.7
85	0.00	156.85	-17.00	400.0	-21.50	112.7
90	0.00	153.29	-17.00	400.0	-21.50	112.7
95	0.00	149.35	-17.00	400.0	-21.50	112.7
100	0.00	145.16	-17.00	400.0	-21.50	112.7
105	0.00	140.80	-17.00	400.0	-21.50	112.7
110	0.00	136.33	-17.00	400.0	-21.50	112.7
115	0.00	131.77	-17.00	400.0	-21.50	112.7
120	0.00	127.15	-17.00	400.0	-21.50	112.7
125	0.00	122.48	-17.00	400.0	-21.50	112.7
130	0.00	117.78	-17.00	400.0	-19.94	116.6
135	0.00	113.05	-17.00	400.0	-16.44	124.2
140	0.00	108.31	-15.65	416.6	-12.81	136.0
145	0.00	103.55	-12.13	463.2	-10.50	144.5
150	0.00	98.78	-9.02	508.0	-10.50	144.5
155	0.00	94.00	-5.40	566.5	-10.50	144.5
160	0.00	89.23	-3.00	608.6	-10.50	144.5
165	0.00	84.45	-3.00	608.6	-10.50	144.5
170	0.00	79.67	-3.07	607.4	-10.50	144.5
175	0.00	74.91	-4.03	590.2	-10.50	144.5
180	0.00	70.15	-5.45	565.6	-10.50	144.5

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Azimuth (Deg)	Horizon Elevation Angle (Deg)	Antenna Disc. Angle (Deg)	Antenna Gain (dBi)	4 GHz Coordination Distance (Km)	Antenna Gain (dBi)	6 GHz Coordination Distance (Km)
185	0.00	65.41	-6.88	542.0	-11.88	139.4
190	0.00	60.69	-7.86	526.1	-12.86	135.8
195	0.00	56.00	-8.00	523.9	-13.00	135.3
200	0.00	51.35	-8.00	523.9	-13.00	135.3
205	0.00	46.75	-8.00	523.9	-13.00	135.3
210	0.00	42.21	-8.00	523.9	-13.00	135.3
215	0.00	37.77	-7.11	538.2	-11.39	141.1
220	0.00	33.46	-5.38	566.8	-9.40	148.8
225	0.00	29.34	-3.74	595.4	-9.40	148.8
230	0.00	25.51	-2.20	623.1	-9.40	148.8
235	0.00	22.11	-1.13	642.4	-5.12	167.5
240	0.00	19.37	-0.50	654.5	-2.00	183.0
245	0.00	17.62	-0.50	654.5	-2.00	183.0
250	0.00	17.15	-0.50	654.5	-2.00	183.0
255	0.00	18.06	-0.50	654.5	-2.00	183.0
260	0.00	20.17	-0.55	653.5	-2.25	181.7
265	0.00	23.15	-1.44	636.6	-6.66	160.4
270	0.00	26.71	-2.68	614.3	-9.40	148.8
275	0.00	30.65	-4.26	586.2	-9.40	148.8
280	0.00	34.84	-5.93	557.5	-9.40	148.8
285	0.00	39.20	-7.68	529.0	-12.42	137.4
290	0.00	43.67	-8.00	523.9	-13.00	135.3
295	0.00	48.23	-8.00	523.9	-13.00	135.3
300	0.00	52.85	-8.00	523.9	-13.00	135.3
305	0.00	57.52	-8.00	523.9	-13.00	135.3
310	0.00	62.22	-7.56	531.0	-12.56	136.9
315	0.00	66.94	-6.42	549.5	-11.42	141.1
320	0.00	71.69	-4.99	573.5	-10.50	144.5
325	0.00	76.45	-3.71	595.9	-10.50	144.5
330	0.00	81.22	-3.00	608.6	-10.50	144.5
335	0.00	85.99	-3.00	608.6	-10.50	144.5
340	0.00	90.77	-3.46	600.2	-10.50	144.5
345	0.00	95.55	-6.44	549.1	-10.50	144.5
350	0.00	100.32	-10.19	490.4	-10.50	144.5
355	0.00	105.09	-13.07	450.2	-10.56	144.3

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SUPPLEMENTAL SHOWING, PART 25.203(C)

U.S. Sea Launch
Buoy 46042 (Off California Coast)
Temporary Transmit-Receive Earth Station
Operation Dates: 11/01/98 to 05/01/99

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. COORDINATION DATA WAS FORWARDED ON October 6, 1998.

THE FOLLOWING CARRIERS OR THEIR DESIGNATED COORDINATION AGENTS WERE NOTIFIED:

ALLNET COMMUNICATIONS SERVICES, INC.
AMERICA TOWER SYSTEMS, INC.
AMERICAN TOWER SYSTEMS, L.P.
AT&T COMMUNICATIONS
AT&T COMMUNICATIONS OF CALIFORNIA, INC.
AT&T COMMUNICATIONS OF NEVADA INC
CALIFORNIA RSA NO. 4 LIMITED PARTNERSHIP
CALIFORNIA STATE AUTOMOBILE ASSOCIATION
COMSEARCH
CONTEL FEDERAL SYSTEMS, GVNMT NTRK DIV
GTE MOBILNET OF CALIFORNIA LTD PARTNERSH
ICG TELECOM GROUP
KESSLER AND GEHMAN ASSOCIATES, INC.
MCI TELECOMMUNICATIONS CORPORATION
MICRONET COMMUNICATIONS, INC.
PACIFIC BELL SACRAMENTO REGION
PACIFIC GAS AND ELECTRIC COMPANY
PATHNET, INC.
SOUTHERN INDIANA RSA LIMITED PARTNERSHIP
SOUTHERN PACIFIC TRANSPORTATION COMPANY
SPECTRUM SATELLITE INC.
WATSON COMMUNICATION SYSTEMS, INC.
WESTERN STATES MICROWAVE TRANS CO
WESTERN TELE-COMMUNICATIONS, INC.
WIRELESS HOLDINGS

COORDINATION WAS COMPLETED BY TELEPHONE AND FAX FOR THIS PROPOSED EARTH STATION AND THERE ARE NO UNRESOLVED INTERFERENCE OBJECTIONS WITH THE STATIONS CONTAINED IN THESE APPLICATIONS.

THE ANALYSIS FOR THIS PROPOSED EARTH STATION INDICATES THAT NO INTERFERENCE CONFLICTS WITH 6 GHZ TERRESTRIAL MICROWAVE RECEIVERS EXISTS WITHIN THE COORDINATION CONTOURS OF THIS ANTENNA LOCATION.

RESPECTFULLY SUBMITTED,

COMSEARCH

GARY K. EDWARDS
GROUP MANAGER
MICROWAVE AND SATELLITE SERVICES