

**Table 1 Approach TDRS SSA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	8/10/2021 22:04	8/10/2021 22:34	0:29:10	24.01	-58.92	175.98	-51.72	39.73	294.26	-136.55	7.45
2	8/10/2021 22:36	8/10/2021 23:16	0:39:50	-51.01	56.99	303.35	41.02	166.62	277.00	-139.38	4.62
3	8/10/2021 23:19	8/10/2021 23:32	0:12:40	46.76	179.53	266.58	43.33	-108.51	225.86	-136.95	7.05
4	8/10/2021 23:36	8/11/2021 0:08	0:31:40	31.61	-90.72	218.06	-51.60	13.69	323.30	-138.11	5.89
5	8/11/2021 0:11	8/11/2021 0:19	0:07:50	-51.23	30.89	332.64	-38.33	68.98	344.75	-141.19	2.81
6	8/11/2021 0:22	8/11/2021 0:53	0:31:10	-31.03	78.49	344.18	51.23	177.47	253.27	-140.22	3.78
7	8/11/2021 0:56	8/11/2021 1:06	0:10:00	51.58	-164.90	243.51	33.80	-116.23	218.93	-137.03	6.97
8	8/11/2021 1:10	8/11/2021 1:38	0:27:50	20.16	-102.41	216.81	-51.62	-8.94	323.20	-138.24	5.76
9	8/11/2021 1:39	8/11/2021 1:47	0:08:40	-51.74	-5.90	325.02	-41.70	40.43	343.90	-141.10	2.90
10	8/11/2021 1:50	8/11/2021 1:57	0:07:00	-34.90	50.94	344.67	-14.97	70.32	336.72	-141.40	2.60
11	8/11/2021 2:05	8/11/2021 2:24	0:19:00	10.79	88.99	314.75	51.78	165.18	247.65	-139.79	4.21
12	8/11/2021 3:06	8/11/2021 3:12	0:06:20	-50.32	-43.45	315.11	-49.86	-5.72	336.25	-141.38	2.62
13	8/11/2021 3:15	8/11/2021 3:40	0:25:20	-45.96	8.12	341.33	25.95	78.72	298.12	-140.06	3.94
14	8/11/2021 3:43	8/11/2021 4:05	0:21:30	33.84	87.34	288.10	35.82	-164.63	220.25	-137.36	6.64
15	8/11/2021 4:13	8/11/2021 4:32	0:18:50	9.99	-140.18	219.99	-44.61	-86.04	297.28	-138.26	5.74
16	8/11/2021 4:35	8/11/2021 5:01	0:26:20	-49.24	-71.72	310.58	-1.36	34.51	326.29	-141.10	2.90
17	8/11/2021 5:04	8/11/2021 5:16	0:12:00	6.93	40.40	318.73	41.02	75.08	277.84	-140.35	3.65
18	8/11/2021 5:19	8/11/2021 5:56	0:37:00	46.76	87.98	267.45	-29.06	-132.33	264.99	-137.02	6.98
19	8/11/2021 5:59	8/11/2021 6:39	0:40:20	-36.73	-123.03	279.45	22.30	29.58	302.69	-139.75	4.25
20	8/11/2021 6:42	8/11/2021 6:51	0:08:40	30.45	37.60	292.89	49.33	74.20	261.40	-140.36	3.64
21	8/11/2021 6:53	8/11/2021 7:21	0:27:20	51.63	91.07	251.24	-13.65	-168.84	241.09	-137.05	6.95
22	8/11/2021 7:29	8/11/2021 8:13	0:43:52	-38.09	-143.91	281.93	33.82	18.66	288.77	-139.89	4.11
23	8/11/2021 8:16	8/11/2021 8:25	0:09:10	40.51	28.42	279.12	51.71	78.00	246.01	-139.31	4.69
24	8/11/2021 8:28	8/11/2021 9:10	0:42:00	49.66	95.11	236.80	-51.64	-111.71	328.24	-137.07	6.93
25	8/11/2021 9:13	8/11/2021 9:42	0:29:40	-49.63	-96.13	335.62	31.24	-7.30	292.39	-139.98	4.02
26	8/11/2021 9:45	8/11/2021 10:26	0:41:00	38.63	2.45	282.25	-29.52	159.50	264.96	-137.09	6.91
27	8/11/2021 10:29	8/11/2021 10:37	0:08:00	-37.13	168.90	279.38	-51.08	-152.53	317.27	-140.86	3.14
28	8/11/2021 10:40	8/11/2021 11:11	0:31:20	-51.67	-135.33	327.56	28.10	-33.56	296.52	-139.91	4.09
29	8/11/2021 11:18	8/11/2021 11:52	0:33:50	44.67	-9.01	272.61	-16.23	124.52	243.88	-137.12	6.88
30	8/11/2021 11:54	8/11/2021 12:07	0:12:40	-24.82	131.91	256.71	-51.22	-174.14	317.82	-139.35	4.65
31	8/11/2021 12:14	8/11/2021 12:57	0:43:10	-47.69	-134.29	338.15	50.41	22.39	247.15	-138.89	5.11
32	8/11/2021 13:00	8/11/2021 13:15	0:14:50	46.47	37.92	240.61	5.53	85.75	239.98	-137.70	6.30
33	8/11/2021 13:18	8/11/2021 13:55	0:37:10	-3.50	92.16	248.00	-21.86	-118.53	344.65	-139.62	4.38
34	8/11/2021 14:21	8/11/2021 14:32	0:11:30	49.62	-39.04	265.41	41.68	25.82	236.23	-138.21	5.79
35	8/11/2021 14:35	8/11/2021 15:04	0:29:10	34.62	36.67	232.76	-48.10	123.44	321.93	-137.71	6.29
36	8/11/2021 15:07	8/11/2021 15:23	0:16:10	-51.17	139.34	332.73	-26.17	-145.43	347.31	-141.47	2.53
37	8/11/2021 15:50	8/11/2021 15:58	0:08:50	47.53	-70.07	270.32	49.27	-17.62	244.64	-139.11	4.89
38	8/11/2021 16:01	8/11/2021 16:45	0:43:30	44.53	-3.02	238.49	-47.08	158.82	349.53	-137.74	6.26
39	8/11/2021 16:48	8/11/2021 16:54	0:06:50	-41.59	171.62	351.40	-23.74	-166.07	345.92	-141.51	2.49
40	8/11/2021 17:24	8/11/2021 17:53	0:29:10	51.62	-69.86	258.00	-18.77	34.81	266.04	-137.75	6.25
41	8/11/2021 17:56	8/11/2021 18:06	0:09:50	-27.20	42.43	279.14	-49.28	82.16	324.78	-140.25	3.75
42	8/11/2021 18:08	8/11/2021 18:24	0:15:20	-51.54	97.61	334.47	-26.57	168.32	347.43	-141.45	2.55
43	8/11/2021 18:57	8/11/2021 19:27	0:29:20	50.84	-72.07	248.64	-29.14	21.49	282.17	-137.78	6.22
44	8/11/2021 19:29	8/11/2021 19:38	0:08:40	-36.34	30.17	295.14	-51.30	71.76	332.56	-141.16	2.84
45	8/11/2021 19:41	8/11/2021 20:16	0:35:10	-51.59	88.94	341.06	39.05	-157.42	284.52	-140.07	3.93
46	8/11/2021 20:32	8/11/2021 21:01	0:28:30	43.77	-70.10	238.12	-39.27	11.60	300.67	-137.81	6.19
47	8/11/2021 21:03	8/11/2021 21:48	0:44:10	-45.37	23.69	313.84	42.58	-174.08	315.22	-139.98	4.02
48	8/11/2021 21:50	8/11/2021 21:54	0:03:40	47.88	-160.63	318.94	51.55	-139.68	325.78	-142.24	1.76
49	8/11/2021 21:55	8/11/2021 22:04	0:09:40	51.72	-136.63	326.86	39.81	-85.61	352.18	-141.18	2.82
50	8/11/2021 22:05	8/11/2021 22:06	0:00:50	37.40	-81.87	355.15	35.30	-78.96	357.66	-142.05	1.95
51	8/11/2021 22:09	8/11/2021 22:10	0:01:00	27.65	-70.16	366.44	24.80	-67.39	369.60	-142.84	1.16
52	8/11/2021 22:12	8/11/2021 22:14	0:02:10	19.94	-63.08	374.95	13.46	-57.90	381.97	-143.59	0.41
53	8/11/2021 22:15	8/11/2021 22:16	0:01:20	10.93	-56.00	384.68	6.86	-53.03	389.01	-143.70	0.30
54	8/11/2021 22:17	8/11/2021 22:18	0:01:00	2.78	-50.12	393.30	-0.29	-47.96	396.47	-143.93	0.07
55	8/11/2021 22:38	8/11/2021 22:39	0:00:50	-50.02	16.56	432.28	-50.79	21.25	432.56	-143.46	0.54
56	8/11/2021 22:44	8/11/2021 22:45	0:01:10	-51.03	48.79	432.56	-50.00	55.39	432.15	-143.55	0.45
57	8/11/2021 22:48	8/11/2021 22:48	0:00:00	-45.96	69.89	430.51	-45.96	69.89	430.51	-144.00	0.00
58	8/11/2021 22:53	8/11/2021 22:55	0:01:40	-32.82	92.38	425.22	-28.33	97.35	423.52	-143.25	0.75
59	8/11/2021 22:59	8/11/2021 22:59	0:00:20	-17.31	107.28	419.87	-16.32	108.07	419.59	-143.80	0.20
60	8/11/2021 23:01	8/11/2021 23:02	0:01:00	-11.83	111.52	418.42	-8.80	113.76	417.75	-143.80	0.20

**Table 1 Approach TDRS SSA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
61	8/11/2021 23:04	8/11/2021 23:05	0:00:30	-1.69	118.84	416.54	-0.16	119.91	416.36	-143.67	0.33
62	8/11/2021 23:06	8/11/2021 23:07	0:01:10	4.94	123.51	415.92	8.49	126.07	415.78	-142.22	1.78
63	8/11/2021 23:08	8/11/2021 23:09	0:00:30	10.52	127.55	415.76	12.03	128.67	415.78	-143.11	0.89
64	8/11/2021 23:09	8/11/2021 23:10	0:00:50	13.53	129.81	415.82	16.03	131.75	415.94	-142.79	1.21
65	8/11/2021 23:12	8/11/2021 23:13	0:01:10	22.39	137.05	416.52	25.73	140.12	416.96	-142.99	1.01
66	8/11/2021 23:14	8/11/2021 23:16	0:02:10	28.06	142.43	417.33	33.89	148.98	418.41	-143.52	0.48
67	8/11/2021 23:17	8/11/2021 23:17	0:00:10	36.01	151.74	418.85	36.42	152.32	418.94	-143.93	0.07
68	8/11/2021 23:49	8/11/2021 23:50	0:01:20	6.18	-76.13	416.63	2.11	-73.24	417.00	-143.79	0.21
69	8/11/2021 23:54	8/11/2021 23:55	0:00:40	-10.09	-64.55	419.13	-12.10	-63.05	419.63	-143.82	0.18
70	8/11/2021 23:56	8/11/2021 23:56	0:00:20	-14.60	-61.15	420.29	-15.60	-60.37	420.58	-143.91	0.09
71	8/11/2021 23:57	8/12/2021 0:00	0:03:10	-19.05	-57.59	421.61	-28.11	-49.31	424.74	-143.71	0.29
72	8/12/2021 0:11	8/12/2021 0:12	0:00:50	-50.09	-6.66	433.32	-50.84	-1.96	433.59	-143.54	0.46
73	8/12/2021 0:16	8/12/2021 0:18	0:01:10	-50.98	25.58	433.46	-49.93	32.16	433.00	-143.54	0.46
74	8/12/2021 0:21	8/12/2021 0:22	0:01:50	-45.55	47.38	431.10	-41.90	55.33	429.53	-143.15	0.85
75	8/12/2021 0:32	8/12/2021 0:32	0:00:20	-17.13	83.84	419.91	-16.14	84.63	419.61	-143.81	0.19
76	8/12/2021 0:34	8/12/2021 0:35	0:00:50	-11.14	88.45	418.22	-8.61	90.31	417.61	-143.80	0.20
77	8/12/2021 0:37	8/12/2021 0:38	0:00:30	-0.99	95.74	416.19	0.54	96.82	415.99	-143.61	0.39
78	8/12/2021 0:39	8/12/2021 0:40	0:01:10	5.13	100.06	415.52	8.69	102.62	415.33	-142.37	1.63
79	8/12/2021 0:41	8/12/2021 0:41	0:00:20	11.21	104.48	415.28	12.22	105.23	415.27	-142.98	1.02
80	8/12/2021 0:42	8/12/2021 0:43	0:00:50	13.72	106.37	415.29	16.22	108.31	415.37	-142.92	1.08
81	8/12/2021 0:45	8/12/2021 0:46	0:01:00	23.06	114.06	415.92	25.91	116.71	416.27	-142.92	1.08
82	8/12/2021 0:49	8/12/2021 0:49	0:00:00	34.48	126.14	417.72	34.48	126.14	417.72	-143.89	0.11
83	8/12/2021 0:50	8/12/2021 0:50	0:00:10	36.17	128.38	418.05	36.58	128.95	418.14	-143.94	0.06
84	8/12/2021 1:02	8/12/2021 1:03	0:01:20	51.43	-170.50	421.81	50.49	-162.78	421.66	-143.77	0.23
85	8/12/2021 1:07	8/12/2021 1:07	0:00:00	44.71	-142.37	420.51	44.71	-142.37	420.51	-143.76	0.24
86	8/12/2021 1:08	8/12/2021 1:08	0:00:10	43.40	-139.44	420.25	43.06	-138.73	420.18	-143.47	0.53
87	8/12/2021 1:09	8/12/2021 1:09	0:00:00	42.00	-136.65	419.97	42.00	-136.65	419.97	-143.84	0.16
88	8/12/2021 1:10	8/12/2021 1:10	0:00:00	39.00	-131.45	419.39	39.00	-131.45	419.39	-143.83	0.17
89	8/12/2021 1:25	8/12/2021 1:25	0:00:00	-3.01	-93.22	417.69	-3.01	-93.22	417.69	-143.97	0.03
90	8/12/2021 1:27	8/12/2021 1:28	0:00:50	-10.11	-88.12	419.08	-12.63	-86.25	419.69	-143.80	0.20
91	8/12/2021 1:29	8/12/2021 1:29	0:00:10	-15.13	-84.33	420.36	-15.62	-83.94	420.50	-143.91	0.09
92	8/12/2021 1:30	8/12/2021 1:33	0:03:10	-19.57	-80.75	421.67	-28.59	-72.40	424.77	-143.70	0.30
93	8/12/2021 1:44	8/12/2021 1:45	0:01:00	-50.10	-30.19	433.09	-50.97	-24.54	433.39	-143.58	0.42
94	8/12/2021 1:49	8/12/2021 1:51	0:01:20	-50.97	2.04	433.23	-49.74	9.53	432.69	-143.50	0.50
95	8/12/2021 1:53	8/12/2021 1:54	0:00:50	-45.53	23.83	430.90	-43.95	27.57	430.23	-142.60	1.40
96	8/12/2021 2:08	8/12/2021 2:08	0:00:00	-7.57	67.47	417.48	-7.57	67.47	417.48	-142.84	1.16
97	8/12/2021 2:09	8/12/2021 2:09	0:00:10	-4.01	70.02	416.85	-3.50	70.38	416.77	-142.77	1.23
98	8/12/2021 2:10	8/12/2021 2:10	0:00:50	-1.98	71.46	416.55	0.57	73.25	416.24	-143.46	0.54
99	8/12/2021 2:12	8/12/2021 2:13	0:01:10	5.67	76.86	415.85	9.22	79.42	415.74	-142.37	1.63
100	8/12/2021 2:14	8/12/2021 2:14	0:00:20	11.24	80.91	415.74	12.25	81.66	415.76	-143.03	0.97
101	8/12/2021 2:15	8/12/2021 2:16	0:00:50	14.25	83.19	415.83	16.74	85.13	415.97	-142.98	1.02
102	8/12/2021 2:18	8/12/2021 2:19	0:01:10	23.08	90.49	416.60	26.40	93.60	417.08	-142.88	1.12
103	8/12/2021 2:20	8/12/2021 2:22	0:02:30	28.26	95.46	417.38	34.93	103.13	418.66	-143.51	0.49
104	8/12/2021 2:23	8/12/2021 2:23	0:00:10	36.19	104.82	418.93	36.60	105.39	419.03	-143.96	0.04
105	8/12/2021 2:35	8/12/2021 2:35	0:00:10	51.42	165.93	422.77	51.34	166.92	422.75	-143.90	0.10
106	8/12/2021 2:36	8/12/2021 2:36	0:00:40	51.02	169.83	422.69	50.48	173.65	422.58	-143.79	0.21
107	8/12/2021 3:00	8/12/2021 3:01	0:00:40	-10.62	-111.34	418.87	-12.63	-109.83	419.34	-143.79	0.21
108	8/12/2021 3:02	8/12/2021 3:02	0:00:20	-15.13	-107.92	419.97	-16.12	-107.14	420.24	-143.86	0.14
109	8/12/2021 3:03	8/12/2021 3:04	0:00:30	-20.06	-103.93	421.37	-21.51	-102.68	421.82	-143.88	0.12
110	8/12/2021 3:17	8/12/2021 3:18	0:01:00	-50.27	-52.84	432.42	-51.09	-47.14	432.71	-143.60	0.40
111	8/12/2021 3:22	8/12/2021 3:24	0:01:30	-50.97	-21.52	432.55	-49.54	-13.12	431.96	-143.46	0.54
112	8/12/2021 3:26	8/12/2021 3:27	0:00:20	-45.52	0.27	430.31	-44.90	1.79	430.06	-143.66	0.34
113	8/12/2021 3:32	8/12/2021 3:34	0:01:40	-32.17	22.38	424.92	-27.64	27.28	423.21	-143.27	0.73
114	8/12/2021 3:38	8/12/2021 3:38	0:00:20	-16.58	37.10	419.59	-15.59	37.88	419.31	-143.79	0.21
115	8/12/2021 3:40	8/12/2021 3:40	0:00:50	-10.58	41.68	418.06	-8.06	43.53	417.52	-143.81	0.19
116	8/12/2021 3:43	8/12/2021 3:43	0:00:30	-0.42	48.96	416.31	1.11	50.04	416.14	-143.62	0.38
117	8/12/2021 3:45	8/12/2021 3:46	0:01:10	6.20	53.65	415.78	9.75	56.22	415.70	-142.52	1.48
118	8/12/2021 3:47	8/12/2021 3:47	0:00:20	11.77	57.71	415.72	12.77	58.47	415.74	-143.14	0.86
119	8/12/2021 3:48	8/12/2021 3:49	0:00:40	14.77	60.00	415.82	16.76	61.56	415.94	-143.05	0.95
120	8/12/2021 3:51	8/12/2021 3:52	0:01:10	23.58	67.35	416.65	26.89	70.49	417.14	-142.82	1.18

**Table 1 Approach TDRS SSA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
121	8/12/2021 3:53	8/12/2021 3:53	0:00:30	28.29	71.89	417.37	29.66	73.33	417.61	-143.75	0.25
122	8/12/2021 3:56	8/12/2021 3:56	0:00:00	37.03	82.41	419.11	37.03	82.41	419.11	-144.00	0.00
123	8/12/2021 4:08	8/12/2021 4:08	0:00:20	51.42	142.39	422.80	51.24	144.35	422.77	-143.83	0.17
124	8/12/2021 4:09	8/12/2021 4:09	0:00:40	50.90	147.25	422.70	50.32	151.04	422.58	-143.80	0.20
125	8/12/2021 4:13	8/12/2021 4:13	0:00:00	44.37	171.24	421.27	44.37	171.24	421.27	-143.85	0.15
126	8/12/2021 4:14	8/12/2021 4:15	0:01:20	43.04	174.13	420.97	40.13	179.51	420.33	-142.70	1.30
127	8/12/2021 4:17	8/12/2021 4:18	0:00:50	34.89	-172.75	419.25	32.73	-170.07	418.84	-143.42	0.58
128	8/12/2021 4:19	8/12/2021 4:20	0:01:20	30.95	-168.02	418.52	27.30	-164.16	417.92	-143.05	0.95
129	8/12/2021 4:28	8/12/2021 4:29	0:01:20	5.12	-146.14	416.69	1.04	-143.26	417.01	-143.79	0.21
130	8/12/2021 4:31	8/12/2021 4:31	0:00:00	-3.54	-140.03	417.58	-3.54	-140.03	417.58	-143.99	0.01
131	8/12/2021 4:33	8/12/2021 4:34	0:00:40	-11.15	-134.54	419.00	-13.16	-133.03	419.47	-143.76	0.24
132	8/12/2021 4:35	8/12/2021 4:35	0:00:10	-15.65	-131.10	420.11	-16.15	-130.71	420.24	-143.84	0.16
133	8/12/2021 4:38	8/12/2021 4:39	0:01:30	-24.41	-123.67	422.75	-28.62	-119.56	424.20	-143.67	0.33
134	8/12/2021 4:50	8/12/2021 4:51	0:01:00	-50.27	-76.38	432.35	-51.10	-70.69	432.63	-143.58	0.42
135	8/12/2021 4:55	8/12/2021 4:56	0:01:20	-50.84	-44.11	432.39	-49.53	-36.67	431.85	-143.44	0.56
136	8/12/2021 4:59	8/12/2021 5:01	0:02:00	-45.20	-22.52	430.08	-41.12	-14.01	428.41	-142.91	1.09
137	8/12/2021 5:05	8/12/2021 5:07	0:01:40	-31.71	-0.67	424.65	-27.16	4.18	422.95	-143.23	0.77
138	8/12/2021 5:11	8/12/2021 5:11	0:00:20	-16.06	13.92	419.38	-15.07	14.70	419.10	-143.79	0.21
139	8/12/2021 5:12	8/12/2021 5:13	0:01:00	-10.56	18.11	417.99	-7.52	20.33	417.36	-143.80	0.20
140	8/12/2021 5:16	8/12/2021 5:16	0:00:40	-0.40	25.39	416.26	1.64	26.82	416.05	-143.57	0.43
141	8/12/2021 5:18	8/12/2021 5:19	0:01:00	6.73	30.44	415.72	9.77	32.64	415.67	-142.59	1.41
142	8/12/2021 5:20	8/12/2021 5:20	0:00:20	12.29	34.52	415.70	13.30	35.28	415.73	-143.02	0.98
143	8/12/2021 5:21	8/12/2021 5:22	0:00:50	14.80	36.43	415.80	17.28	38.39	415.96	-143.17	0.83
144	8/12/2021 5:24	8/12/2021 5:28	0:03:50	24.09	44.22	416.70	34.54	55.45	418.56	-142.83	1.17
145	8/12/2021 5:41	8/12/2021 5:42	0:01:20	51.33	119.83	422.79	50.32	127.50	422.59	-143.76	0.24
146	8/12/2021 5:46	8/12/2021 5:46	0:00:20	45.00	146.19	421.43	44.36	147.68	421.29	-143.94	0.06
147	8/12/2021 5:47	8/12/2021 5:48	0:01:10	42.67	151.27	420.91	40.12	155.95	420.35	-142.72	1.28
148	8/12/2021 5:50	8/12/2021 5:51	0:00:30	34.87	163.68	419.27	33.58	165.31	419.02	-143.33	0.67
149	8/12/2021 5:52	8/12/2021 5:53	0:01:20	30.93	168.42	418.54	27.27	172.28	417.94	-143.08	0.92
150	8/12/2021 6:01	8/12/2021 6:02	0:01:20	4.59	-169.35	416.76	0.51	-166.47	417.09	-143.80	0.20
151	8/12/2021 6:04	8/12/2021 6:04	0:00:00	-4.08	-163.24	417.69	-4.08	-163.24	417.69	-143.98	0.02
152	8/12/2021 6:06	8/12/2021 6:07	0:00:50	-11.17	-158.11	419.04	-13.68	-156.22	419.63	-143.71	0.29
153	8/12/2021 6:07	8/12/2021 6:08	0:00:30	-15.67	-154.67	420.15	-17.16	-153.49	420.55	-143.83	0.17
154	8/12/2021 6:09	8/12/2021 6:12	0:02:50	-20.59	-150.66	421.56	-28.64	-143.12	424.24	-143.68	0.32
155	8/12/2021 6:23	8/12/2021 6:24	0:01:00	-50.44	-99.00	432.42	-51.21	-93.26	432.68	-143.56	0.44
156	8/12/2021 6:28	8/12/2021 6:29	0:01:30	-50.83	-67.65	432.39	-49.32	-59.32	431.77	-143.40	0.60
157	8/12/2021 6:32	8/12/2021 6:34	0:02:00	-45.19	-46.07	430.06	-41.11	-37.57	428.39	-142.99	1.01
158	8/12/2021 6:38	8/12/2021 6:40	0:01:40	-31.69	-24.24	424.62	-27.14	-19.39	422.92	-143.26	0.74
159	8/12/2021 6:43	8/12/2021 6:44	0:00:30	-16.04	-9.65	419.34	-14.55	-8.49	418.94	-143.78	0.22
160	8/12/2021 6:45	8/12/2021 6:46	0:01:00	-10.03	-5.09	417.85	-6.99	-2.88	417.23	-143.79	0.21
161	8/12/2021 6:49	8/12/2021 6:49	0:00:40	-0.38	1.81	416.23	1.66	3.25	416.02	-143.58	0.42
162	8/12/2021 6:51	8/12/2021 6:52	0:01:10	6.76	6.87	415.70	10.30	9.44	415.64	-142.65	1.35
163	8/12/2021 6:53	8/12/2021 6:53	0:00:20	12.32	10.94	415.67	13.32	11.70	415.70	-142.93	1.07
164	8/12/2021 6:54	8/12/2021 6:54	0:00:40	15.32	13.24	415.80	17.30	14.82	415.93	-143.21	0.79
165	8/12/2021 6:58	8/12/2021 7:00	0:01:30	28.79	25.23	417.41	32.83	29.74	418.17	-143.49	0.51
166	8/12/2021 7:05	8/12/2021 7:05	0:00:00	44.85	49.43	424.97	44.85	49.43	424.97	-143.95	0.05
167	8/12/2021 7:06	8/12/2021 7:06	0:00:30	46.35	53.29	425.35	47.18	55.72	425.56	-143.71	0.29
168	8/12/2021 7:10	8/12/2021 7:11	0:00:50	51.28	75.66	426.65	51.65	80.59	426.76	-143.53	0.47
169	8/12/2021 7:15	8/12/2021 7:15	0:00:00	50.11	105.07	426.53	50.11	105.07	426.53	-143.88	0.12
170	8/12/2021 7:16	8/12/2021 7:17	0:01:10	49.56	107.82	426.41	48.02	113.96	426.08	-143.64	0.36
171	8/12/2021 7:18	8/12/2021 7:18	0:00:00	46.71	118.09	425.79	46.71	118.09	425.79	-143.95	0.05
172	8/12/2021 7:21	8/12/2021 7:21	0:00:00	39.66	133.13	424.25	39.66	133.13	424.25	-143.94	0.06
173	8/12/2021 7:24	8/12/2021 7:25	0:00:40	32.62	142.88	422.85	30.85	144.93	422.53	-142.86	1.14
174	8/12/2021 7:26	8/12/2021 7:26	0:00:00	28.12	147.84	422.08	28.12	147.84	422.08	-143.85	0.15
175	8/12/2021 7:27	8/12/2021 7:28	0:01:10	25.32	150.60	421.67	21.97	153.64	421.26	-143.19	0.81
176	8/12/2021 7:28	8/12/2021 7:28	0:00:00	20.52	154.90	421.11	20.52	154.90	421.11	-143.59	0.41
177	8/12/2021 7:31	8/12/2021 7:31	0:00:00	12.61	161.22	420.62	12.61	161.22	420.62	-143.56	0.44
178	8/12/2021 7:33	8/12/2021 7:34	0:00:40	6.55	165.66	420.68	4.52	167.11	420.78	-143.38	0.62
179	8/12/2021 7:47	8/12/2021 7:47	0:00:00	-35.28	-158.96	430.73	-35.28	-158.96	430.73	-143.94	0.06
180	8/12/2021 8:02	8/12/2021 8:02	0:00:40	-50.08	-86.56	436.12	-49.33	-82.93	435.81	-143.60	0.40



**Table 1 Approach TDRS SSA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
181	8/12/2021 8:05	8/12/2021 8:05	0:00:00	-45.19	-69.69	434.11	-45.19	-69.69	434.11	-143.99	0.01
182	8/12/2021 8:13	8/12/2021 8:13	0:00:00	-25.77	-41.64	426.46	-25.77	-41.64	426.46	-143.60	0.40
183	8/12/2021 8:17	8/12/2021 8:17	0:00:30	-14.10	-31.73	422.84	-12.60	-30.59	422.47	-143.37	0.63
184	8/12/2021 8:20	8/12/2021 8:20	0:00:20	-4.51	-24.70	420.82	-3.49	-23.98	420.66	-143.80	0.20
185	8/12/2021 8:39	8/12/2021 8:39	0:00:30	46.51	30.13	425.40	47.33	32.56	425.61	-143.78	0.22
186	8/12/2021 8:43	8/12/2021 8:44	0:01:00	51.34	52.59	426.68	51.72	58.52	426.81	-143.46	0.54
187	8/12/2021 8:48	8/12/2021 8:49	0:00:50	50.19	81.05	426.56	49.25	85.60	426.36	-143.58	0.42
188	8/12/2021 8:49	8/12/2021 8:50	0:00:30	48.60	88.25	426.22	47.88	90.82	426.06	-143.60	0.40
189	8/12/2021 8:57	8/12/2021 8:57	0:00:10	32.38	119.56	422.81	31.94	120.08	422.73	-142.89	1.11
190	8/12/2021 9:00	8/12/2021 9:01	0:00:50	24.11	128.12	421.52	21.71	130.27	421.24	-143.16	0.84
191	8/12/2021 9:01	8/12/2021 9:01	0:00:00	20.25	131.52	421.10	20.25	131.52	421.10	-143.68	0.32
192	8/12/2021 9:04	8/12/2021 9:04	0:00:00	12.33	137.82	420.64	12.33	137.82	420.64	-143.61	0.39
193	8/12/2021 9:06	8/12/2021 9:07	0:00:40	6.27	142.25	420.71	4.24	143.70	420.82	-143.42	0.58
194	8/12/2021 9:20	8/12/2021 9:20	0:00:00	-35.52	177.74	430.78	-35.52	177.74	430.78	-143.98	0.02
195	8/12/2021 9:35	8/12/2021 9:35	0:00:10	-49.98	-109.66	435.99	-49.80	-108.74	435.91	-143.58	0.42
196	8/12/2021 9:38	8/12/2021 9:38	0:00:00	-45.02	-92.88	433.94	-45.02	-92.88	433.94	-143.99	0.01
197	8/12/2021 9:46	8/12/2021 9:46	0:00:00	-25.51	-65.00	426.29	-25.51	-65.00	426.29	-143.49	0.51
198	8/12/2021 9:50	8/12/2021 9:50	0:00:30	-13.82	-55.13	422.70	-12.32	-53.99	422.33	-143.31	0.69
199	8/12/2021 9:53	8/12/2021 9:53	0:00:20	-4.23	-48.11	420.71	-3.21	-47.39	420.56	-143.79	0.21
200	8/12/2021 10:11	8/12/2021 10:11	0:00:00	45.19	3.05	425.12	45.19	3.05	425.12	-144.00	0.00
201	8/12/2021 10:12	8/12/2021 10:12	0:00:20	46.94	7.77	425.57	47.48	9.42	425.71	-143.85	0.15
202	8/12/2021 10:21	8/12/2021 10:22	0:00:50	50.09	57.95	426.62	49.14	62.49	426.42	-143.36	0.64
203	8/12/2021 10:22	8/12/2021 10:23	0:00:30	48.47	65.12	426.28	47.74	67.68	426.12	-143.53	0.47
204	8/12/2021 10:30	8/12/2021 10:30	0:00:10	31.69	96.75	422.77	31.25	97.26	422.69	-142.94	1.06
205	8/12/2021 10:31	8/12/2021 10:32	0:00:20	28.53	100.20	422.23	27.61	101.14	422.09	-143.83	0.17
206	8/12/2021 10:37	8/12/2021 10:37	0:00:00	12.05	114.42	420.69	12.05	114.42	420.69	-143.74	0.26
207	8/12/2021 10:39	8/12/2021 10:40	0:00:40	5.99	118.85	420.78	3.95	120.29	420.89	-143.47	0.53
208	8/12/2021 11:07	8/12/2021 11:08	0:00:50	-50.06	-133.68	436.01	-49.10	-129.16	435.61	-143.64	0.36
209	8/12/2021 11:11	8/12/2021 11:11	0:00:10	-44.85	-116.07	433.86	-44.53	-115.33	433.73	-143.99	0.01
210	8/12/2021 11:19	8/12/2021 11:19	0:00:00	-25.24	-88.37	426.21	-25.24	-88.37	426.21	-143.38	0.62
211	8/12/2021 11:23	8/12/2021 11:23	0:00:20	-13.04	-78.15	422.54	-12.04	-77.39	422.29	-143.25	0.75
212	8/12/2021 11:24	8/12/2021 11:24	0:00:00	-10.53	-76.27	421.95	-10.53	-76.27	421.95	-143.77	0.23
213	8/12/2021 11:26	8/12/2021 11:27	0:00:30	-3.94	-71.52	420.71	-2.42	-70.44	420.49	-143.79	0.21
214	8/12/2021 11:45	8/12/2021 11:45	0:00:00	47.62	-13.73	425.80	47.62	-13.73	425.80	-143.96	0.04
215	8/12/2021 11:49	8/12/2021 11:50	0:00:50	51.51	7.45	426.87	51.76	12.41	426.95	-143.31	0.69
216	8/12/2021 11:54	8/12/2021 11:55	0:00:40	49.99	34.85	426.65	49.23	38.48	426.48	-143.22	0.78
217	8/12/2021 11:55	8/12/2021 11:56	0:00:30	48.34	41.99	426.29	47.60	44.53	426.12	-143.51	0.49
218	8/12/2021 12:03	8/12/2021 12:03	0:00:10	31.45	73.42	422.73	31.00	73.93	422.65	-143.03	0.97
219	8/12/2021 12:04	8/12/2021 12:05	0:00:20	28.27	76.85	422.19	27.35	77.79	422.04	-143.81	0.19
220	8/12/2021 12:06	8/12/2021 12:06	0:00:20	24.53	80.51	421.64	23.58	81.38	421.52	-143.46	0.54
221	8/12/2021 12:10	8/12/2021 12:10	0:00:10	11.77	91.01	420.66	11.27	91.39	420.66	-143.97	0.03
222	8/12/2021 12:12	8/12/2021 12:13	0:00:40	5.71	95.43	420.76	3.67	96.88	420.88	-143.40	0.60
223	8/12/2021 12:40	8/12/2021 12:41	0:00:50	-49.96	-156.78	436.11	-48.98	-152.29	435.71	-143.68	0.32
224	8/12/2021 12:44	8/12/2021 12:44	0:00:10	-44.67	-139.27	433.95	-44.35	-138.53	433.82	-143.99	0.01
225	8/12/2021 12:52	8/12/2021 12:52	0:00:00	-24.98	-111.74	426.29	-24.98	-111.74	426.29	-143.26	0.74
226	8/12/2021 12:56	8/12/2021 12:56	0:00:20	-12.77	-101.55	422.64	-11.76	-100.80	422.39	-143.19	0.81
227	8/12/2021 12:57	8/12/2021 12:57	0:00:00	-10.25	-99.68	422.05	-10.25	-99.68	422.05	-143.68	0.32
228	8/12/2021 12:59	8/12/2021 13:00	0:00:30	-3.67	-94.93	420.82	-2.14	-93.86	420.61	-143.80	0.20
229	8/12/2021 15:03	8/12/2021 15:03	0:00:00	44.37	6.02	425.13	44.37	6.02	425.13	-143.98	0.02
230	8/12/2021 15:09	8/12/2021 15:09	0:00:00	30.96	26.75	422.32	30.96	26.75	422.32	-143.31	0.69
231	8/12/2021 15:10	8/12/2021 15:11	0:00:20	27.77	30.14	421.78	26.84	31.07	421.64	-143.74	0.26
232	8/12/2021 15:12	8/12/2021 15:13	0:01:10	24.01	33.76	421.24	20.64	36.74	420.86	-143.10	0.90
233	8/12/2021 15:13	8/12/2021 15:13	0:00:00	18.69	38.38	420.68	18.69	38.38	420.68	-143.83	0.17
234	8/12/2021 15:16	8/12/2021 15:16	0:00:00	10.72	44.57	420.33	10.72	44.57	420.33	-143.74	0.26
235	8/12/2021 15:18	8/12/2021 15:19	0:00:30	4.64	48.97	420.50	3.11	50.05	420.61	-143.29	0.71
236	8/12/2021 16:45	8/12/2021 16:46	0:00:30	21.83	12.11	420.96	20.37	13.36	420.80	-143.50	0.50
237	8/12/2021 16:46	8/12/2021 16:46	0:00:00	18.42	14.99	420.62	18.42	14.99	420.62	-143.73	0.27
238	8/12/2021 16:49	8/12/2021 16:49	0:00:00	10.44	21.17	420.29	10.44	21.17	420.29	-143.65	0.35
239	8/12/2021 16:51	8/12/2021 16:52	0:00:40	4.36	25.56	420.47	2.33	27.00	420.62	-143.33	0.67

**Table 1 Approach TDRS SSA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
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Max. Exceedance: 7.45 dB

**Table 2 Approach TDRS MA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	8/10/2021 22:04	8/10/2021 22:34	0:29:10	24.01	-58.92	175.98	-51.72	39.73	294.26	-134.44	9.56
2	8/10/2021 22:36	8/10/2021 23:16	0:39:50	-51.01	56.99	303.35	41.02	166.62	277.00	-137.27	6.73
3	8/10/2021 23:19	8/10/2021 23:32	0:12:40	46.76	179.53	266.58	43.33	-108.51	225.86	-134.84	9.16
4	8/10/2021 23:36	8/11/2021 0:08	0:31:40	31.61	-90.72	218.06	-51.60	13.69	323.30	-136.00	8.00
5	8/11/2021 0:11	8/11/2021 0:19	0:07:50	-51.23	30.89	332.64	-38.33	68.98	344.75	-139.08	4.92
6	8/11/2021 0:22	8/11/2021 0:53	0:31:10	-31.03	78.49	344.18	51.23	177.47	253.27	-138.11	5.89
7	8/11/2021 0:56	8/11/2021 1:06	0:10:00	51.58	-164.90	243.51	33.80	-116.23	218.93	-134.92	9.08
8	8/11/2021 1:10	8/11/2021 1:47	0:37:00	20.16	-102.41	216.81	-41.70	40.43	343.90	-136.13	7.87
9	8/11/2021 1:50	8/11/2021 1:57	0:07:00	-34.90	50.94	344.67	-14.97	70.32	336.72	-139.29	4.71
10	8/11/2021 2:05	8/11/2021 2:24	0:19:00	10.79	88.99	314.75	51.78	165.18	247.65	-137.68	6.32
11	8/11/2021 3:06	8/11/2021 3:12	0:06:20	-50.32	-43.45	315.11	-49.86	-5.72	336.25	-139.27	4.73
12	8/11/2021 3:15	8/11/2021 3:40	0:25:20	-45.96	8.12	341.33	25.95	78.72	298.12	-137.95	6.05
13	8/11/2021 3:43	8/11/2021 4:05	0:21:30	33.84	87.34	288.10	35.82	-164.63	220.25	-135.25	8.75
14	8/11/2021 4:13	8/11/2021 4:32	0:18:50	9.99	-140.18	219.99	-44.61	-86.04	297.28	-136.15	7.85
15	8/11/2021 4:35	8/11/2021 5:01	0:26:20	-49.24	-71.72	310.58	-1.36	34.51	326.29	-138.99	5.01
16	8/11/2021 5:04	8/11/2021 5:16	0:12:00	6.93	40.40	318.73	41.02	75.08	277.84	-138.24	5.76
17	8/11/2021 5:19	8/11/2021 5:56	0:37:00	46.76	87.98	267.45	-29.06	-132.33	264.99	-134.91	9.09
18	8/11/2021 5:59	8/11/2021 6:39	0:40:20	-36.73	-123.03	279.45	22.30	29.58	302.69	-137.64	6.36
19	8/11/2021 6:42	8/11/2021 6:51	0:08:40	30.45	37.60	292.89	49.33	74.20	261.40	-138.25	5.75
20	8/11/2021 6:53	8/11/2021 7:21	0:27:20	51.63	91.07	251.24	-13.65	-168.84	241.09	-134.94	9.06
21	8/11/2021 7:29	8/11/2021 8:13	0:43:52	-38.09	-143.91	281.93	33.82	18.66	288.77	-137.78	6.22
22	8/11/2021 8:16	8/11/2021 8:25	0:09:10	40.51	28.42	279.12	51.71	78.00	246.01	-137.20	6.80
23	8/11/2021 8:28	8/11/2021 9:10	0:42:00	49.66	95.11	236.80	-51.64	-111.71	328.24	-134.96	9.04
24	8/11/2021 9:13	8/11/2021 9:42	0:29:40	-49.63	-96.13	335.62	31.24	-7.30	292.39	-137.87	6.13
25	8/11/2021 9:45	8/11/2021 10:26	0:41:00	38.63	2.45	282.25	-29.52	159.50	264.96	-134.98	9.02
26	8/11/2021 10:29	8/11/2021 10:37	0:08:00	-37.13	168.90	279.38	-51.08	-152.53	317.27	-138.75	5.25
27	8/11/2021 10:40	8/11/2021 11:11	0:31:20	-51.67	-135.33	327.56	28.10	-33.56	296.52	-137.80	6.20
28	8/11/2021 11:18	8/11/2021 11:52	0:33:50	44.67	-9.01	272.61	-16.23	124.52	243.88	-135.01	8.99
29	8/11/2021 11:54	8/11/2021 12:07	0:12:40	-24.82	131.91	256.71	-51.22	-174.14	317.82	-137.24	6.76
30	8/11/2021 12:14	8/11/2021 12:57	0:43:10	-47.69	-134.29	338.15	50.41	22.39	247.15	-136.78	7.22
31	8/11/2021 13:00	8/11/2021 13:15	0:14:50	46.47	37.92	240.61	5.53	85.75	239.98	-135.59	8.41
32	8/11/2021 13:18	8/11/2021 13:55	0:37:10	-3.50	92.16	248.00	-21.86	-118.53	344.65	-137.51	6.49
33	8/11/2021 14:21	8/11/2021 14:32	0:11:30	49.62	-39.04	265.41	41.68	25.82	236.23	-136.10	7.90
34	8/11/2021 14:35	8/11/2021 15:04	0:29:10	34.62	36.67	232.76	-48.10	123.44	321.93	-135.60	8.40
35	8/11/2021 15:07	8/11/2021 15:23	0:16:10	-51.17	139.34	332.73	-26.17	-145.43	347.31	-139.36	4.64
36	8/11/2021 15:50	8/11/2021 15:58	0:08:50	47.53	-70.07	270.32	49.27	-17.62	244.64	-137.00	7.00
37	8/11/2021 16:01	8/11/2021 16:45	0:43:30	44.53	-3.02	238.49	-47.08	158.82	349.53	-135.63	8.37
38	8/11/2021 16:48	8/11/2021 16:54	0:06:50	-41.59	171.62	351.40	-23.74	-166.07	345.92	-139.40	4.60
39	8/11/2021 17:24	8/11/2021 17:53	0:29:10	51.62	-69.86	258.00	-18.77	34.81	266.04	-135.64	8.36
40	8/11/2021 17:56	8/11/2021 18:06	0:09:50	-27.20	42.43	279.14	-49.28	82.16	324.78	-138.14	5.86
41	8/11/2021 18:08	8/11/2021 18:24	0:15:20	-51.54	97.61	334.47	-26.57	168.32	347.43	-139.34	4.66
42	8/11/2021 18:57	8/11/2021 19:27	0:29:20	50.84	-72.07	248.64	-29.14	21.49	282.17	-135.67	8.33
43	8/11/2021 19:29	8/11/2021 19:38	0:08:40	-36.34	30.17	295.14	-51.30	71.76	332.56	-139.05	4.95
44	8/11/2021 19:41	8/11/2021 20:16	0:35:10	-51.59	88.94	341.06	39.05	-157.42	284.52	-137.96	6.04
45	8/11/2021 20:32	8/11/2021 21:01	0:28:30	43.77	-70.10	238.12	-39.27	11.60	300.67	-135.70	8.30
46	8/11/2021 21:03	8/11/2021 21:48	0:44:10	-45.37	23.69	313.84	42.58	-174.08	315.22	-137.87	6.13
47	8/11/2021 21:50	8/11/2021 22:06	0:15:40	47.88	-160.63	318.94	35.30	-78.96	357.66	-139.07	4.93
48	8/11/2021 22:09	8/11/2021 22:48	0:38:40	27.65	-70.16	366.44	-45.96	69.89	430.51	-140.73	3.27
49	8/11/2021 22:50	8/11/2021 23:26	0:35:40	-40.20	81.96	428.16	51.30	-166.20	422.53	-140.11	3.89
50	8/11/2021 23:26	8/11/2021 23:26	0:00:00	51.51	-163.79	421.67	51.51	-163.79	421.67	-142.15	1.85
51	8/11/2021 23:49	8/12/2021 0:26	0:37:10	7.20	-76.86	416.57	-33.95	67.40	426.15	-141.04	2.96
52	8/12/2021 0:29	8/12/2021 0:46	0:17:50	-26.29	75.80	423.09	26.85	117.62	416.40	-140.26	3.74
53	8/12/2021 0:49	8/12/2021 0:59	0:09:30	34.48	126.14	417.72	51.25	169.64	421.64	-141.78	2.22
54	8/12/2021 1:00	8/12/2021 1:10	0:09:20	51.78	178.55	421.82	40.16	-133.35	419.61	-141.36	2.64
55	8/12/2021 1:10	8/12/2021 1:10	0:00:00	39.00	-131.45	419.39	39.00	-131.45	419.39	-141.72	2.28
56	8/12/2021 1:13	8/12/2021 1:20	0:06:40	30.98	-120.86	417.99	11.72	-103.77	416.49	-143.97	0.03
57	8/12/2021 1:25	8/12/2021 1:55	0:30:20	-2.50	-93.58	417.61	-42.59	30.41	429.65	-140.49	3.51
58	8/12/2021 2:08	8/12/2021 2:08	0:00:00	-7.57	67.47	417.48	-7.57	67.47	417.48	-140.73	3.27
59	8/12/2021 2:08	8/12/2021 2:32	0:23:20	-6.05	68.57	417.20	51.25	146.07	422.64	-140.26	3.74
60	8/12/2021 2:33	8/12/2021 2:41	0:07:40	51.78	154.98	422.81	43.73	-163.74	421.07	-141.68	2.32

**Table 2 Approach TDRS MA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
61	8/12/2021 2:57	8/12/2021 3:04	0:06:20	-2.50	-117.17	417.40	-21.51	-102.68	421.82	-141.68	2.32
62	8/12/2021 3:07	8/12/2021 3:27	0:20:00	-29.51	-95.02	424.55	-44.90	1.79	430.06	-141.35	2.65
63	8/12/2021 3:29	8/12/2021 3:53	0:23:40	-38.86	13.37	427.58	29.66	73.33	417.61	-140.41	3.59
64	8/12/2021 3:56	8/12/2021 4:04	0:08:30	37.03	82.41	419.11	51.25	122.53	422.66	-141.89	2.11
65	8/12/2021 4:06	8/12/2021 4:22	0:15:40	51.79	132.44	422.84	23.04	-160.13	417.34	-140.59	3.41
66	8/12/2021 4:22	8/12/2021 4:35	0:12:30	21.59	-158.85	417.17	-16.15	-130.71	420.24	-141.65	2.35
67	8/12/2021 4:38	8/12/2021 5:28	0:50:10	-24.41	-123.67	422.75	34.54	55.45	418.56	-140.48	3.52
68	8/12/2021 5:34	8/12/2021 5:37	0:03:20	47.89	81.56	421.75	51.35	99.96	422.69	-142.50	1.50
69	8/12/2021 5:39	8/12/2021 5:55	0:15:40	51.80	108.90	422.84	23.02	176.30	417.36	-140.61	3.39
70	8/12/2021 5:55	8/12/2021 6:20	0:24:40	21.57	177.58	417.20	-46.72	-113.86	431.06	-141.57	2.43
71	8/12/2021 6:23	8/12/2021 6:55	0:32:50	-50.44	-99.00	432.42	20.25	17.25	416.20	-140.54	3.46
72	8/12/2021 6:58	8/12/2021 7:00	0:01:40	28.33	24.76	417.33	32.83	29.74	418.17	-141.38	2.62
73	8/12/2021 7:04	8/12/2021 7:07	0:03:10	43.20	45.78	424.56	48.67	60.80	425.94	-141.60	2.40
74	8/12/2021 7:09	8/12/2021 7:11	0:01:50	50.69	70.84	426.48	51.70	81.58	426.78	-141.42	2.58
75	8/12/2021 7:13	8/12/2021 7:14	0:01:30	51.71	90.56	426.83	50.98	99.40	426.71	-142.71	1.29
76	8/12/2021 7:15	8/12/2021 7:18	0:03:30	50.43	103.20	426.60	45.54	121.25	425.54	-141.53	2.47
77	8/12/2021 7:21	8/12/2021 7:23	0:01:40	39.66	133.13	424.25	35.63	139.09	423.42	-141.83	2.17
78	8/12/2021 7:23	8/12/2021 7:29	0:06:00	34.36	140.75	423.18	17.58	157.34	420.86	-140.75	3.25
79	8/12/2021 7:30	8/12/2021 7:32	0:01:20	14.11	160.07	420.67	10.09	163.09	420.60	-141.45	2.55
80	8/12/2021 7:33	8/12/2021 7:34	0:01:20	7.56	164.93	420.64	3.50	167.83	420.85	-141.27	2.73
81	8/12/2021 7:35	8/12/2021 7:35	0:00:00	0.95	169.63	421.08	0.95	169.63	421.08	-143.63	0.37
82	8/12/2021 7:35	8/12/2021 7:36	0:00:30	-0.58	170.70	421.24	-2.10	171.78	421.44	-142.47	1.53
83	8/12/2021 7:38	8/12/2021 7:38	0:00:40	-8.20	176.13	422.45	-10.22	177.60	422.87	-143.22	0.78
84	8/12/2021 7:39	8/12/2021 7:39	0:00:10	-12.23	179.10	423.32	-12.73	179.48	423.44	-143.93	0.07
85	8/12/2021 7:40	8/12/2021 7:40	0:00:10	-15.72	-178.22	424.20	-16.22	-177.83	424.34	-143.88	0.12
86	8/12/2021 7:41	8/12/2021 7:46	0:04:40	-19.17	-175.44	425.17	-32.27	-162.71	429.60	-142.25	1.75
87	8/12/2021 7:47	8/12/2021 7:48	0:00:40	-35.28	-158.96	430.73	-36.94	-156.69	431.36	-141.83	2.17
88	8/12/2021 7:49	8/12/2021 7:49	0:00:00	-38.94	-153.69	432.13	-38.94	-153.69	432.13	-143.92	0.08
89	8/12/2021 7:51	8/12/2021 7:53	0:01:40	-44.00	-144.31	434.08	-47.01	-136.62	435.21	-142.12	1.88
90	8/12/2021 7:54	8/12/2021 7:54	0:00:10	-48.28	-132.45	435.69	-48.51	-131.59	435.77	-142.22	1.78
91	8/12/2021 7:56	8/12/2021 7:56	0:00:10	-51.11	-117.81	436.69	-51.21	-116.84	436.72	-143.72	0.28
92	8/12/2021 8:01	8/12/2021 8:03	0:02:40	-50.83	-91.25	436.44	-47.73	-76.87	435.15	-141.49	2.51
93	8/12/2021 8:05	8/12/2021 8:15	0:10:20	-45.80	-71.22	434.36	-20.02	-36.49	424.54	-141.49	2.51
94	8/12/2021 8:15	8/12/2021 8:16	0:00:10	-18.55	-35.27	424.09	-18.06	-34.87	423.95	-143.27	0.73
95	8/12/2021 8:16	8/12/2021 8:16	0:00:00	-16.58	-33.68	423.52	-16.58	-33.68	423.52	-143.20	0.80
96	8/12/2021 8:17	8/12/2021 8:18	0:01:40	-15.09	-32.50	423.11	-10.08	-28.72	421.88	-141.26	2.74
97	8/12/2021 8:19	8/12/2021 8:21	0:01:50	-6.54	-26.15	421.17	-0.95	-22.18	420.32	-141.69	2.31
98	8/12/2021 8:22	8/12/2021 8:22	0:00:40	0.58	-21.11	420.15	2.62	-19.67	419.96	-142.29	1.71
99	8/12/2021 8:24	8/12/2021 8:30	0:05:20	8.72	-15.31	419.67	24.51	-2.58	420.75	-141.97	2.03
100	8/12/2021 8:30	8/12/2021 8:33	0:02:40	25.92	-1.24	420.96	33.19	6.58	422.28	-142.65	1.35
101	8/12/2021 8:39	8/12/2021 8:41	0:02:00	45.93	28.54	425.26	49.01	38.55	426.05	-141.67	2.33
102	8/12/2021 8:42	8/12/2021 8:44	0:01:50	50.77	47.76	426.52	51.72	58.52	426.81	-141.35	2.65
103	8/12/2021 8:45	8/12/2021 8:45	0:00:00	51.80	63.51	426.85	51.80	63.51	426.85	-143.90	0.10
104	8/12/2021 8:46	8/12/2021 8:47	0:01:30	51.69	67.50	426.85	50.92	76.32	426.71	-142.74	1.26
105	8/12/2021 8:48	8/12/2021 8:56	0:08:00	50.35	80.11	426.59	35.40	115.80	423.39	-141.47	2.53
106	8/12/2021 8:56	8/12/2021 8:57	0:00:40	33.69	117.98	423.06	31.94	120.08	422.73	-140.78	3.22
107	8/12/2021 9:00	8/12/2021 9:02	0:02:20	24.11	128.12	421.52	17.31	133.95	420.86	-141.05	2.95
108	8/12/2021 9:03	8/12/2021 9:05	0:01:20	13.83	136.68	420.68	9.81	139.69	420.62	-141.50	2.50
109	8/12/2021 9:06	8/12/2021 9:07	0:01:20	7.28	141.53	420.67	3.22	144.42	420.89	-141.31	2.69
110	8/12/2021 9:08	8/12/2021 9:09	0:01:10	0.67	146.22	421.12	-2.89	148.73	421.56	-142.43	1.57
111	8/12/2021 9:11	8/12/2021 9:11	0:00:30	-8.98	153.09	422.61	-10.50	154.20	422.93	-143.45	0.55
112	8/12/2021 9:12	8/12/2021 9:12	0:00:00	-12.51	155.70	423.39	-12.51	155.70	423.39	-143.94	0.06
113	8/12/2021 9:13	8/12/2021 9:13	0:00:10	-16.00	158.39	424.27	-16.49	158.78	424.40	-143.94	0.06
114	8/12/2021 9:14	8/12/2021 9:19	0:04:40	-19.44	161.18	425.24	-32.51	173.97	429.66	-142.23	1.77
115	8/12/2021 9:20	8/12/2021 9:21	0:00:50	-35.52	177.74	430.78	-37.57	-179.38	431.56	-141.87	2.13
116	8/12/2021 9:22	8/12/2021 9:22	0:00:00	-39.16	-176.96	432.17	-39.16	-176.96	432.17	-143.90	0.10
117	8/12/2021 9:24	8/12/2021 9:26	0:01:50	-44.18	-167.52	434.09	-47.42	-158.95	435.30	-142.11	1.89
118	8/12/2021 9:27	8/12/2021 9:27	0:00:10	-48.41	-155.58	435.66	-48.64	-154.72	435.75	-142.27	1.73
119	8/12/2021 9:28	8/12/2021 9:28	0:00:00	-50.37	-146.59	436.36	-50.37	-146.59	436.36	-143.98	0.02
120	8/12/2021 9:29	8/12/2021 9:29	0:00:10	-51.17	-140.88	436.63	-51.27	-139.91	436.66	-143.58	0.42



**Table 2 Approach TDRS MA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
121	8/12/2021 9:30	8/12/2021 9:30	0:00:20	-51.52	-136.98	436.74	-51.64	-135.00	436.77	-142.36	1.64
122	8/12/2021 9:31	8/12/2021 9:32	0:01:10	-51.76	-132.03	436.80	-51.72	-125.06	436.74	-142.18	1.82
123	8/12/2021 9:34	8/12/2021 9:35	0:01:00	-50.76	-114.33	436.31	-49.80	-108.74	435.91	-141.47	2.53
124	8/12/2021 9:38	8/12/2021 9:48	0:10:20	-45.63	-94.40	434.19	-19.75	-59.87	424.38	-141.38	2.62
125	8/12/2021 9:48	8/12/2021 9:49	0:00:10	-18.28	-58.65	423.94	-17.79	-58.25	423.79	-143.24	0.76
126	8/12/2021 9:49	8/12/2021 9:49	0:00:00	-16.31	-57.07	423.37	-16.31	-57.07	423.37	-143.16	0.84
127	8/12/2021 9:50	8/12/2021 9:51	0:01:40	-14.82	-55.90	422.96	-9.80	-52.12	421.75	-141.20	2.80
128	8/12/2021 9:53	8/12/2021 9:55	0:02:50	-5.75	-49.19	420.97	2.91	-43.08	419.88	-141.68	2.32
129	8/12/2021 9:57	8/12/2021 9:57	0:00:00	9.00	-38.72	419.63	9.00	-38.72	419.63	-143.88	0.12
130	8/12/2021 9:58	8/12/2021 10:03	0:04:50	10.51	-37.60	419.63	24.77	-25.94	420.78	-141.90	2.10
131	8/12/2021 10:03	8/12/2021 10:06	0:02:40	26.19	-24.59	421.00	33.43	-16.74	422.34	-142.61	1.39
132	8/12/2021 10:10	8/12/2021 10:14	0:03:20	43.58	-0.65	424.71	49.13	15.44	426.15	-141.74	2.26
133	8/12/2021 10:15	8/12/2021 10:15	0:00:10	50.84	24.68	426.61	50.97	25.64	426.65	-142.58	1.42
134	8/12/2021 10:19	8/12/2021 10:20	0:01:30	51.66	44.45	426.92	50.85	53.24	426.78	-142.79	1.21
135	8/12/2021 10:21	8/12/2021 10:29	0:08:00	50.26	57.02	426.66	35.16	92.50	423.42	-141.25	2.75
136	8/12/2021 10:29	8/12/2021 10:32	0:02:20	33.45	94.67	423.09	27.14	101.61	422.02	-140.83	3.17
137	8/12/2021 10:35	8/12/2021 10:35	0:00:30	18.51	109.36	421.01	17.03	110.56	420.90	-143.14	0.86
138	8/12/2021 10:36	8/12/2021 10:38	0:01:20	13.55	113.28	420.73	9.53	116.28	420.68	-141.63	2.37
139	8/12/2021 10:39	8/12/2021 10:40	0:01:20	7.00	118.12	420.74	2.94	121.01	420.97	-141.36	2.64
140	8/12/2021 10:41	8/12/2021 10:42	0:01:00	-0.12	123.17	421.26	-3.18	125.32	421.64	-142.58	1.42
141	8/12/2021 10:44	8/12/2021 10:45	0:00:40	-9.26	129.68	422.70	-11.28	131.17	423.14	-143.56	0.44
142	8/12/2021 10:45	8/12/2021 10:45	0:00:00	-12.78	132.30	423.48	-12.78	132.30	423.48	-143.95	0.05
143	8/12/2021 10:46	8/12/2021 10:46	0:00:00	-16.77	135.39	424.50	-16.77	135.39	424.50	-143.99	0.01
144	8/12/2021 10:47	8/12/2021 10:51	0:04:00	-19.71	137.80	425.35	-30.98	148.60	429.10	-142.19	1.81
145	8/12/2021 10:52	8/12/2021 10:52	0:00:10	-32.31	150.13	429.59	-32.75	150.65	429.75	-143.98	0.02
146	8/12/2021 10:53	8/12/2021 10:55	0:01:40	-35.75	154.44	430.87	-39.76	160.40	432.39	-142.09	1.91
147	8/12/2021 10:57	8/12/2021 10:59	0:01:50	-44.36	169.28	434.15	-47.56	177.90	435.34	-142.20	1.80
148	8/12/2021 11:00	8/12/2021 11:00	0:00:10	-48.54	-178.71	435.70	-48.76	-177.84	435.78	-142.41	1.59
149	8/12/2021 11:01	8/12/2021 11:01	0:00:00	-50.46	-169.68	436.38	-50.46	-169.68	436.38	-143.72	0.28
150	8/12/2021 11:02	8/12/2021 11:05	0:02:40	-51.22	-163.95	436.63	-51.70	-148.12	436.72	-142.21	1.79
151	8/12/2021 11:07	8/12/2021 11:09	0:02:20	-50.68	-137.42	436.27	-47.95	-124.84	435.14	-141.53	2.47
152	8/12/2021 11:10	8/12/2021 11:13	0:03:10	-46.91	-121.53	434.71	-40.71	-107.68	432.17	-141.88	2.12
153	8/12/2021 11:16	8/12/2021 11:21	0:05:10	-33.85	-97.64	429.41	-19.48	-83.25	424.32	-141.27	2.73
154	8/12/2021 11:21	8/12/2021 11:22	0:00:10	-18.00	-82.04	423.88	-17.51	-81.64	423.74	-143.22	0.78
155	8/12/2021 11:22	8/12/2021 11:24	0:02:20	-16.03	-80.46	423.32	-9.02	-75.16	421.62	-141.14	2.86
156	8/12/2021 11:25	8/12/2021 11:25	0:00:00	-6.99	-73.69	421.22	-6.99	-73.69	421.22	-143.92	0.08
157	8/12/2021 11:26	8/12/2021 11:27	0:01:50	-5.47	-72.60	420.95	0.13	-68.64	420.18	-141.68	2.32
158	8/12/2021 11:28	8/12/2021 11:29	0:00:40	1.66	-67.57	420.03	3.70	-66.13	419.87	-142.05	1.95
159	8/12/2021 11:30	8/12/2021 11:30	0:00:00	9.28	-62.12	419.67	9.28	-62.12	419.67	-143.98	0.02
160	8/12/2021 11:31	8/12/2021 11:36	0:04:40	11.30	-60.63	419.68	25.03	-49.30	420.87	-141.93	2.07
161	8/12/2021 11:36	8/12/2021 11:39	0:02:40	26.44	-47.95	421.09	33.67	-40.05	422.45	-142.56	1.44
162	8/12/2021 11:40	8/12/2021 11:40	0:00:00	36.22	-36.73	423.00	36.22	-36.73	423.00	-143.99	0.01
163	8/12/2021 11:45	8/12/2021 11:47	0:01:10	47.62	-13.73	425.80	49.24	-7.68	426.23	-141.85	2.15
164	8/12/2021 11:48	8/12/2021 11:50	0:02:00	50.91	1.60	426.69	51.78	13.41	426.96	-141.20	2.80
165	8/12/2021 11:51	8/12/2021 11:51	0:00:00	51.78	17.40	426.98	51.78	17.40	426.98	-143.57	0.43
166	8/12/2021 11:52	8/12/2021 11:53	0:01:30	51.63	21.38	426.97	50.77	30.16	426.81	-142.74	1.26
167	8/12/2021 11:54	8/12/2021 12:02	0:08:00	50.17	33.93	426.68	34.93	69.19	423.39	-141.11	2.89
168	8/12/2021 12:02	8/12/2021 12:06	0:03:40	33.64	70.82	423.13	23.58	81.38	421.52	-140.92	3.08
169	8/12/2021 12:09	8/12/2021 12:11	0:01:30	13.28	89.88	420.70	8.75	93.24	420.66	-141.86	2.14
170	8/12/2021 12:12	8/12/2021 12:13	0:01:30	6.72	94.71	420.72	2.14	97.96	421.00	-141.29	2.71
171	8/12/2021 12:14	8/12/2021 12:14	0:00:00	-0.40	99.75	421.26	-0.40	99.75	421.26	-143.58	0.42
172	8/12/2021 12:14	8/12/2021 12:15	0:00:30	-1.93	100.83	421.44	-3.46	101.91	421.66	-142.82	1.18
173	8/12/2021 12:17	8/12/2021 12:18	0:00:30	-10.05	106.65	422.84	-11.56	107.76	423.18	-143.63	0.37
174	8/12/2021 12:20	8/12/2021 12:24	0:04:00	-19.98	114.41	425.42	-31.23	125.27	429.21	-142.15	1.85
175	8/12/2021 12:26	8/12/2021 12:28	0:01:40	-35.98	131.14	430.98	-39.96	137.14	432.52	-142.32	1.68
176	8/12/2021 12:30	8/12/2021 12:32	0:01:40	-44.85	146.82	434.40	-47.70	154.75	435.47	-142.30	1.70
177	8/12/2021 12:33	8/12/2021 12:33	0:00:20	-48.66	158.16	435.83	-49.10	159.91	435.99	-142.38	1.62
178	8/12/2021 12:34	8/12/2021 12:34	0:00:10	-50.39	166.29	436.45	-50.54	167.22	436.50	-143.47	0.53
179	8/12/2021 12:35	8/12/2021 12:38	0:02:30	-51.37	173.95	436.79	-51.67	-171.19	436.83	-142.23	1.77
180	8/12/2021 12:40	8/12/2021 12:42	0:02:20	-50.60	-160.51	436.37	-47.81	-147.99	435.23	-141.57	2.43



**Table 2 Approach TDRS MA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
181	8/12/2021 12:43	8/12/2021 12:54	0:11:10	-46.76	-144.70	434.80	-19.21	-106.64	424.41	-141.15	2.85
182	8/12/2021 12:54	8/12/2021 12:57	0:03:00	-17.74	-105.44	423.97	-8.74	-98.57	421.73	-141.08	2.92
183	8/12/2021 12:58	8/12/2021 12:58	0:00:00	-6.71	-97.11	421.33	-6.71	-97.11	421.33	-143.98	0.02
184	8/12/2021 12:59	8/12/2021 13:00	0:01:50	-5.19	-96.02	421.07	0.41	-92.06	420.30	-141.69	2.31
185	8/12/2021 13:01	8/12/2021 13:02	0:00:40	1.94	-90.98	420.15	3.97	-89.54	420.00	-142.26	1.74
186	8/12/2021 15:03	8/12/2021 15:04	0:00:50	45.00	4.52	425.28	43.37	8.20	424.90	-141.87	2.13
187	8/12/2021 15:04	8/12/2021 15:08	0:03:10	42.33	10.30	424.67	34.89	22.01	423.07	-142.45	1.55
188	8/12/2021 15:08	8/12/2021 15:13	0:05:10	33.17	24.17	422.73	18.69	38.38	420.68	-140.99	3.01
189	8/12/2021 15:14	8/12/2021 15:14	0:00:20	17.21	39.58	420.57	16.22	40.37	420.50	-143.10	0.90
190	8/12/2021 15:16	8/12/2021 15:17	0:01:20	12.23	43.45	420.34	8.19	46.42	420.35	-141.63	2.37
191	8/12/2021 15:18	8/12/2021 15:19	0:01:30	6.17	47.88	420.42	1.59	51.13	420.74	-141.18	2.82
192	8/12/2021 15:20	8/12/2021 15:20	0:00:00	-0.96	52.92	421.02	-0.96	52.92	421.02	-143.80	0.20
193	8/12/2021 15:20	8/12/2021 15:21	0:00:20	-2.49	54.00	421.22	-3.51	54.72	421.37	-142.74	1.26
194	8/12/2021 16:45	8/12/2021 16:46	0:01:10	21.83	12.11	420.96	18.42	14.99	420.62	-141.39	2.61
195	8/12/2021 16:47	8/12/2021 16:47	0:00:20	16.94	16.19	420.51	15.95	16.98	420.45	-143.16	0.84
196	8/12/2021 16:49	8/12/2021 16:50	0:01:20	11.95	20.04	420.30	7.92	23.01	420.31	-141.54	2.46
197	8/12/2021 16:51	8/12/2021 16:52	0:01:20	5.38	24.83	420.41	1.31	27.71	420.72	-141.22	2.78
198	8/12/2021 16:53	8/12/2021 16:54	0:01:20	-1.75	29.87	421.07	-5.82	32.75	421.69	-142.78	1.22
199	8/12/2021 16:56	8/12/2021 16:57	0:00:30	-11.38	36.80	422.81	-12.88	37.93	423.17	-143.83	0.17
200	8/12/2021 17:00	8/12/2021 17:00	0:00:00	-21.27	44.67	425.54	-21.27	44.67	425.54	-143.93	0.07

Max. Exceedance: 9.56 dB

**Table 3 Approach GN 6Mbps (4M98G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	8/11/2021 2:57	8/11/2021 3:01	0:04:00	-33.00	-82.12	272.79	-42.81	-67.06	293.31	-140.28	3.72
2	8/11/2021 14:13	8/11/2021 14:16	0:03:20	33.37	-73.56	290.99	41.65	-61.21	279.94	-140.08	3.92
3	8/11/2021 18:34	8/11/2021 18:39	0:05:00	6.34	-166.24	321.31	21.61	-154.37	305.36	-139.38	4.62

**Max. Exceedance: 4.62**

**dB**

**Table 4 Approach GN 3Mbps (3M00G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	8/11/2021 2:57	8/11/2021 3:01	0:04:00	-33.00	-82.12	272.79	-42.81	-67.06	293.31	-137.27	6.73
2	8/11/2021 14:13	8/11/2021 14:16	0:03:20	33.37	-73.56	290.99	41.65	-61.21	279.94	-137.07	6.93
3	8/11/2021 18:34	8/11/2021 18:39	0:05:00	6.34	-166.24	321.31	21.61	-154.37	305.36	-136.37	7.63

**Max. Exceedance: 7.63**

**dB**

**Table 5 Approach CLS LowRate (5M93G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	8/10/2021 22:04	8/10/2021 22:14	0:09:40	24.01	-58.92	175.98	-6.76	-35.51	197.44	-134.39	9.61
2	8/10/2021 22:15	8/10/2021 22:16	0:00:50	-8.89	-33.96	200.18	-11.55	-31.99	203.79	-142.60	1.40
3	8/10/2021 22:34	8/10/2021 22:57	0:22:50	-51.75	40.76	294.87	-1.25	127.34	294.72	-139.58	4.42
4	8/10/2021 22:58	8/10/2021 22:58	0:00:20	1.88	129.55	292.39	2.93	130.29	291.60	-143.18	0.82
5	8/10/2021 23:33	8/10/2021 23:47	0:14:00	40.70	-103.48	223.35	-0.82	-63.76	227.81	-136.03	7.97
6	8/10/2021 23:48	8/10/2021 23:48	0:00:50	-2.96	-62.25	229.81	-5.62	-60.35	232.51	-141.68	2.32
7	8/11/2021 0:21	8/11/2021 0:31	0:10:30	-33.71	75.34	344.66	-2.80	102.15	327.44	-140.73	3.27
8	8/11/2021 0:33	8/11/2021 0:33	0:00:00	2.91	106.18	322.33	2.91	106.18	322.33	-143.91	0.09
9	8/11/2021 1:03	8/11/2021 1:17	0:14:00	40.61	-126.20	223.29	-0.95	-86.56	227.79	-136.05	7.95
10	8/11/2021 1:18	8/11/2021 1:18	0:00:40	-3.62	-84.66	230.31	-5.75	-83.14	232.50	-141.82	2.18
11	8/11/2021 1:51	8/11/2021 2:01	0:10:30	-33.59	52.59	344.54	-2.67	79.36	327.39	-140.73	3.27
12	8/11/2021 2:33	8/11/2021 2:47	0:14:10	40.51	-148.93	223.45	-1.61	-108.97	228.31	-136.08	7.92
13	8/11/2021 2:48	8/11/2021 2:49	0:00:50	-3.75	-107.46	230.34	-6.41	-105.55	233.09	-141.68	2.32
14	8/11/2021 3:21	8/11/2021 3:31	0:10:40	-33.48	29.84	344.34	-2.02	56.93	326.86	-140.72	3.28
15	8/11/2021 3:33	8/11/2021 3:33	0:00:00	3.68	60.96	321.76	3.68	60.96	321.76	-143.86	0.14
16	8/11/2021 4:03	8/11/2021 4:17	0:14:00	40.02	-170.97	223.15	-1.74	-131.77	228.29	-136.01	7.99
17	8/11/2021 4:18	8/11/2021 4:19	0:00:40	-4.41	-129.87	230.84	-6.53	-128.35	233.06	-141.85	2.15
18	8/11/2021 4:51	8/11/2021 5:01	0:10:30	-32.93	7.63	344.03	-1.88	34.14	326.74	-140.71	3.29
19	8/11/2021 5:03	8/11/2021 5:03	0:00:00	4.34	38.54	321.18	4.34	38.54	321.18	-143.98	0.02
20	8/11/2021 5:33	8/11/2021 5:47	0:14:10	39.92	166.32	223.16	-2.41	-154.18	228.76	-136.05	7.95
21	8/11/2021 5:48	8/11/2021 5:49	0:00:50	-4.54	-152.66	230.82	-7.20	-150.75	233.61	-141.71	2.29
22	8/11/2021 6:21	8/11/2021 6:31	0:10:40	-32.81	-15.11	343.85	-1.23	11.72	326.21	-140.70	3.30
23	8/11/2021 6:33	8/11/2021 6:33	0:00:00	4.48	15.76	321.12	4.48	15.76	321.12	-143.78	0.22
24	8/11/2021 7:03	8/11/2021 7:17	0:14:10	39.82	143.61	223.15	-2.55	-176.96	228.69	-136.06	7.94
25	8/11/2021 7:18	8/11/2021 7:19	0:00:40	-5.21	-175.06	231.29	-7.34	-173.53	233.53	-141.87	2.13
26	8/11/2021 7:51	8/11/2021 8:02	0:10:42	-32.69	-37.85	343.68	-1.00	-11.00	326.22	-138.65	5.35
27	8/11/2021 8:03	8/11/2021 8:03	0:00:00	4.70	-6.97	321.14	4.70	-6.97	321.14	-143.89	0.11
28	8/11/2021 8:33	8/11/2021 8:48	0:14:20	39.65	121.00	223.07	-3.30	160.69	229.22	-136.00	8.00
29	8/11/2021 8:48	8/11/2021 8:49	0:00:50	-5.43	162.21	231.33	-8.09	164.13	234.17	-141.83	2.17
30	8/11/2021 8:51	8/11/2021 8:51	0:00:00	-13.87	168.45	241.15	-13.87	168.45	241.15	-143.99	0.01
31	8/11/2021 9:21	8/11/2021 9:32	0:10:50	-32.50	-60.50	343.63	-0.34	-33.42	325.68	-140.69	3.31
32	8/11/2021 9:34	8/11/2021 9:34	0:00:00	5.36	-29.38	320.59	5.36	-29.38	320.59	-143.69	0.31
33	8/11/2021 10:03	8/11/2021 10:18	0:14:20	39.54	98.29	223.11	-3.45	137.91	229.24	-136.02	7.98
34	8/11/2021 10:18	8/11/2021 10:19	0:00:40	-6.11	139.81	231.90	-8.23	141.35	234.18	-141.86	2.14
35	8/11/2021 10:51	8/11/2021 11:02	0:10:40	-31.93	-82.71	343.39	-0.20	-56.20	325.61	-140.69	3.31
36	8/11/2021 11:04	8/11/2021 11:04	0:00:00	5.51	-52.16	320.54	5.51	-52.16	320.54	-143.82	0.18
37	8/11/2021 11:33	8/11/2021 11:48	0:14:20	39.03	76.24	222.86	-4.12	115.50	229.73	-136.07	7.93
38	8/11/2021 11:48	8/11/2021 11:49	0:00:50	-6.25	117.03	231.87	-8.90	118.95	234.74	-141.91	2.09
39	8/11/2021 11:51	8/11/2021 11:51	0:00:00	-14.67	123.30	241.79	-14.67	123.30	241.79	-143.91	0.09
40	8/11/2021 12:21	8/11/2021 12:40	0:19:10	-31.80	-105.45	343.32	25.85	-58.68	299.62	-139.76	4.24
41	8/11/2021 13:03	8/11/2021 13:18	0:14:20	38.95	53.47	234.70	-4.03	92.54	248.55	-136.61	7.39
42	8/11/2021 13:19	8/11/2021 13:19	0:00:30	-7.21	94.81	252.01	-8.79	95.96	253.85	-142.65	1.35
43	8/11/2021 13:33	8/11/2021 13:46	0:13:30	-45.21	138.08	314.92	-44.09	-147.59	351.12	-140.14	3.86
44	8/11/2021 13:47	8/11/2021 13:47	0:00:00	-43.07	-145.40	351.35	-43.07	-145.40	351.35	-143.91	0.09
45	8/11/2021 13:51	8/11/2021 14:02	0:10:40	-31.30	-127.87	349.58	0.52	-101.58	326.45	-140.75	3.25
46	8/11/2021 14:04	8/11/2021 14:04	0:00:10	6.22	-97.53	320.90	6.74	-97.16	320.39	-143.83	0.17
47	8/11/2021 14:34	8/11/2021 14:48	0:14:20	38.50	31.20	234.33	-4.63	69.96	248.82	-136.65	7.35
48	8/11/2021 14:49	8/11/2021 14:50	0:00:40	-7.27	71.86	251.73	-9.38	73.40	254.19	-142.67	1.33
49	8/11/2021 15:22	8/11/2021 15:32	0:10:50	-31.27	-150.76	349.67	1.07	-124.12	326.16	-140.76	3.24
50	8/11/2021 15:34	8/11/2021 15:34	0:00:00	6.78	-120.07	320.60	6.78	-120.07	320.60	-143.76	0.24
51	8/11/2021 16:04	8/11/2021 16:18	0:14:20	38.48	8.31	234.23	-4.66	47.05	248.54	-136.61	7.39
52	8/11/2021 16:19	8/11/2021 16:20	0:00:30	-7.83	49.33	252.05	-9.41	50.49	253.90	-142.60	1.40
53	8/11/2021 16:52	8/11/2021 17:03	0:10:40	-30.78	-173.15	349.40	1.11	-147.02	326.26	-140.74	3.26
54	8/11/2021 17:05	8/11/2021 17:05	0:00:00	7.33	-142.60	320.21	7.33	-142.60	320.21	-143.63	0.37
55	8/11/2021 17:34	8/11/2021 17:49	0:14:20	38.04	-13.95	234.05	-5.23	24.52	248.92	-136.62	7.38
56	8/11/2021 17:50	8/11/2021 17:50	0:00:30	-8.40	26.81	252.46	-9.97	27.97	254.33	-142.62	1.38
57	8/11/2021 18:22	8/11/2021 18:33	0:10:50	-30.75	163.97	349.31	1.68	-169.56	325.82	-140.75	3.25
58	8/11/2021 18:35	8/11/2021 18:35	0:00:10	7.37	-165.50	320.29	7.89	-165.12	319.78	-143.76	0.24
59	8/11/2021 19:04	8/11/2021 19:19	0:14:30	38.01	-36.83	234.07	-5.79	2.00	249.38	-136.62	7.38
60	8/11/2021 19:20	8/11/2021 19:20	0:00:30	-8.96	4.29	252.96	-10.54	5.45	254.84	-142.74	1.26



**Table 5 Approach CLS LowRate (5M93G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
61	8/11/2021 19:52	8/11/2021 20:03	0:10:50	-30.25	141.58	348.98	2.24	167.91	325.35	-140.73	3.27
62	8/11/2021 20:05	8/11/2021 20:05	0:00:00	7.94	171.98	319.83	7.94	171.98	319.83	-143.77	0.23
63	8/11/2021 20:35	8/11/2021 20:49	0:14:30	37.97	-59.71	234.20	-5.83	-20.90	249.36	-136.61	7.39
64	8/11/2021 20:50	8/11/2021 20:51	0:00:30	-9.00	-18.61	252.93	-10.58	-17.45	254.81	-142.68	1.32
65	8/11/2021 21:16	8/11/2021 21:41	0:24:30	-44.94	95.80	350.11	25.22	163.06	313.88	-140.04	3.96
66	8/11/2021 22:08	8/11/2021 22:36	0:28:00	30.42	-73.09	363.30	-47.12	5.24	431.19	-140.77	3.23
67	8/11/2021 22:56	8/11/2021 23:04	0:07:50	-25.53	100.12	422.51	-2.20	118.48	416.61	-142.58	1.42
68	8/11/2021 23:26	8/11/2021 23:26	0:00:00	51.51	-163.79	421.67	51.51	-163.79	421.67	-140.53	3.47
69	8/11/2021 23:42	8/11/2021 23:51	0:08:30	26.41	-92.51	417.30	1.09	-72.53	417.11	-141.73	2.27
70	8/12/2021 0:29	8/12/2021 0:37	0:08:00	-25.35	76.70	422.74	-1.50	95.38	416.27	-142.56	1.44
71	8/12/2021 1:23	8/12/2021 1:24	0:00:20	1.58	-96.46	417.08	0.56	-95.74	417.19	-142.27	1.73
72	8/12/2021 2:10	8/12/2021 2:10	0:00:00	-1.47	71.82	416.49	-1.47	71.82	416.49	-143.57	0.43
73	8/12/2021 2:48	8/12/2021 2:56	0:08:30	25.91	-139.21	417.65	0.55	-119.33	417.02	-141.72	2.28
74	8/12/2021 3:35	8/12/2021 3:43	0:08:00	-24.83	30.01	422.21	-0.93	48.60	416.37	-142.57	1.43
75	8/12/2021 4:21	8/12/2021 4:29	0:08:30	25.42	-162.33	417.64	0.02	-142.54	417.12	-141.71	2.29
76	8/12/2021 5:08	8/12/2021 5:16	0:08:00	-24.34	6.89	421.96	-0.40	25.39	416.26	-142.55	1.45
77	8/12/2021 5:54	8/12/2021 6:02	0:08:30	24.93	174.55	417.60	-0.51	-165.76	417.21	-141.67	2.33
78	8/12/2021 6:41	8/12/2021 6:49	0:08:00	-24.31	-16.68	421.92	-0.38	1.81	416.23	-142.58	1.42
79	8/12/2021 7:09	8/12/2021 7:15	0:06:10	50.40	68.95	426.40	50.11	105.07	426.53	-139.84	4.16
80	8/12/2021 7:16	8/12/2021 7:31	0:15:10	49.56	107.82	426.41	13.11	160.84	420.64	-140.33	3.67
81	8/12/2021 7:51	8/12/2021 8:16	0:25:30	-42.99	-146.45	433.69	-16.58	-33.68	423.52	-139.57	4.43
82	8/12/2021 8:18	8/12/2021 8:19	0:01:00	-10.08	-28.72	421.88	-7.05	-26.51	421.26	-142.66	1.34
83	8/12/2021 8:20	8/12/2021 8:20	0:00:00	-3.49	-23.98	420.66	-3.49	-23.98	420.66	-143.97	0.03
84	8/12/2021 8:42	8/12/2021 9:04	0:22:00	50.33	44.92	426.40	12.83	137.44	420.65	-139.80	4.20
85	8/12/2021 9:24	8/12/2021 9:49	0:25:30	-43.18	-169.67	433.71	-16.31	-57.07	423.37	-139.56	4.44
86	8/12/2021 9:51	8/12/2021 9:52	0:01:00	-9.80	-52.12	421.75	-6.77	-49.92	421.15	-142.65	1.35
87	8/12/2021 9:53	8/12/2021 9:53	0:00:00	-3.21	-47.39	420.56	-3.21	-47.39	420.56	-143.94	0.06
88	8/12/2021 10:15	8/12/2021 10:37	0:22:00	50.41	21.84	426.49	12.55	114.04	420.70	-139.74	4.26
89	8/12/2021 10:57	8/12/2021 11:22	0:25:30	-43.37	167.11	433.77	-16.03	-80.46	423.32	-139.55	4.45
90	8/12/2021 11:24	8/12/2021 11:25	0:01:00	-9.52	-75.53	421.73	-6.48	-73.33	421.13	-142.65	1.35
91	8/12/2021 11:26	8/12/2021 11:26	0:00:00	-2.93	-70.80	420.56	-2.93	-70.80	420.56	-143.92	0.08
92	8/12/2021 11:48	8/12/2021 12:10	0:22:00	50.50	-1.25	426.57	12.27	90.64	420.67	-139.70	4.30
93	8/12/2021 12:30	8/12/2021 12:55	0:25:20	-43.89	144.61	434.03	-15.76	-103.86	423.41	-139.55	4.45
94	8/12/2021 12:57	8/12/2021 12:58	0:01:00	-9.25	-98.94	421.83	-6.21	-96.74	421.24	-142.65	1.35
95	8/12/2021 12:59	8/12/2021 12:59	0:00:00	-2.65	-94.21	420.68	-2.65	-94.21	420.68	-143.92	0.08
96	8/12/2021 13:21	8/12/2021 13:43	0:22:00	50.57	-24.35	426.58	12.00	67.23	420.52	-139.67	4.33
97	8/12/2021 14:03	8/12/2021 14:28	0:25:20	-44.07	121.40	434.14	-15.49	-127.26	423.53	-139.54	4.46
98	8/12/2021 14:30	8/12/2021 14:31	0:01:10	-8.97	-122.35	421.96	-5.42	-119.80	421.28	-142.65	1.35
99	8/12/2021 14:32	8/12/2021 14:33	0:00:10	-2.37	-117.63	420.80	-1.86	-117.27	420.73	-143.92	0.08
100	8/12/2021 14:54	8/12/2021 15:16	0:22:00	50.65	-47.45	426.49	11.73	43.82	420.34	-139.65	4.35
101	8/12/2021 15:36	8/12/2021 16:01	0:25:20	-44.25	98.19	434.13	-15.22	-150.66	423.49	-139.54	4.46
102	8/12/2021 16:03	8/12/2021 16:04	0:01:00	-8.19	-145.39	421.83	-5.15	-143.21	421.27	-142.66	1.34
103	8/12/2021 16:05	8/12/2021 16:06	0:00:10	-2.09	-141.04	420.80	-1.58	-140.69	420.73	-143.91	0.09
104	8/12/2021 16:27	8/12/2021 16:49	0:22:00	50.73	-70.54	426.53	11.45	20.42	420.29	-139.62	4.38

**Max. Exceedance: 9.61 dB**

Table 6 Berthed TDRS SSA (6M16G1D) PFD Exceedances

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	8/12/2021 20:25	8/12/2021 20:26	0:00:20	-49.64	86.77	435.97	-49.24	88.56	435.81	-143.23	0.77
2	8/12/2021 20:26	8/12/2021 20:26	0:00:00	-48.36	92.06	435.45	-48.36	92.06	435.45	-143.97	0.03
3	8/12/2021 20:28	8/12/2021 20:28	0:00:00	-45.37	100.98	434.24	-45.37	100.98	434.24	-143.26	0.74
4	8/12/2021 20:29	8/12/2021 20:29	0:00:20	-43.78	104.70	433.59	-43.11	106.12	433.32	-143.92	0.08
5	8/12/2021 20:31	8/12/2021 20:31	0:00:10	-39.07	113.39	431.68	-38.68	114.00	431.52	-143.82	0.18
6	8/12/2021 20:32	8/12/2021 20:33	0:00:20	-36.26	117.55	430.55	-35.42	118.68	430.22	-143.37	0.63
7	8/12/2021 22:04	8/12/2021 22:04	0:00:20	-38.86	90.11	431.65	-38.07	91.33	431.33	-143.96	0.04
8	8/12/2021 22:05	8/12/2021 22:06	0:00:20	-36.03	94.25	430.50	-35.19	95.37	430.17	-143.20	0.80
9	8/12/2021 22:10	8/12/2021 22:10	0:00:10	-23.42	108.05	425.78	-22.94	108.48	425.61	-142.91	1.09
10	8/12/2021 22:14	8/12/2021 22:15	0:00:30	-11.11	118.03	422.23	-9.60	119.14	421.89	-143.29	0.71
11	8/12/2021 22:15	8/12/2021 22:15	0:00:00	-8.08	120.25	421.57	-8.08	120.25	421.57	-143.76	0.24
12	8/12/2021 22:17	8/12/2021 22:18	0:00:30	-1.48	124.95	420.48	0.05	126.03	420.29	-143.75	0.25
13	8/12/2021 22:20	8/12/2021 22:20	0:00:00	6.16	130.35	419.81	6.16	130.35	419.81	-143.90	0.10
14	8/12/2021 23:47	8/12/2021 23:48	0:00:30	-10.84	94.63	422.13	-9.32	95.74	421.79	-143.23	0.77
15	8/12/2021 23:48	8/12/2021 23:48	0:00:00	-7.81	96.84	421.47	-7.81	96.84	421.47	-143.65	0.35
16	8/12/2021 23:50	8/12/2021 23:51	0:00:40	-1.20	101.54	420.39	0.84	102.98	420.15	-143.73	0.27
17	8/12/2021 23:53	8/12/2021 23:53	0:00:00	6.44	106.94	419.74	6.44	106.94	419.74	-143.85	0.15
18	8/13/2021 2:41	8/13/2021 2:41	0:00:20	-43.04	11.82	433.38	-42.34	13.21	433.09	-143.81	0.19
19	8/13/2021 2:44	8/13/2021 2:45	0:00:30	-35.34	24.34	430.22	-34.07	25.99	429.71	-142.85	1.15
20	8/13/2021 2:49	8/13/2021 2:49	0:00:10	-22.63	37.93	425.48	-22.15	38.36	425.32	-143.32	0.68
21	8/13/2021 2:53	8/13/2021 2:54	0:00:50	-9.78	48.19	421.86	-7.25	50.02	421.34	-143.12	0.88
22	8/13/2021 2:56	8/13/2021 2:57	0:00:10	-0.13	55.07	420.24	0.38	55.43	420.18	-143.72	0.28
23	8/13/2021 4:22	8/13/2021 4:22	0:00:10	-22.37	14.55	425.31	-21.88	14.98	425.15	-143.45	0.55
24	8/13/2021 4:26	8/13/2021 4:27	0:00:50	-9.50	24.78	421.73	-6.97	26.61	421.22	-143.10	0.90
25	8/13/2021 4:29	8/13/2021 4:30	0:00:30	0.15	31.66	420.15	1.68	32.74	419.99	-143.72	0.28
26	8/13/2021 6:05	8/13/2021 6:05	0:00:00	8.06	13.67	419.60	8.06	13.67	419.60	-143.77	0.23
27	8/13/2021 8:03	8/13/2021 8:04	0:00:20	47.82	96.88	426.00	47.30	98.55	425.89	-143.12	0.88
28	8/13/2021 8:05	8/13/2021 8:05	0:00:00	44.67	105.62	425.32	44.67	105.62	425.32	-143.87	0.13
29	8/13/2021 9:44	8/13/2021 9:45	0:00:10	29.78	104.73	422.43	29.33	105.21	422.36	-143.63	0.37
30	8/13/2021 9:46	8/13/2021 9:46	0:00:00	25.62	108.95	421.81	25.62	108.95	421.81	-143.99	0.01
31	8/13/2021 9:46	8/13/2021 9:47	0:00:10	24.20	110.28	421.62	23.72	110.72	421.56	-143.23	0.77
32	8/13/2021 9:48	8/13/2021 9:49	0:00:50	19.86	114.10	421.15	17.40	116.12	420.96	-143.12	0.88
33	8/13/2021 9:50	8/13/2021 9:50	0:00:00	14.93	118.08	420.82	14.93	118.08	420.82	-143.79	0.21
34	8/13/2021 10:23	8/13/2021 10:23	0:00:50	-48.13	-119.62	435.24	-46.84	-115.48	434.71	-143.05	0.95
35	8/13/2021 10:25	8/13/2021 10:26	0:01:00	-43.12	-106.40	433.16	-40.99	-102.32	432.28	-143.58	0.42
36	8/13/2021 10:29	8/13/2021 10:30	0:00:20	-33.74	-91.65	429.35	-32.87	-90.60	429.01	-142.97	1.03
37	8/13/2021 10:34	8/13/2021 10:34	0:00:10	-21.30	-78.95	424.84	-20.82	-78.53	424.68	-143.31	0.69
38	8/13/2021 11:21	8/13/2021 11:22	0:01:00	19.59	90.71	421.13	16.64	93.12	420.91	-143.05	0.95
39	8/13/2021 11:23	8/13/2021 11:23	0:00:00	14.65	94.68	420.81	14.65	94.68	420.81	-143.89	0.11
40	8/13/2021 11:25	8/13/2021 11:25	0:00:00	6.09	101.02	420.82	6.09	101.02	420.82	-143.89	0.11
41	8/13/2021 11:27	8/13/2021 11:28	0:00:40	-0.02	105.34	421.30	-2.06	106.77	421.54	-143.32	0.68
42	8/13/2021 13:12	8/13/2021 13:12	0:00:20	-33.34	109.99	430.05	-34.20	111.06	430.38	-143.44	0.56
43	8/13/2021 14:45	8/13/2021 14:45	0:00:20	-33.58	86.67	430.04	-34.44	87.75	430.37	-143.35	0.65
44	8/13/2021 14:53	8/13/2021 14:53	0:00:00	-50.12	123.38	436.45	-50.12	123.38	436.45	-143.93	0.07
45	8/13/2021 15:57	8/13/2021 15:57	0:00:10	28.33	11.82	421.88	27.86	12.29	421.81	-143.86	0.14
46	8/13/2021 15:58	8/13/2021 15:58	0:00:00	24.58	15.48	421.33	24.58	15.48	421.33	-143.56	0.44
47	8/13/2021 15:58	8/13/2021 15:59	0:00:20	23.15	16.79	421.15	22.19	17.64	421.04	-143.15	0.85
48	8/13/2021 16:00	8/13/2021 16:01	0:01:00	18.79	20.54	420.70	15.82	22.93	420.49	-142.81	1.19
49	8/13/2021 16:02	8/13/2021 16:02	0:00:00	13.33	24.86	420.39	13.33	24.86	420.39	-143.91	0.09
50	8/13/2021 16:04	8/13/2021 16:04	0:00:00	5.25	30.78	420.48	5.25	30.78	420.48	-143.58	0.42
51	8/13/2021 16:07	8/13/2021 16:07	0:00:30	-1.37	35.45	421.08	-2.89	36.53	421.29	-143.13	0.87
52	8/13/2021 21:16	8/13/2021 21:18	0:01:10	-41.77	90.98	432.83	-39.15	95.50	431.75	-143.45	0.55
53	8/13/2021 21:21	8/13/2021 21:21	0:00:20	-31.62	105.60	428.75	-30.73	106.61	428.40	-143.20	0.80
54	8/13/2021 21:25	8/13/2021 21:25	0:00:10	-18.94	117.77	424.31	-18.45	118.18	424.17	-143.69	0.31
55	8/13/2021 21:27	8/13/2021 21:27	0:00:00	-13.00	122.47	422.66	-13.00	122.47	422.66	-143.78	0.22
56	8/13/2021 21:29	8/13/2021 21:30	0:00:30	-5.93	127.65	421.14	-4.41	128.74	420.88	-143.20	0.80
57	8/13/2021 21:30	8/13/2021 21:30	0:00:00	-2.88	129.82	420.65	-2.88	129.82	420.65	-143.66	0.34
58	8/13/2021 21:33	8/13/2021 21:33	0:00:30	4.25	134.85	419.89	5.78	135.93	419.81	-143.67	0.33
59	8/13/2021 22:58	8/13/2021 22:58	0:00:10	-18.67	94.39	424.20	-18.18	94.79	424.05	-143.62	0.38
60	8/13/2021 23:00	8/13/2021 23:00	0:00:00	-12.72	99.07	422.55	-12.72	99.07	422.55	-143.72	0.28

**Table 6 Berthed TDRS SSA (6M16G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
61	8/13/2021 23:03	8/13/2021 23:03	0:00:50	-5.14	104.60	420.94	-2.60	106.41	420.54	-143.14	0.86
62	8/13/2021 23:06	8/13/2021 23:06	0:00:40	4.53	111.44	419.80	6.56	112.89	419.69	-143.66	0.34
63	8/14/2021 0:39	8/14/2021 0:39	0:00:40	4.81	88.03	419.78	6.85	89.48	419.68	-143.48	0.52
64	8/14/2021 0:56	8/14/2021 0:58	0:02:10	48.63	143.22	425.87	50.93	155.16	426.50	-143.76	0.24
65	8/14/2021 1:53	8/14/2021 1:54	0:01:00	-46.42	9.62	434.80	-44.61	14.24	434.04	-143.16	0.84
66	8/14/2021 1:55	8/14/2021 1:55	0:00:00	-41.17	21.25	432.61	-41.17	21.25	432.61	-143.96	0.04
67	8/14/2021 1:56	8/14/2021 1:57	0:00:50	-40.05	23.19	432.15	-38.11	26.29	431.34	-143.43	0.57
68	8/14/2021 2:00	8/14/2021 2:00	0:00:30	-30.89	35.60	428.45	-29.53	37.08	427.94	-143.25	0.75
69	8/14/2021 2:04	8/14/2021 2:04	0:00:00	-17.64	48.01	423.87	-17.64	48.01	423.87	-143.55	0.45
70	8/14/2021 3:33	8/14/2021 3:33	0:00:30	-30.64	12.27	428.27	-29.28	13.74	427.75	-143.25	0.75
71	8/14/2021 3:37	8/14/2021 3:37	0:00:00	-17.37	24.62	423.71	-17.37	24.62	423.71	-143.56	0.44
72	8/14/2021 3:42	8/14/2021 3:42	0:00:30	-4.31	34.37	420.71	-2.78	35.45	420.48	-143.22	0.78
73	8/14/2021 3:43	8/14/2021 3:43	0:00:00	-1.25	36.53	420.27	-1.25	36.53	420.27	-143.68	0.32
74	8/14/2021 3:45	8/14/2021 3:45	0:00:30	5.88	41.57	419.65	7.40	42.66	419.59	-143.64	0.36
75	8/14/2021 3:47	8/14/2021 3:47	0:00:00	11.44	45.62	419.56	11.44	45.62	419.56	-143.97	0.03
76	8/14/2021 5:15	8/14/2021 5:15	0:00:00	-2.50	12.04	420.42	-2.50	12.04	420.42	-143.70	0.30
77	8/14/2021 5:16	8/14/2021 5:16	0:00:00	-0.97	13.12	420.21	-0.97	13.12	420.21	-143.58	0.42
78	8/14/2021 5:18	8/14/2021 5:18	0:00:30	6.16	18.16	419.62	7.68	19.25	419.57	-143.64	0.36
79	8/14/2021 6:15	8/14/2021 6:15	0:00:20	-36.32	-145.84	431.30	-37.14	-144.69	431.61	-143.75	0.25
80	8/14/2021 8:52	8/14/2021 8:52	0:00:30	44.41	88.46	425.31	43.42	90.64	425.10	-143.13	0.87
81	8/14/2021 8:54	8/14/2021 8:54	0:00:10	39.81	97.38	424.33	39.42	98.01	424.25	-143.72	0.28
82	8/14/2021 8:56	8/14/2021 8:56	0:00:30	35.79	103.36	423.52	34.52	105.03	423.27	-142.82	1.18
83	8/14/2021 9:00	8/14/2021 9:00	0:00:00	24.55	115.80	421.67	24.55	115.80	421.67	-143.83	0.17
84	8/14/2021 9:01	8/14/2021 9:01	0:00:00	21.19	118.81	421.29	21.19	118.81	421.29	-143.83	0.17
85	8/14/2021 9:02	8/14/2021 9:02	0:00:10	19.25	120.46	421.11	18.76	120.87	421.08	-142.92	1.08
86	8/14/2021 10:33	8/14/2021 10:33	0:00:00	24.29	92.44	421.69	24.29	92.44	421.69	-143.93	0.07
87	8/14/2021 10:35	8/14/2021 10:35	0:00:10	18.97	97.08	421.13	18.48	97.48	421.09	-142.91	1.09
88	8/14/2021 10:36	8/14/2021 10:37	0:00:50	14.52	100.63	420.85	12.02	102.53	420.78	-143.30	0.70
89	8/14/2021 10:41	8/14/2021 10:41	0:00:00	0.87	110.57	421.25	0.87	110.57	421.25	-143.64	0.36
90	8/14/2021 14:00	8/14/2021 14:00	0:00:00	-38.65	99.51	432.06	-38.65	99.51	432.06	-143.95	0.05
91	8/14/2021 15:08	8/14/2021 15:08	0:00:20	34.44	10.69	423.02	33.58	11.77	422.85	-142.40	1.60
92	8/14/2021 15:12	8/14/2021 15:12	0:00:00	23.03	22.75	421.18	23.03	22.75	421.18	-143.69	0.31
93	8/14/2021 15:14	8/14/2021 15:14	0:00:10	18.17	26.90	420.70	17.68	27.30	420.66	-143.11	0.89
94	8/14/2021 15:15	8/14/2021 15:16	0:00:50	13.20	30.81	420.43	10.69	32.69	420.39	-143.09	0.91
95	8/14/2021 15:17	8/14/2021 15:17	0:00:00	8.17	34.54	420.42	8.17	34.54	420.42	-143.79	0.21
96	8/14/2021 15:20	8/14/2021 15:20	0:00:10	0.03	40.32	420.97	-0.48	40.68	421.03	-143.84	0.16
97	8/14/2021 15:22	8/14/2021 15:23	0:00:40	-6.58	45.00	421.95	-8.61	46.47	422.34	-143.10	0.90
98	8/14/2021 20:29	8/14/2021 20:30	0:00:40	-43.09	94.25	433.32	-41.68	97.00	432.74	-143.23	0.77
99	8/14/2021 20:32	8/14/2021 20:32	0:00:10	-38.26	102.74	431.34	-37.86	103.34	431.18	-143.77	0.23
100	8/14/2021 20:32	8/14/2021 20:33	0:00:30	-36.23	105.67	430.52	-34.98	107.36	430.02	-143.44	0.56
101	8/14/2021 20:36	8/14/2021 20:36	0:00:20	-26.95	116.42	426.95	-26.02	117.33	426.62	-143.17	0.83
102	8/14/2021 20:40	8/14/2021 20:41	0:00:10	-13.87	127.66	422.85	-13.37	128.04	422.72	-143.76	0.24
103	8/14/2021 20:42	8/14/2021 20:42	0:00:00	-7.83	132.14	421.46	-7.83	132.14	421.46	-143.86	0.14
104	8/14/2021 20:45	8/14/2021 20:45	0:00:30	-0.20	137.56	420.27	1.33	138.64	420.11	-143.10	0.90
105	8/14/2021 22:09	8/14/2021 22:09	0:00:30	-26.70	93.06	426.85	-25.29	94.42	426.35	-143.21	0.79
106	8/14/2021 22:14	8/14/2021 22:14	0:00:00	-13.09	104.64	422.59	-13.09	104.64	422.59	-143.67	0.33
107	8/14/2021 22:18	8/14/2021 22:18	0:00:30	0.08	114.15	420.15	1.61	115.22	419.99	-143.17	0.83
108	8/14/2021 22:19	8/14/2021 22:19	0:00:00	3.14	116.30	419.85	3.14	116.30	419.85	-143.65	0.35
109	8/14/2021 22:21	8/14/2021 22:22	0:00:30	10.24	121.41	419.56	11.75	122.53	419.57	-143.62	0.38

**Max. Exceedance: 1.60 dB**

**Table 7 Berthed GN 6Mbps (4M98G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	8/13/2021 0:46	8/13/2021 0:46	0:00:00	-27.32	-67.76	427.91	-27.32	-67.76	427.91	-143.95	0.05
2	8/13/2021 0:48	8/13/2021 0:48	0:00:40	-30.97	-63.90	429.23	-32.74	-61.86	429.89	-143.27	0.73
3	8/13/2021 2:21	8/13/2021 2:21	0:00:20	-32.09	-86.23	429.69	-32.97	-85.19	430.02	-143.17	0.83
4	8/13/2021 3:32	8/13/2021 3:33	0:00:40	30.78	-161.92	422.56	28.96	-159.97	422.26	-143.36	0.64
5	8/13/2021 3:34	8/13/2021 3:35	0:01:00	27.12	-158.08	421.98	24.29	-155.37	421.59	-142.79	1.21
6	8/13/2021 3:36	8/13/2021 3:37	0:01:10	21.41	-152.80	421.26	18.00	-149.93	420.96	-142.39	1.61
7	8/13/2021 3:37	8/13/2021 3:38	0:00:10	16.52	-148.74	420.86	16.02	-148.34	420.83	-143.46	0.54
8	8/13/2021 3:40	8/13/2021 3:40	0:00:00	9.51	-143.41	420.69	9.51	-143.41	420.69	-143.78	0.22
9	8/13/2021 5:10	8/13/2021 5:11	0:00:10	16.24	-172.13	420.87	15.75	-171.74	420.85	-143.28	0.72
10	8/13/2021 5:13	8/13/2021 5:13	0:00:00	9.23	-166.82	420.72	9.23	-166.82	420.72	-143.58	0.42
11	8/13/2021 5:13	8/13/2021 5:13	0:00:10	7.71	-165.71	420.76	7.21	-165.35	420.78	-143.01	0.99
12	8/13/2021 8:53	8/13/2021 8:54	0:01:10	-42.97	-82.48	433.13	-40.45	-77.77	432.09	-143.02	0.98
13	8/13/2021 8:56	8/13/2021 8:57	0:00:40	-34.41	-68.88	429.63	-32.68	-66.75	428.95	-142.29	1.71
14	8/13/2021 8:59	8/13/2021 8:59	0:00:10	-28.19	-61.80	427.24	-27.72	-61.33	427.07	-143.55	0.45
15	8/13/2021 12:26	8/13/2021 12:26	0:00:10	34.44	-56.84	422.58	34.87	-56.29	422.67	-143.86	0.14
16	8/14/2021 0:02	8/14/2021 0:02	0:00:00	-32.84	-55.88	429.95	-32.84	-55.88	429.95	-143.74	0.26
17	8/14/2021 1:35	8/14/2021 1:35	0:00:00	-33.08	-79.20	430.11	-33.08	-79.20	430.11	-143.53	0.47
18	8/14/2021 1:36	8/14/2021 1:36	0:00:40	-35.22	-76.50	430.92	-36.88	-74.23	431.56	-142.98	1.02
19	8/14/2021 4:22	8/14/2021 4:22	0:00:00	21.99	-171.06	421.38	21.99	-171.06	421.38	-142.99	1.01
20	8/14/2021 4:23	8/14/2021 4:23	0:00:20	20.54	-169.80	421.23	19.57	-168.98	421.14	-142.53	1.47
21	8/14/2021 4:24	8/14/2021 4:25	0:01:00	16.12	-166.18	420.90	13.13	-163.86	420.78	-142.37	1.63
22	8/14/2021 4:26	8/14/2021 4:26	0:00:10	11.12	-162.36	420.75	10.62	-161.98	420.75	-143.15	0.85
23	8/14/2021 4:28	8/14/2021 4:28	0:00:00	4.03	-157.23	420.98	4.03	-157.23	420.98	-143.58	0.42
24	8/14/2021 8:05	8/14/2021 8:06	0:00:40	-44.55	-80.05	433.78	-43.23	-77.16	433.23	-142.78	1.22
25	8/14/2021 8:07	8/14/2021 8:09	0:01:40	-40.36	-71.76	432.04	-36.41	-65.68	430.42	-142.83	1.17
26	8/14/2021 8:12	8/14/2021 8:12	0:00:20	-29.90	-57.75	427.85	-28.99	-56.78	427.51	-142.55	1.45
27	8/14/2021 9:45	8/14/2021 9:45	0:00:40	-29.64	-81.08	427.73	-27.81	-79.17	427.05	-142.57	1.43
28	8/14/2021 9:47	8/14/2021 9:47	0:00:20	-24.06	-75.56	425.71	-23.11	-74.69	425.39	-143.48	0.52
29	8/14/2021 17:42	8/14/2021 17:43	0:00:30	9.40	-168.38	419.82	10.92	-167.26	419.82	-142.79	1.21
30	8/14/2021 17:44	8/14/2021 17:44	0:00:00	14.92	-164.22	419.94	14.92	-164.22	419.94	-143.75	0.25
31	8/14/2021 17:45	8/14/2021 17:45	0:00:00	16.41	-163.05	420.02	16.41	-163.05	420.02	-143.48	0.52

**Max. Exceedance: 1.71**

**dB**



**Table 8 Berthed GN 3Mbps (3M00G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	8/13/2021 0:44	8/13/2021 0:49	0:05:40	-20.18	-74.30	425.54	-35.73	-58.07	431.04	-140.26	3.74
2	8/13/2021 2:21	8/13/2021 2:22	0:01:30	-32.09	-86.23	429.69	-35.95	-81.37	431.15	-140.16	3.84
3	8/13/2021 2:24	8/13/2021 2:26	0:02:00	-39.56	-76.01	432.54	-43.87	-67.91	434.21	-141.12	2.88
4	8/13/2021 3:32	8/13/2021 3:39	0:07:00	32.99	-164.49	422.95	13.03	-146.03	420.71	-139.38	4.62
5	8/13/2021 3:39	8/13/2021 3:40	0:00:30	11.02	-144.53	420.68	9.51	-143.41	420.69	-140.77	3.23
6	8/13/2021 5:10	8/13/2021 5:12	0:01:10	16.24	-172.13	420.87	12.75	-169.43	420.74	-140.27	3.73
7	8/13/2021 5:12	8/13/2021 5:14	0:01:40	10.74	-167.93	420.71	5.68	-164.26	420.84	-140.00	4.00
8	8/13/2021 8:53	8/13/2021 9:00	0:07:00	-42.97	-82.48	433.13	-25.39	-59.04	426.23	-139.28	4.72
9	8/13/2021 12:22	8/13/2021 12:24	0:02:40	23.03	-68.90	420.58	30.49	-61.52	421.78	-141.75	2.25
10	8/13/2021 12:25	8/13/2021 12:26	0:01:10	31.83	-60.01	422.04	34.87	-56.29	422.67	-140.85	3.15
11	8/13/2021 18:30	8/13/2021 18:30	0:00:20	13.80	-170.94	419.93	14.80	-170.17	419.97	-143.39	0.61
12	8/13/2021 18:31	8/13/2021 18:31	0:00:30	16.29	-169.01	420.06	17.77	-167.82	420.16	-142.18	1.82
13	8/13/2021 18:32	8/13/2021 18:35	0:02:50	19.73	-166.20	420.34	27.84	-158.76	421.41	-141.79	2.21
14	8/13/2021 23:57	8/14/2021 0:02	0:04:40	-20.30	-68.34	425.60	-33.28	-55.35	430.11	-140.73	3.27
15	8/14/2021 1:33	8/14/2021 1:38	0:04:40	-28.15	-84.68	428.30	-40.04	-69.36	432.78	-139.97	4.03
16	8/14/2021 1:38	8/14/2021 1:39	0:00:30	-41.16	-67.42	433.21	-42.24	-65.40	433.63	-142.36	1.64
17	8/14/2021 1:39	8/14/2021 1:40	0:00:10	-43.62	-62.60	434.16	-43.95	-61.88	434.28	-142.51	1.49
18	8/14/2021 4:22	8/14/2021 4:27	0:05:10	22.96	-171.91	421.48	7.59	-159.77	420.80	-139.36	4.64
19	8/14/2021 4:28	8/14/2021 4:28	0:00:30	5.05	-157.95	420.92	3.52	-156.87	421.02	-140.57	3.43
20	8/14/2021 8:05	8/14/2021 8:12	0:06:30	-44.55	-80.05	433.78	-28.99	-56.78	427.51	-139.54	4.46
21	8/14/2021 9:43	8/14/2021 9:48	0:05:10	-34.49	-86.74	429.62	-20.21	-72.16	424.44	-139.56	4.44
22	8/14/2021 17:42	8/14/2021 17:47	0:04:40	9.40	-168.38	419.82	23.24	-157.30	420.69	-139.78	4.22

**Max. Exceedance: 4.72 dB**

**Table 9 Departure TRDS SSA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	6/29/2021 17:27	6/29/2021 17:28	0:00:10	-16.26	87.43	430.60	-15.77	87.82	430.45	-143.90	0.10
2	6/29/2021 17:30	6/29/2021 17:30	0:00:10	-8.76	93.10	428.46	-8.26	93.47	428.33	-143.83	0.17
3	6/29/2021 17:38	6/29/2021 17:38	0:00:00	14.52	109.88	425.01	14.52	109.88	425.01	-144.00	0.00
4	6/29/2021 17:38	6/29/2021 17:38	0:00:00	17.00	111.83	424.94	17.00	111.83	424.94	-143.99	0.01
5	6/29/2021 17:39	6/29/2021 17:40	0:00:40	18.47	113.03	424.92	20.43	114.66	424.92	-143.89	0.11
6	6/29/2021 17:40	6/29/2021 17:41	0:00:30	21.88	115.91	424.95	23.32	117.19	424.98	-143.82	0.18
7	6/29/2021 17:42	6/29/2021 17:42	0:00:10	26.63	120.31	425.12	27.10	120.77	425.15	-143.80	0.20
8	6/29/2021 17:46	6/29/2021 17:46	0:00:30	37.19	132.72	425.96	38.40	134.51	426.08	-143.39	0.61
9	6/29/2021 17:54	6/29/2021 17:57	0:03:40	50.83	169.07	427.04	51.55	-169.19	426.42	-142.76	1.24
10	6/29/2021 17:59	6/29/2021 18:00	0:00:50	50.43	-159.52	425.85	49.55	-154.90	425.51	-143.10	0.90
11	6/29/2021 18:00	6/29/2021 18:01	0:00:50	48.93	-152.22	425.29	47.76	-147.92	424.89	-142.42	1.58
12	6/29/2021 18:03	6/29/2021 18:03	0:00:40	45.22	-140.70	424.11	43.94	-137.73	423.75	-143.69	0.31
13	6/29/2021 18:06	6/29/2021 18:06	0:00:10	38.46	-127.72	422.32	38.06	-127.12	422.23	-143.77	0.23
14	6/29/2021 18:27	6/29/2021 18:27	0:00:20	-23.10	-74.80	427.63	-24.06	-73.93	428.04	-143.23	0.77
15	6/29/2021 18:30	6/29/2021 18:30	0:00:10	-31.88	-65.92	431.65	-32.32	-65.40	431.86	-143.69	0.31
16	6/29/2021 18:34	6/29/2021 18:34	0:00:10	-41.62	-51.88	436.60	-41.97	-51.21	436.79	-143.61	0.39
17	6/29/2021 18:40	6/29/2021 18:42	0:01:40	-50.99	-21.47	441.90	-51.75	-11.68	442.56	-143.23	0.77
18	6/29/2021 18:42	6/29/2021 18:43	0:00:40	-51.80	-8.70	442.69	-51.74	-4.72	442.80	-143.12	0.88
19	6/29/2021 18:46	6/29/2021 18:47	0:00:50	-49.90	11.61	442.60	-48.90	16.09	442.34	-143.12	0.88
20	6/29/2021 18:52	6/29/2021 18:53	0:00:20	-38.47	40.44	438.72	-37.67	41.64	438.42	-143.35	0.65
21	6/29/2021 19:01	6/29/2021 19:01	0:00:00	-15.67	64.28	430.45	-15.67	64.28	430.45	-143.91	0.09
22	6/29/2021 19:03	6/29/2021 19:03	0:00:20	-8.66	69.55	428.46	-7.65	70.28	428.20	-143.78	0.22
23	6/29/2021 19:12	6/29/2021 19:12	0:00:30	18.57	89.48	424.95	20.04	90.71	424.95	-143.93	0.07
24	6/29/2021 19:13	6/29/2021 19:14	0:00:10	22.94	93.23	425.01	23.42	93.66	425.02	-143.81	0.19
25	6/29/2021 19:15	6/29/2021 19:15	0:00:10	26.73	96.78	425.17	27.19	97.24	425.20	-143.85	0.15
26	6/29/2021 19:19	6/29/2021 19:19	0:00:30	37.28	109.21	426.03	38.48	111.01	426.15	-143.45	0.55
27	6/29/2021 19:29	6/29/2021 19:30	0:01:30	51.79	158.42	426.89	51.53	167.39	426.53	-143.15	0.85
28	6/29/2021 19:32	6/29/2021 19:33	0:01:00	50.39	177.04	425.97	49.31	-177.45	425.55	-143.18	0.82
29	6/29/2021 19:33	6/29/2021 19:34	0:00:50	48.67	-174.80	425.32	47.45	-170.54	424.92	-142.31	1.69
30	6/29/2021 19:36	6/29/2021 19:36	0:00:40	45.16	-164.18	424.22	43.87	-161.21	423.85	-143.75	0.25
31	6/29/2021 19:39	6/29/2021 19:39	0:00:10	38.38	-151.23	422.43	37.98	-150.62	422.34	-143.74	0.26
32	6/29/2021 20:00	6/29/2021 20:00	0:00:20	-22.72	-98.77	427.47	-23.67	-97.91	427.88	-143.31	0.69
33	6/29/2021 20:07	6/29/2021 20:07	0:00:10	-41.69	-75.37	436.61	-42.04	-74.70	436.80	-143.68	0.32
34	6/29/2021 20:13	6/29/2021 20:15	0:01:40	-51.02	-44.90	441.85	-51.75	-35.11	442.50	-143.24	0.76
35	6/29/2021 20:15	6/29/2021 20:16	0:00:50	-51.80	-32.13	442.62	-51.69	-27.16	442.75	-142.96	1.04
36	6/29/2021 20:19	6/29/2021 20:20	0:01:00	-49.86	-11.83	442.51	-48.64	-6.50	442.18	-143.11	0.89
37	6/29/2021 20:25	6/29/2021 20:26	0:00:20	-38.39	16.94	438.60	-37.59	18.13	438.30	-143.35	0.65
38	6/29/2021 20:34	6/29/2021 20:34	0:00:00	-15.57	40.73	430.35	-15.57	40.73	430.35	-143.96	0.04
39	6/29/2021 20:36	6/29/2021 20:36	0:00:10	-8.05	46.37	428.25	-7.55	46.73	428.13	-143.77	0.23
40	6/29/2021 20:45	6/29/2021 20:45	0:00:20	19.16	66.35	424.93	20.14	67.16	424.94	-143.98	0.02
41	6/29/2021 20:46	6/29/2021 20:47	0:00:10	23.04	69.69	425.00	23.51	70.12	425.02	-143.90	0.10
42	6/29/2021 20:48	6/29/2021 20:48	0:00:10	26.82	73.24	425.17	27.28	73.70	425.20	-143.89	0.11
43	6/29/2021 20:52	6/29/2021 20:52	0:00:00	36.95	85.12	426.00	36.95	85.12	426.00	-142.99	1.01
44	6/29/2021 20:53	6/29/2021 20:53	0:00:10	40.49	90.65	426.37	40.86	91.30	426.41	-143.68	0.32
45	6/29/2021 20:54	6/29/2021 20:55	0:00:40	43.35	96.09	426.67	44.67	99.00	426.80	-141.00	3.00
46	6/29/2021 20:56	6/29/2021 20:57	0:01:00	47.03	105.25	427.02	48.54	110.30	427.12	-142.13	1.87
47	6/29/2021 20:58	6/29/2021 20:59	0:00:50	49.40	113.83	427.17	50.30	118.41	427.19	-143.62	0.38
48	6/29/2021 21:02	6/29/2021 21:02	0:00:10	51.80	136.00	426.89	51.79	137.00	426.85	-143.82	0.18
49	6/29/2021 21:11	6/29/2021 21:11	0:00:00	40.60	-178.46	425.01	40.60	-178.46	425.01	-144.00	0.00
50	6/29/2021 21:14	6/29/2021 21:15	0:00:50	31.93	-166.31	426.34	29.69	-163.81	426.93	-143.69	0.31
51	6/29/2021 21:41	6/29/2021 21:41	0:00:20	-43.20	-96.07	490.72	-43.86	-94.66	491.55	-142.59	1.41
52	6/29/2021 21:43	6/29/2021 21:43	0:00:30	-46.85	-87.12	495.38	-47.63	-84.70	496.42	-143.42	0.58
53	6/30/2021 0:16	6/30/2021 0:16	0:00:10	47.81	116.80	504.29	47.55	117.62	504.21	-143.38	0.62
54	6/30/2021 0:58	6/30/2021 0:58	0:00:00	-51.71	-99.22	505.37	-51.71	-99.22	505.37	-143.94	0.06
55	6/30/2021 1:50	6/30/2021 1:50	0:00:10	47.69	93.20	504.26	47.44	94.01	504.17	-143.16	0.84
56	6/30/2021 2:33	6/30/2021 2:33	0:00:00	-51.69	-122.75	505.28	-51.69	-122.75	505.28	-143.98	0.02
57	6/30/2021 3:25	6/30/2021 3:25	0:00:10	47.58	69.59	504.31	47.32	70.41	504.22	-143.04	0.96
58	6/30/2021 4:59	6/30/2021 4:59	0:00:10	47.46	45.98	504.33	47.20	46.79	504.24	-143.20	0.80
59	6/30/2021 6:34	6/30/2021 6:34	0:00:10	47.34	22.36	504.24	47.08	23.17	504.15	-143.57	0.43
60	6/30/2021 7:26	6/30/2021 7:26	0:00:00	-36.52	-147.96	501.17	-36.52	-147.96	501.17	-143.90	0.10

**Table 9 Departure TRDS SSA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
61	6/30/2021 8:08	6/30/2021 8:08	0:00:00	46.96	-0.46	503.95	46.96	-0.46	503.95	-143.99	0.01
62	6/30/2021 9:01	6/30/2021 9:01	0:00:00	-36.33	-171.68	501.10	-36.33	-171.68	501.10	-143.64	0.36
63	6/30/2021 9:39	6/30/2021 9:39	0:00:00	51.40	-46.31	505.56	51.40	-46.31	505.56	-143.89	0.11
64	6/30/2021 10:35	6/30/2021 10:35	0:00:00	-36.15	164.59	500.98	-36.15	164.59	500.98	-143.51	0.49
65	6/30/2021 12:10	6/30/2021 12:10	0:00:10	-35.96	140.87	500.82	-35.55	141.42	500.70	-143.52	0.48
66	6/30/2021 13:44	6/30/2021 13:44	0:00:10	-35.77	117.14	500.70	-35.36	117.69	500.59	-143.59	0.41
67	6/30/2021 14:19	6/30/2021 14:19	0:00:00	51.68	-132.52	505.80	51.68	-132.52	505.80	-143.95	0.05
68	6/30/2021 14:22	6/30/2021 14:22	0:00:10	51.37	-117.88	505.62	51.28	-116.92	505.58	-143.54	0.46
69	6/30/2021 14:24	6/30/2021 14:24	0:00:10	49.34	-104.93	504.90	49.14	-104.05	504.83	-143.91	0.09
70	6/30/2021 14:48	6/30/2021 14:48	0:00:00	-12.59	-34.45	494.74	-12.59	-34.45	494.74	-143.56	0.44
71	6/30/2021 15:19	6/30/2021 15:19	0:00:10	-35.59	93.41	500.67	-35.17	93.96	500.56	-143.64	0.36
72	6/30/2021 16:53	6/30/2021 16:53	0:00:10	-35.40	69.68	500.60	-34.98	70.22	500.48	-143.86	0.14
73	6/30/2021 17:31	6/30/2021 17:31	0:00:10	51.28	-164.96	505.43	51.18	-164.01	505.39	-143.36	0.64
74	6/30/2021 17:33	6/30/2021 17:33	0:00:10	49.16	-152.08	504.70	48.95	-151.21	504.63	-143.69	0.31
75	6/30/2021 19:03	6/30/2021 19:03	0:00:10	51.73	156.80	505.81	51.76	157.78	505.81	-143.96	0.04
76	6/30/2021 19:05	6/30/2021 19:06	0:00:10	51.24	171.42	505.60	51.14	172.38	505.57	-143.44	0.56
77	6/30/2021 19:08	6/30/2021 19:08	0:00:10	49.08	-175.73	504.87	48.86	-174.87	504.80	-143.74	0.26
78	6/30/2021 20:37	6/30/2021 20:38	0:00:10	51.74	133.25	505.83	51.77	134.23	505.84	-143.95	0.05
79	6/30/2021 20:40	6/30/2021 20:40	0:00:10	51.20	147.86	505.62	51.09	148.81	505.59	-143.55	0.45
80	6/30/2021 20:42	6/30/2021 20:42	0:00:00	48.98	160.67	504.89	48.98	160.67	504.89	-143.79	0.21
81	6/30/2021 22:12	6/30/2021 22:12	0:00:10	51.76	109.71	505.83	51.78	110.69	505.84	-143.94	0.06
82	6/30/2021 22:14	6/30/2021 22:15	0:00:10	51.15	124.31	505.62	51.04	125.26	505.58	-143.66	0.34
83	6/30/2021 22:17	6/30/2021 22:17	0:00:00	48.89	137.07	504.88	48.89	137.07	504.88	-143.82	0.18
84	6/30/2021 23:49	6/30/2021 23:49	0:00:10	51.11	100.74	505.64	50.99	101.69	505.61	-143.76	0.24
85	6/30/2021 23:51	6/30/2021 23:51	0:00:00	48.79	113.46	504.90	48.79	113.46	504.90	-143.82	0.18
86	7/1/2021 1:23	7/1/2021 1:24	0:00:10	51.06	77.18	505.63	50.94	78.12	505.59	-143.79	0.21
87	7/1/2021 1:26	7/1/2021 1:26	0:00:00	48.70	89.87	504.87	48.70	89.87	504.87	-143.77	0.23
88	7/1/2021 2:55	7/1/2021 2:56	0:00:10	51.78	39.07	505.95	51.79	40.05	505.96	-143.92	0.08
89	7/1/2021 2:58	7/1/2021 2:58	0:00:10	51.01	53.62	505.70	50.89	54.57	505.66	-143.75	0.25
90	7/1/2021 3:00	7/1/2021 3:00	0:00:00	48.60	66.27	504.92	48.60	66.27	504.92	-143.69	0.31
91	7/1/2021 4:30	7/1/2021 4:30	0:00:10	51.79	15.52	506.02	51.79	16.50	506.02	-143.93	0.07
92	7/1/2021 4:32	7/1/2021 4:33	0:00:10	50.95	30.06	505.74	50.83	31.00	505.70	-143.72	0.28
93	7/1/2021 6:07	7/1/2021 6:07	0:00:00	50.90	6.49	505.70	50.90	6.49	505.70	-143.73	0.27
94	7/1/2021 6:09	7/1/2021 6:09	0:00:00	48.39	19.05	504.88	48.39	19.05	504.88	-143.59	0.41
95	7/1/2021 7:41	7/1/2021 7:41	0:00:00	50.84	-17.09	505.53	50.84	-17.09	505.53	-143.76	0.24
96	7/1/2021 7:44	7/1/2021 7:44	0:00:10	48.29	-4.57	504.68	48.05	-3.73	504.60	-143.67	0.33
97	7/1/2021 9:18	7/1/2021 9:18	0:00:10	48.19	-28.18	504.66	47.95	-27.35	504.58	-143.82	0.18
98	7/1/2021 13:42	7/1/2021 13:42	0:00:10	26.45	169.49	498.28	26.90	169.94	498.40	-143.93	0.07
99	7/1/2021 14:30	7/1/2021 14:30	0:00:00	-28.59	-20.34	498.47	-28.59	-20.34	498.47	-143.59	0.41
100	7/1/2021 14:57	7/1/2021 14:57	0:00:00	-30.17	100.17	498.91	-30.17	100.17	498.91	-143.99	0.01
101	7/1/2021 15:31	7/1/2021 15:32	0:00:10	51.78	-149.31	505.77	51.76	-148.33	505.76	-143.89	0.11
103	7/1/2021 15:34	7/1/2021 15:34	0:00:00	50.54	-134.91	505.39	50.54	-134.91	505.39	-143.78	0.22
104	7/1/2021 15:57	7/1/2021 15:57	0:00:00	-8.16	-61.44	494.81	-8.16	-61.44	494.81	-143.72	0.28
105	7/1/2021 16:31	7/1/2021 16:32	0:00:50	-31.76	74.40	456.85	-29.54	76.87	452.62	-143.11	0.89
106	7/1/2021 16:33	7/1/2021 16:33	0:00:00	-27.26	79.22	448.32	-27.26	79.22	448.32	-143.94	0.06
107	7/1/2021 16:42	7/1/2021 16:42	0:00:20	-0.04	100.78	401.75	0.99	101.50	400.24	-143.91	0.09
108	7/1/2021 16:43	7/1/2021 16:43	0:00:10	3.55	103.31	396.57	4.07	103.68	395.86	-143.74	0.26
109	7/1/2021 16:44	7/1/2021 16:45	0:01:00	6.11	105.14	393.05	9.18	107.36	389.05	-141.52	2.48
110	7/1/2021 16:45	7/1/2021 16:55	0:10:10	10.71	108.48	387.13	39.32	137.47	363.32	-143.24	0.76
111	7/1/2021 16:58	7/1/2021 17:09	0:10:40	45.06	148.71	361.84	49.01	-150.97	363.49	-141.72	2.28
112	7/1/2021 17:09	7/1/2021 17:16	0:06:30	48.32	-148.32	363.49	34.67	-120.82	362.38	-141.84	2.16
113	7/1/2021 17:17	7/1/2021 17:19	0:02:40	32.48	-118.11	362.16	25.06	-110.32	361.50	-142.42	1.58
114	7/1/2021 17:24	7/1/2021 17:24	0:00:00	10.13	-98.07	361.08	10.13	-98.07	361.08	-143.80	0.20
115	7/1/2021 17:25	7/1/2021 17:25	0:00:10	8.08	-96.58	361.15	7.57	-96.21	361.18	-143.64	0.36
116	7/1/2021 17:26	7/1/2021 17:26	0:00:40	6.02	-95.10	361.26	3.97	-93.63	361.40	-143.55	0.45
117	7/1/2021 17:27	7/1/2021 17:27	0:00:10	2.42	-92.53	361.52	1.90	-92.17	361.57	-143.76	0.24
118	7/1/2021 17:28	7/1/2021 17:29	0:01:20	-1.71	-89.62	361.96	-5.83	-86.70	362.54	-143.51	0.49
119	7/1/2021 17:45	7/1/2021 17:52	0:07:00	-47.16	-37.21	372.65	-51.36	3.04	371.76	-141.99	2.01
120	7/1/2021 17:53	7/1/2021 17:54	0:01:00	-50.80	7.94	371.25	-49.84	13.62	370.52	-142.88	1.12
121	7/1/2021 17:56	7/1/2021 17:58	0:02:30	-47.60	22.50	369.08	-43.00	34.18	366.44	-142.11	1.89

**Table 9 Departure TRDS SSA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
122	7/1/2021 17:59	7/1/2021 18:01	0:02:10	-40.83	38.31	365.27	-35.60	46.31	362.59	-141.99	2.01
123	7/1/2021 18:02	7/1/2021 18:02	0:00:30	-33.87	48.54	361.75	-32.55	50.15	361.12	-143.30	0.70
124	7/1/2021 18:06	7/1/2021 18:06	0:00:40	-23.68	59.30	357.25	-21.73	61.04	356.50	-142.78	1.22
125	7/1/2021 18:07	7/1/2021 18:08	0:00:50	-19.76	62.73	355.78	-17.27	64.78	354.92	-142.86	1.14
126	7/1/2021 18:09	7/1/2021 18:12	0:03:30	-14.75	66.77	354.13	-3.99	74.70	351.63	-143.00	1.00
127	7/1/2021 18:13	7/1/2021 18:18	0:04:50	-0.89	76.89	351.19	14.03	87.71	350.90	-141.50	2.50
128	7/1/2021 18:21	7/1/2021 18:27	0:06:40	22.51	94.68	352.04	40.32	115.85	356.97	-141.03	2.97
129	7/1/2021 18:28	7/1/2021 18:38	0:10:00	41.45	117.86	357.38	51.31	171.93	363.27	-141.01	2.99
130	7/1/2021 18:38	7/1/2021 18:40	0:01:30	50.98	174.88	363.38	49.54	-176.58	363.57	-140.99	3.01
131	7/1/2021 18:41	7/1/2021 18:47	0:06:30	48.22	-171.22	363.60	34.48	-143.86	362.47	-141.53	2.47
132	7/1/2021 18:48	7/1/2021 18:50	0:02:00	31.83	-140.64	362.20	26.28	-134.77	361.70	-142.47	1.53
133	7/1/2021 18:51	7/1/2021 18:51	0:00:20	24.85	-133.41	361.59	23.89	-132.51	361.52	-143.84	0.16
134	7/1/2021 18:56	7/1/2021 18:56	0:00:10	10.41	-121.57	361.16	9.90	-121.20	361.17	-143.68	0.32
135	7/1/2021 18:56	7/1/2021 18:57	0:00:20	8.37	-120.07	361.22	7.34	-119.33	361.26	-143.55	0.45
136	7/1/2021 18:57	7/1/2021 18:58	0:00:40	5.80	-118.22	361.35	3.74	-116.76	361.49	-143.47	0.53
137	7/1/2021 18:58	7/1/2021 18:59	0:00:10	2.19	-115.66	361.62	1.68	-115.30	361.66	-143.78	0.22
138	7/1/2021 19:00	7/1/2021 19:01	0:01:10	-1.94	-112.75	362.06	-5.54	-110.19	362.56	-143.38	0.62
139	7/1/2021 19:02	7/1/2021 19:09	0:06:50	-9.65	-107.22	363.25	-29.76	-89.90	368.15	-141.63	2.37
140	7/1/2021 19:12	7/1/2021 19:12	0:00:00	-37.19	-80.69	370.24	-37.19	-80.69	370.24	-143.92	0.08
141	7/1/2021 19:13	7/1/2021 19:13	0:00:10	-39.21	-77.63	370.78	-39.60	-77.00	370.89	-143.51	0.49
142	7/1/2021 19:15	7/1/2021 19:24	0:09:10	-43.28	-70.22	371.82	-51.32	-19.81	371.67	-141.90	2.10
143	7/1/2021 19:25	7/1/2021 19:26	0:01:00	-50.74	-14.93	371.15	-49.76	-9.26	370.41	-142.83	1.17
144	7/1/2021 19:27	7/1/2021 19:30	0:02:40	-47.75	-1.27	369.11	-42.85	11.21	366.29	-142.17	1.83
145	7/1/2021 19:31	7/1/2021 19:33	0:02:10	-40.66	15.31	365.11	-35.41	23.27	362.42	-142.06	1.94
146	7/1/2021 19:34	7/1/2021 19:37	0:03:10	-33.68	25.49	361.58	-24.92	34.87	357.67	-141.13	2.87
147	7/1/2021 19:37	7/1/2021 19:38	0:00:30	-22.98	36.65	356.90	-21.52	37.95	356.34	-142.63	1.37
148	7/1/2021 19:39	7/1/2021 19:39	0:00:40	-19.05	40.04	355.45	-17.05	41.67	354.78	-143.39	0.61
149	7/1/2021 19:40	7/1/2021 19:45	0:04:50	-14.53	43.66	353.99	0.37	54.50	350.99	-142.10	1.90
150	7/1/2021 19:48	7/1/2021 20:07	0:19:10	9.15	60.76	350.62	51.70	133.78	350.94	-142.93	1.07
151	7/1/2021 20:10	7/1/2021 20:12	0:01:50	51.08	150.84	343.56	49.29	161.25	337.01	-140.29	3.71
152	7/1/2021 20:12	7/1/2021 20:44	0:31:30	48.40	164.83	334.31	-40.11	-99.24	198.31	-136.28	7.72
153	7/1/2021 20:47	7/1/2021 21:08	0:21:00	-45.88	-87.20	198.96	-22.15	14.53	264.26	-137.05	6.95
154	7/1/2021 21:10	7/1/2021 21:14	0:03:30	-14.02	21.20	277.25	-3.10	29.20	294.70	-140.78	3.22
155	7/1/2021 21:14	7/1/2021 21:29	0:14:30	-1.01	30.68	298.01	40.63	70.26	351.98	-140.94	3.06
156	7/1/2021 21:29	7/1/2021 21:42	0:12:10	41.74	72.27	352.72	49.23	138.69	336.79	-140.30	3.70
157	7/1/2021 21:42	7/1/2021 21:44	0:01:50	48.08	143.12	333.39	44.95	152.11	325.08	-141.11	2.89
158	7/1/2021 21:47	7/1/2021 22:17	0:29:30	38.77	163.96	310.30	-46.28	-108.96	199.08	-136.56	7.44
159	7/1/2021 22:19	7/1/2021 22:50	0:30:20	-50.18	-94.31	202.05	15.68	20.03	322.85	-136.87	7.13
160	7/1/2021 22:52	7/1/2021 22:59	0:06:30	23.62	26.71	333.74	40.75	47.63	351.69	-141.05	2.95
161	7/1/2021 22:59	7/1/2021 23:11	0:12:10	41.86	49.65	352.43	49.16	116.15	336.52	-140.41	3.59
162	7/1/2021 23:12	7/1/2021 23:34	0:21:30	48.00	120.56	333.13	-11.90	-174.42	217.95	-139.05	4.95
163	7/1/2021 23:44	7/2/2021 0:27	0:43:30	-41.15	-143.11	198.26	38.15	20.56	349.29	-136.75	7.25
164	7/2/2021 0:30	7/2/2021 1:08	0:37:30	44.40	32.06	353.48	-25.68	174.34	109.61	-132.08	11.92

**Max. Exceedance: 11.92 dB**



**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	6/29/2021 17:22	6/29/2021 17:24	0:01:39	-31.81	72.89	436.13	-27.31	77.70	434.43	-142.72	1.28
2	6/29/2021 17:26	6/29/2021 17:27	0:00:20	-19.21	85.04	431.56	-18.23	85.85	431.23	-142.14	1.86
3	6/29/2021 17:27	6/29/2021 17:28	0:01:10	-16.76	87.04	430.76	-13.28	89.75	429.70	-141.79	2.21
4	6/29/2021 17:29	6/29/2021 17:31	0:02:00	-10.78	91.62	428.99	-4.71	96.01	427.50	-141.72	2.28
5	6/29/2021 17:32	6/29/2021 17:36	0:04:00	-3.19	97.09	427.17	9.00	105.75	425.37	-142.23	1.77
6	6/29/2021 17:36	6/29/2021 18:04	0:27:50	10.51	106.86	425.24	42.22	-134.19	423.28	-140.31	3.69
7	6/29/2021 18:05	6/29/2021 18:09	0:04:00	40.01	-130.22	422.70	29.91	-116.80	420.58	-141.66	2.34
8	6/29/2021 18:22	6/29/2021 18:29	0:07:00	-8.26	-86.58	422.34	-28.73	-69.37	430.14	-141.12	2.88
9	6/29/2021 18:29	6/29/2021 18:31	0:01:40	-30.09	-67.92	430.79	-34.48	-62.75	432.93	-141.58	2.42
10	6/29/2021 18:32	6/29/2021 18:45	0:13:00	-35.75	-61.09	433.57	-51.07	4.10	442.83	-141.01	2.99
11	6/29/2021 18:45	6/29/2021 18:50	0:05:20	-50.69	6.96	442.77	-42.57	33.32	440.24	-141.01	2.99
12	6/29/2021 18:51	6/29/2021 18:57	0:05:40	-41.50	35.35	439.85	-27.22	54.17	434.44	-141.24	2.76
13	6/29/2021 18:59	6/29/2021 19:00	0:00:20	-19.11	61.50	431.56	-18.13	62.31	431.24	-142.18	1.82
14	6/29/2021 19:00	6/29/2021 19:01	0:01:00	-16.16	63.89	430.61	-13.18	66.20	429.70	-141.80	2.20
15	6/29/2021 19:02	6/29/2021 19:04	0:01:40	-10.17	68.45	428.86	-5.12	72.10	427.61	-141.67	2.33
16	6/29/2021 19:05	6/29/2021 19:26	0:20:50	-2.58	73.90	427.07	50.10	140.92	427.16	-141.34	2.66
17	6/29/2021 19:29	6/29/2021 19:37	0:08:40	51.77	157.42	426.92	41.79	-157.00	423.29	-140.20	3.80
18	6/29/2021 19:38	6/29/2021 19:42	0:03:40	39.55	-153.09	422.72	30.27	-140.82	420.76	-141.63	2.37
19	6/29/2021 19:53	6/29/2021 20:01	0:07:50	-2.77	-114.13	421.05	-26.04	-95.69	428.91	-141.20	2.80
20	6/29/2021 20:04	6/29/2021 20:04	0:00:20	-33.71	-87.35	432.53	-34.57	-86.27	432.96	-142.35	1.65
21	6/29/2021 20:05	6/29/2021 20:29	0:24:10	-35.83	-84.61	433.59	-29.42	28.28	435.18	-140.85	3.15
22	6/29/2021 20:29	6/29/2021 20:30	0:01:00	-28.05	29.70	434.67	-25.26	32.45	433.64	-143.44	0.56
23	6/29/2021 20:31	6/29/2021 20:33	0:01:20	-21.92	35.48	432.45	-18.03	38.76	431.14	-142.20	1.80
24	6/29/2021 20:33	6/29/2021 20:34	0:01:00	-16.06	40.34	430.51	-13.08	42.65	429.61	-141.85	2.15
25	6/29/2021 20:36	6/29/2021 20:37	0:01:30	-9.57	45.27	428.64	-5.02	48.55	427.54	-141.66	2.34
26	6/29/2021 20:38	6/29/2021 20:40	0:02:30	-2.48	50.35	427.00	5.15	55.73	425.77	-142.20	1.80
27	6/29/2021 20:43	6/29/2021 21:05	0:21:30	13.72	62.02	425.05	50.52	152.67	426.09	-138.89	5.11
28	6/29/2021 21:08	6/29/2021 21:18	0:10:40	46.85	167.66	425.21	20.73	-155.28	430.29	-141.58	2.42
29	6/29/2021 21:27	6/29/2021 21:35	0:08:00	-5.38	-135.91	448.51	-28.70	-116.67	473.25	-141.98	2.02
30	6/29/2021 21:36	6/29/2021 21:40	0:04:20	-30.49	-114.75	475.35	-41.10	-100.10	488.12	-142.31	1.69
31	6/29/2021 21:41	6/29/2021 21:42	0:01:00	-42.52	-97.44	489.88	-44.50	-93.22	492.36	-140.48	3.52
32	6/29/2021 21:42	6/29/2021 21:44	0:01:30	-46.01	-89.47	494.29	-48.36	-82.21	497.40	-141.31	2.69
33	6/29/2021 21:44	6/29/2021 21:46	0:02:00	-49.02	-79.64	498.33	-51.00	-68.73	501.44	-142.87	1.13
34	6/29/2021 21:48	6/29/2021 21:49	0:01:00	-51.71	-60.08	503.11	-51.79	-54.21	503.90	-143.04	0.96
35	6/29/2021 21:52	6/29/2021 21:56	0:04:20	-50.31	-37.97	504.73	-43.86	-16.71	503.09	-143.96	0.04
36	6/29/2021 21:57	6/29/2021 22:00	0:02:30	-41.46	-11.92	502.34	-35.66	-2.88	500.56	-143.32	0.68
37	6/29/2021 22:01	6/29/2021 22:05	0:03:30	-31.85	1.86	499.46	-22.26	11.44	497.03	-142.91	1.09
38	6/29/2021 22:06	6/29/2021 22:06	0:00:20	-19.39	13.90	496.43	-18.43	14.69	496.24	-143.86	0.14
39	6/29/2021 22:07	6/29/2021 22:08	0:00:30	-15.51	17.02	495.73	-14.04	18.16	495.50	-143.12	0.88
40	6/29/2021 22:09	6/29/2021 22:10	0:01:10	-9.10	21.85	494.89	-5.61	24.36	494.61	-142.91	1.09
41	6/29/2021 22:12	6/29/2021 22:12	0:00:10	-1.10	27.54	494.44	-0.60	27.90	494.44	-143.95	0.05
42	6/29/2021 22:13	6/29/2021 22:13	0:00:10	1.90	29.66	494.45	2.41	30.01	494.47	-143.42	0.58
43	6/29/2021 22:14	6/29/2021 22:15	0:00:30	5.41	32.14	494.59	6.91	33.21	494.69	-143.27	0.73
44	6/29/2021 22:17	6/29/2021 22:22	0:05:20	13.35	37.95	495.39	28.56	51.20	498.54	-143.19	0.81
45	6/29/2021 22:23	6/29/2021 22:24	0:00:40	31.67	54.58	499.38	33.40	56.62	499.88	-143.63	0.37
46	6/29/2021 22:27	6/29/2021 22:28	0:01:00	40.22	66.37	501.93	42.38	70.29	502.60	-143.38	0.62
47	6/29/2021 22:29	6/29/2021 22:29	0:00:30	44.06	73.78	503.12	45.00	75.97	503.42	-143.66	0.34
48	6/29/2021 22:30	6/29/2021 22:30	0:00:20	45.90	78.23	503.70	46.47	79.78	503.88	-143.73	0.27
49	6/29/2021 22:32	6/29/2021 22:33	0:00:40	49.35	89.78	504.78	50.09	93.36	505.00	-143.84	0.16
50	6/29/2021 22:33	6/29/2021 22:39	0:05:40	50.70	97.04	505.19	50.36	129.76	505.06	-142.04	1.96
51	6/29/2021 22:39	6/29/2021 22:52	0:12:32	49.86	132.49	504.90	22.32	179.40	496.59	-143.84	0.16
52	6/29/2021 23:06	6/29/2021 23:08	0:02:00	-18.18	-150.24	495.58	-23.90	-145.32	496.80	-142.70	1.30
53	6/29/2021 23:08	6/29/2021 23:10	0:01:20	-25.30	-144.02	497.14	-28.96	-140.38	498.10	-142.89	1.11
54	6/29/2021 23:10	6/29/2021 23:12	0:01:30	-30.75	-138.45	498.59	-34.62	-133.83	499.73	-142.64	1.36
55	6/29/2021 23:14	6/29/2021 23:16	0:02:20	-39.43	-126.93	501.24	-44.34	-117.57	502.84	-142.75	1.25
56	6/29/2021 23:17	6/29/2021 23:17	0:00:10	-45.58	-114.60	503.25	-45.87	-113.84	503.35	-143.58	0.42
57	6/29/2021 23:20	6/29/2021 23:25	0:05:00	-49.72	-100.53	504.65	-51.51	-71.79	505.38	-141.93	2.07
58	6/29/2021 23:26	6/29/2021 23:29	0:02:10	-50.22	-61.40	505.05	-47.48	-50.14	504.27	-142.12	1.88
59	6/29/2021 23:30	6/29/2021 23:31	0:00:50	-45.54	-44.64	503.70	-43.98	-40.96	503.23	-143.19	0.81
60	6/29/2021 23:44	6/29/2021 23:45	0:01:10	-9.29	-2.27	495.37	-5.80	0.24	495.10	-142.94	1.06

**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
61	6/29/2021 23:46	6/29/2021 23:47	0:00:10	-1.29	3.43	494.95	-0.79	3.78	494.94	-143.95	0.05
62	6/29/2021 23:47	6/29/2021 23:48	0:00:10	1.71	5.54	494.97	2.21	5.89	494.98	-143.36	0.64
63	6/29/2021 23:49	6/29/2021 23:49	0:00:30	5.72	8.37	495.14	7.21	9.44	495.25	-143.05	0.95
64	6/29/2021 23:51	6/29/2021 23:57	0:05:20	13.66	14.20	495.97	28.84	27.50	499.13	-143.25	0.75
65	6/29/2021 23:58	6/30/2021 0:02	0:04:20	31.94	30.90	499.97	42.24	46.05	502.99	-142.87	1.13
66	6/30/2021 0:03	6/30/2021 0:04	0:00:40	43.93	49.51	503.50	45.19	52.43	503.88	-143.65	0.35
67	6/30/2021 0:04	6/30/2021 0:05	0:00:20	46.07	54.71	504.15	46.64	56.27	504.31	-143.72	0.28
68	6/30/2021 0:09	6/30/2021 0:12	0:03:30	51.33	78.37	505.65	51.29	98.82	505.51	-142.14	1.86
69	6/30/2021 0:13	6/30/2021 0:16	0:03:00	50.71	103.55	505.30	47.03	119.24	504.03	-141.27	2.73
70	6/30/2021 0:17	6/30/2021 0:19	0:01:20	45.03	124.64	503.35	42.41	130.32	502.47	-143.29	0.71
71	6/30/2021 0:20	6/30/2021 0:21	0:00:40	38.34	137.31	501.14	36.76	139.64	500.63	-143.00	1.00
72	6/30/2021 0:54	6/30/2021 0:58	0:04:50	-49.22	-126.76	504.44	-51.71	-99.22	505.37	-141.83	2.17
73	6/30/2021 1:31	6/30/2021 1:31	0:00:20	27.68	2.33	498.81	28.59	3.26	499.05	-143.36	0.64
74	6/30/2021 1:32	6/30/2021 1:37	0:04:20	32.14	7.15	500.01	42.40	22.37	503.04	-142.96	1.04
75	6/30/2021 1:38	6/30/2021 1:38	0:00:40	44.08	25.86	503.54	45.33	28.79	503.92	-143.64	0.36
76	6/30/2021 1:39	6/30/2021 1:39	0:00:20	46.21	31.08	504.19	46.76	32.65	504.35	-143.72	0.28
77	6/30/2021 1:40	6/30/2021 1:40	0:00:00	48.28	37.56	504.80	48.28	37.56	504.80	-143.99	0.01
78	6/30/2021 1:41	6/30/2021 1:41	0:00:00	49.56	42.75	505.17	49.56	42.75	505.17	-143.94	0.06
79	6/30/2021 1:42	6/30/2021 1:42	0:00:10	50.10	45.45	505.32	50.26	46.36	505.37	-143.86	0.14
80	6/30/2021 1:43	6/30/2021 1:44	0:01:10	50.96	51.01	505.56	51.59	57.73	505.71	-142.12	1.88
81	6/30/2021 1:47	6/30/2021 1:47	0:00:00	51.24	75.27	505.49	51.24	75.27	505.49	-143.49	0.51
82	6/30/2021 1:48	6/30/2021 1:51	0:03:10	50.65	80.00	505.28	46.64	96.42	503.90	-141.05	2.95
83	6/30/2021 1:52	6/30/2021 1:53	0:01:20	44.89	101.00	503.31	42.25	106.65	502.42	-143.29	0.71
84	6/30/2021 1:55	6/30/2021 1:56	0:00:40	38.17	113.60	501.09	36.57	115.92	500.58	-142.91	1.09
85	6/30/2021 2:13	6/30/2021 2:13	0:00:00	-13.26	157.92	494.76	-13.26	157.92	494.76	-143.92	0.08
86	6/30/2021 2:15	6/30/2021 2:17	0:02:10	-18.14	161.76	495.56	-24.33	167.11	496.88	-142.59	1.41
87	6/30/2021 2:17	6/30/2021 2:18	0:01:10	-25.73	168.42	497.22	-28.92	171.62	498.05	-143.10	0.90
88	6/30/2021 2:19	6/30/2021 2:19	0:00:00	-30.71	173.54	498.54	-30.71	173.54	498.54	-144.00	0.00
89	6/30/2021 2:20	6/30/2021 2:21	0:00:50	-32.46	175.54	499.04	-34.59	178.15	499.67	-142.78	1.22
90	6/30/2021 2:23	6/30/2021 2:23	0:00:10	-39.78	-174.33	501.27	-40.15	-173.70	501.39	-143.60	0.40
91	6/30/2021 2:23	6/30/2021 2:25	0:01:40	-41.25	-171.78	501.75	-44.63	-164.87	502.85	-142.87	1.13
92	6/30/2021 2:26	6/30/2021 2:34	0:07:50	-45.85	-161.87	503.24	-51.44	-118.87	505.22	-141.87	2.13
93	6/30/2021 2:35	6/30/2021 2:35	0:00:00	-50.81	-113.15	505.06	-50.81	-113.15	505.06	-143.83	0.17
94	6/30/2021 2:35	6/30/2021 2:36	0:00:20	-50.06	-108.53	504.86	-49.71	-106.73	504.76	-143.20	0.80
95	6/30/2021 3:18	6/30/2021 3:21	0:03:40	51.33	30.33	505.73	51.20	51.73	505.56	-142.08	1.92
96	6/30/2021 3:22	6/30/2021 3:25	0:03:10	50.58	56.44	505.34	46.51	72.80	503.95	-140.93	3.07
97	6/30/2021 3:26	6/30/2021 3:28	0:01:30	44.74	77.36	503.35	41.73	83.64	502.35	-143.28	0.72
98	6/30/2021 3:29	6/30/2021 3:30	0:00:40	37.98	89.89	501.12	36.38	92.20	500.61	-142.92	1.08
99	6/30/2021 3:47	6/30/2021 3:47	0:00:10	-12.99	133.74	494.77	-13.48	134.11	494.84	-143.87	0.13
100	6/30/2021 3:51	6/30/2021 3:51	0:00:10	-24.08	142.89	496.84	-24.55	143.33	496.95	-143.35	0.65
101	6/30/2021 3:52	6/30/2021 3:53	0:01:10	-25.94	144.64	497.29	-29.13	147.85	498.12	-143.03	0.97
102	6/30/2021 3:54	6/30/2021 3:54	0:00:00	-30.91	149.78	498.61	-30.91	149.78	498.61	-143.73	0.27
103	6/30/2021 3:54	6/30/2021 3:55	0:01:00	-32.22	151.28	498.98	-34.78	154.42	499.73	-142.75	1.25
104	6/30/2021 3:56	6/30/2021 3:56	0:00:00	-37.23	157.77	500.48	-37.23	157.77	500.48	-143.98	0.02
105	6/30/2021 3:57	6/30/2021 3:57	0:00:10	-39.95	161.98	501.33	-40.32	162.61	501.45	-143.58	0.42
106	6/30/2021 3:58	6/30/2021 3:59	0:01:30	-41.42	164.54	501.80	-44.46	170.76	502.78	-142.92	1.08
107	6/30/2021 4:00	6/30/2021 4:08	0:07:50	-45.98	174.50	503.28	-51.40	-142.41	505.19	-141.93	2.07
108	6/30/2021 4:09	6/30/2021 4:09	0:00:00	-50.75	-136.71	505.02	-50.75	-136.71	505.02	-143.67	0.33
109	6/30/2021 4:10	6/30/2021 4:12	0:02:10	-49.98	-132.10	504.81	-47.12	-120.97	503.98	-142.35	1.65
110	6/30/2021 4:13	6/30/2021 4:15	0:01:30	-45.12	-115.55	503.39	-42.17	-109.18	502.51	-143.05	0.95
111	6/30/2021 4:16	6/30/2021 4:18	0:01:20	-38.47	-102.84	501.42	-35.25	-98.26	500.49	-142.11	1.89
112	6/30/2021 4:18	6/30/2021 4:18	0:00:10	-33.99	-96.65	500.14	-33.57	-96.12	500.02	-143.24	0.76
113	6/30/2021 4:24	6/30/2021 4:24	0:00:40	-19.39	-82.03	496.66	-17.46	-80.45	496.32	-143.01	0.99
114	6/30/2021 4:27	6/30/2021 4:28	0:01:00	-10.09	-74.81	495.32	-7.11	-72.64	495.07	-143.22	0.78
115	6/30/2021 4:31	6/30/2021 4:31	0:00:00	1.40	-66.63	494.86	1.40	-66.63	494.86	-143.93	0.07
116	6/30/2021 4:32	6/30/2021 4:32	0:00:00	5.41	-63.80	495.03	5.41	-63.80	495.03	-143.69	0.31
117	6/30/2021 4:45	6/30/2021 4:46	0:00:40	40.95	-28.29	502.68	42.38	-25.65	503.12	-143.46	0.54
118	6/30/2021 4:47	6/30/2021 4:48	0:01:20	44.37	-21.44	503.73	46.74	-15.38	504.46	-143.62	0.38
119	6/30/2021 4:51	6/30/2021 4:51	0:00:00	50.41	-0.76	505.54	50.41	-0.76	505.54	-143.90	0.10
120	6/30/2021 4:52	6/30/2021 4:56	0:04:10	51.07	3.92	505.72	51.15	28.19	505.61	-142.05	1.95

**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
121	6/30/2021 4:57	6/30/2021 5:00	0:03:10	50.51	32.89	505.38	46.38	49.17	503.96	-141.09	2.91
122	6/30/2021 5:01	6/30/2021 5:02	0:01:30	44.60	53.71	503.36	41.57	59.96	502.34	-143.25	0.75
123	6/30/2021 5:04	6/30/2021 5:05	0:00:40	37.80	66.18	501.11	36.19	68.47	500.59	-143.17	0.83
124	6/30/2021 5:22	6/30/2021 5:22	0:00:10	-12.72	109.55	494.73	-13.21	109.92	494.80	-143.69	0.31
125	6/30/2021 5:23	6/30/2021 5:26	0:02:40	-17.13	112.97	495.41	-24.76	119.54	497.01	-142.75	1.25
126	6/30/2021 5:26	6/30/2021 5:27	0:01:00	-26.15	120.86	497.35	-28.89	123.61	498.06	-143.12	0.88
127	6/30/2021 5:28	6/30/2021 5:30	0:01:30	-31.11	126.02	498.68	-34.97	130.68	499.81	-142.71	1.29
128	6/30/2021 5:31	6/30/2021 5:31	0:00:00	-37.42	134.05	500.56	-37.42	134.05	500.56	-143.58	0.42
129	6/30/2021 5:32	6/30/2021 5:32	0:00:10	-40.12	138.28	501.42	-40.49	138.91	501.54	-143.64	0.36
130	6/30/2021 5:32	6/30/2021 5:34	0:01:30	-41.58	140.86	501.89	-44.61	147.11	502.88	-142.87	1.13
131	6/30/2021 5:35	6/30/2021 5:36	0:00:50	-46.11	150.87	503.37	-47.46	154.84	503.83	-143.35	0.65
132	6/30/2021 6:01	6/30/2021 6:02	0:00:50	-9.87	-98.63	495.43	-7.38	-96.82	495.22	-143.20	0.80
133	6/30/2021 6:06	6/30/2021 6:07	0:00:30	5.63	-87.62	495.17	7.13	-86.55	495.28	-142.93	1.07
134	6/30/2021 6:26	6/30/2021 6:30	0:04:00	51.12	-19.64	505.73	51.20	3.68	505.60	-141.98	2.02
135	6/30/2021 6:31	6/30/2021 6:34	0:03:00	50.44	9.32	505.33	46.53	24.76	503.97	-141.46	2.54
136	6/30/2021 6:35	6/30/2021 6:37	0:01:20	44.13	30.78	503.15	41.41	36.27	502.23	-143.22	0.78
137	6/30/2021 6:38	6/30/2021 6:39	0:00:40	37.62	42.45	500.98	36.01	44.74	500.46	-143.37	0.63
138	6/30/2021 6:58	6/30/2021 7:02	0:03:40	-18.80	90.35	495.65	-29.09	99.84	498.09	-142.94	1.06
139	6/30/2021 7:03	6/30/2021 7:04	0:01:10	-32.18	103.27	498.97	-35.16	106.95	499.87	-142.73	1.27
140	6/30/2021 7:05	6/30/2021 7:05	0:00:20	-37.20	109.75	500.50	-37.99	110.92	500.75	-143.29	0.71
141	6/30/2021 7:06	6/30/2021 7:06	0:00:10	-40.29	114.58	501.50	-40.66	115.22	501.62	-143.70	0.30
142	6/30/2021 7:07	6/30/2021 7:08	0:01:30	-41.74	117.17	501.97	-44.75	123.46	502.98	-142.87	1.13
143	6/30/2021 7:09	6/30/2021 7:17	0:07:40	-46.24	127.24	503.48	-51.41	169.53	505.43	-142.02	1.98
144	6/30/2021 7:18	6/30/2021 7:18	0:00:10	-50.76	175.24	505.28	-50.63	176.17	505.24	-143.38	0.62
145	6/30/2021 7:19	6/30/2021 7:21	0:02:10	-49.82	-179.25	505.03	-46.88	-168.22	504.20	-142.42	1.58
146	6/30/2021 7:22	6/30/2021 7:24	0:01:30	-44.84	-162.85	503.61	-41.85	-156.54	502.73	-142.83	1.17
147	6/30/2021 7:25	6/30/2021 7:28	0:02:10	-38.11	-150.27	501.63	-32.75	-143.11	500.12	-141.79	2.21
148	6/30/2021 7:29	6/30/2021 7:29	0:00:00	-27.88	-137.76	498.84	-27.88	-137.76	498.84	-144.00	0.00
149	6/30/2021 7:32	6/30/2021 7:32	0:00:30	-21.83	-132.08	497.45	-20.40	-130.85	497.17	-143.31	0.69
150	6/30/2021 7:33	6/30/2021 7:33	0:00:40	-18.96	-129.65	496.89	-17.02	-128.07	496.55	-142.97	1.03
151	6/30/2021 7:36	6/30/2021 7:37	0:01:20	-9.64	-122.45	495.56	-5.66	-119.58	495.25	-143.14	0.86
152	6/30/2021 7:41	6/30/2021 7:41	0:00:10	5.36	-111.80	495.26	5.86	-111.45	495.30	-143.32	0.68
153	6/30/2021 8:04	6/30/2021 8:05	0:00:10	51.26	-20.84	505.49	51.16	-19.88	505.45	-143.31	0.69
154	6/30/2021 8:06	6/30/2021 8:09	0:03:00	50.38	-14.26	505.15	46.41	1.12	503.76	-141.88	2.12
155	6/30/2021 8:09	6/30/2021 8:09	0:00:00	45.54	3.43	503.46	45.54	3.43	503.46	-144.00	0.00
156	6/30/2021 8:10	6/30/2021 8:11	0:01:20	43.99	7.11	502.93	41.25	12.58	502.00	-143.19	0.81
157	6/30/2021 8:13	6/30/2021 8:14	0:00:40	37.44	18.73	500.74	35.83	21.00	500.22	-143.51	0.49
158	6/30/2021 8:30	6/30/2021 8:30	0:00:00	-12.68	61.55	494.51	-12.68	61.55	494.51	-143.97	0.03
159	6/30/2021 8:41	6/30/2021 8:41	0:00:10	-40.09	90.25	501.34	-40.46	90.89	501.47	-143.79	0.21
160	6/30/2021 8:41	6/30/2021 8:43	0:01:30	-41.90	93.49	501.94	-44.89	99.81	502.94	-142.92	1.08
161	6/30/2021 8:44	6/30/2021 8:51	0:07:50	-46.08	102.83	503.35	-51.37	145.99	505.37	-142.03	1.97
162	6/30/2021 8:53	6/30/2021 8:53	0:00:00	-50.56	152.61	505.17	-50.56	152.61	505.17	-143.34	0.66
163	6/30/2021 8:53	6/30/2021 8:55	0:02:00	-49.74	157.17	504.96	-47.02	167.37	504.20	-142.38	1.62
164	6/30/2021 8:57	6/30/2021 8:58	0:01:30	-44.70	173.50	503.53	-41.69	179.78	502.65	-142.69	1.31
165	6/30/2021 9:00	6/30/2021 9:02	0:02:10	-37.94	-173.98	501.56	-32.56	-166.86	500.05	-141.53	2.47
166	6/30/2021 9:04	6/30/2021 9:04	0:00:00	-27.21	-161.07	498.67	-27.21	-161.07	498.67	-143.98	0.02
167	6/30/2021 9:05	6/30/2021 9:05	0:00:00	-23.97	-157.98	497.92	-23.97	-157.98	497.92	-143.96	0.04
168	6/30/2021 9:06	6/30/2021 9:06	0:00:20	-21.61	-155.88	497.41	-20.66	-155.06	497.22	-143.40	0.60
169	6/30/2021 9:07	6/30/2021 9:08	0:00:50	-18.74	-153.45	496.85	-16.31	-151.49	496.44	-142.97	1.03
170	6/30/2021 9:10	6/30/2021 9:11	0:01:10	-9.42	-146.27	495.55	-5.93	-143.75	495.28	-143.14	0.86
171	6/30/2021 9:14	6/30/2021 9:14	0:00:00	0.58	-139.16	495.12	0.58	-139.16	495.12	-143.92	0.08
172	6/30/2021 9:15	6/30/2021 9:16	0:01:00	5.08	-135.98	495.27	8.08	-133.83	495.49	-143.52	0.48
173	6/30/2021 9:18	6/30/2021 9:18	0:00:20	13.03	-130.17	496.04	14.02	-129.43	496.18	-143.92	0.08
174	6/30/2021 9:39	6/30/2021 9:39	0:00:30	51.40	-46.31	505.56	51.11	-43.43	505.45	-141.78	2.22
175	6/30/2021 9:40	6/30/2021 9:43	0:03:00	50.31	-37.82	505.15	46.28	-22.51	503.73	-142.06	1.94
176	6/30/2021 9:44	6/30/2021 9:44	0:00:00	45.41	-20.21	503.43	45.41	-20.21	503.43	-143.92	0.08
177	6/30/2021 9:44	6/30/2021 9:46	0:01:20	43.84	-16.55	502.89	41.08	-11.11	501.96	-143.20	0.80
178	6/30/2021 9:47	6/30/2021 9:48	0:00:40	37.26	-4.99	500.69	35.64	-2.73	500.17	-143.57	0.43
179	6/30/2021 10:05	6/30/2021 10:11	0:05:40	-12.90	37.73	494.50	-29.05	51.83	497.92	-142.61	1.39
180	6/30/2021 10:11	6/30/2021 10:13	0:01:30	-31.27	54.25	498.55	-35.12	58.93	499.71	-142.65	1.35



**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
181	6/30/2021 10:14	6/30/2021 10:14	0:00:00	-37.56	62.31	500.47	-37.56	62.31	500.47	-142.34	1.66
182	6/30/2021 10:17	6/30/2021 10:17	0:00:30	-44.09	73.97	502.61	-45.03	76.16	502.93	-143.60	0.40
183	6/30/2021 10:18	6/30/2021 10:20	0:01:30	-46.21	79.20	503.33	-48.52	86.52	504.12	-143.43	0.57
184	6/30/2021 10:20	6/30/2021 10:26	0:05:50	-49.17	89.11	504.35	-51.33	122.44	505.29	-142.06	1.94
185	6/30/2021 10:27	6/30/2021 10:27	0:00:00	-50.50	129.05	505.08	-50.50	129.05	505.08	-143.35	0.65
186	6/30/2021 10:28	6/30/2021 10:30	0:02:00	-49.66	133.60	504.86	-46.90	143.75	504.09	-142.32	1.68
187	6/30/2021 10:31	6/30/2021 10:33	0:01:40	-44.56	149.86	503.42	-41.17	156.75	502.43	-142.64	1.36
188	6/30/2021 10:35	6/30/2021 10:36	0:01:20	-37.36	162.89	501.32	-34.07	167.32	500.40	-141.40	2.60
189	6/30/2021 10:36	6/30/2021 10:37	0:00:20	-32.79	168.89	500.05	-31.92	169.90	499.82	-143.39	0.61
190	6/30/2021 10:39	6/30/2021 10:39	0:00:10	-27.00	175.15	498.56	-26.55	175.60	498.45	-143.58	0.42
191	6/30/2021 10:40	6/30/2021 10:41	0:01:00	-23.29	178.66	497.71	-20.44	-178.85	497.12	-143.37	0.63
192	6/30/2021 10:42	6/30/2021 10:43	0:01:00	-18.52	-177.25	496.76	-15.60	-174.91	496.27	-143.17	0.83
193	6/30/2021 10:45	6/30/2021 10:46	0:01:00	-9.69	-170.45	495.53	-6.70	-168.29	495.28	-143.16	0.84
194	6/30/2021 10:50	6/30/2021 10:50	0:00:00	5.31	-159.80	495.24	5.31	-159.80	495.24	-143.63	0.37
195	6/30/2021 10:50	6/30/2021 10:51	0:00:20	7.31	-158.37	495.38	8.31	-157.65	495.47	-143.67	0.33
196	6/30/2021 10:52	6/30/2021 10:52	0:00:10	13.26	-153.99	496.04	13.75	-153.61	496.11	-143.85	0.15
197	6/30/2021 10:53	6/30/2021 10:58	0:04:30	16.20	-151.71	496.49	28.92	-140.30	499.25	-142.41	1.59
198	6/30/2021 10:59	6/30/2021 10:59	0:00:00	31.58	-137.39	499.96	31.58	-137.39	499.96	-143.95	0.05
199	6/30/2021 11:22	6/30/2021 11:23	0:00:40	37.08	-28.71	500.65	35.45	-26.46	500.13	-143.51	0.49
200	6/30/2021 11:39	6/30/2021 11:45	0:05:40	-13.13	13.92	494.56	-29.26	28.07	497.99	-142.63	1.37
201	6/30/2021 11:46	6/30/2021 11:47	0:01:30	-31.47	30.50	498.61	-35.31	35.20	499.76	-142.61	1.39
202	6/30/2021 11:48	6/30/2021 11:49	0:00:20	-37.35	38.01	500.39	-38.14	39.18	500.64	-142.06	1.94
203	6/30/2021 11:50	6/30/2021 11:50	0:00:00	-40.43	42.87	501.38	-40.43	42.87	501.38	-143.95	0.05
204	6/30/2021 11:50	6/30/2021 11:52	0:01:30	-41.87	45.47	501.86	-44.86	51.78	502.85	-142.96	1.04
205	6/30/2021 11:53	6/30/2021 11:56	0:03:30	-46.34	55.57	503.34	-50.77	73.71	504.87	-143.41	0.59
206	6/30/2021 11:59	6/30/2021 12:00	0:01:40	-51.80	89.17	505.29	-51.29	98.90	505.21	-142.09	1.91
207	6/30/2021 12:02	6/30/2021 12:02	0:00:00	-50.43	105.50	504.99	-50.43	105.50	504.99	-143.35	0.65
208	6/30/2021 12:02	6/30/2021 12:04	0:02:00	-49.57	110.03	504.76	-46.78	120.13	503.97	-142.29	1.71
209	6/30/2021 12:06	6/30/2021 12:07	0:01:40	-44.41	126.21	503.28	-41.00	133.07	502.28	-142.74	1.26
210	6/30/2021 12:09	6/30/2021 12:11	0:02:10	-37.17	139.17	501.17	-31.72	146.15	499.65	-141.41	2.59
211	6/30/2021 12:13	6/30/2021 12:13	0:00:20	-26.79	151.38	498.40	-25.87	152.28	498.18	-143.53	0.47
212	6/30/2021 12:15	6/30/2021 12:15	0:00:50	-22.60	155.29	497.45	-20.22	157.36	496.97	-143.27	0.73
213	6/30/2021 12:16	6/30/2021 12:17	0:00:50	-17.81	159.35	496.53	-15.38	161.28	496.14	-143.46	0.54
214	6/30/2021 12:19	6/30/2021 12:20	0:01:10	-9.46	165.74	495.41	-5.97	168.26	495.15	-143.17	0.83
215	6/30/2021 12:22	6/30/2021 12:22	0:00:10	0.04	172.50	494.99	0.54	172.85	494.99	-143.55	0.45
216	6/30/2021 12:24	6/30/2021 12:24	0:00:00	5.05	176.03	495.15	5.05	176.03	495.15	-143.61	0.39
217	6/30/2021 12:25	6/30/2021 12:25	0:00:10	7.54	177.81	495.33	8.04	178.17	495.37	-143.84	0.16
218	6/30/2021 12:26	6/30/2021 12:27	0:00:30	12.50	-178.54	495.88	13.98	-177.42	496.09	-143.85	0.15
219	6/30/2021 12:28	6/30/2021 12:31	0:03:20	15.94	-175.90	496.39	25.48	-167.71	498.36	-142.58	1.42
220	6/30/2021 13:14	6/30/2021 13:19	0:05:40	-12.86	-10.26	494.64	-29.01	3.83	498.01	-142.61	1.39
221	6/30/2021 13:20	6/30/2021 13:22	0:01:40	-31.23	6.25	498.63	-35.50	11.47	499.90	-142.40	1.60
222	6/30/2021 13:23	6/30/2021 13:23	0:00:20	-37.53	14.30	500.53	-38.32	15.47	500.78	-142.21	1.79
223	6/30/2021 13:25	6/30/2021 13:26	0:01:30	-42.03	21.79	501.97	-45.00	28.13	502.95	-142.93	1.07
224	6/30/2021 13:27	6/30/2021 13:32	0:04:50	-46.47	31.95	503.44	-51.59	57.81	505.20	-142.52	1.48
225	6/30/2021 13:36	6/30/2021 13:36	0:00:00	-50.36	81.93	504.97	-50.36	81.93	504.97	-143.33	0.67
226	6/30/2021 13:37	6/30/2021 13:39	0:02:00	-49.48	86.45	504.73	-46.65	96.51	503.91	-142.32	1.68
227	6/30/2021 13:40	6/30/2021 13:42	0:01:40	-44.27	102.56	503.20	-40.84	109.38	502.18	-142.87	1.13
228	6/30/2021 13:44	6/30/2021 13:46	0:02:20	-36.99	115.45	501.05	-31.08	122.89	499.41	-141.48	2.52
229	6/30/2021 13:48	6/30/2021 13:48	0:00:20	-26.12	128.05	498.16	-25.20	128.94	497.94	-143.28	0.72
230	6/30/2021 13:49	6/30/2021 13:50	0:00:50	-22.38	131.50	497.32	-20.00	133.56	496.84	-143.10	0.90
231	6/30/2021 13:51	6/30/2021 13:51	0:00:40	-17.59	135.54	496.40	-15.64	137.09	496.09	-143.74	0.26
232	6/30/2021 13:53	6/30/2021 13:55	0:01:10	-9.73	141.56	495.35	-6.24	144.08	495.07	-143.20	0.80
233	6/30/2021 13:57	6/30/2021 13:57	0:00:10	-0.23	148.33	494.89	0.27	148.68	494.90	-143.28	0.72
234	6/30/2021 13:58	6/30/2021 13:58	0:00:00	4.77	151.86	495.04	4.77	151.86	495.04	-143.65	0.35
235	6/30/2021 13:59	6/30/2021 13:59	0:00:00	8.27	154.36	495.30	8.27	154.36	495.30	-143.99	0.01
236	6/30/2021 14:01	6/30/2021 14:02	0:00:50	12.23	157.28	495.75	14.69	159.15	496.10	-143.81	0.19
237	6/30/2021 14:02	6/30/2021 14:07	0:04:30	16.16	160.30	496.34	28.89	171.71	499.14	-142.23	1.77
238	6/30/2021 14:08	6/30/2021 14:09	0:01:30	31.55	174.61	499.86	35.38	179.32	500.96	-143.55	0.45
239	6/30/2021 14:10	6/30/2021 14:10	0:00:40	37.02	-178.44	501.44	38.60	-176.09	501.91	-143.09	0.91
240	6/30/2021 14:11	6/30/2021 14:12	0:01:20	40.12	-173.63	502.37	42.97	-168.36	503.25	-143.55	0.45



**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
241	6/30/2021 14:16	6/30/2021 14:16	0:00:00	48.88	-152.04	505.03	48.88	-152.04	505.03	-143.99	0.01
242	6/30/2021 14:19	6/30/2021 14:22	0:03:50	51.34	-137.37	505.72	51.07	-115.01	505.50	-141.43	2.57
243	6/30/2021 14:24	6/30/2021 14:27	0:03:00	50.08	-108.51	505.15	45.89	-93.38	503.72	-141.80	2.20
244	6/30/2021 14:28	6/30/2021 14:29	0:01:30	43.39	-87.52	502.88	40.21	-81.53	501.82	-143.30	0.70
245	6/30/2021 14:31	6/30/2021 14:32	0:00:40	36.30	-75.58	500.56	34.65	-73.38	500.04	-143.42	0.58
246	6/30/2021 14:45	6/30/2021 14:45	0:00:00	-4.63	-40.24	494.01	-4.63	-40.24	494.01	-143.82	0.18
247	6/30/2021 14:48	6/30/2021 14:48	0:00:30	-11.60	-35.19	494.62	-13.08	-34.07	494.81	-141.45	2.55
248	6/30/2021 14:49	6/30/2021 14:51	0:02:00	-14.56	-32.95	495.03	-20.38	-28.25	496.08	-143.17	0.83
249	6/30/2021 14:54	6/30/2021 15:05	0:11:20	-28.31	-20.88	497.99	-50.76	25.66	505.03	-143.87	0.13
250	6/30/2021 15:06	6/30/2021 15:08	0:02:30	-51.23	29.44	505.20	-51.74	44.06	505.43	-142.09	1.91
251	6/30/2021 15:09	6/30/2021 15:09	0:00:50	-51.60	46.99	505.40	-51.20	51.81	505.30	-142.59	1.41
252	6/30/2021 15:11	6/30/2021 15:11	0:00:00	-50.29	58.37	505.05	-50.29	58.37	505.05	-143.29	0.71
253	6/30/2021 15:11	6/30/2021 15:13	0:02:00	-49.39	62.86	504.80	-46.53	72.88	503.95	-142.38	1.62
254	6/30/2021 15:15	6/30/2021 15:16	0:01:40	-44.12	78.90	503.23	-40.67	85.68	502.18	-143.02	0.98
255	6/30/2021 15:18	6/30/2021 15:19	0:00:50	-36.81	91.73	501.03	-34.76	94.50	500.44	-141.53	2.47
256	6/30/2021 15:19	6/30/2021 15:20	0:01:00	-33.49	96.09	500.08	-30.89	99.13	499.36	-143.42	0.58
257	6/30/2021 15:22	6/30/2021 15:23	0:00:30	-25.92	104.27	498.09	-24.52	105.58	497.76	-143.37	0.63
258	6/30/2021 15:24	6/30/2021 15:25	0:00:50	-21.69	108.12	497.14	-19.30	110.16	496.66	-143.16	0.84
259	6/30/2021 15:25	6/30/2021 15:25	0:00:10	-17.37	111.74	496.31	-16.88	112.13	496.22	-143.94	0.06
260	6/30/2021 15:27	6/30/2021 15:29	0:01:30	-10.99	116.65	495.39	-6.52	119.90	494.99	-143.33	0.67
261	6/30/2021 15:31	6/30/2021 15:31	0:00:10	-0.51	124.15	494.78	-0.01	124.50	494.78	-143.70	0.30
262	6/30/2021 15:33	6/30/2021 15:33	0:00:10	4.50	127.68	494.90	5.00	128.03	494.93	-143.81	0.19
263	6/30/2021 15:35	6/30/2021 15:41	0:06:00	11.96	133.09	495.57	29.09	147.94	499.02	-142.15	1.85
264	6/30/2021 15:42	6/30/2021 15:44	0:01:40	31.31	150.36	499.62	35.57	155.59	500.83	-143.53	0.47
265	6/30/2021 15:44	6/30/2021 15:45	0:00:40	37.20	157.84	501.31	38.77	160.20	501.78	-142.89	1.11
266	6/30/2021 15:46	6/30/2021 15:47	0:01:20	40.29	162.67	502.24	43.12	167.97	503.10	-143.56	0.44
267	6/30/2021 15:48	6/30/2021 15:49	0:01:40	44.75	171.54	503.60	47.58	179.31	504.46	-143.62	0.38
268	6/30/2021 15:50	6/30/2021 15:50	0:00:00	48.98	-175.63	504.88	48.98	-175.63	504.88	-143.99	0.01
269	6/30/2021 16:21	6/30/2021 16:35	0:14:10	-6.86	-62.63	494.19	-44.35	-21.36	502.93	-143.80	0.20
270	6/30/2021 16:35	6/30/2021 16:43	0:07:10	-45.58	-18.40	503.33	-51.72	20.53	505.44	-142.09	1.91
271	6/30/2021 16:43	6/30/2021 16:44	0:00:50	-51.58	23.45	505.41	-51.15	28.26	505.30	-142.76	1.24
272	6/30/2021 16:45	6/30/2021 16:45	0:00:00	-50.21	34.80	505.04	-50.21	34.80	505.04	-143.23	0.77
273	6/30/2021 16:49	6/30/2021 16:51	0:01:40	-43.65	55.96	503.08	-40.13	62.63	502.01	-143.14	0.86
274	6/30/2021 16:53	6/30/2021 16:55	0:02:30	-36.62	68.00	500.96	-30.24	75.86	499.16	-141.75	2.25
275	6/30/2021 16:56	6/30/2021 16:56	0:00:00	-28.00	78.23	498.57	-28.00	78.23	498.57	-143.93	0.07
276	6/30/2021 16:57	6/30/2021 16:57	0:00:40	-25.70	80.49	498.00	-23.84	82.23	497.57	-143.28	0.72
277	6/30/2021 17:31	6/30/2021 17:31	0:00:20	51.28	-164.96	505.43	51.08	-163.05	505.35	-141.25	2.75
278	6/30/2021 17:33	6/30/2021 17:36	0:03:00	49.92	-155.64	504.96	45.62	-140.64	503.53	-141.58	2.42
279	6/30/2021 17:37	6/30/2021 17:39	0:01:50	43.41	-135.54	502.80	39.48	-128.30	501.52	-143.28	0.72
280	6/30/2021 17:40	6/30/2021 17:41	0:00:30	35.51	-122.47	500.28	34.26	-120.85	499.89	-143.10	0.90
281	6/30/2021 17:50	6/30/2021 18:05	0:15:00	7.42	-96.72	494.34	-35.65	-60.27	500.25	-143.57	0.43
282	6/30/2021 18:06	6/30/2021 18:06	0:00:30	-37.28	-58.01	500.75	-38.46	-56.25	501.12	-143.53	0.47
283	6/30/2021 18:14	6/30/2021 18:15	0:01:00	-50.61	-23.32	505.09	-51.31	-17.64	505.33	-143.67	0.33
284	6/30/2021 18:15	6/30/2021 18:17	0:02:00	-51.55	-14.75	505.41	-51.70	-3.01	505.51	-142.09	1.91
285	6/30/2021 18:18	6/30/2021 18:18	0:00:40	-51.54	-0.09	505.47	-51.21	3.76	505.38	-142.92	1.08
286	6/30/2021 18:20	6/30/2021 18:20	0:00:00	-50.14	11.24	505.08	-50.14	11.24	505.08	-143.53	0.47
287	6/30/2021 18:20	6/30/2021 18:22	0:02:00	-49.21	15.70	504.81	-46.27	25.63	503.92	-142.54	1.46
288	6/30/2021 18:24	6/30/2021 18:26	0:01:40	-43.50	32.29	503.08	-39.96	38.93	502.00	-143.12	0.88
289	6/30/2021 18:27	6/30/2021 18:30	0:02:30	-36.44	44.28	500.94	-30.07	52.07	499.23	-141.98	2.02
290	6/30/2021 18:30	6/30/2021 18:31	0:00:20	-27.82	54.42	498.64	-26.90	55.34	498.41	-143.73	0.27
291	6/30/2021 18:31	6/30/2021 18:32	0:01:00	-25.52	56.68	498.07	-22.71	59.26	497.42	-143.33	0.67
292	6/30/2021 18:33	6/30/2021 18:34	0:01:20	-20.81	60.92	497.02	-16.96	64.10	496.29	-143.45	0.55
293	6/30/2021 18:39	6/30/2021 18:39	0:00:00	-1.59	75.42	494.80	-1.59	75.42	494.80	-143.62	0.38
294	6/30/2021 18:41	6/30/2021 18:41	0:00:00	3.92	79.30	494.88	3.92	79.30	494.88	-143.98	0.02
295	6/30/2021 18:44	6/30/2021 18:50	0:06:00	11.89	85.07	495.57	29.02	99.90	499.06	-142.21	1.79
296	6/30/2021 18:51	6/30/2021 18:52	0:01:40	31.24	102.32	499.66	35.51	107.54	500.89	-143.56	0.44
297	6/30/2021 18:53	6/30/2021 18:54	0:00:40	37.53	110.37	501.50	39.10	112.75	501.97	-142.82	1.18
298	6/30/2021 18:55	6/30/2021 18:56	0:01:10	40.60	115.25	502.43	43.07	119.90	503.20	-143.57	0.43
299	6/30/2021 18:57	6/30/2021 18:58	0:01:50	44.70	123.47	503.70	47.79	132.04	504.66	-143.64	0.36
300	6/30/2021 19:01	6/30/2021 19:01	0:00:00	50.83	146.22	505.57	50.83	146.22	505.57	-143.98	0.02



**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
361	6/30/2021 22:24	6/30/2021 22:24	0:00:40	34.99	166.27	500.42	33.30	168.40	499.91	-143.22	0.78
362	6/30/2021 22:37	6/30/2021 22:37	0:00:00	-2.26	-161.83	494.38	-2.26	-161.83	494.38	-143.81	0.19
363	6/30/2021 22:38	6/30/2021 22:38	0:00:10	-5.72	-159.38	494.52	-6.22	-159.02	494.55	-143.78	0.22
364	6/30/2021 22:40	6/30/2021 22:42	0:01:10	-13.17	-153.92	495.24	-16.60	-151.26	495.77	-143.28	0.72
365	6/30/2021 22:43	6/30/2021 22:46	0:03:20	-20.46	-148.09	496.49	-29.74	-139.30	498.70	-142.68	1.32
366	6/30/2021 22:47	6/30/2021 22:48	0:01:10	-31.51	-137.34	499.19	-34.51	-133.72	500.05	-142.56	1.44
367	6/30/2021 22:49	6/30/2021 22:49	0:00:10	-35.76	-132.09	500.42	-36.17	-131.53	500.54	-143.60	0.40
368	6/30/2021 22:50	6/30/2021 22:50	0:00:20	-38.17	-128.65	501.15	-38.95	-127.45	501.39	-142.29	1.71
369	6/30/2021 22:52	6/30/2021 22:53	0:01:30	-42.60	-121.01	502.53	-45.49	-114.55	503.45	-143.05	0.95
370	6/30/2021 22:54	6/30/2021 22:58	0:04:00	-46.91	-110.67	503.90	-51.34	-89.36	505.31	-143.42	0.58
371	6/30/2021 22:59	6/30/2021 23:01	0:02:00	-51.62	-85.49	505.40	-51.65	-73.74	505.43	-142.21	1.79
372	6/30/2021 23:01	6/30/2021 23:02	0:00:40	-51.37	-69.87	505.35	-50.96	-66.05	505.23	-143.14	0.86
373	6/30/2021 23:12	6/30/2021 23:12	0:00:20	-33.42	-23.74	499.91	-32.56	-22.70	499.67	-142.53	1.47
374	6/30/2021 23:13	6/30/2021 23:13	0:00:30	-29.92	-19.73	498.94	-28.58	-18.31	498.59	-143.58	0.42
375	6/30/2021 23:14	6/30/2021 23:17	0:03:20	-27.21	-16.92	498.24	-17.77	-8.50	496.20	-143.13	0.87
376	6/30/2021 23:20	6/30/2021 23:21	0:01:20	-10.41	-2.84	495.15	-6.43	0.05	494.81	-143.44	0.56
377	6/30/2021 23:23	6/30/2021 23:23	0:00:00	-0.92	3.94	494.61	-0.92	3.94	494.61	-143.98	0.02
378	6/30/2021 23:26	6/30/2021 23:26	0:00:00	7.58	9.96	494.96	7.58	9.96	494.96	-143.85	0.15
379	6/30/2021 23:27	6/30/2021 23:27	0:00:10	10.07	11.77	495.21	10.57	12.14	495.27	-143.14	0.86
380	6/30/2021 23:27	6/30/2021 23:28	0:00:10	12.54	13.61	495.52	13.04	13.98	495.59	-143.70	0.30
381	6/30/2021 23:28	6/30/2021 23:33	0:05:10	14.51	15.11	495.81	29.17	28.10	499.01	-142.02	1.98
382	6/30/2021 23:34	6/30/2021 23:36	0:01:40	31.39	30.53	499.62	35.64	35.77	500.87	-143.59	0.41
383	6/30/2021 23:37	6/30/2021 23:37	0:00:40	37.67	38.61	501.48	39.22	41.00	501.96	-142.71	1.29
384	6/30/2021 23:38	6/30/2021 23:39	0:01:10	40.72	43.51	502.43	43.18	48.18	503.20	-143.60	0.40
385	6/30/2021 23:40	6/30/2021 23:40	0:00:00	45.11	52.50	503.81	45.11	52.50	503.81	-143.75	0.25
386	6/30/2021 23:41	6/30/2021 23:42	0:01:10	46.00	54.77	504.09	47.87	60.36	504.68	-143.56	0.44
387	6/30/2021 23:44	6/30/2021 23:44	0:00:00	50.61	72.71	505.53	50.61	72.71	505.53	-143.97	0.03
388	6/30/2021 23:47	6/30/2021 23:48	0:00:40	51.79	90.07	505.87	51.66	93.99	505.82	-142.58	1.42
389	6/30/2021 23:48	6/30/2021 23:49	0:01:00	51.48	96.90	505.76	50.87	102.63	505.57	-141.65	2.35
390	6/30/2021 23:51	6/30/2021 23:54	0:03:00	49.42	110.85	505.10	44.79	125.45	503.60	-141.71	2.29
391	6/30/2021 23:55	6/30/2021 23:57	0:02:20	43.18	129.02	503.08	38.05	138.00	501.44	-143.12	0.88
392	6/30/2021 23:58	7/1/2021 0:00	0:01:40	34.81	142.52	500.44	30.50	147.65	499.18	-143.05	0.95
393	7/1/2021 0:12	7/1/2021 0:12	0:00:00	-5.94	176.80	494.52	-5.94	176.80	494.52	-143.97	0.03
394	7/1/2021 0:15	7/1/2021 0:16	0:01:10	-12.90	-178.12	495.19	-16.33	-175.46	495.71	-143.18	0.82
395	7/1/2021 0:29	7/1/2021 0:30	0:01:20	-47.30	-133.49	503.99	-49.16	-126.75	504.58	-143.38	0.62
396	7/1/2021 0:30	7/1/2021 0:32	0:02:00	-49.75	-124.10	504.77	-51.38	-112.91	505.28	-143.44	0.56
397	7/1/2021 0:33	7/1/2021 0:35	0:01:50	-51.65	-109.04	505.37	-51.67	-98.27	505.39	-142.25	1.75
398	7/1/2021 0:36	7/1/2021 0:36	0:00:40	-51.33	-93.42	505.29	-50.91	-89.62	505.16	-143.37	0.63
399	7/1/2021 0:38	7/1/2021 0:41	0:02:10	-48.85	-78.76	504.54	-45.49	-68.23	503.50	-142.12	1.88
400	7/1/2021 0:42	7/1/2021 0:44	0:01:30	-42.59	-61.77	502.60	-39.32	-55.95	501.60	-143.14	0.86
401	7/1/2021 0:46	7/1/2021 0:46	0:00:10	-32.80	-46.97	499.68	-32.36	-46.46	499.55	-143.06	0.94
402	7/1/2021 0:47	7/1/2021 0:47	0:00:00	-31.06	-44.96	499.19	-31.06	-44.96	499.19	-143.91	0.09
403	7/1/2021 0:47	7/1/2021 0:48	0:00:10	-29.73	-43.50	498.83	-29.28	-43.02	498.71	-143.73	0.27
404	7/1/2021 0:48	7/1/2021 0:51	0:03:20	-27.92	-41.62	498.36	-18.52	-33.10	496.28	-143.36	0.64
405	7/1/2021 0:54	7/1/2021 0:55	0:01:20	-10.69	-27.03	495.12	-6.71	-24.14	494.77	-143.28	0.72
406	7/1/2021 0:58	7/1/2021 0:58	0:00:20	0.30	-19.18	494.57	1.31	-18.48	494.58	-143.77	0.23
407	7/1/2021 1:00	7/1/2021 1:00	0:00:00	7.81	-13.86	494.94	7.81	-13.86	494.94	-143.82	0.18
408	7/1/2021 1:01	7/1/2021 1:01	0:00:20	9.80	-12.41	495.14	10.79	-11.68	495.26	-143.00	1.00
409	7/1/2021 1:02	7/1/2021 1:02	0:00:10	12.27	-10.58	495.45	12.76	-10.21	495.51	-143.77	0.23
410	7/1/2021 1:03	7/1/2021 1:08	0:05:00	14.73	-8.70	495.81	28.92	3.86	498.92	-141.96	2.04
411	7/1/2021 1:09	7/1/2021 1:10	0:01:30	31.58	6.77	499.66	35.42	11.48	500.79	-143.59	0.41
412	7/1/2021 1:11	7/1/2021 1:12	0:00:40	37.84	14.89	501.53	39.39	17.29	502.01	-142.74	1.26
413	7/1/2021 1:12	7/1/2021 1:13	0:01:00	40.89	19.81	502.47	43.00	23.81	503.14	-143.64	0.36
414	7/1/2021 1:15	7/1/2021 1:16	0:01:40	45.25	28.85	503.85	47.98	36.75	504.72	-143.58	0.42
415	7/1/2021 1:19	7/1/2021 1:19	0:00:00	50.67	49.14	505.55	50.67	49.14	505.55	-143.95	0.05
416	7/1/2021 1:20	7/1/2021 1:20	0:00:20	51.58	57.73	505.82	51.68	59.67	505.85	-142.70	1.30
417	7/1/2021 1:23	7/1/2021 1:24	0:00:30	51.17	76.23	505.66	50.82	79.07	505.55	-141.68	2.32
418	7/1/2021 1:25	7/1/2021 1:28	0:02:50	49.33	87.26	505.07	44.97	101.06	503.66	-141.66	2.34
419	7/1/2021 1:29	7/1/2021 1:32	0:02:30	43.03	105.35	503.03	37.48	114.87	501.27	-143.06	0.94
420	7/1/2021 1:33	7/1/2021 1:34	0:01:40	34.62	118.78	500.39	30.30	123.89	499.14	-142.73	1.27

**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
421	7/1/2021 1:49	7/1/2021 1:50	0:01:20	-12.62	157.70	495.17	-16.54	160.73	495.75	-143.01	0.99
422	7/1/2021 1:51	7/1/2021 1:51	0:00:00	-18.48	162.29	496.09	-18.48	162.29	496.09	-143.98	0.02
423	7/1/2021 1:52	7/1/2021 1:55	0:03:10	-20.89	164.30	496.56	-29.69	172.68	498.65	-142.49	1.51
424	7/1/2021 1:56	7/1/2021 1:57	0:01:10	-31.90	175.14	499.25	-34.88	178.79	500.11	-142.78	1.22
425	7/1/2021 1:58	7/1/2021 1:58	0:00:00	-36.12	-179.56	500.47	-36.12	-179.56	500.47	-143.70	0.30
426	7/1/2021 1:58	7/1/2021 1:58	0:00:00	-37.33	-177.85	500.84	-37.33	-177.85	500.84	-143.72	0.28
427	7/1/2021 1:59	7/1/2021 1:59	0:00:20	-38.52	-176.08	501.19	-39.29	-174.87	501.43	-142.59	1.41
428	7/1/2021 2:01	7/1/2021 2:02	0:01:30	-42.90	-168.37	502.55	-45.76	-161.84	503.44	-143.12	0.88
429	7/1/2021 2:03	7/1/2021 2:04	0:01:30	-47.15	-157.92	503.88	-49.26	-150.35	504.54	-143.33	0.67
430	7/1/2021 2:05	7/1/2021 2:07	0:02:00	-49.83	-147.68	504.72	-51.41	-136.46	505.21	-143.45	0.55
431	7/1/2021 2:08	7/1/2021 2:09	0:01:50	-51.67	-132.58	505.29	-51.65	-121.81	505.29	-142.28	1.72
432	7/1/2021 2:10	7/1/2021 2:11	0:00:40	-51.29	-116.98	505.19	-50.85	-113.18	505.05	-143.40	0.60
433	7/1/2021 2:13	7/1/2021 2:15	0:02:10	-48.76	-102.35	504.41	-45.35	-91.88	503.36	-142.01	1.99
434	7/1/2021 2:17	7/1/2021 2:18	0:01:30	-42.43	-85.45	502.46	-39.15	-79.66	501.45	-143.11	0.89
435	7/1/2021 2:20	7/1/2021 2:21	0:01:40	-35.15	-73.89	500.26	-30.86	-68.72	499.05	-142.45	1.55
436	7/1/2021 2:22	7/1/2021 2:22	0:00:00	-29.08	-66.79	498.57	-29.08	-66.79	498.57	-143.99	0.01
437	7/1/2021 2:23	7/1/2021 2:23	0:00:00	-27.26	-64.93	498.11	-27.26	-64.93	498.11	-143.86	0.14
438	7/1/2021 2:34	7/1/2021 2:34	0:00:00	6.04	-39.11	494.74	6.04	-39.11	494.74	-143.86	0.14
439	7/1/2021 2:35	7/1/2021 2:36	0:00:10	10.02	-36.23	495.11	10.52	-35.87	495.17	-143.42	0.58
440	7/1/2021 2:36	7/1/2021 2:36	0:00:10	12.49	-34.39	495.43	12.99	-34.02	495.50	-143.82	0.18
441	7/1/2021 2:37	7/1/2021 2:42	0:05:10	14.46	-32.89	495.72	29.12	-19.91	498.97	-141.98	2.02
442	7/1/2021 2:43	7/1/2021 2:45	0:01:30	31.78	-16.99	499.72	35.60	-12.25	500.85	-143.60	0.40
443	7/1/2021 2:46	7/1/2021 2:46	0:00:40	38.02	-8.83	501.60	39.57	-6.41	502.08	-142.91	1.09
444	7/1/2021 2:47	7/1/2021 2:48	0:01:10	40.68	-4.53	502.44	43.15	0.14	503.22	-143.63	0.37
445	7/1/2021 2:49	7/1/2021 2:51	0:01:50	45.08	4.46	503.84	48.09	13.14	504.80	-143.60	0.40
446	7/1/2021 2:55	7/1/2021 2:57	0:01:50	51.66	35.15	505.92	51.67	45.92	505.91	-141.81	2.19
447	7/1/2021 2:57	7/1/2021 2:58	0:01:00	51.40	49.80	505.83	50.76	55.51	505.62	-141.64	2.36
448	7/1/2021 3:00	7/1/2021 3:03	0:02:50	49.24	63.67	505.13	44.83	77.40	503.70	-141.58	2.42
449	7/1/2021 3:04	7/1/2021 3:06	0:02:40	42.87	81.68	503.07	36.90	91.72	501.18	-142.97	1.03
450	7/1/2021 3:07	7/1/2021 3:09	0:01:30	34.01	95.57	500.30	30.10	100.12	499.16	-142.24	1.76
451	7/1/2021 3:23	7/1/2021 3:26	0:02:10	-12.35	133.51	495.18	-18.70	138.48	496.16	-142.83	1.17
452	7/1/2021 3:30	7/1/2021 3:31	0:01:00	-32.09	151.38	499.32	-34.65	154.51	500.05	-142.80	1.20
453	7/1/2021 3:33	7/1/2021 3:33	0:00:00	-37.51	158.43	500.89	-37.51	158.43	500.89	-143.97	0.03
454	7/1/2021 3:33	7/1/2021 3:33	0:00:20	-38.69	160.20	501.25	-39.46	161.42	501.48	-142.86	1.14
455	7/1/2021 3:35	7/1/2021 3:37	0:01:30	-43.05	167.95	502.59	-45.89	174.52	503.47	-143.11	0.89
456	7/1/2021 3:37	7/1/2021 3:41	0:04:00	-47.27	178.46	503.91	-51.45	-160.02	505.20	-143.27	0.73
457	7/1/2021 3:42	7/1/2021 3:44	0:01:50	-51.69	-156.13	505.28	-51.63	-145.36	505.26	-142.32	1.68
458	7/1/2021 3:45	7/1/2021 3:45	0:00:40	-51.25	-140.53	505.15	-50.79	-136.74	505.01	-143.40	0.60
459	7/1/2021 3:47	7/1/2021 3:50	0:02:10	-48.65	-125.95	504.36	-45.21	-115.53	503.29	-142.01	1.99
460	7/1/2021 3:51	7/1/2021 3:53	0:01:30	-42.27	-109.13	502.38	-38.97	-103.37	501.37	-143.06	0.94
461	7/1/2021 3:54	7/1/2021 3:56	0:01:50	-34.96	-97.63	500.18	-30.22	-92.00	498.85	-142.37	1.63
462	7/1/2021 3:57	7/1/2021 3:59	0:02:00	-27.06	-88.72	498.04	-21.45	-83.53	496.76	-143.40	0.60
463	7/1/2021 4:00	7/1/2021 4:00	0:00:10	-19.05	-81.50	496.29	-18.57	-81.11	496.20	-143.96	0.04
464	7/1/2021 4:03	7/1/2021 4:04	0:01:20	-10.73	-75.03	495.05	-6.76	-72.14	494.71	-143.15	0.85
465	7/1/2021 4:06	7/1/2021 4:07	0:00:30	-0.75	-67.89	494.51	0.75	-66.83	494.52	-143.57	0.43
466	7/1/2021 4:11	7/1/2021 4:11	0:00:20	12.22	-58.58	495.41	13.21	-57.84	495.55	-143.80	0.20
467	7/1/2021 4:11	7/1/2021 4:17	0:05:10	14.68	-56.71	495.78	29.32	-43.68	499.06	-142.08	1.92
468	7/1/2021 4:17	7/1/2021 4:19	0:01:30	31.54	-41.25	499.69	35.37	-36.54	500.83	-143.61	0.39
469	7/1/2021 4:20	7/1/2021 4:21	0:00:30	38.20	-32.55	501.70	39.35	-30.74	502.07	-143.02	0.98
470	7/1/2021 4:21	7/1/2021 4:22	0:01:10	40.85	-28.22	502.54	43.30	-23.53	503.32	-143.63	0.37
471	7/1/2021 4:23	7/1/2021 4:25	0:01:50	45.21	-19.19	503.94	48.19	-10.46	504.89	-143.62	0.38
472	7/1/2021 4:26	7/1/2021 4:26	0:00:00	49.49	-5.29	505.30	49.49	-5.29	505.30	-144.00	0.00
473	7/1/2021 4:28	7/1/2021 4:28	0:00:00	50.79	2.01	505.71	50.79	2.01	505.71	-143.95	0.05
474	7/1/2021 4:29	7/1/2021 4:31	0:01:50	51.68	11.61	505.98	51.64	22.37	505.97	-141.82	2.18
475	7/1/2021 4:32	7/1/2021 4:33	0:01:00	51.37	26.25	505.88	50.69	31.94	505.66	-141.61	2.39
476	7/1/2021 4:58	7/1/2021 5:00	0:02:00	-12.57	109.69	495.20	-18.43	114.28	496.12	-142.64	1.36
477	7/1/2021 5:01	7/1/2021 5:04	0:03:00	-21.31	116.70	496.68	-29.64	124.67	498.67	-142.52	1.48
478	7/1/2021 5:05	7/1/2021 5:06	0:01:00	-32.28	127.62	499.39	-34.84	130.77	500.13	-142.72	1.28
479	7/1/2021 5:08	7/1/2021 5:08	0:00:20	-38.86	136.49	501.33	-39.62	137.71	501.57	-143.22	0.78
480	7/1/2021 5:09	7/1/2021 5:11	0:01:40	-42.86	143.59	502.58	-46.02	150.88	503.57	-143.08	0.92



**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
481	7/1/2021 5:12	7/1/2021 5:16	0:03:50	-47.38	154.83	504.00	-51.40	175.46	505.27	-143.21	0.79
482	7/1/2021 5:17	7/1/2021 5:18	0:01:50	-51.71	-179.68	505.37	-51.60	-168.91	505.35	-142.35	1.65
483	7/1/2021 5:19	7/1/2021 5:20	0:00:30	-51.10	-163.14	505.21	-50.73	-160.31	505.10	-143.41	0.59
484	7/1/2021 5:22	7/1/2021 5:24	0:02:10	-48.55	-149.56	504.44	-45.08	-139.18	503.37	-142.11	1.89
485	7/1/2021 5:26	7/1/2021 5:27	0:01:30	-42.12	-132.82	502.46	-38.80	-127.09	501.45	-143.01	0.99
486	7/1/2021 5:29	7/1/2021 5:31	0:01:50	-34.77	-121.38	500.26	-30.02	-115.77	498.94	-142.22	1.78
487	7/1/2021 5:32	7/1/2021 5:33	0:00:40	-26.39	-112.05	498.02	-24.54	-110.29	497.58	-143.34	0.66
488	7/1/2021 5:33	7/1/2021 5:34	0:00:40	-23.13	-109.00	497.26	-21.24	-107.34	496.85	-143.79	0.21
489	7/1/2021 5:37	7/1/2021 5:39	0:01:10	-10.52	-98.86	495.16	-7.03	-96.32	494.86	-143.40	0.60
490	7/1/2021 5:41	7/1/2021 5:41	0:00:30	-1.03	-92.07	494.63	0.47	-91.01	494.64	-143.52	0.48
491	7/1/2021 5:43	7/1/2021 5:43	0:00:20	5.48	-87.48	494.83	6.48	-86.76	494.91	-143.53	0.47
492	7/1/2021 6:06	7/1/2021 6:06	0:00:00	51.62	-1.19	505.94	51.62	-1.19	505.94	-143.13	0.87
493	7/1/2021 6:06	7/1/2021 6:07	0:01:00	51.32	2.68	505.84	50.63	8.36	505.61	-141.62	2.38
494	7/1/2021 6:09	7/1/2021 6:11	0:02:40	49.05	16.47	505.09	44.86	29.35	503.72	-141.48	2.52
495	7/1/2021 6:13	7/1/2021 6:15	0:02:30	42.57	34.31	502.97	36.94	43.68	501.16	-142.73	1.27
496	7/1/2021 6:16	7/1/2021 6:18	0:01:10	33.63	48.07	500.14	30.59	51.61	499.25	-142.32	1.68
497	7/1/2021 6:44	7/1/2021 6:45	0:01:30	-43.01	119.91	502.67	-45.85	126.46	503.58	-143.06	0.94
498	7/1/2021 6:46	7/1/2021 6:50	0:03:50	-47.50	131.21	504.11	-51.44	151.90	505.40	-143.15	0.85
499	7/1/2021 6:51	7/1/2021 6:53	0:02:00	-51.68	155.79	505.49	-51.57	167.53	505.49	-142.37	1.63
500	7/1/2021 6:54	7/1/2021 6:54	0:00:20	-51.05	173.29	505.34	-50.80	175.18	505.27	-143.44	0.56
501	7/1/2021 6:56	7/1/2021 6:59	0:02:10	-48.45	-173.17	504.58	-44.94	-162.84	503.51	-142.20	1.80
502	7/1/2021 7:00	7/1/2021 7:02	0:01:30	-41.96	-156.51	502.60	-38.63	-150.81	501.58	-142.96	1.04
503	7/1/2021 7:03	7/1/2021 7:05	0:02:00	-34.59	-145.13	500.39	-29.38	-139.07	498.95	-142.07	1.93
504	7/1/2021 7:06	7/1/2021 7:07	0:00:40	-26.19	-135.84	498.15	-24.34	-134.09	497.71	-143.28	0.72
505	7/1/2021 7:08	7/1/2021 7:08	0:00:20	-22.46	-132.38	497.29	-21.51	-131.55	497.09	-143.83	0.17
506	7/1/2021 7:12	7/1/2021 7:13	0:01:10	-10.30	-122.68	495.30	-6.82	-120.15	494.99	-143.61	0.39
507	7/1/2021 7:15	7/1/2021 7:15	0:00:20	-0.81	-115.90	494.77	0.19	-115.20	494.77	-143.49	0.51
508	7/1/2021 7:17	7/1/2021 7:17	0:00:20	5.20	-111.66	494.93	6.20	-110.95	495.00	-143.39	0.61
509	7/1/2021 7:41	7/1/2021 7:42	0:01:00	51.28	-20.89	505.68	50.57	-15.22	505.44	-141.65	2.35
510	7/1/2021 7:43	7/1/2021 7:45	0:02:10	48.96	-7.13	504.90	45.64	3.44	503.80	-141.56	2.44
511	7/1/2021 7:46	7/1/2021 7:46	0:00:00	44.72	5.68	503.50	44.72	5.68	503.50	-143.85	0.15
512	7/1/2021 7:47	7/1/2021 7:49	0:02:20	42.42	10.62	502.74	37.17	19.37	501.05	-142.58	1.42
513	7/1/2021 7:51	7/1/2021 7:52	0:00:50	33.44	24.31	499.91	31.28	26.85	499.27	-142.31	1.69
514	7/1/2021 8:06	7/1/2021 8:06	0:00:00	-10.53	60.20	494.75	-10.53	60.20	494.75	-143.97	0.03
515	7/1/2021 8:07	7/1/2021 8:08	0:01:40	-12.51	61.67	494.98	-17.41	65.48	495.74	-143.17	0.83
516	7/1/2021 8:41	7/1/2021 8:41	0:00:30	-25.99	-159.63	498.10	-24.60	-158.31	497.77	-143.53	0.47
517	7/1/2021 8:42	7/1/2021 8:43	0:00:20	-22.25	-156.18	497.24	-21.30	-155.35	497.04	-143.85	0.15
518	7/1/2021 8:47	7/1/2021 8:47	0:00:40	-9.58	-146.14	495.24	-7.59	-144.70	495.06	-143.77	0.23
519	7/1/2021 8:49	7/1/2021 8:50	0:00:30	-1.09	-140.08	494.79	0.41	-139.03	494.79	-143.41	0.59
520	7/1/2021 8:51	7/1/2021 8:52	0:00:30	4.92	-135.85	494.94	6.42	-134.78	495.03	-143.27	0.73
521	7/1/2021 8:53	7/1/2021 8:53	0:00:20	8.91	-132.98	495.25	9.90	-132.26	495.35	-143.11	0.89
522	7/1/2021 8:54	7/1/2021 8:54	0:00:30	11.88	-130.79	495.59	13.36	-129.67	495.79	-143.68	0.32
523	7/1/2021 9:18	7/1/2021 9:20	0:02:10	48.87	-30.73	504.89	45.51	-20.21	503.77	-141.71	2.29
524	7/1/2021 9:20	7/1/2021 9:20	0:00:00	44.59	-17.98	503.47	44.59	-17.98	503.47	-143.81	0.19
525	7/1/2021 9:21	7/1/2021 9:24	0:02:30	42.61	-13.74	502.82	36.99	-4.35	501.00	-142.67	1.33
526	7/1/2021 9:25	7/1/2021 9:26	0:00:50	33.26	0.56	499.85	31.09	3.09	499.21	-142.55	1.45
527	7/1/2021 9:41	7/1/2021 9:41	0:00:00	-10.75	36.38	494.73	-10.75	36.38	494.73	-143.84	0.16
528	7/1/2021 9:41	7/1/2021 9:42	0:01:20	-12.24	37.48	494.90	-16.16	40.50	495.48	-143.25	0.75
529	7/1/2021 9:45	7/1/2021 9:47	0:02:20	-22.89	46.13	496.80	-29.34	52.39	498.41	-142.37	1.63
530	7/1/2021 9:49	7/1/2021 9:50	0:01:00	-33.29	56.86	499.52	-35.80	60.09	500.27	-142.92	1.08
531	7/1/2021 10:24	7/1/2021 10:24	0:00:40	-1.37	-164.26	494.74	0.64	-162.85	494.75	-143.47	0.53
532	7/1/2021 10:26	7/1/2021 10:26	0:00:30	5.14	-159.67	494.91	6.64	-158.60	495.01	-143.38	0.62
533	7/1/2021 10:27	7/1/2021 10:27	0:00:10	9.13	-156.80	495.23	9.63	-156.44	495.28	-143.32	0.68
534	7/1/2021 10:28	7/1/2021 10:29	0:00:40	11.61	-154.98	495.52	13.58	-153.49	495.79	-143.46	0.54
535	7/1/2021 10:29	7/1/2021 10:35	0:05:10	15.54	-151.98	496.09	30.11	-138.78	499.36	-142.01	1.99
536	7/1/2021 10:58	7/1/2021 10:58	0:00:20	37.61	-29.23	501.21	36.81	-28.08	500.96	-143.14	0.86
537	7/1/2021 11:00	7/1/2021 11:01	0:00:50	33.07	-23.19	499.81	30.89	-20.67	499.17	-142.65	1.35
538	7/1/2021 11:15	7/1/2021 11:17	0:01:50	-10.97	12.56	494.78	-16.38	16.69	495.54	-143.12	0.88
539	7/1/2021 11:18	7/1/2021 11:18	0:00:00	-20.25	19.85	496.26	-20.25	19.85	496.26	-144.00	0.00
540	7/1/2021 11:19	7/1/2021 11:22	0:02:30	-22.63	21.92	496.76	-29.54	28.62	498.47	-142.34	1.66



**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
541	7/1/2021 11:23	7/1/2021 11:24	0:01:00	-33.48	33.11	499.58	-35.99	36.35	500.32	-142.99	1.01
542	7/1/2021 11:27	7/1/2021 11:29	0:01:20	-43.46	48.89	502.65	-45.95	54.77	503.45	-143.11	0.89
543	7/1/2021 11:30	7/1/2021 11:30	0:00:30	-47.58	59.53	503.97	-48.31	62.02	504.21	-143.42	0.58
544	7/1/2021 11:55	7/1/2021 11:56	0:00:50	-10.63	165.13	495.20	-8.14	166.94	494.97	-143.79	0.21
545	7/1/2021 11:57	7/1/2021 11:57	0:00:00	-5.15	169.09	494.77	-5.15	169.09	494.77	-143.96	0.04
546	7/1/2021 11:58	7/1/2021 11:59	0:00:50	-1.64	171.56	494.66	0.86	173.33	494.67	-143.55	0.45
547	7/1/2021 12:00	7/1/2021 12:01	0:00:40	4.87	176.15	494.82	6.87	177.58	494.96	-143.47	0.53
548	7/1/2021 12:02	7/1/2021 12:02	0:00:20	8.86	179.02	495.14	9.85	179.74	495.24	-143.39	0.61
549	7/1/2021 12:02	7/1/2021 12:03	0:00:50	11.34	-179.16	495.42	13.81	-177.30	495.76	-143.16	0.84
550	7/1/2021 12:04	7/1/2021 12:09	0:05:00	16.25	-175.40	496.16	30.31	-162.54	499.39	-141.92	2.08
551	7/1/2021 12:10	7/1/2021 12:11	0:01:30	32.07	-160.56	499.89	35.87	-155.79	501.01	-143.65	0.35
552	7/1/2021 12:12	7/1/2021 12:13	0:00:40	38.28	-152.34	501.74	39.81	-149.91	502.22	-142.92	1.08
553	7/1/2021 12:14	7/1/2021 12:15	0:01:00	41.29	-147.36	502.68	43.37	-143.30	503.34	-143.71	0.29
554	7/1/2021 12:16	7/1/2021 12:16	0:00:20	45.28	-138.95	503.94	45.87	-137.44	504.13	-143.64	0.36
555	7/1/2021 12:50	7/1/2021 12:51	0:01:40	-11.20	-11.26	494.93	-16.11	-7.50	495.61	-142.98	1.02
556	7/1/2021 12:54	7/1/2021 12:56	0:02:50	-22.84	-1.88	496.91	-30.63	5.82	498.86	-141.98	2.02
557	7/1/2021 12:58	7/1/2021 12:59	0:01:00	-33.67	9.37	499.72	-36.17	12.62	500.45	-143.01	0.99
558	7/1/2021 13:02	7/1/2021 13:03	0:01:20	-43.28	24.51	502.65	-45.79	30.36	503.45	-143.15	0.85
559	7/1/2021 13:04	7/1/2021 13:06	0:01:30	-47.69	35.91	504.05	-49.67	43.64	504.68	-143.22	0.78
560	7/1/2021 13:06	7/1/2021 13:08	0:02:10	-50.19	46.35	504.85	-51.62	58.67	505.30	-143.46	0.54
561	7/1/2021 13:39	7/1/2021 13:44	0:04:20	18.41	162.35	496.46	30.51	173.70	499.37	-141.82	2.18
562	7/1/2021 13:44	7/1/2021 13:46	0:01:20	32.26	175.69	499.87	35.65	179.92	500.87	-143.64	0.36
563	7/1/2021 13:47	7/1/2021 13:47	0:00:40	38.45	-176.06	501.73	39.98	-173.61	502.21	-142.89	1.11
564	7/1/2021 13:48	7/1/2021 13:49	0:01:00	41.45	-171.04	502.68	43.52	-166.97	503.33	-143.72	0.28
565	7/1/2021 13:50	7/1/2021 13:52	0:02:00	45.41	-162.60	503.94	48.58	-152.96	504.94	-143.55	0.45
566	7/1/2021 13:54	7/1/2021 13:55	0:00:10	51.00	-140.32	505.70	51.11	-139.37	505.73	-143.60	0.40
567	7/1/2021 14:24	7/1/2021 14:26	0:01:40	-11.42	-35.08	495.09	-16.33	-31.31	495.80	-142.79	1.21
568	7/1/2021 14:28	7/1/2021 14:31	0:03:00	-22.58	-26.09	497.01	-30.82	-17.95	499.07	-141.48	2.52
569	7/1/2021 14:32	7/1/2021 14:33	0:00:50	-33.85	-14.38	499.93	-35.94	-11.67	500.55	-143.02	0.98
570	7/1/2021 14:34	7/1/2021 14:34	0:00:00	-39.12	-7.01	501.51	-39.12	-7.01	501.51	-143.95	0.05
571	7/1/2021 14:36	7/1/2021 14:37	0:01:10	-43.42	0.84	502.86	-45.63	5.95	503.55	-143.19	0.81
572	7/1/2021 14:39	7/1/2021 14:39	0:00:20	-47.80	12.29	504.24	-48.28	13.96	504.39	-143.47	0.53
573	7/1/2021 14:42	7/1/2021 14:43	0:01:00	-51.19	29.32	505.30	-51.65	35.11	505.44	-143.52	0.48
574	7/1/2021 14:43	7/1/2021 14:45	0:02:00	-51.76	38.04	505.48	-51.42	49.76	505.38	-142.40	1.60
575	7/1/2021 14:46	7/1/2021 14:47	0:00:10	-50.78	55.47	505.18	-50.64	56.41	505.14	-143.53	0.47
576	7/1/2021 14:49	7/1/2021 14:51	0:02:00	-47.68	69.60	504.21	-44.25	78.87	503.13	-142.43	1.57
577	7/1/2021 14:53	7/1/2021 14:55	0:01:50	-40.81	85.68	502.05	-36.56	92.32	500.75	-142.60	1.40
578	7/1/2021 14:56	7/1/2021 14:58	0:02:30	-33.23	96.66	499.77	-26.55	103.90	497.97	-141.88	2.12
579	7/1/2021 14:59	7/1/2021 14:59	0:00:00	-23.76	106.53	497.30	-23.76	106.53	497.30	-143.97	0.03
580	7/1/2021 15:01	7/1/2021 15:01	0:00:20	-20.45	109.44	496.58	-19.49	110.25	496.39	-143.60	0.40
581	7/1/2021 15:03	7/1/2021 15:05	0:01:50	-13.65	114.90	495.41	-8.20	118.94	494.79	-143.68	0.32
582	7/1/2021 15:07	7/1/2021 15:08	0:00:40	-0.70	124.26	494.45	1.31	125.67	494.47	-143.62	0.38
583	7/1/2021 15:09	7/1/2021 15:09	0:00:20	3.31	127.08	494.52	4.31	127.79	494.57	-143.64	0.36
584	7/1/2021 15:09	7/1/2021 15:10	0:00:20	5.81	128.86	494.66	6.81	129.57	494.73	-143.62	0.38
585	7/1/2021 15:11	7/1/2021 15:15	0:03:30	10.79	132.47	495.12	21.02	140.56	496.84	-142.64	1.36
586	7/1/2021 15:17	7/1/2021 15:18	0:00:40	28.92	148.01	498.76	30.71	149.93	499.25	-143.43	0.57
587	7/1/2021 15:19	7/1/2021 15:20	0:01:20	32.45	151.93	499.74	35.83	156.18	500.74	-143.64	0.36
588	7/1/2021 15:21	7/1/2021 15:22	0:00:50	38.24	159.63	501.48	40.15	162.69	502.08	-142.99	1.01
589	7/1/2021 15:23	7/1/2021 15:23	0:00:50	41.61	165.26	502.54	43.33	168.66	503.09	-143.76	0.24
590	7/1/2021 15:25	7/1/2021 15:27	0:02:00	45.55	173.75	503.79	48.68	-176.56	504.79	-143.46	0.54
591	7/1/2021 15:29	7/1/2021 15:29	0:00:10	51.05	-163.88	505.54	51.16	-162.93	505.57	-143.45	0.55
592	7/1/2021 15:30	7/1/2021 15:33	0:02:10	51.72	-155.20	505.75	51.44	-142.50	505.67	-141.78	2.22
593	7/1/2021 15:33	7/1/2021 15:34	0:01:00	51.06	-138.67	505.55	50.23	-133.07	505.29	-141.67	2.33
594	7/1/2021 15:36	7/1/2021 15:39	0:02:40	48.24	-124.28	504.66	43.69	-111.89	503.21	-142.30	1.70
595	7/1/2021 15:39	7/1/2021 15:42	0:02:30	41.99	-108.46	502.67	36.27	-99.26	500.89	-142.76	1.24
596	7/1/2021 15:44	7/1/2021 15:44	0:00:40	31.62	-93.44	499.52	29.85	-91.48	499.02	-143.03	0.97
597	7/1/2021 15:45	7/1/2021 15:18	#####	27.60	-89.13	498.42	30.71	149.93	499.25	-143.43	0.57
598	7/1/2021 15:19	7/1/2021 15:20	0:01:20	32.45	151.93	499.74	35.83	156.18	500.74	-143.64	0.36
599	7/1/2021 15:21	7/1/2021 15:22	0:00:50	38.24	159.63	501.48	40.15	162.69	502.08	-142.99	1.01
600	7/1/2021 15:23	7/1/2021 15:23	0:00:50	41.61	165.26	502.54	43.33	168.66	503.09	-143.76	0.24

**Table 10 Departure TRDS SMA (6M16G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
601	7/1/2021 15:25	7/1/2021 15:27	0:02:00	45.55	173.75	503.79	48.68	-176.56	504.79	-143.46	0.54
602	7/1/2021 15:29	7/1/2021 15:29	0:00:10	51.05	-163.88	505.54	51.16	-162.93	505.57	-143.45	0.55
603	7/1/2021 15:30	7/1/2021 15:33	0:02:10	51.72	-155.20	505.75	51.44	-142.50	505.67	-141.78	2.22
604	7/1/2021 15:33	7/1/2021 15:34	0:01:00	51.06	-138.67	505.55	50.23	-133.07	505.29	-141.67	2.33
605	7/1/2021 15:36	7/1/2021 15:39	0:02:40	48.24	-124.28	504.66	43.69	-111.89	503.21	-142.30	1.70
606	7/1/2021 15:39	7/1/2021 15:42	0:02:30	41.99	-108.46	502.67	36.27	-99.26	500.89	-142.76	1.24
607	7/1/2021 15:44	7/1/2021 15:44	0:00:40	31.62	-93.44	499.52	29.85	-91.48	499.02	-143.03	0.97
608	7/1/2021 15:45	7/1/2021 15:45	0:00:00	27.60	-89.13	498.42	27.60	-89.13	498.42	-143.97	0.03
609	7/1/2021 15:57	7/1/2021 16:17	0:19:50	-8.16	-61.44	494.81	-51.61	10.49	501.90	-141.61	2.39
610	7/1/2021 16:20	7/1/2021 16:22	0:01:50	-51.31	27.02	497.62	-49.79	37.23	493.27	-142.60	1.40
611	7/1/2021 16:24	7/1/2021 16:26	0:02:20	-47.62	45.82	488.26	-43.51	56.49	479.72	-142.27	1.73
612	7/1/2021 16:27	7/1/2021 16:29	0:02:10	-41.08	61.22	474.88	-36.02	69.08	465.02	-142.07	1.93
613	7/1/2021 16:30	7/1/2021 16:36	0:06:00	-34.35	71.27	461.80	-17.70	87.74	430.81	-141.00	3.00
614	7/1/2021 16:37	7/1/2021 16:55	0:18:40	-15.23	89.71	426.44	39.32	137.47	363.32	-139.41	4.59
615	7/1/2021 16:58	7/1/2021 17:30	0:32:00	45.06	148.71	361.84	-7.88	-85.22	362.88	-139.61	4.39
616	7/1/2021 17:45	7/1/2021 18:02	0:17:20	-47.16	-37.21	372.65	-32.55	50.15	361.12	-139.88	4.12
617	7/1/2021 18:05	7/1/2021 18:18	0:12:40	-24.65	58.41	357.64	14.03	87.71	350.90	-139.39	4.61
618	7/1/2021 18:21	7/1/2021 19:09	0:48:20	22.51	94.68	352.04	-29.76	-89.90	368.15	-138.88	5.12
619	7/1/2021 19:12	7/1/2021 19:45	0:33:10	-37.19	-80.69	370.24	0.37	54.50	350.99	-139.02	4.98
620	7/1/2021 19:48	7/1/2021 20:07	0:19:10	9.15	60.76	350.62	51.70	133.78	350.94	-140.82	3.18
621	7/1/2021 20:10	7/1/2021 20:44	0:34:00	51.08	150.84	343.56	-40.11	-99.24	198.31	-134.17	9.83
622	7/1/2021 20:47	7/1/2021 21:08	0:21:00	-45.88	-87.20	198.96	-22.15	14.53	264.26	-134.94	9.06
623	7/1/2021 21:10	7/1/2021 21:44	0:34:00	-14.02	21.20	277.25	44.95	152.11	325.08	-138.19	5.81
624	7/1/2021 21:47	7/1/2021 22:17	0:29:30	38.77	163.96	310.30	-46.28	-108.96	199.08	-134.45	9.55
625	7/1/2021 22:19	7/1/2021 22:50	0:30:20	-50.18	-94.31	202.05	15.68	20.03	322.85	-134.76	9.24
626	7/1/2021 22:52	7/1/2021 23:34	0:41:30	23.62	26.71	333.74	-11.90	-174.42	217.95	-136.94	7.06
627	7/1/2021 23:44	7/2/2021 0:27	0:43:30	-41.15	-143.11	198.26	38.15	20.56	349.29	-134.64	9.36

**Max. Exceedance: 9.83 dB**

**Table 11 Departure GN 6 Mbps (4M98G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	6/30/2021 2:42	6/30/2021 2:43	0:00:10	-37.47	-77.36	501.15	-37.07	-76.78	501.04	-143.86	0.14
2	6/30/2021 11:13	6/30/2021 11:13	0:00:20	51.44	-70.81	505.56	51.27	-68.89	505.49	-143.17	0.83
3	6/30/2021 11:15	6/30/2021 11:15	0:00:10	49.53	-57.78	504.86	49.33	-56.90	504.79	-143.53	0.47
4	6/30/2021 12:50	6/30/2021 12:50	0:00:20	49.44	-81.35	504.91	49.03	-79.60	504.76	-143.44	0.56
5	6/30/2021 19:41	6/30/2021 19:41	0:00:10	-38.22	-80.61	501.11	-38.61	-80.01	501.24	-143.57	0.43
6	7/1/2021 5:49	7/1/2021 5:50	0:01:00	24.95	-72.02	497.98	27.72	-69.33	498.69	-143.61	0.39
7	7/1/2021 10:48	7/1/2021 10:48	0:00:50	51.79	-80.65	505.87	51.74	-75.75	505.84	-143.31	0.69
8	7/1/2021 10:50	7/1/2021 10:51	0:00:20	50.86	-65.16	505.54	50.59	-63.29	505.45	-143.18	0.82
9	7/1/2021 12:25	7/1/2021 12:25	0:00:10	50.67	-87.78	505.55	50.52	-86.85	505.50	-143.18	0.82
10	7/1/2021 12:27	7/1/2021 12:28	0:00:20	47.97	-75.39	504.67	47.48	-73.75	504.50	-143.28	0.72
11	7/1/2021 17:35	7/1/2021 17:38	0:03:10	-21.96	-74.16	365.98	-30.93	-65.33	368.45	-140.82	3.18
12	7/1/2021 17:39	7/1/2021 17:40	0:01:30	-33.17	-62.72	369.09	-37.01	-57.66	370.17	-141.89	2.11

**Max. Exceedance: 3.18**

**dB**

**Table 12 Departure GN 3 Mbps (3M00G1D) PFD Exceedances**

	Start Time	Stop Time	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	6/30/2021 1:03	6/30/2021 1:08	0:04:50	-47.36	-73.75	504.18	-37.65	-53.64	501.30	-141.03	2.97
2	6/30/2021 2:40	6/30/2021 2:45	0:04:30	-41.98	-84.83	502.49	-31.17	-69.32	499.39	-140.85	3.15
3	6/30/2021 2:45	6/30/2021 2:46	0:00:30	-29.84	-67.86	499.04	-28.50	-66.44	498.69	-142.91	1.09
4	6/30/2021 2:47	6/30/2021 2:47	0:00:50	-26.67	-64.60	498.24	-24.36	-62.40	497.70	-142.97	1.03
5	6/30/2021 2:48	6/30/2021 2:48	0:00:20	-22.95	-61.11	497.39	-22.00	-60.28	497.19	-142.36	1.64
6	6/30/2021 6:12	6/30/2021 6:19	0:07:30	20.85	-75.94	497.31	40.38	-53.26	502.53	-141.49	2.51
7	6/30/2021 7:51	6/30/2021 7:58	0:07:30	33.77	-86.81	500.58	48.91	-55.98	505.03	-141.59	2.41
8	6/30/2021 11:11	6/30/2021 11:15	0:04:20	51.78	-81.55	505.75	49.33	-56.90	504.79	-140.16	3.84
9	6/30/2021 12:49	6/30/2021 12:56	0:07:30	50.47	-86.78	505.27	37.30	-53.00	500.82	-140.43	3.57
10	6/30/2021 19:39	6/30/2021 19:45	0:06:20	-32.86	-87.79	499.49	-46.68	-63.40	503.83	-140.56	3.44
11	7/1/2021 5:48	7/1/2021 5:55	0:07:10	20.71	-75.81	497.01	39.52	-54.45	502.15	-140.60	3.40
12	7/1/2021 7:27	7/1/2021 7:30	0:02:50	32.78	-87.76	500.11	39.68	-78.17	502.17	-141.27	2.73
13	7/1/2021 7:30	7/1/2021 7:34	0:04:20	40.80	-76.28	502.52	48.62	-56.85	504.95	-142.05	1.95
14	7/1/2021 9:08	7/1/2021 9:13	0:04:20	47.79	-83.82	504.72	51.69	-60.04	505.87	-142.29	1.71
15	7/1/2021 10:47	7/1/2021 10:51	0:04:00	51.74	-82.61	505.87	49.95	-59.62	505.24	-140.17	3.83
16	7/1/2021 12:25	7/1/2021 12:26	0:01:00	50.67	-87.78	505.55	49.69	-82.30	505.23	-140.17	3.83
17	7/1/2021 12:27	7/1/2021 12:32	0:05:50	48.89	-78.79	504.97	37.83	-53.54	501.38	-140.27	3.73
18	7/1/2021 14:05	7/1/2021 14:12	0:06:50	42.14	-84.77	502.81	25.04	-62.66	497.79	-141.21	2.79
19	7/1/2021 17:35	7/1/2021 17:40	0:05:40	-21.96	-74.16	365.98	-37.43	-57.07	370.28	-137.81	6.19

**Max. Exceedance: 6.19 dB**

**Table 13 Departure CLS LowRate (5M93G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
1	6/29/2021 17:22	6/29/2021 17:22	0:00:00	-31.81	72.89	436.13	-31.81	72.89	436.13	-142.91	1.09
2	6/29/2021 17:48	6/29/2021 17:49	0:00:40	42.87	142.34	426.53	44.22	145.21	426.66	-143.71	0.29
3	6/29/2021 17:50	6/29/2021 17:52	0:02:00	45.48	148.22	426.78	48.67	158.07	427.01	-142.43	1.57
4	6/29/2021 17:52	6/29/2021 17:53	0:01:00	49.52	161.62	427.05	50.55	167.17	427.05	-142.11	1.89
5	6/29/2021 17:54	6/29/2021 17:54	0:00:10	51.08	170.99	427.02	51.18	171.96	427.00	-143.74	0.26
6	6/29/2021 18:35	6/29/2021 18:35	0:00:10	-42.68	-49.84	437.16	-43.02	-49.14	437.35	-143.81	0.19
7	6/29/2021 18:35	6/29/2021 18:36	0:00:50	-44.36	-46.27	438.06	-45.90	-42.48	438.90	-142.71	1.29
8	6/29/2021 18:37	6/29/2021 18:39	0:01:40	-47.03	-39.30	439.53	-49.39	-30.76	440.88	-143.03	0.97
9	6/29/2021 18:40	6/29/2021 18:40	0:00:30	-50.45	-25.26	441.53	-50.87	-22.42	441.82	-143.22	0.78
10	6/29/2021 19:21	6/29/2021 19:22	0:00:40	42.94	118.86	426.62	44.28	121.74	426.75	-143.70	0.30
11	6/29/2021 19:23	6/29/2021 19:25	0:02:00	45.54	124.75	426.87	48.72	134.62	427.12	-142.41	1.59
12	6/29/2021 19:25	6/29/2021 19:26	0:01:10	49.56	138.18	427.15	50.72	144.68	427.15	-142.05	1.95
13	6/29/2021 19:27	6/29/2021 19:27	0:00:10	51.10	147.56	427.13	51.20	148.53	427.11	-143.76	0.24
14	6/29/2021 20:08	6/29/2021 20:08	0:00:10	-42.75	-73.33	437.17	-43.09	-72.63	437.35	-143.79	0.21
15	6/29/2021 20:08	6/29/2021 20:09	0:00:50	-44.42	-69.75	438.06	-45.96	-65.95	438.89	-142.73	1.27
16	6/29/2021 20:10	6/29/2021 20:12	0:01:40	-47.08	-62.77	439.51	-49.43	-54.20	440.85	-143.04	0.96
17	6/29/2021 20:13	6/29/2021 20:13	0:00:30	-50.48	-48.70	441.49	-50.90	-45.86	441.77	-143.23	0.77
18	6/29/2021 20:52	6/29/2021 20:53	0:00:40	38.56	87.51	426.17	40.11	90.01	426.33	-142.76	1.24
19	6/29/2021 20:59	6/29/2021 21:00	0:01:00	50.30	118.41	427.19	51.12	124.13	427.15	-143.33	0.67
20	6/29/2021 21:01	6/29/2021 21:12	0:11:20	51.49	128.04	427.09	37.87	-174.08	425.25	-142.47	1.53
21	6/29/2021 21:39	6/29/2021 21:39	0:00:00	-38.85	-103.87	485.37	-38.85	-103.87	485.37	-143.50	0.50
22	6/29/2021 21:58	6/29/2021 21:58	0:00:30	-40.37	-9.99	502.00	-39.24	-8.12	501.65	-143.92	0.08
23	6/29/2021 22:30	6/29/2021 22:31	0:00:30	46.74	80.57	503.96	47.53	82.98	504.21	-143.90	0.10
24	6/29/2021 22:33	6/29/2021 22:33	0:00:20	50.25	94.27	505.06	50.56	96.11	505.15	-143.55	0.45
25	6/29/2021 23:17	6/29/2021 23:17	0:00:00	-45.28	-115.35	503.15	-45.28	-115.35	503.15	-143.94	0.06
26	6/30/2021 0:05	6/30/2021 0:05	0:00:20	46.91	57.06	504.39	47.43	58.67	504.55	-143.88	0.12
27	6/30/2021 0:07	6/30/2021 0:08	0:00:10	50.35	70.84	505.39	50.50	71.76	505.43	-143.63	0.37
28	6/30/2021 0:51	6/30/2021 0:51	0:00:00	-45.41	-139.00	503.16	-45.41	-139.00	503.16	-143.94	0.06
29	6/30/2021 1:39	6/30/2021 1:40	0:00:20	47.03	33.45	504.43	47.55	35.07	504.59	-143.86	0.14
30	6/30/2021 1:42	6/30/2021 1:42	0:00:10	50.42	47.28	505.41	50.57	48.20	505.45	-143.59	0.41
31	6/30/2021 2:26	6/30/2021 2:26	0:00:00	-45.55	-162.63	503.15	-45.55	-162.63	503.15	-143.96	0.04
32	6/30/2021 3:14	6/30/2021 3:14	0:00:20	47.15	9.84	504.52	47.67	11.46	504.68	-143.86	0.14
33	6/30/2021 3:16	6/30/2021 3:17	0:00:20	50.34	22.80	505.46	50.63	24.65	505.54	-143.56	0.44
34	6/30/2021 4:00	6/30/2021 4:00	0:00:00	-45.69	173.73	503.18	-45.69	173.73	503.18	-143.99	0.01
35	6/30/2021 4:48	6/30/2021 4:49	0:00:20	47.27	-13.78	504.62	47.78	-12.14	504.77	-143.88	0.12
36	6/30/2021 4:51	6/30/2021 4:51	0:00:20	50.41	-0.76	505.54	50.70	1.10	505.62	-143.53	0.47
37	6/30/2021 6:23	6/30/2021 6:23	0:00:30	47.13	-38.20	504.58	47.89	-35.75	504.81	-143.91	0.09
38	6/30/2021 6:25	6/30/2021 6:26	0:00:20	50.47	-24.33	505.56	50.75	-22.47	505.63	-143.51	0.49
39	6/30/2021 7:57	6/30/2021 7:58	0:00:30	47.24	-61.83	504.54	48.00	-59.37	504.76	-143.92	0.08
40	6/30/2021 8:00	6/30/2021 8:00	0:00:20	50.54	-47.90	505.47	50.81	-46.04	505.54	-143.48	0.52
41	6/30/2021 8:43	6/30/2021 8:43	0:00:00	-45.79	102.06	503.25	-45.79	102.06	503.25	-144.00	0.00
42	6/30/2021 9:32	6/30/2021 9:32	0:00:20	47.36	-85.45	504.60	47.87	-83.81	504.75	-143.91	0.09
43	6/30/2021 9:34	6/30/2021 9:35	0:00:20	50.60	-71.46	505.51	50.87	-69.59	505.58	-143.48	0.52
44	6/30/2021 10:18	6/30/2021 10:18	0:00:00	-45.93	78.43	503.23	-45.93	78.43	503.23	-143.99	0.01
45	6/30/2021 11:06	6/30/2021 11:06	0:00:20	47.48	-109.06	504.62	47.98	-107.41	504.76	-143.90	0.10
46	6/30/2021 11:09	6/30/2021 11:09	0:00:20	50.67	-95.02	505.51	50.93	-93.14	505.58	-143.51	0.49
47	6/30/2021 11:52	6/30/2021 11:52	0:00:00	-46.06	54.80	503.25	-46.06	54.80	503.25	-144.00	0.00
48	6/30/2021 12:41	6/30/2021 12:41	0:00:20	47.60	-132.66	504.69	48.09	-131.00	504.83	-143.88	0.12
49	6/30/2021 12:43	6/30/2021 12:44	0:00:20	50.73	-118.57	505.58	50.99	-116.69	505.64	-143.54	0.46
50	6/30/2021 14:15	6/30/2021 14:15	0:00:20	47.72	-156.26	504.69	48.20	-154.60	504.83	-143.87	0.13
51	6/30/2021 14:18	6/30/2021 14:18	0:00:20	50.79	-142.12	505.58	51.04	-140.23	505.64	-143.57	0.43
52	6/30/2021 15:50	6/30/2021 15:50	0:00:20	47.83	-179.87	504.53	48.31	-178.20	504.68	-143.87	0.13
53	6/30/2021 15:52	6/30/2021 15:53	0:00:20	50.85	-165.67	505.42	51.09	-163.78	505.48	-143.59	0.41
54	6/30/2021 16:20	6/30/2021 16:22	0:02:20	-3.86	-64.76	494.02	-10.84	-59.73	494.57	-143.99	0.01
55	6/30/2021 17:24	6/30/2021 17:24	0:00:30	47.69	155.71	504.47	48.41	158.21	504.68	-143.89	0.11
56	6/30/2021 17:27	6/30/2021 17:27	0:00:30	50.78	169.84	505.37	51.14	172.68	505.47	-143.62	0.38
57	6/30/2021 17:50	6/30/2021 17:56	0:06:30	9.41	-98.17	494.53	-10.08	-84.28	494.58	-143.99	0.01
58	6/30/2021 18:58	6/30/2021 18:59	0:00:30	47.79	132.04	504.66	48.50	134.56	504.87	-143.90	0.10
59	6/30/2021 19:01	6/30/2021 19:02	0:00:30	50.83	146.22	505.57	51.18	149.06	505.66	-143.63	0.37
60	6/30/2021 20:33	6/30/2021 20:33	0:00:30	47.90	108.43	504.69	48.60	110.95	504.90	-143.92	0.08



**Table 13 Departure CLS LowRate (5M93G1D) PFD Exceedances**

	Start Time (GMT)	Stop Time (GMT)	Duration (h:mm:ss)	Start Lat (deg)	Start Lon (deg)	Start Alt (km)	Stop Lat (deg)	Stop Lon (deg)	Stop Alt (km)	Max PFD (dBW/m <sup>2</sup> /4kHz)	PFD Non-Compliance (dB)
61	6/30/2021 20:36	6/30/2021 20:36	0:00:30	50.89	122.65	505.59	51.22	125.50	505.69	-143.64	0.36
62	6/30/2021 22:07	6/30/2021 22:08	0:00:30	48.01	84.81	504.70	48.70	87.35	504.92	-143.89	0.11
63	6/30/2021 22:10	6/30/2021 22:10	0:00:20	50.94	99.09	505.60	51.17	100.99	505.67	-143.62	0.38
64	6/30/2021 22:37	6/30/2021 22:37	0:00:00	-2.26	-161.83	494.38	-2.26	-161.83	494.38	-144.00	0.00
65	6/30/2021 23:42	6/30/2021 23:42	0:00:20	48.11	61.20	504.76	48.58	62.88	504.90	-143.90	0.10
66	6/30/2021 23:45	6/30/2021 23:45	0:00:20	51.00	75.52	505.64	51.21	77.42	505.71	-143.61	0.39
67	7/1/2021 1:16	7/1/2021 1:17	0:00:20	48.22	37.59	504.79	48.68	39.28	504.93	-143.90	0.10
68	7/1/2021 1:19	7/1/2021 1:19	0:00:20	51.05	51.96	505.66	51.26	53.87	505.73	-143.59	0.41
69	7/1/2021 2:51	7/1/2021 2:51	0:00:20	48.33	13.98	504.88	48.78	15.69	505.02	-143.89	0.11
70	7/1/2021 2:54	7/1/2021 2:54	0:00:20	51.10	28.41	505.75	51.30	30.32	505.81	-143.59	0.41
71	7/1/2021 4:25	7/1/2021 4:26	0:00:30	48.19	-10.46	504.89	48.87	-7.91	505.11	-143.89	0.11
72	7/1/2021 4:28	7/1/2021 4:28	0:00:20	51.14	4.85	505.82	51.34	6.76	505.88	-143.58	0.42
73	7/1/2021 6:00	7/1/2021 6:00	0:00:30	48.30	-34.08	504.94	48.96	-31.52	505.15	-143.89	0.11
74	7/1/2021 6:03	7/1/2021 6:03	0:00:20	51.19	-18.72	505.83	51.38	-16.80	505.89	-143.57	0.43
75	7/1/2021 7:34	7/1/2021 7:35	0:00:30	48.40	-57.70	504.88	49.06	-55.13	505.08	-143.89	0.11
76	7/1/2021 7:37	7/1/2021 7:37	0:00:30	51.13	-43.25	505.70	51.41	-40.37	505.78	-143.57	0.43
77	7/1/2021 9:09	7/1/2021 9:09	0:00:30	48.50	-81.31	504.93	49.15	-78.73	505.13	-143.89	0.11
78	7/1/2021 9:11	7/1/2021 9:12	0:00:30	51.18	-66.81	505.73	51.45	-63.93	505.81	-143.60	0.40
79	7/1/2021 10:43	7/1/2021 10:44	0:00:30	48.60	-104.91	504.94	49.24	-102.32	505.14	-143.88	0.12
80	7/1/2021 10:46	7/1/2021 10:46	0:00:30	51.22	-90.36	505.73	51.48	-87.48	505.80	-143.61	0.39
81	7/1/2021 12:18	7/1/2021 12:18	0:00:20	48.70	-128.51	505.01	49.13	-126.78	505.15	-143.88	0.12
82	7/1/2021 12:20	7/1/2021 12:21	0:00:30	51.27	-113.91	505.79	51.52	-111.02	505.87	-143.63	0.37
83	7/1/2021 13:52	7/1/2021 13:53	0:00:20	48.80	-152.10	505.01	49.22	-150.37	505.15	-143.88	0.12
84	7/1/2021 13:55	7/1/2021 13:55	0:00:30	51.31	-137.46	505.79	51.55	-134.57	505.87	-143.65	0.35
85	7/1/2021 15:27	7/1/2021 15:27	0:00:30	48.68	-176.56	504.79	49.31	-173.96	504.99	-143.89	0.11
86	7/1/2021 15:29	7/1/2021 15:30	0:00:30	51.35	-161.02	505.64	51.58	-158.12	505.71	-143.67	0.33
87	7/1/2021 15:58	7/1/2021 15:58	0:00:00	-8.66	-61.08	494.85	-8.66	-61.08	494.85	-143.87	0.13
88	7/1/2021 16:20	7/1/2021 16:20	0:00:00	-51.10	28.92	496.92	-51.10	28.92	496.92	-143.79	0.21
89	7/1/2021 16:45	7/1/2021 17:08	0:22:50	11.22	108.86	386.51	49.63	-153.70	363.46	-140.86	3.14
90	7/1/2021 17:43	7/1/2021 17:43	0:00:10	-42.78	-47.96	371.70	-43.13	-47.25	371.78	-143.65	0.35
91	7/1/2021 17:44	7/1/2021 17:52	0:07:50	-44.79	-43.57	372.17	-51.59	0.05	372.03	-141.50	2.50
92	7/1/2021 18:07	7/1/2021 18:09	0:01:50	-18.77	63.56	355.43	-13.23	67.94	353.69	-143.33	0.67
93	7/1/2021 18:28	7/1/2021 18:28	0:00:20	41.82	118.54	357.52	42.54	119.93	357.80	-143.60	0.40
94	7/1/2021 18:29	7/1/2021 18:37	0:07:40	43.59	122.08	358.21	51.77	163.89	362.90	-140.75	3.25
95	7/1/2021 18:37	7/1/2021 18:38	0:00:40	51.67	166.92	363.06	51.40	170.93	363.23	-142.65	1.35
96	7/1/2021 19:14	7/1/2021 19:15	0:00:10	-42.93	-70.94	371.74	-43.28	-70.22	371.82	-143.71	0.29
97	7/1/2021 19:15	7/1/2021 19:23	0:07:50	-44.93	-66.52	372.20	-51.56	-22.80	371.95	-141.51	2.49
98	7/1/2021 19:39	7/1/2021 19:41	0:01:40	-18.05	40.86	355.11	-13.01	44.83	353.56	-143.33	0.67
99	7/1/2021 19:43	7/1/2021 20:10	0:27:20	-6.35	49.73	351.99	50.83	152.79	342.47	-140.40	3.60
100	7/1/2021 20:42	7/1/2021 20:56	0:14:30	-35.00	-106.82	199.42	-49.02	-28.88	218.79	-136.10	7.90
101	7/1/2021 20:57	7/1/2021 20:57	0:00:00	-47.52	-23.45	222.05	-47.52	-23.45	222.05	-143.50	0.50
102	7/1/2021 21:06	7/1/2021 21:07	0:00:50	-27.07	9.92	256.42	-24.63	12.28	260.31	-143.09	0.91
103	7/1/2021 21:07	7/1/2021 21:12	0:04:30	-23.14	13.64	262.67	-9.36	24.70	284.71	-141.31	2.69
104	7/1/2021 21:13	7/1/2021 21:15	0:02:00	-6.23	26.97	289.71	0.04	31.42	299.66	-142.89	1.11
105	7/1/2021 21:30	7/1/2021 21:39	0:09:50	42.10	72.95	352.94	51.26	126.33	344.37	-140.50	3.50
106	7/1/2021 22:12	7/1/2021 22:26	0:14:30	-35.13	-129.49	199.46	-48.95	-51.45	218.63	-136.10	7.90
107	7/1/2021 22:27	7/1/2021 22:27	0:00:10	-47.44	-46.04	221.87	-47.16	-45.17	222.43	-143.62	0.38
108	7/1/2021 22:36	7/1/2021 22:42	0:05:40	-26.44	-12.29	256.90	-9.20	1.98	284.39	-141.36	2.64
109	7/1/2021 22:42	7/1/2021 22:44	0:01:50	-6.59	3.87	288.55	-0.84	7.96	297.68	-143.15	0.85
110	7/1/2021 22:59	7/1/2021 23:09	0:09:50	42.22	50.33	352.65	51.23	103.81	344.09	-140.49	3.51
111	7/1/2021 23:42	7/1/2021 23:56	0:14:30	-35.27	-152.14	199.45	-48.88	-73.99	218.46	-136.11	7.89
112	7/1/2021 23:57	7/1/2021 23:57	0:00:10	-47.35	-68.60	221.69	-47.07	-67.73	222.25	-143.84	0.16
113	7/2/2021 0:06	7/2/2021 0:14	0:08:00	-25.79	-34.50	257.39	-1.19	-15.13	296.56	-141.59	2.41
114	7/2/2021 0:20	7/2/2021 0:42	0:22:00	17.87	-1.06	325.43	47.95	97.90	326.12	-140.23	3.77
115	7/2/2021 0:55	7/2/2021 0:56	0:00:20	13.80	144.12	210.27	12.75	144.92	206.98	-143.35	0.65
116	7/2/2021 1:03	7/2/2021 1:05	0:02:00	-11.99	162.84	138.06	-18.40	167.88	123.72	-140.29	3.71
117	7/2/2021 1:07	7/2/2021 1:07	0:00:00	-24.66	173.37	111.44	-24.66	173.37	111.44	-143.97	0.03
118	7/2/2021 1:08	7/2/2021 1:08	0:00:00	-27.20	175.84	106.98	-27.20	175.84	106.98	-142.80	1.20

Max. Exceedance: 7.90 dB