

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	11/17/2018 9:10	11/17/2018 9:31	0:21:10	24.19	-59.07	200.46	-39.91	-2.58	256.79	-132.99	11.01
2	11/17/2018 9:33	11/17/2018 10:13	0:39:30	-44.65	6.73	265.20	31.12	154.03	251.72	-134.84	9.16
3	11/17/2018 10:15	11/17/2018 10:42	0:26:29	36.92	161.36	246.31	17.42	-75.93	201.01	-133.63	10.37
4	11/17/2018 10:44	11/17/2018 11:15	0:30:50	10.58	-70.64	203.08	-47.30	51.44	294.40	-133.00	11.00
5	11/17/2018 11:17	11/17/2018 11:29	0:12:40	-43.24	61.68	295.69	-8.01	99.83	281.86	-134.98	9.02
6	11/17/2018 11:32	11/17/2018 12:02	0:30:10	-1.21	104.69	277.19	42.71	-128.63	206.26	-133.74	10.26
7	11/17/2018 12:04	11/17/2018 12:50	0:46:19	37.96	-120.42	203.42	-33.45	54.33	294.53	-132.94	11.06
8	11/17/2018 12:52	11/17/2018 13:03	0:10:21	-27.46	60.97	292.48	4.22	85.81	273.19	-135.92	8.08
9	11/17/2018 13:05	11/17/2018 13:58	0:53:10	11.01	90.74	268.11	-37.01	-75.21	251.24	-133.04	10.96
10	11/17/2018 14:00	11/17/2018 14:27	0:27:10	-42.18	-66.66	259.82	-10.25	52.75	283.01	-134.89	9.11
11	11/17/2018 14:29	11/17/2018 14:39	0:09:41	-3.47	57.65	278.52	26.36	80.89	255.82	-135.35	8.65
12	11/17/2018 14:41	11/17/2018 15:01	0:19:39	32.50	87.47	250.50	41.33	-171.43	205.51	-133.67	10.33
13	11/17/2018 15:15	11/17/2018 15:37	0:21:49	0.44	-131.50	208.24	-51.73	-50.63	283.21	-133.01	10.99
14	11/17/2018 16:15	11/17/2018 16:46	0:30:19	44.38	83.78	238.40	-5.10	-150.27	212.22	-132.98	11.02
15	11/17/2018 16:48	11/17/2018 17:40	0:52:19	-11.47	-145.62	217.97	33.29	42.99	249.79	-133.83	10.17
16	11/17/2018 17:42	11/17/2018 17:51	0:09:00	38.90	50.74	244.47	51.79	98.11	222.34	-134.69	9.31
17	11/17/2018 17:53	11/17/2018 18:21	0:27:29	51.06	111.63	217.30	-23.52	-158.49	231.23	-133.04	10.96
18	11/17/2018 18:23	11/17/2018 19:12	0:49:10	-29.85	-152.23	239.63	40.64	30.91	262.97	-135.28	8.72
19	11/17/2018 19:14	11/17/2018 19:19	0:04:51	45.26	40.46	261.35	51.41	67.15	257.71	-135.58	8.42
20	11/17/2018 19:21	11/17/2018 19:55	0:33:50	51.71	80.62	256.02	-36.49	-166.91	281.59	-134.74	9.26
21	11/17/2018 19:57	11/17/2018 20:25	0:27:19	-41.70	-158.55	286.45	-10.47	-38.39	282.96	-135.24	8.76
22	11/17/2018 20:34	11/17/2018 20:46	0:12:40	17.70	-17.77	270.43	48.95	29.10	259.76	-135.63	8.37
23	11/17/2018 20:56	11/17/2018 21:29	0:33:30	46.83	85.02	252.42	-46.22	-171.27	290.82	-134.71	9.29
24	11/17/2018 21:37	11/17/2018 22:10	0:33:40	-51.41	-128.88	299.67	37.33	-20.02	264.13	-135.40	8.60
25	11/17/2018 22:13	11/17/2018 22:38	0:25:30	42.46	-11.39	262.50	14.10	104.66	250.44	-135.10	8.90
26	11/17/2018 22:51	11/17/2018 23:08	0:17:50	-24.88	134.29	271.35	-49.84	-140.54	300.09	-135.27	8.73
27	11/17/2018 23:11	11/17/2018 23:38	0:27:19	-46.75	-129.01	299.79	31.32	-50.56	266.09	-135.47	8.53
28	11/17/2018 23:47	11/17/2018 23:58	0:10:41	50.61	-8.15	258.83	41.51	51.54	250.74	-135.10	8.90
29	11/18/2018 0:12	11/18/2018 0:35	0:22:40	0.73	91.57	254.76	-51.79	176.09	298.63	-134.78	9.22
30	11/18/2018 0:41	11/18/2018 1:00	0:18:59	-44.79	-146.72	299.43	9.57	-92.53	273.85	-135.40	8.60
31	11/18/2018 1:17	11/18/2018 1:29	0:12:20	50.19	-33.51	259.10	38.58	33.66	249.84	-135.07	8.93
32	11/18/2018 1:31	11/18/2018 1:54	0:22:20	32.93	41.35	248.97	-34.62	99.23	279.33	-134.74	9.26
33	11/18/2018 1:56	11/18/2018 2:43	0:46:59	-40.05	107.18	284.36	44.30	-76.01	261.98	-135.40	8.60
34	11/18/2018 2:45	11/18/2018 3:01	0:16:00	48.15	-65.25	260.31	33.16	18.23	250.75	-134.80	9.20
35	11/18/2018 3:03	11/18/2018 3:23	0:19:50	27.03	24.96	252.68	-33.27	74.68	337.22	-135.69	8.31
36	11/18/2018 3:25	11/18/2018 4:07	0:42:00	-38.76	82.23	349.34	28.12	-122.77	372.55	-137.36	6.64
37	11/18/2018 4:29	11/18/2018 4:37	0:07:29	40.53	-15.61	388.72	20.52	7.65	392.79	-139.15	4.85
38	11/18/2018 4:39	11/18/2018 4:54	0:15:10	14.07	12.85	394.30	-31.13	48.75	410.03	-138.58	5.42
39	11/18/2018 5:10	11/18/2018 5:27	0:17:09	-49.93	126.96	409.00	-7.74	-174.20	378.06	-138.13	5.87
40	11/18/2018 5:44	11/18/2018 5:49	0:04:59	40.44	-130.16	375.52	49.45	-106.67	379.85	-138.98	5.02
41	11/18/2018 6:03	11/18/2018 6:31	0:27:39	37.49	-34.22	389.31	-41.30	39.63	413.33	-138.57	5.43
42	11/18/2018 6:41	11/18/2018 7:15	0:33:41	-51.23	94.71	410.88	36.33	-159.93	374.24	-138.11	5.89
43	11/18/2018 7:41	11/18/2018 8:02	0:21:30	22.24	-40.72	392.43	-40.07	14.06	413.09	-138.57	5.43
44	11/18/2018 8:14	11/18/2018 8:41	0:27:09	-50.66	75.83	410.04	20.52	159.85	371.82	-138.10	5.90
45	11/18/2018 8:53	11/18/2018 9:11	0:18:00	48.21	-158.47	378.95	29.00	-70.64	391.01	-138.66	5.34
46	11/18/2018 9:13	11/18/2018 9:46	0:33:10	22.85	-64.71	392.28	-50.83	51.17	410.47	-138.57	5.43
47	11/18/2018 9:48	11/18/2018 10:17	0:28:41	-48.44	63.07	407.51	30.38	145.89	372.63	-138.11	5.89
48	11/18/2018 10:19	11/18/2018 10:34	0:15:10	36.10	152.88	373.89	48.40	-128.44	386.06	-138.93	5.07
49	11/18/2018 10:36	11/18/2018 11:24	0:47:30	44.76	-117.87	387.35	-42.26	55.72	412.66	-138.62	5.38
50	11/18/2018 11:26	11/18/2018 11:36	0:09:40	-37.28	64.01	410.08	-9.99	90.40	398.33	-139.29	4.71
51	11/18/2018 11:38	11/18/2018 12:04	0:26:09	-3.36	95.16	396.51	51.12	-166.32	400.52	-138.95	5.05
52	11/18/2018 12:06	11/18/2018 12:32	0:25:41	48.97	-154.16	400.45	-20.44	-78.85	406.29	-138.62	5.38
53	11/18/2018 12:45	11/18/2018 13:04	0:19:00	-49.92	-29.90	417.91	-22.73	56.70	403.19	-138.53	5.47
54	11/18/2018 13:17	11/18/2018 13:35	0:18:31	17.13	86.66	394.22	51.60	164.58	400.55	-139.05	4.95
55	11/18/2018 13:47	11/18/2018 14:14	0:26:50	30.19	-142.35	398.77	-45.31	-69.18	416.26	-138.47	5.53
56	11/18/2018 14:16	11/18/2018 14:39	0:23:09	-48.55	-59.37	417.43	-13.69	40.63	399.56	-138.48	5.52
57	11/18/2018 14:41	11/18/2018 14:54	0:12:20	-7.11	45.50	397.47	29.76	74.75	395.17	-138.92	5.08
58	11/18/2018 14:56	11/18/2018 15:48	0:52:21	35.49	81.59	396.10	-48.16	-84.31	417.22	-138.61	5.39
59	11/18/2018 15:50	11/18/2018 15:59	0:08:19	-50.67	-72.54	418.00	-46.72	-25.23	414.94	-140.18	3.82

**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)
60	11/18/2018 16:01	11/18/2018 16:41	0:40:20	-42.61	-15.47	412.76	51.12	123.18	400.63	-138.44	5.56
61	11/18/2018 16:43	11/18/2018 17:19	0:35:09	48.98	135.34	400.57	-44.59	-117.95	415.94	-138.40	5.60
62	11/18/2018 17:34	11/18/2018 18:03	0:29:09	-41.42	-36.69	412.14	40.96	42.95	397.17	-138.55	5.45
63	11/18/2018 18:05	11/18/2018 18:12	0:06:51	45.40	52.26	398.23	51.77	90.09	400.44	-139.39	4.61
64	11/18/2018 18:14	11/18/2018 19:04	0:49:51	50.84	101.95	400.59	-46.25	-70.89	414.67	-138.44	5.56
65	11/18/2018 19:06	11/18/2018 19:33	0:26:50	-42.02	-61.31	412.43	34.65	9.98	395.91	-138.52	5.48
66	11/18/2018 19:35	11/18/2018 19:44	0:08:40	39.95	17.72	396.96	51.77	61.91	400.34	-138.67	5.33
67	11/18/2018 19:46	11/18/2018 20:42	0:56:10	51.26	74.89	400.62	-33.54	-72.00	411.10	-138.55	5.45
68	11/18/2018 20:44	11/18/2018 21:08	0:23:49	-27.69	-65.49	408.30	41.12	-3.77	400.16	-139.01	4.99
69	11/18/2018 21:10	11/18/2018 21:22	0:11:50	45.22	4.81	401.11	47.36	70.62	403.09	-139.46	4.54
70	11/18/2018 21:24	11/18/2018 21:39	0:14:30	43.40	80.68	402.66	3.47	122.36	402.32	-139.04	4.96
71	11/18/2018 21:55	11/18/2018 22:24	0:28:41	-42.44	166.96	417.73	-7.53	-72.32	400.64	-138.56	5.44
72	11/18/2018 22:26	11/18/2018 22:56	0:30:20	-0.89	-67.60	399.01	44.40	54.97	402.80	-139.00	5.00
73	11/18/2018 22:58	11/18/2018 23:14	0:15:20	39.77	63.92	402.27	-4.20	104.26	403.81	-139.46	4.54
74	11/18/2018 23:16	11/18/2018 23:36	0:20:29	-10.80	109.03	405.58	-51.67	-169.43	420.79	-138.42	5.58
75	11/18/2018 23:38	11/19/2018 0:35	0:56:39	-50.46	-157.77	420.00	29.12	54.27	401.34	-138.66	5.34
76	11/19/2018 0:37	11/19/2018 0:47	0:09:31	23.00	60.21	401.09	-5.72	81.83	404.48	-139.79	4.21
77	11/19/2018 0:55	11/19/2018 1:07	0:12:20	-30.61	102.91	413.40	-51.76	159.03	421.85	-138.52	5.48
78	11/19/2018 1:49	11/19/2018 2:17	0:27:51	47.22	-60.22	401.63	1.98	52.88	402.57	-139.06	4.94
79	11/19/2018 2:19	11/19/2018 2:47	0:27:49	-4.67	57.57	404.03	-45.92	172.44	418.51	-138.62	5.38
80	11/19/2018 2:49	11/19/2018 3:05	0:15:50	-41.62	-178.11	416.32	3.13	-135.30	399.44	-138.56	5.44
81	11/19/2018 3:07	11/19/2018 3:31	0:23:49	9.76	-130.54	398.62	49.29	-30.52	403.75	-138.84	5.16
82	11/19/2018 3:33	11/19/2018 4:06	0:33:01	46.01	-19.53	403.38	-44.07	76.33	418.98	-138.38	5.62
83	11/19/2018 4:28	11/19/2018 4:38	0:10:31	-24.51	-179.97	408.06	7.17	-155.93	398.88	-138.60	5.40
84	11/19/2018 4:41	11/19/2018 5:24	0:43:49	13.75	-151.06	398.38	-6.61	11.93	404.65	-138.43	5.57
85	11/19/2018 5:27	11/19/2018 5:50	0:23:20	-13.19	16.77	406.58	-48.60	116.99	419.78	-137.42	6.58
86	11/19/2018 5:52	11/19/2018 6:27	0:35:01	-45.07	127.58	417.96	48.41	-126.75	402.68	-139.66	4.34
87	11/19/2018 6:29	11/19/2018 7:05	0:35:40	50.82	-114.82	403.35	-30.01	8.19	413.01	-140.22	3.78
88	11/19/2018 7:07	11/19/2018 7:28	0:20:50	-35.69	15.03	415.43	-37.90	117.52	415.11	-140.60	3.40
89	11/19/2018 7:41	11/19/2018 8:03	0:21:40	0.92	152.61	401.99	51.58	-130.71	406.49	-140.35	3.65
90	11/19/2018 8:06	11/19/2018 8:43	0:36:50	51.11	-111.78	406.74	-43.56	4.66	421.99	-140.37	3.63
91	11/19/2018 8:45	11/19/2018 8:56	0:11:11	-47.46	14.71	423.71	-46.42	77.02	422.55	-139.47	4.53
92	11/19/2018 8:58	11/19/2018 8:59	0:01:31	-44.28	82.38	421.47	-41.16	88.67	419.91	-139.48	4.52
93	11/19/2018 9:00	11/19/2018 9:09	0:09:20	-39.65	91.25	419.16	-14.07	118.23	407.81	-139.24	4.76
94	11/19/2018 9:11	11/19/2018 9:41	0:29:50	-7.50	123.10	405.72	48.85	-122.77	407.76	-138.11	5.89
95	11/19/2018 9:43	11/19/2018 10:20	0:36:59	45.40	-112.03	407.38	-50.46	3.94	425.71	-138.03	5.97
96	11/19/2018 10:22	11/19/2018 10:29	0:06:41	-51.72	16.58	426.03	-46.31	53.79	422.90	-139.61	4.39
97	11/19/2018 10:30	11/19/2018 10:31	0:00:19	-44.16	59.13	421.79	-43.49	60.58	421.45	-139.31	4.69
98	11/19/2018 10:31	11/19/2018 10:32	0:00:29	-42.11	63.38	420.74	-41.02	65.39	420.19	-141.16	2.84
99	11/19/2018 10:32	11/19/2018 10:46	0:13:21	-39.89	67.33	419.62	-2.20	103.34	404.57	-139.05	4.95

**Max. Exceedance: 11.06 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	11/17/2018 9:10	11/17/2018 9:31	0:21:10	24.19	-59.07	200.46	-39.91	-2.58	256.79	-131.39	12.61
2	11/17/2018 9:33	11/17/2018 10:13	0:39:30	-44.65	6.73	265.20	31.12	154.03	251.72	-133.24	10.76
3	11/17/2018 10:15	11/17/2018 10:42	0:26:29	36.92	161.36	246.31	17.42	-75.93	201.01	-132.03	11.97
4	11/17/2018 10:44	11/17/2018 11:15	0:30:50	10.58	-70.64	203.08	-47.30	51.44	294.40	-131.40	12.60
5	11/17/2018 11:17	11/17/2018 11:29	0:12:40	-43.24	61.68	295.69	-8.01	99.83	281.86	-133.38	10.62
6	11/17/2018 11:32	11/17/2018 12:02	0:30:10	-1.21	104.69	277.19	42.71	-128.63	206.26	-132.14	11.86
7	11/17/2018 12:04	11/17/2018 12:50	0:46:19	37.96	-120.42	203.42	-33.45	54.33	294.53	-131.34	12.66
8	11/17/2018 12:52	11/17/2018 13:03	0:10:21	-27.46	60.97	292.48	4.22	85.81	273.19	-134.32	9.68
9	11/17/2018 13:05	11/17/2018 13:58	0:53:10	11.01	90.74	268.11	-37.01	-75.21	251.24	-131.44	12.56
10	11/17/2018 14:00	11/17/2018 14:27	0:27:10	-42.18	-66.66	259.82	-10.25	52.75	283.01	-133.29	10.71
11	11/17/2018 14:29	11/17/2018 14:39	0:09:41	-3.47	57.65	278.52	26.36	80.89	255.82	-133.75	10.25
12	11/17/2018 14:41	11/17/2018 15:01	0:19:39	32.50	87.47	250.50	41.33	-171.43	205.51	-132.07	11.93
13	11/17/2018 15:15	11/17/2018 15:37	0:21:49	0.44	-131.50	208.24	-51.73	-50.63	283.21	-131.41	12.59
14	11/17/2018 16:15	11/17/2018 16:46	0:30:19	44.38	83.78	238.40	-5.10	-150.27	212.22	-131.38	12.62
15	11/17/2018 16:48	11/17/2018 17:40	0:52:19	-11.47	-145.62	217.97	33.29	42.99	249.79	-132.23	11.77
16	11/17/2018 17:42	11/17/2018 17:51	0:09:00	38.90	50.74	244.47	51.79	98.11	222.34	-133.09	10.91
17	11/17/2018 17:53	11/17/2018 18:21	0:27:29	51.06	111.63	217.30	-23.52	-158.49	231.23	-131.44	12.56
18	11/17/2018 18:23	11/17/2018 19:12	0:49:10	-29.85	-152.23	239.63	40.64	30.91	262.97	-133.68	10.32
19	11/17/2018 19:14	11/17/2018 19:19	0:04:51	45.26	40.46	261.35	51.41	67.15	257.71	-133.98	10.02
20	11/17/2018 19:21	11/17/2018 19:55	0:33:50	51.71	80.62	256.02	-36.49	-166.91	281.59	-133.14	10.86
21	11/17/2018 19:57	11/17/2018 20:25	0:27:19	-41.70	-158.55	286.45	-10.47	-38.39	282.96	-133.64	10.36
22	11/17/2018 20:34	11/17/2018 20:46	0:12:40	17.70	-17.77	270.43	48.95	29.10	259.76	-134.03	9.97
23	11/17/2018 20:56	11/17/2018 21:29	0:33:30	46.83	85.02	252.42	-46.22	-171.27	290.82	-133.11	10.89
24	11/17/2018 21:37	11/17/2018 22:10	0:33:40	-51.41	-128.88	299.67	37.33	-20.02	264.13	-133.80	10.20
25	11/17/2018 22:13	11/17/2018 22:38	0:25:30	42.46	-11.39	262.50	14.10	104.66	250.44	-133.50	10.50
26	11/17/2018 22:51	11/17/2018 23:08	0:17:50	-24.88	134.29	271.35	-49.84	-140.54	300.09	-133.67	10.33
27	11/17/2018 23:11	11/17/2018 23:38	0:27:19	-46.75	-129.01	299.79	31.32	-50.56	266.09	-133.87	10.13
28	11/17/2018 23:47	11/17/2018 23:58	0:10:41	50.61	-8.15	258.83	41.51	51.54	250.74	-133.50	10.50
29	11/18/2018 0:12	11/18/2018 0:35	0:22:40	0.73	91.57	254.76	-51.79	176.09	298.63	-133.18	10.82
30	11/18/2018 0:41	11/18/2018 1:00	0:18:59	-44.79	-146.72	299.43	9.57	-92.53	273.85	-133.80	10.20
31	11/18/2018 1:17	11/18/2018 1:29	0:12:20	50.19	-33.51	259.10	38.58	33.66	249.84	-133.47	10.53
32	11/18/2018 1:31	11/18/2018 1:54	0:22:20	32.93	41.35	248.97	-34.62	99.23	279.33	-133.14	10.86
33	11/18/2018 1:56	11/18/2018 2:43	0:46:59	-40.05	107.18	284.36	44.30	-76.01	261.98	-133.80	10.20
34	11/18/2018 2:45	11/18/2018 3:01	0:16:00	48.15	-65.25	260.31	33.16	18.23	250.75	-133.20	10.80
35	11/18/2018 3:03	11/18/2018 3:23	0:19:50	27.03	24.96	252.68	-33.27	74.68	337.22	-134.09	9.91
36	11/18/2018 3:25	11/18/2018 4:07	0:42:00	-38.76	82.23	349.34	28.12	-122.77	372.55	-135.76	8.24
37	11/18/2018 4:29	11/18/2018 4:37	0:07:29	40.53	-15.61	388.72	20.52	7.65	392.79	-137.55	6.45
38	11/18/2018 4:39	11/18/2018 4:54	0:15:10	14.07	12.85	394.30	-31.13	48.75	410.03	-136.98	7.02
39	11/18/2018 5:10	11/18/2018 5:27	0:17:09	-49.93	126.96	409.00	-7.74	-174.20	378.06	-136.53	7.47
40	11/18/2018 5:44	11/18/2018 5:49	0:04:59	40.44	-130.16	375.52	49.45	-106.67	379.85	-137.38	6.62
41	11/18/2018 6:03	11/18/2018 6:31	0:27:39	37.49	-34.22	389.31	-41.30	39.63	413.33	-136.97	7.03
42	11/18/2018 6:41	11/18/2018 7:15	0:33:41	-51.23	94.71	410.88	36.33	-159.93	374.24	-136.51	7.49
43	11/18/2018 7:41	11/18/2018 8:02	0:21:30	22.24	-40.72	392.43	-40.07	14.06	413.09	-136.97	7.03
44	11/18/2018 8:14	11/18/2018 8:41	0:27:09	-50.66	75.83	410.04	20.52	159.85	371.82	-136.50	7.50
45	11/18/2018 8:53	11/18/2018 9:11	0:18:00	48.21	-158.47	378.95	29.00	-70.64	391.01	-137.06	6.94
46	11/18/2018 9:13	11/18/2018 9:46	0:33:10	22.85	-64.71	392.28	-50.83	51.17	410.47	-136.97	7.03
47	11/18/2018 9:48	11/18/2018 10:17	0:28:41	-48.44	63.07	407.51	30.38	145.89	372.63	-136.51	7.49
48	11/18/2018 10:19	11/18/2018 10:34	0:15:10	36.10	152.88	373.89	48.40	-128.44	386.06	-137.33	6.67
49	11/18/2018 10:36	11/18/2018 11:24	0:47:30	44.76	-117.87	387.35	-42.26	55.72	412.66	-137.02	6.98
50	11/18/2018 11:26	11/18/2018 11:36	0:09:40	-37.28	64.01	410.08	-9.99	90.40	398.33	-137.69	6.31
51	11/18/2018 11:38	11/18/2018 12:04	0:26:09	-3.36	95.16	396.51	51.12	-166.32	400.52	-137.35	6.65
52	11/18/2018 12:06	11/18/2018 12:32	0:25:41	48.97	-154.16	400.45	-20.44	-78.85	406.29	-137.02	6.98
53	11/18/2018 12:45	11/18/2018 13:04	0:19:00	-49.92	-29.90	417.91	-22.73	56.70	403.19	-136.93	7.07
54	11/18/2018 13:17	11/18/2018 13:35	0:18:31	17.13	86.66	394.22	51.60	164.58	400.55	-137.45	6.55
55	11/18/2018 13:47	11/18/2018 14:14	0:26:50	30.19	-142.35	398.77	-45.31	-69.18	416.26	-136.87	7.13
56	11/18/2018 14:16	11/18/2018 14:39	0:23:09	-48.55	-59.37	417.43	-13.69	40.63	399.56	-136.88	7.12
57	11/18/2018 14:41	11/18/2018 14:54	0:12:20	-7.11	45.50	397.47	29.76	74.75	395.17	-137.32	6.68
58	11/18/2018 14:56	11/18/2018 15:48	0:52:21	35.49	81.59	396.10	-48.16	-84.31	417.22	-137.01	6.99
59	11/18/2018 15:50	11/18/2018 15:59	0:08:19	-50.67	-72.54	418.00	-46.72	-25.23	414.94	-138.58	5.42

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)
60	11/18/2018 16:01	11/18/2018 16:41	0:40:20	-42.61	-15.47	412.76	51.12	123.18	400.63	-136.84	7.16
61	11/18/2018 16:43	11/18/2018 17:19	0:35:09	48.98	135.34	400.57	-44.59	-117.95	415.94	-136.80	7.20
62	11/18/2018 17:34	11/18/2018 18:03	0:29:09	-41.42	-36.69	412.14	40.96	42.95	397.17	-136.95	7.05
63	11/18/2018 18:05	11/18/2018 18:12	0:06:51	45.40	52.26	398.23	51.77	90.09	400.44	-137.79	6.21
64	11/18/2018 18:14	11/18/2018 19:04	0:49:51	50.84	101.95	400.59	-46.25	-70.89	414.67	-136.84	7.16
65	11/18/2018 19:06	11/18/2018 19:33	0:26:50	-42.02	-61.31	412.43	34.65	9.98	395.91	-136.92	7.08
66	11/18/2018 19:35	11/18/2018 19:44	0:08:40	39.95	17.72	396.96	51.77	61.91	400.34	-137.07	6.93
67	11/18/2018 19:46	11/18/2018 20:42	0:56:10	51.26	74.89	400.62	-33.54	-72.00	411.10	-136.95	7.05
68	11/18/2018 20:44	11/18/2018 21:08	0:23:49	-27.69	-65.49	408.30	41.12	-3.77	400.16	-137.41	6.59
69	11/18/2018 21:10	11/18/2018 21:22	0:11:50	45.22	4.81	401.11	47.36	70.62	403.09	-137.86	6.14
70	11/18/2018 21:24	11/18/2018 21:39	0:14:30	43.40	80.68	402.66	3.47	122.36	402.32	-137.44	6.56
71	11/18/2018 21:55	11/18/2018 22:24	0:28:41	-42.44	166.96	417.73	-7.53	-72.32	400.64	-136.96	7.04
72	11/18/2018 22:26	11/18/2018 22:56	0:30:20	-0.89	-67.60	399.01	44.40	54.97	402.80	-137.40	6.60
73	11/18/2018 22:58	11/18/2018 23:14	0:15:20	39.77	63.92	402.27	-4.20	104.26	403.81	-137.86	6.14
74	11/18/2018 23:16	11/18/2018 23:36	0:20:29	-10.80	109.03	405.58	-51.67	-169.43	420.79	-136.82	7.18
75	11/18/2018 23:38	11/19/2018 0:35	0:56:39	-50.46	-157.77	420.00	29.12	54.27	401.34	-137.06	6.94
76	11/19/2018 0:37	11/19/2018 0:47	0:09:31	23.00	60.21	401.09	-5.72	81.83	404.48	-138.19	5.81
77	11/19/2018 0:55	11/19/2018 1:07	0:12:20	-30.61	102.91	413.40	-51.76	159.03	421.85	-136.92	7.08
78	11/19/2018 1:49	11/19/2018 2:17	0:27:51	47.22	-60.22	401.63	1.98	52.88	402.57	-137.46	6.54
79	11/19/2018 2:19	11/19/2018 2:47	0:27:49	-4.67	57.57	404.03	-45.92	172.44	418.51	-137.02	6.98
80	11/19/2018 2:49	11/19/2018 3:05	0:15:50	-41.62	-178.11	416.32	3.13	-135.30	399.44	-136.96	7.04
81	11/19/2018 3:07	11/19/2018 3:31	0:23:49	9.76	-130.54	398.62	49.29	-30.52	403.75	-137.24	6.76
82	11/19/2018 3:33	11/19/2018 4:06	0:33:01	46.01	-19.53	403.38	-44.07	76.33	418.98	-136.78	7.22
83	11/19/2018 4:28	11/19/2018 4:38	0:10:31	-24.51	-179.97	408.06	7.17	-155.93	398.88	-137.00	7.00
84	11/19/2018 4:41	11/19/2018 5:24	0:43:49	13.75	-151.06	398.38	-6.61	11.93	404.65	-136.83	7.17
85	11/19/2018 5:27	11/19/2018 5:50	0:23:20	-13.19	16.77	406.58	-48.60	116.99	419.78	-135.82	8.18
86	11/19/2018 5:52	11/19/2018 6:27	0:35:01	-45.07	127.58	417.96	48.41	-126.75	402.68	-138.06	5.94
87	11/19/2018 6:29	11/19/2018 7:05	0:35:40	50.82	-114.82	403.35	-30.01	8.19	413.01	-138.62	5.38
88	11/19/2018 7:07	11/19/2018 7:28	0:20:50	-35.69	15.03	415.43	-37.90	117.52	415.11	-139.00	5.00
89	11/19/2018 7:41	11/19/2018 8:03	0:21:40	0.92	152.61	401.99	51.58	-130.71	406.49	-138.75	5.25
90	11/19/2018 8:06	11/19/2018 8:43	0:36:50	51.11	-111.78	406.74	-43.56	4.66	421.99	-138.77	5.23
91	11/19/2018 8:45	11/19/2018 8:56	0:11:11	-47.46	14.71	423.71	-46.42	77.02	422.55	-137.87	6.13
92	11/19/2018 8:57	11/19/2018 8:57	0:00:00	-45.54	79.37	422.10	-45.54	79.37	422.10	-142.45	1.55
93	11/19/2018 8:57	11/19/2018 9:09	0:11:39	-44.61	81.64	421.64	-14.07	118.23	407.81	-137.64	6.36
94	11/19/2018 9:11	11/19/2018 9:41	0:29:50	-7.50	123.10	405.72	48.85	-122.77	407.76	-136.51	7.49
95	11/19/2018 9:43	11/19/2018 10:20	0:36:59	45.40	-112.03	407.38	-50.46	3.94	425.71	-136.43	7.57
96	11/19/2018 10:22	11/19/2018 10:30	0:07:10	-51.72	16.58	426.03	-45.42	56.13	422.44	-138.01	5.99
97	11/19/2018 10:30	11/19/2018 10:46	0:15:31	-44.48	58.40	421.96	-2.20	103.34	404.57	-137.45	6.55

Max. Exceedance: 12.66 dB

**Table 3 Approach (GN - 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	11/17/2018 15:06	11/17/2018 15:09	0:03:20	29.01	-154.69	200.70	18.99	-145.37	200.59	-134.03	9.97
2	11/18/2018 1:05	11/18/2018 1:12	0:07:01	23.85	-80.98	268.56	42.40	-57.18	262.65	-135.95	8.05
3	11/18/2018 4:18	11/18/2018 4:21	0:02:50	50.69	-76.42	380.98	51.78	-59.50	383.34	-139.28	4.72
4	11/18/2018 5:32	11/18/2018 5:39	0:07:21	6.65	-163.97	373.25	28.46	-145.86	372.58	-138.69	5.31
5	11/18/2018 5:54	11/18/2018 5:58	0:04:11	51.54	-77.18	384.00	47.18	-54.05	386.80	-140.38	3.62
6	11/18/2018 7:29	11/18/2018 7:36	0:07:20	49.38	-85.53	385.86	34.67	-53.79	389.92	-138.96	5.04

**Max. Exceedance: 9.97 dB**

**Table 4 Approach (GN - 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	11/17/2018 15:06	11/17/2018 15:09	0:03:20	29.01	-154.69	200.70	18.99	-145.37	200.59	-131.02	12.98
2	11/18/2018 1:05	11/18/2018 1:12	0:07:01	23.85	-80.98	268.56	42.40	-57.18	262.65	-132.94	11.06
3	11/18/2018 4:18	11/18/2018 4:21	0:02:50	50.69	-76.42	380.98	51.78	-59.50	383.34	-136.27	7.73
4	11/18/2018 5:32	11/18/2018 5:39	0:07:21	6.65	-163.97	373.25	28.46	-145.86	372.58	-135.68	8.32
5	11/18/2018 5:54	11/18/2018 5:58	0:04:11	51.54	-77.18	384.00	47.18	-54.05	386.80	-137.37	6.63
6	11/18/2018 7:29	11/18/2018 7:36	0:07:20	49.38	-85.53	385.86	34.67	-53.79	389.92	-135.95	8.05

**Max. Exceedance: 12.98 dB**

**Table 5 Approach (CLS - 5M93G1D) 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	11/19/2018 0:36	11/19/2018 0:37	0:00:30	25.86	57.55	401.17	24.43	58.90	401.12	-143.14	0.86
2	11/19/2018 0:38	11/19/2018 0:52	0:14:10	21.54	61.49	401.07	-21.22	93.79	409.57	-138.06	5.94
3	11/19/2018 1:23	11/19/2018 1:23	0:00:20	-23.96	-132.44	407.53	-23.00	-131.57	407.10	-142.71	1.29
4	11/19/2018 1:24	11/19/2018 1:39	0:14:09	-20.09	-129.04	405.86	22.72	-96.67	397.81	-138.81	5.19
5	11/19/2018 2:09	11/19/2018 2:09	0:00:20	25.41	34.46	400.93	24.46	35.36	400.90	-143.18	0.82
6	11/19/2018 2:10	11/19/2018 2:24	0:14:09	21.09	38.37	400.85	-21.68	70.68	409.60	-138.09	5.91
7	11/19/2018 2:27	11/19/2018 2:37	0:10:19	-28.31	76.93	412.30	-50.01	119.01	421.35	-139.07	4.93
8	11/19/2018 2:56	11/19/2018 2:56	0:00:30	-23.98	-155.97	407.86	-22.54	-154.67	407.24	-142.80	1.20
9	11/19/2018 2:57	11/19/2018 3:11	0:14:09	-20.11	-152.57	406.22	22.68	-120.21	398.49	-138.81	5.19
10	11/19/2018 3:42	11/19/2018 3:42	0:00:29	24.51	11.80	401.30	23.07	13.11	401.25	-143.16	0.84
11	11/19/2018 3:43	11/19/2018 3:57	0:13:39	19.67	16.07	401.21	-21.63	47.12	409.60	-138.25	5.75
12	11/19/2018 4:29	11/19/2018 4:29	0:00:21	-22.11	-177.80	407.03	-21.14	-176.95	406.63	-143.06	0.94
13	11/19/2018 4:30	11/19/2018 4:43	0:12:49	-18.69	-174.89	405.64	20.21	-145.88	398.37	-138.99	5.01
14	11/19/2018 4:43	11/19/2018 4:44	0:00:30	21.67	-144.62	398.43	23.12	-143.33	398.51	-142.90	1.10
15	11/19/2018 5:14	11/19/2018 5:14	0:00:19	25.03	-12.20	401.30	24.08	-11.31	401.26	-143.39	0.61
16	11/19/2018 5:15	11/19/2018 5:29	0:13:10	20.70	-8.31	401.19	-19.15	21.50	408.64	-138.25	5.75
17	11/19/2018 5:29	11/19/2018 5:30	0:00:19	-21.10	23.15	409.37	-22.07	23.99	409.75	-143.40	0.60
18	11/19/2018 5:56	11/19/2018 8:50	2:54:00	-37.46	141.69	414.12	-51.65	38.74	425.37	-138.77	5.23
19	11/19/2018 8:51	11/19/2018 8:57	0:05:40	-51.74	47.71	425.32	-45.84	78.59	422.25	-137.50	6.50
20	11/19/2018 9:18	11/19/2018 9:19	0:01:11	13.88	138.48	402.38	17.37	141.23	402.33	-142.54	1.46
21	11/19/2018 9:35	11/19/2018 9:37	0:01:50	51.39	-156.75	407.59	51.78	-145.76	407.86	-142.29	1.71
22	11/19/2018 9:38	11/19/2018 10:29	0:51:31	51.59	-140.76	407.92	-45.73	55.36	422.59	-136.15	7.85

**Max. Exceedance: 7.85 dB**

**Table 1 Berthed (CLS - 5M93G1D) 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	12/5/2018 0:00	12/5/2018 9:02	9:02:59	-44.67	122.67	423.25	-46.71	-87.57	423.02	-139.83	4.17

Max. Exceedance: 4.17 dB



Table 1 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	2/7/2019 15:59	2/7/2019 16:15	0:15:31	49.40	-25.46	411.95	33.61	52.37	412.03	-140.67	3.33
2	2/7/2019 16:30	2/7/2019 16:43	0:12:31	-10.67	88.63	413.49	-44.01	126.43	423.61	-140.70	3.30
3	2/7/2019 17:36	2/7/2019 17:58	0:22:10	51.79	-25.66	413.29	2.50	55.68	411.11	-140.64	3.36
4	2/7/2019 18:15	2/7/2019 18:30	0:14:30	-44.37	103.70	423.71	-43.45	-178.57	420.17	-140.84	3.16
5	2/7/2019 19:21	2/7/2019 19:41	0:19:39	30.87	8.49	411.39	-27.37	55.61	417.96	-140.64	3.36
6	2/7/2019 19:52	2/7/2019 20:04	0:12:00	-50.77	103.25	425.22	-39.02	165.96	417.90	-140.80	3.20
7	2/7/2019 21:32	2/7/2019 21:45	0:13:01	-48.32	121.14	422.57	-16.67	166.33	408.45	-140.60	3.40
8	2/7/2019 22:35	2/7/2019 22:49	0:13:51	4.88	-16.64	410.87	-35.47	17.81	420.75	-140.65	3.35
9	2/7/2019 23:19	2/7/2019 23:32	0:12:20	-12.62	145.93	407.18	24.61	174.08	405.04	-140.50	3.50
10	2/8/2019 0:17	2/8/2019 0:29	0:12:10	-20.87	-21.03	416.11	-49.09	23.71	425.06	-140.76	3.24
11	2/8/2019 0:38	2/8/2019 0:53	0:14:41	-48.03	75.09	422.48	-11.05	123.55	406.63	-140.56	3.44
12	2/8/2019 1:55	2/8/2019 2:06	0:11:00	-35.14	-29.71	420.88	-51.79	23.27	425.28	-140.86	3.14
13	2/8/2019 2:25	2/8/2019 2:36	0:11:39	-13.01	98.54	407.21	22.32	124.90	404.46	-140.49	3.51
14	2/8/2019 3:10	2/8/2019 3:22	0:12:40	15.80	-95.37	410.56	-22.44	-66.76	416.70	-140.64	3.36
15	2/8/2019 3:33	2/8/2019 3:48	0:15:00	-48.25	-26.67	425.00	-37.20	50.99	416.99	-140.78	3.22
16	2/8/2019 4:07	2/8/2019 4:19	0:12:00	18.47	98.08	404.02	47.78	139.97	411.01	-140.50	3.50
17	2/8/2019 5:09	2/8/2019 5:31	0:22:50	-50.98	-36.42	425.54	-7.84	55.27	405.78	-140.54	3.46
18	2/8/2019 5:45	2/8/2019 5:57	0:12:40	31.75	87.25	406.24	51.78	146.88	413.20	-140.55	3.45
19	2/8/2019 6:53	2/8/2019 7:15	0:22:09	-40.26	-0.90	418.40	23.92	55.71	404.70	-140.49	3.51
20	2/8/2019 7:27	2/8/2019 7:40	0:12:50	50.90	107.60	412.32	36.53	173.08	412.26	-140.68	3.32
21	2/8/2019 9:05	2/8/2019 9:18	0:12:29	50.46	114.70	413.51	23.41	164.05	410.97	-140.65	3.35
22	2/8/2019 9:36	2/8/2019 9:47	0:11:41	-29.67	-153.91	419.12	-51.42	-102.85	425.45	-140.82	3.18
23	2/8/2019 10:35	2/8/2019 10:46	0:11:11	51.80	74.58	413.07	34.76	128.38	411.98	-140.67	3.33
24	2/8/2019 11:15	2/8/2019 11:31	0:15:01	-46.28	-150.54	424.43	-40.13	-71.31	418.26	-140.80	3.20
25	2/8/2019 12:12	2/8/2019 12:24	0:11:50	48.93	75.15	413.47	21.37	118.76	410.89	-140.65	3.35
26	2/8/2019 12:52	2/8/2019 13:11	0:18:50	-51.16	-152.64	425.33	-19.08	-71.08	408.92	-140.61	3.39
27	2/8/2019 13:52	2/8/2019 14:12	0:19:30	33.80	82.50	411.95	-23.77	129.62	417.17	-140.65	3.35
28	2/8/2019 14:33	2/8/2019 14:56	0:22:20	-45.55	-129.52	421.08	16.88	-68.03	403.88	-140.49	3.51
29	2/8/2019 15:05	2/8/2019 15:22	0:16:31	43.22	-36.68	409.46	40.27	49.59	412.69	-140.62	3.38
30	2/8/2019 15:39	2/8/2019 15:47	0:07:10	-10.01	94.96	413.46	-30.79	113.12	419.42	-140.70	3.30
31	2/8/2019 15:49	2/8/2019 16:12	0:23:31	-36.40	120.08	421.34	-30.34	-128.81	413.80	-139.06	4.94
32	2/8/2019 16:13	2/8/2019 16:33	0:20:20	-28.98	-127.34	413.19	31.21	-78.19	408.24	-138.93	5.07
33	2/8/2019 16:35	2/8/2019 17:05	0:29:31	36.39	-71.71	409.84	12.89	54.94	415.37	-138.25	5.75
34	2/8/2019 17:07	2/8/2019 17:16	0:09:20	6.33	59.77	415.51	-21.83	80.78	419.98	-138.89	5.11
35	2/8/2019 17:18	2/8/2019 17:45	0:26:41	-27.98	86.57	421.59	-30.43	-152.46	413.96	-139.16	4.84
36	2/8/2019 17:46	2/8/2019 17:57	0:11:50	-28.61	-150.52	413.15	6.76	-122.75	404.74	-139.29	4.71
37	2/8/2019 18:10	2/8/2019 18:49	0:38:40	41.41	-87.32	411.64	-21.25	56.72	419.74	-138.36	5.64
38	2/8/2019 18:51	2/8/2019 19:05	0:13:49	-27.42	62.45	421.35	-51.79	123.86	426.27	-139.74	4.26
39	2/8/2019 19:07	2/8/2019 19:18	0:10:59	-51.13	136.72	425.24	-30.07	-175.62	413.77	-139.03	4.97
40	2/8/2019 19:18	2/8/2019 19:28	0:09:11	-28.24	-173.69	412.97	-1.00	-151.80	405.22	-139.40	4.60
41	2/8/2019 19:47	2/8/2019 20:26	0:38:30	49.48	-88.98	415.13	-33.60	45.73	444.32	-139.65	4.35
42	2/8/2019 20:28	2/8/2019 20:41	0:12:49	-38.94	53.15	449.27	-50.15	119.82	467.11	-140.31	3.69
43	2/8/2019 20:43	2/8/2019 20:54	0:11:10	-47.36	131.12	467.26	-20.57	169.83	457.77	-139.40	4.60
44	2/8/2019 21:24	2/8/2019 22:00	0:35:50	51.79	-91.14	460.74	-35.45	24.31	468.81	-140.53	3.47
45	2/8/2019 22:02	2/8/2019 22:25	0:22:30	-40.20	31.43	470.42	-29.36	137.73	461.29	-139.64	4.36
46	2/8/2019 22:25	2/8/2019 22:34	0:08:21	-27.54	139.62	460.50	-3.06	159.32	452.83	-140.05	3.95
47	2/8/2019 23:02	2/8/2019 23:43	0:40:50	49.52	-92.66	461.18	-51.00	40.64	473.51	-140.29	3.71
48	2/8/2019 23:45	2/9/2019 0:22	0:37:20	-51.79	53.32	473.31	39.17	174.05	455.86	-140.23	3.77
49	2/9/2019 0:42	2/9/2019 1:18	0:35:21	36.82	-87.02	459.83	-51.63	23.84	473.58	-140.12	3.88
50	2/9/2019 1:19	2/9/2019 1:29	0:09:10	-51.64	35.66	473.10	-37.73	79.76	465.28	-140.61	3.39
51	2/9/2019 1:31	2/9/2019 1:32	0:01:20	-32.28	86.90	462.64	-28.71	90.84	461.01	-139.32	4.68
52	2/9/2019 1:33	2/9/2019 1:59	0:26:20	-26.88	92.70	460.21	46.09	164.35	457.84	-139.57	4.43
53	2/9/2019 2:22	2/9/2019 2:34	0:11:41	19.04	-92.13	458.36	-15.93	-66.35	462.81	-140.77	3.23
54	2/9/2019 2:42	2/9/2019 2:56	0:14:30	-36.54	-45.55	469.45	-49.46	28.12	471.56	-139.98	4.02
55	2/9/2019 3:14	2/9/2019 3:30	0:15:40	-4.75	86.76	452.99	39.72	127.38	455.92	-140.61	3.39
56	2/9/2019 3:42	2/9/2019 4:07	0:25:00	50.59	-169.83	461.05	-13.08	-92.34	462.16	-140.34	3.66
57	2/9/2019 5:35	2/9/2019 5:48	0:13:10	3.40	-127.95	459.15	-34.65	-95.66	468.89	-140.79	3.21
58	2/9/2019 6:00	2/9/2019 6:14	0:13:20	-51.70	-37.02	473.21	-27.50	20.72	460.43	-139.15	4.85
59	2/9/2019 6:14	2/9/2019 6:22	0:07:40	-25.18	22.98	459.43	-2.51	40.77	452.52	-138.85	5.15
60	2/9/2019 6:47	2/9/2019 6:56	0:08:49	51.73	130.42	460.81	39.25	174.17	460.19	-140.96	3.04
61	2/9/2019 7:13	2/9/2019 7:23	0:09:20	-10.80	-141.62	461.63	-36.81	-116.54	469.61	-140.88	3.12
62	2/9/2019 7:32	2/9/2019 7:47	0:15:50	-51.41	-74.37	473.62	-26.94	-2.51	460.14	-139.15	4.85
63	2/9/2019 7:48	2/9/2019 8:01	0:13:19	-24.61	-0.27	459.15	15.20	29.81	451.44	-138.95	5.05

Table 1 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)
64	2/9/2019 9:05	2/9/2019 9:21	0:16:09	-51.35	-98.91	473.64	-26.37	-25.74	459.88	-139.18	4.82
65	2/9/2019 9:22	2/9/2019 9:40	0:17:50	-24.03	-23.53	458.90	28.68	17.99	453.13	-139.20	4.80
66	2/9/2019 10:42	2/9/2019 10:55	0:13:10	-51.42	-103.83	472.78	-25.80	-48.98	459.59	-139.20	4.80
67	2/9/2019 10:58	2/9/2019 11:15	0:17:59	-18.64	-42.65	456.77	34.09	0.36	454.34	-139.40	4.60
68	2/9/2019 11:25	2/9/2019 11:46	0:21:49	50.86	41.08	459.82	11.99	130.68	458.55	-140.17	3.83
69	2/9/2019 12:19	2/9/2019 12:29	0:10:20	-48.31	-109.98	470.70	-24.76	-71.78	459.12	-139.17	4.83
70	2/9/2019 12:30	2/9/2019 12:33	0:03:59	-23.34	-70.48	458.54	-11.62	-60.95	454.49	-139.09	4.91
71	2/9/2019 13:01	2/9/2019 13:33	0:31:50	51.69	36.15	460.87	-27.17	136.99	466.31	-140.06	3.94
72	2/9/2019 13:50	2/9/2019 14:03	0:12:39	-50.70	-145.23	472.22	-24.18	-95.03	458.94	-139.28	4.72
73	2/9/2019 14:03	2/9/2019 14:15	0:11:50	-22.76	-93.75	458.37	12.66	-67.28	451.37	-139.00	5.00
74	2/9/2019 14:34	2/9/2019 15:06	0:32:01	51.79	6.64	460.70	-24.95	111.06	465.58	-140.07	3.93
75	2/9/2019 15:24	2/9/2019 15:37	0:13:10	-50.93	-170.71	472.56	-23.61	-118.30	458.93	-139.11	4.89
76	2/9/2019 15:37	2/9/2019 15:41	0:03:30	-22.18	-117.02	458.36	-11.90	-108.74	454.85	-138.96	5.04
77	2/9/2019 15:41	2/9/2019 15:47	0:05:30	-10.40	-107.63	454.43	6.25	-95.77	451.64	-140.34	3.66
78	2/9/2019 16:14	2/9/2019 16:36	0:21:41	46.27	16.98	460.81	-12.96	77.27	461.96	-140.21	3.79
79	2/9/2019 16:55	2/9/2019 17:10	0:15:29	-51.79	152.07	473.54	-23.51	-141.99	459.04	-139.20	4.80
80	2/9/2019 17:11	2/9/2019 17:14	0:03:20	-21.60	-140.30	458.28	-11.80	-132.45	454.96	-138.92	5.08
81	2/9/2019 17:15	2/9/2019 17:28	0:13:10	-9.80	-130.97	454.41	29.18	-100.43	453.41	-140.39	3.61
82	2/9/2019 17:45	2/9/2019 18:12	0:26:31	49.77	-19.34	460.91	-19.93	59.02	463.80	-140.04	3.96
83	2/9/2019 18:30	2/9/2019 18:44	0:14:30	-51.55	135.39	473.11	-22.93	-165.26	458.80	-139.27	4.73
84	2/9/2019 18:45	2/9/2019 18:48	0:03:20	-21.49	-164.00	458.24	-11.69	-156.15	454.93	-138.79	5.21
85	2/9/2019 18:49	2/9/2019 19:04	0:15:00	-8.68	-153.94	454.13	34.97	-117.44	454.70	-140.41	3.59
86	2/9/2019 19:21	2/9/2019 19:47	0:25:51	45.85	-29.48	460.63	-25.73	40.43	465.60	-140.00	4.00
87	2/9/2019 20:06	2/9/2019 20:18	0:11:50	-49.17	127.71	471.47	-22.35	171.47	458.55	-139.22	4.78
88	2/9/2019 20:18	2/9/2019 20:22	0:03:11	-20.91	172.73	457.99	-11.57	-179.86	454.88	-138.63	5.37
89	2/9/2019 20:23	2/9/2019 20:23	0:00:19	-8.07	-177.28	453.95	-7.06	-176.56	453.71	-141.33	2.67
90	2/9/2019 21:00	2/9/2019 21:22	0:21:30	34.38	-32.99	459.31	-28.14	19.03	466.44	-140.20	3.80
91	2/9/2019 21:34	2/9/2019 21:47	0:12:21	-51.56	73.49	473.61	-35.33	133.87	464.21	-140.54	3.46
92	2/9/2019 21:49	2/9/2019 21:56	0:06:30	-29.68	140.58	461.57	-10.96	156.81	454.64	-138.81	5.19
93	2/9/2019 21:57	2/9/2019 22:07	0:09:50	-7.45	159.38	453.74	22.02	-178.66	452.23	-140.57	3.43
94	2/9/2019 22:40	2/9/2019 22:55	0:15:40	18.62	-41.02	458.26	-27.78	-5.12	466.43	-141.20	2.80
95	2/9/2019 23:07	2/9/2019 23:29	0:22:49	-50.66	41.28	473.67	-9.85	133.84	454.28	-138.92	5.08
96	2/9/2019 23:31	2/9/2019 23:41	0:10:49	-6.84	136.03	453.54	25.44	160.68	452.61	-140.63	3.37
97	2/10/2019 0:17	2/10/2019 0:28	0:10:50	6.60	-55.68	458.65	-25.58	-31.08	465.81	-141.26	2.74
98	2/10/2019 0:51	2/10/2019 1:04	0:12:01	-41.42	76.89	467.33	-8.74	110.87	453.93	-138.93	5.07
99	2/10/2019 1:04	2/10/2019 1:16	0:11:50	-6.22	112.68	453.33	28.78	140.21	453.04	-140.64	3.36
100	2/10/2019 1:31	2/10/2019 1:53	0:22:10	51.60	-152.41	460.52	0.43	-75.10	459.36	-140.32	3.68
101	2/10/2019 2:18	2/10/2019 2:37	0:19:21	-51.48	17.54	473.16	-8.12	87.53	453.76	-139.40	4.60
102	2/10/2019 2:38	2/10/2019 2:50	0:11:41	-6.11	88.98	453.28	28.42	116.06	452.99	-140.57	3.43
103	2/10/2019 3:02	2/10/2019 3:34	0:32:29	51.48	169.21	459.98	-22.96	-81.06	465.10	-140.25	3.75
104	2/10/2019 3:56	2/10/2019 4:11	0:15:20	-46.73	17.26	470.25	-7.01	64.55	453.51	-139.58	4.42
105	2/10/2019 5:00	2/10/2019 5:12	0:12:20	2.74	-124.29	459.19	-33.08	-94.43	468.51	-141.18	2.82
106	2/10/2019 5:28	2/10/2019 5:37	0:09:50	-49.51	-16.50	471.80	-28.73	22.65	461.11	-140.52	3.48
107	2/10/2019 6:37	2/10/2019 6:47	0:10:01	-9.96	-139.05	461.47	-37.74	-112.01	470.08	-141.30	2.70
108	2/10/2019 6:59	2/10/2019 7:15	0:16:59	-51.63	-56.12	473.28	-16.26	10.04	456.08	-139.64	4.36
109	2/10/2019 8:31	2/10/2019 8:54	0:22:10	-51.79	-84.62	473.56	-3.15	-4.07	452.59	-139.93	4.07
110	2/10/2019 8:54	2/10/2019 9:05	0:10:41	-1.12	-2.64	452.24	30.18	22.77	453.27	-139.27	4.73
111	2/10/2019 9:30	2/10/2019 9:38	0:07:51	32.33	139.23	459.23	9.95	159.17	458.55	-139.81	4.19
112	2/10/2019 10:13	2/10/2019 10:27	0:13:51	-40.94	-64.96	466.95	-2.53	-27.42	452.44	-139.94	4.06
113	2/10/2019 12:45	2/10/2019 12:54	0:09:00	11.22	110.66	458.54	-15.86	130.28	462.97	-140.93	3.07
114	2/10/2019 13:21	2/10/2019 13:38	0:17:20	-41.50	-113.56	467.21	7.31	-68.03	451.36	-139.42	4.58
115	2/10/2019 14:00	2/10/2019 14:17	0:16:51	51.67	16.09	460.68	17.05	82.38	458.38	-139.32	4.68
116	2/10/2019 14:19	2/10/2019 14:36	0:17:09	10.61	87.32	458.51	-38.57	130.32	470.35	-140.98	3.02
117	2/10/2019 15:03	2/10/2019 15:11	0:07:21	-16.69	-109.25	456.38	5.40	-93.19	451.63	-139.62	4.38
118	2/10/2019 15:37	2/10/2019 16:03	0:26:01	48.51	13.03	460.77	-21.42	87.28	464.48	-139.40	4.60
119	2/10/2019 16:28	2/10/2019 16:45	0:17:00	-40.61	-159.54	467.13	7.52	-115.46	451.62	-139.64	4.36
120	2/10/2019 17:08	2/10/2019 17:21	0:13:40	51.28	-26.19	460.60	23.59	29.24	458.24	-141.38	2.62
121	2/10/2019 18:45	2/10/2019 19:12	0:26:20	46.62	-28.38	460.48	-25.88	43.77	465.77	-139.27	4.73
122	2/10/2019 19:30	2/10/2019 19:40	0:09:40	-50.06	126.71	472.22	-30.53	166.63	462.17	-140.78	3.22
123	2/10/2019 20:24	2/10/2019 20:47	0:22:41	36.33	-32.39	459.34	-29.20	23.32	466.92	-139.21	4.79
124	2/10/2019 21:02	2/10/2019 21:28	0:25:19	-51.03	96.59	472.82	12.37	176.75	451.47	-139.69	4.31
125	2/10/2019 22:04	2/10/2019 22:21	0:16:01	17.48	-36.90	458.13	-29.75	0.12	467.21	-140.44	3.56
126	2/10/2019 22:32	2/10/2019 23:06	0:33:41	-51.38	50.51	473.91	25.59	164.01	452.52	-139.58	4.42

Table 1 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)
127	2/10/2019 23:41	2/10/2019 23:56	0:14:41	7.94	-53.45	458.50	-34.64	-17.93	469.07	-140.99	3.01
128	2/11/2019 0:15	2/11/2019 0:33	0:18:40	-43.73	75.50	468.73	8.09	126.02	451.36	-139.42	4.58
129	2/11/2019 1:02	2/11/2019 1:23	0:20:49	42.21	-113.28	459.94	-16.74	-59.33	463.17	-139.23	4.77
130	2/11/2019 1:41	2/11/2019 2:15	0:33:50	-51.78	14.18	473.77	31.27	122.33	453.40	-139.24	4.76
131	2/11/2019 2:31	2/11/2019 3:01	0:30:10	50.18	-160.99	460.53	-29.15	-71.88	467.28	-139.30	4.70
132	2/11/2019 4:21	2/11/2019 4:38	0:16:49	12.10	-127.88	458.36	-36.58	-86.70	469.88	-140.83	3.17
133	2/11/2019 4:58	2/11/2019 5:15	0:16:10	-38.01	14.36	465.75	8.42	54.90	451.29	-138.86	5.14
134	2/11/2019 6:02	2/11/2019 6:13	0:11:19	-9.13	-136.46	461.31	-40.19	-104.94	471.08	-141.19	2.81
135	2/11/2019 6:24	2/11/2019 6:43	0:19:21	-51.21	-47.74	473.11	-6.62	20.44	453.35	-140.24	3.76
136	2/11/2019 7:13	2/11/2019 7:46	0:32:59	48.68	134.50	460.62	-39.52	-129.84	470.88	-139.22	4.78
137	2/11/2019 7:56	2/11/2019 8:21	0:25:20	-51.76	-80.10	473.71	7.13	6.39	451.31	-138.96	5.04
138	2/11/2019 8:22	2/11/2019 8:22	0:00:10	9.65	8.22	451.20	10.15	8.59	451.18	-143.74	0.26
139	2/11/2019 8:23	2/11/2019 8:31	0:07:31	12.15	10.07	451.17	33.41	29.69	453.82	-139.32	4.68
140	2/11/2019 8:51	2/11/2019 9:18	0:27:01	40.72	130.51	459.91	-35.62	-159.38	469.49	-139.18	4.82
141	2/11/2019 9:30	2/11/2019 9:55	0:25:20	-51.73	-102.68	473.60	7.75	-16.95	451.25	-138.97	5.03
142	2/11/2019 9:57	2/11/2019 10:04	0:07:29	12.26	-13.63	451.15	33.51	6.02	453.84	-139.90	4.10
143	2/11/2019 11:04	2/11/2019 11:29	0:24:40	-51.43	-121.35	473.20	8.37	-40.29	451.19	-139.17	4.83
144	2/11/2019 11:31	2/11/2019 11:37	0:06:20	12.88	-36.95	451.13	30.98	-20.73	453.29	-140.39	3.61
145	2/11/2019 11:57	2/11/2019 12:14	0:17:20	44.38	75.67	460.33	-3.05	124.03	460.08	-139.12	4.88
146	2/11/2019 12:43	2/11/2019 13:03	0:19:30	-44.76	-117.14	469.13	8.99	-63.63	451.23	-139.41	4.59
147	2/11/2019 13:04	2/11/2019 13:07	0:02:41	12.99	-60.66	451.19	20.84	-54.36	451.69	-140.64	3.36
148	2/11/2019 13:40	2/11/2019 14:00	0:20:01	18.83	84.13	458.30	-38.71	133.72	470.56	-139.11	4.89
149	2/11/2019 14:15	2/11/2019 14:35	0:20:40	-48.74	-152.80	471.54	5.07	-90.23	451.61	-139.70	4.30
150	2/11/2019 15:26	2/11/2019 15:35	0:08:50	-17.72	87.37	463.44	-41.06	113.85	471.38	-141.36	2.64
151	2/11/2019 15:45	2/11/2019 16:15	0:30:09	-51.69	163.05	473.76	22.49	-100.50	452.06	-139.56	4.44
152	2/11/2019 17:21	2/11/2019 17:41	0:20:09	-50.04	153.79	472.47	0.23	-141.23	452.37	-139.72	4.28
153	2/11/2019 17:43	2/11/2019 17:55	0:11:41	6.80	-136.57	451.65	39.28	-104.84	455.45	-139.66	4.34
154	2/11/2019 18:09	2/11/2019 18:38	0:28:20	47.84	-28.99	460.35	-29.26	50.36	467.05	-139.17	4.83
155	2/11/2019 18:56	2/11/2019 19:04	0:08:30	-48.13	138.12	471.29	-29.48	170.96	461.84	-140.95	3.05
156	2/11/2019 19:48	2/11/2019 19:57	0:08:50	38.21	-31.91	459.35	13.97	-7.17	457.94	-141.27	2.73
157	2/11/2019 19:59	2/11/2019 20:14	0:14:59	7.48	-2.36	458.29	-35.86	34.43	469.40	-140.76	3.24
158	2/11/2019 20:33	2/11/2019 20:51	0:17:20	-41.33	131.00	467.57	7.53	176.38	451.55	-139.09	4.91
159	2/11/2019 21:27	2/11/2019 21:36	0:09:11	22.63	-38.06	458.13	-4.74	-17.50	460.11	-139.15	4.85
160	2/11/2019 22:00	2/11/2019 22:32	0:32:20	-51.29	73.66	473.27	31.23	173.04	453.43	-139.06	4.94
161	2/11/2019 23:05	2/11/2019 23:19	0:13:41	9.26	-51.22	458.33	-30.90	-19.22	467.87	-139.15	4.85
162	2/11/2019 23:33	2/12/2019 0:06	0:33:30	-51.64	45.22	473.74	32.21	150.38	453.46	-138.97	5.03
163	2/12/2019 0:24	2/12/2019 0:50	0:26:20	47.87	-124.21	460.23	-23.66	-50.27	465.40	-139.18	4.82
164	2/12/2019 1:22	2/12/2019 1:42	0:19:59	-21.12	83.78	458.14	36.96	132.71	454.55	-138.91	5.09
165	2/12/2019 1:57	2/12/2019 2:23	0:26:00	47.81	-147.81	460.22	-22.82	-74.81	465.21	-139.20	4.80
166	2/12/2019 2:51	2/12/2019 3:06	0:14:21	-32.09	49.12	463.06	9.99	83.02	451.23	-138.93	5.07
167	2/12/2019 3:08	2/12/2019 3:18	0:10:20	16.45	87.95	451.31	43.40	119.97	456.41	-140.08	3.92
168	2/12/2019 3:28	2/12/2019 4:01	0:32:40	50.70	175.21	460.35	-34.23	-86.62	469.20	-139.18	4.82
169	2/12/2019 5:50	2/12/2019 6:18	0:28:10	-49.72	-34.89	472.29	24.87	47.58	452.10	-139.08	4.92
170	2/12/2019 6:47	2/12/2019 7:10	0:23:00	26.70	175.42	458.50	-39.27	-127.05	470.97	-139.14	4.86
171	2/12/2019 7:21	2/12/2019 7:54	0:32:59	-51.68	-74.59	473.80	30.49	29.49	453.04	-139.10	4.90
172	2/12/2019 8:13	2/12/2019 8:43	0:29:51	45.34	124.13	460.14	-36.99	-154.28	470.14	-139.12	4.88
173	2/12/2019 8:54	2/12/2019 9:28	0:34:11	-51.77	-101.11	473.93	32.36	7.83	453.43	-139.11	4.89
174	2/12/2019 9:58	2/12/2019 10:10	0:11:30	16.43	136.83	458.16	-18.06	162.20	463.71	-139.10	4.90
175	2/12/2019 10:28	2/12/2019 11:01	0:33:10	-51.61	-120.74	473.61	31.58	-16.86	453.28	-139.24	4.76
176	2/12/2019 12:05	2/12/2019 12:33	0:28:10	-49.55	-129.22	472.09	25.29	-47.16	452.17	-139.40	4.60
177	2/12/2019 13:03	2/12/2019 13:23	0:19:49	23.93	82.89	458.34	-33.95	130.30	469.04	-139.14	4.86
178	2/12/2019 13:41	2/12/2019 14:00	0:19:00	-46.38	-141.88	470.38	4.74	-87.28	451.62	-140.33	3.67
179	2/12/2019 14:23	2/12/2019 14:47	0:24:10	51.41	2.52	460.26	-6.98	82.45	460.69	-139.07	4.93
180	2/12/2019 14:49	2/12/2019 15:00	0:11:00	-13.48	87.23	462.29	-42.61	119.96	472.09	-141.30	2.70
181	2/12/2019 15:11	2/12/2019 15:37	0:26:01	-50.78	176.25	473.21	15.36	-103.22	451.43	-139.71	4.29
182	2/12/2019 16:02	2/12/2019 16:25	0:23:01	45.00	6.03	459.90	-18.98	67.81	463.77	-139.11	4.89
183	2/12/2019 16:44	2/12/2019 17:18	0:34:11	-51.00	150.78	473.34	37.05	-105.04	454.71	-138.99	5.01
184	2/12/2019 17:33	2/12/2019 17:44	0:10:59	48.70	-28.90	460.18	23.62	11.81	457.94	-140.97	3.03
185	2/12/2019 18:18	2/12/2019 18:35	0:17:09	-50.72	129.10	473.09	-11.07	-169.91	454.93	-140.51	3.49
186	2/12/2019 19:55	2/12/2019 20:14	0:19:00	-46.96	121.30	470.79	3.68	176.82	451.88	-140.10	3.90
187	2/12/2019 21:00	2/12/2019 21:13	0:13:00	-0.88	-17.03	459.37	-37.72	16.47	470.26	-139.50	4.50
188	2/12/2019 21:36	2/12/2019 21:55	0:18:29	-28.66	127.44	461.50	25.92	170.71	452.38	-138.44	5.56
189	2/12/2019 22:29	2/12/2019 22:44	0:14:50	10.58	-49.00	458.15	-32.81	-13.81	468.65	-139.51	4.49

Table 1 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)
190	2/13/2019 0:05	2/13/2019 0:17	0:11:59	4.44	-68.35	458.71	-30.72	-40.01	467.94	-139.54	4.46
191	2/13/2019 0:45	2/13/2019 1:04	0:19:00	-26.16	82.38	460.40	29.80	127.08	452.83	-139.40	4.60
192	2/13/2019 1:26	2/13/2019 1:43	0:17:29	40.41	-127.42	459.34	-9.28	-82.40	461.28	-139.59	4.41
193	2/13/2019 2:31	2/13/2019 2:42	0:10:49	12.17	87.83	451.18	41.42	119.29	455.66	-138.48	5.52
194	2/13/2019 2:54	2/13/2019 3:24	0:30:10	49.66	-175.72	460.17	-30.47	-87.86	467.97	-139.67	4.33
195	2/13/2019 4:49	2/13/2019 5:00	0:10:51	-5.49	-132.71	460.51	-36.15	-104.70	469.98	-139.78	4.22
196	2/13/2019 5:23	2/13/2019 5:39	0:16:30	-33.05	3.60	463.56	15.37	42.71	451.16	-140.20	3.80
197	2/13/2019 6:01	2/13/2019 6:11	0:09:29	49.76	136.20	460.18	30.18	175.01	458.57	-140.79	3.21
198	2/13/2019 6:24	2/13/2019 6:34	0:10:20	-9.61	-153.52	461.47	-38.25	-125.45	470.75	-139.77	4.23
199	2/13/2019 6:47	2/13/2019 7:19	0:32:20	-51.11	-64.25	473.48	31.98	34.36	453.24	-140.17	3.83
200	2/13/2019 7:37	2/13/2019 8:08	0:31:00	46.96	122.90	460.04	-37.55	-150.29	470.48	-139.76	4.24
201	2/13/2019 8:19	2/13/2019 8:47	0:27:50	-51.60	-93.63	473.91	16.58	-3.92	451.19	-140.20	3.80
202	2/13/2019 8:48	2/13/2019 8:52	0:04:31	18.54	-2.33	451.30	31.19	9.68	453.07	-140.72	3.28
203	2/13/2019 9:16	2/13/2019 9:39	0:22:10	34.35	122.54	458.86	-29.98	176.45	467.73	-139.75	4.25
204	2/13/2019 9:53	2/13/2019 10:21	0:27:51	-51.52	-116.21	473.74	17.18	-27.22	451.20	-140.10	3.90
205	2/13/2019 10:22	2/13/2019 10:26	0:04:09	19.62	-25.22	451.38	31.30	-13.99	453.10	-140.63	3.37
206	2/13/2019 11:28	2/13/2019 11:58	0:29:50	-50.36	-130.25	472.83	27.78	-41.53	452.48	-140.40	3.60
207	2/13/2019 12:26	2/13/2019 12:58	0:31:41	28.41	81.74	458.44	-51.45	179.95	474.46	-139.18	4.82
208	2/13/2019 12:59	2/13/2019 13:29	0:29:01	-51.74	-168.25	474.10	18.38	-73.82	451.43	-140.39	3.61
209	2/13/2019 13:30	2/13/2019 13:46	0:15:40	22.25	-70.54	451.78	51.78	-4.78	459.71	-139.82	4.18
210	2/13/2019 13:48	2/13/2019 14:10	0:22:19	51.19	8.01	460.10	-2.63	82.54	459.28	-140.87	3.13
211	2/13/2019 14:12	2/13/2019 14:23	0:11:11	-9.16	87.21	459.92	-39.83	118.13	461.45	-139.65	4.35
212	2/13/2019 14:45	2/13/2019 15:02	0:17:00	-30.41	-136.07	430.99	20.12	-96.11	413.74	-139.76	4.24
213	2/13/2019 15:03	2/13/2019 15:05	0:02:10	22.55	-94.01	413.29	28.67	-88.14	412.17	-139.92	4.08
214	2/13/2019 15:08	2/13/2019 15:16	0:08:50	34.46	-81.49	411.08	50.78	-41.76	405.43	-139.29	4.71
215	2/13/2019 15:19	2/13/2019 15:52	0:33:10	51.78	-28.92	403.48	-29.27	80.76	393.76	-138.22	5.78
216	2/13/2019 15:56	2/13/2019 16:12	0:15:01	-41.04	96.65	400.09	-45.46	176.47	410.56	-138.57	5.43
217	2/13/2019 16:27	2/13/2019 16:35	0:07:40	-2.23	-136.23	403.65	20.96	-118.88	403.20	-139.58	4.42
218	2/13/2019 16:36	2/13/2019 16:41	0:04:20	23.86	-116.31	403.33	35.64	-103.43	404.04	-138.50	5.50
219	2/13/2019 16:55	2/13/2019 17:06	0:10:31	49.62	-29.19	399.30	26.66	12.59	388.59	-139.36	4.64
220	2/13/2019 17:40	2/13/2019 17:57	0:17:11	-50.58	133.80	410.14	-9.97	-165.26	404.50	-139.81	4.19
221	2/13/2019 18:32	2/13/2019 18:47	0:14:41	42.01	-31.22	394.81	0.77	9.59	385.23	-139.30	4.70
222	2/13/2019 19:00	2/13/2019 19:13	0:12:30	-38.17	44.99	398.24	-50.61	110.13	410.03	-139.18	4.82
223	2/13/2019 19:15	2/13/2019 19:41	0:26:00	-48.30	121.02	410.38	22.70	-164.31	403.28	-139.41	4.59
224	2/13/2019 19:41	2/13/2019 19:55	0:13:01	25.57	-161.66	403.44	51.38	-106.94	403.07	-138.82	5.18
225	2/13/2019 20:00	2/13/2019 20:08	0:07:51	49.50	-75.60	399.34	33.67	-42.05	391.20	-139.30	4.70
226	2/13/2019 20:31	2/13/2019 20:50	0:18:31	-35.19	17.30	396.48	-43.41	110.77	375.11	-139.22	4.78
227	2/13/2019 20:52	2/13/2019 21:25	0:32:40	-38.58	119.45	366.96	50.08	-139.83	298.17	-137.20	6.80
228	2/13/2019 21:27	2/13/2019 21:58	0:31:09	51.56	-127.95	297.39	-23.16	-18.73	291.01	-135.65	8.35
229	2/13/2019 22:00	2/13/2019 22:35	0:35:49	-28.95	-13.10	293.80	0.41	132.30	299.80	-136.30	7.70
230	2/13/2019 23:19	2/13/2019 23:31	0:12:10	3.53	-61.96	283.59	-33.24	-31.22	296.06	-135.67	8.33
231	2/13/2019 23:34	2/14/2019 0:18	0:44:10	-38.79	-23.58	299.25	36.15	141.04	298.47	-136.52	7.48
232	2/14/2019 0:35	2/14/2019 0:59	0:24:10	44.44	-128.93	291.33	-25.93	-62.07	292.24	-135.62	8.38
233	2/14/2019 2:18	2/14/2019 2:28	0:09:40	9.45	-112.15	283.34	-20.68	-89.79	289.89	-135.78	8.22
234	2/14/2019 2:54	2/14/2019 3:17	0:23:59	-37.39	29.37	308.22	33.84	92.10	298.36	-136.85	7.15
235	2/14/2019 3:50	2/14/2019 4:05	0:14:59	4.04	-131.20	283.52	-40.00	-90.50	299.73	-135.67	8.33
236	2/14/2019 5:02	2/14/2019 5:13	0:11:19	50.61	140.33	294.92	26.30	-172.02	285.32	-136.72	7.28
237	2/14/2019 5:28	2/14/2019 5:37	0:09:11	-19.03	-137.11	289.03	-43.47	-106.95	301.74	-135.66	8.34
238	2/14/2019 6:25	2/14/2019 6:41	0:16:00	47.93	73.35	298.23	34.03	156.51	287.42	-136.95	7.05
239	2/14/2019 6:41	2/14/2019 7:01	0:19:30	32.68	158.16	287.00	-26.62	-153.24	292.26	-135.93	8.07
240	2/14/2019 7:17	2/14/2019 7:30	0:13:19	-50.47	-73.23	309.67	-20.15	-20.89	303.18	-137.20	6.80
241	2/14/2019 8:12	2/14/2019 8:34	0:21:01	29.28	139.04	285.93	-34.20	-167.79	295.97	-135.58	8.42
242	2/14/2019 8:47	2/14/2019 9:14	0:26:30	-50.85	-98.73	309.36	19.29	-14.32	297.77	-136.83	7.17
243	2/14/2019 9:16	2/14/2019 9:50	0:34:39	25.22	-9.05	297.83	6.91	134.90	283.16	-136.70	7.30
244	2/14/2019 10:32	2/14/2019 10:51	0:19:10	-18.74	-65.63	302.57	38.50	-16.27	298.32	-136.56	7.44
245	2/14/2019 11:55	2/14/2019 12:19	0:24:49	-38.50	-110.06	307.61	34.87	-44.36	298.26	-136.51	7.49
246	2/14/2019 12:28	2/14/2019 12:36	0:08:20	50.36	-7.82	297.87	46.90	40.98	292.70	-136.48	7.52
247	2/14/2019 12:51	2/14/2019 13:06	0:14:50	4.92	90.41	283.19	-38.94	130.01	298.50	-135.61	8.39
248	2/14/2019 13:32	2/14/2019 13:44	0:12:39	-19.34	-112.05	302.87	19.89	-82.69	297.91	-136.83	7.17
249	2/14/2019 14:04	2/14/2019 14:35	0:31:20	49.87	6.76	294.35	-36.21	103.02	299.02	-135.73	8.27
250	2/14/2019 14:48	2/14/2019 15:17	0:28:59	-50.91	168.99	316.17	26.24	-99.94	308.84	-136.39	7.61
251	2/14/2019 15:39	2/14/2019 16:03	0:23:41	40.88	8.56	307.32	-28.92	71.26	313.27	-136.67	7.33
252	2/14/2019 17:11	2/14/2019 17:31	0:20:30	39.92	-12.82	307.07	-20.92	40.66	309.86	-136.96	7.04

Table 1 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)
253	2/14/2019 18:36	2/14/2019 19:07	0:30:40	49.57	-60.79	309.93	-34.80	32.03	315.86	-136.66	7.34
254	2/14/2019 19:46	2/14/2019 19:56	0:10:10	16.58	-177.50	308.42	43.81	-144.62	310.78	-136.79	7.21
255	2/14/2019 20:26	2/14/2019 20:39	0:12:31	-1.91	-19.85	304.54	-38.38	14.04	317.64	-136.30	7.70
256	2/14/2019 20:53	2/14/2019 21:19	0:26:11	-47.52	92.48	324.09	26.25	167.92	308.74	-137.11	6.89
257	2/14/2019 22:21	2/14/2019 22:53	0:32:10	-50.84	54.27	325.08	35.20	154.94	309.45	-136.90	7.10
258	2/14/2019 23:08	2/14/2019 23:39	0:31:20	49.46	-129.42	309.83	-36.74	-34.47	316.96	-136.63	7.37
259	2/14/2019 23:51	2/15/2019 0:25	0:33:30	-51.15	28.78	325.11	37.54	135.16	309.70	-136.95	7.05
260	2/15/2019 1:13	2/15/2019 1:28	0:14:50	-44.49	-43.69	320.86	-41.93	36.89	322.26	-136.36	7.64
261	2/15/2019 1:28	2/15/2019 1:46	0:18:01	-40.81	38.94	321.85	11.99	86.80	308.23	-137.11	6.89
262	2/15/2019 1:49	2/15/2019 1:59	0:10:10	18.62	92.00	308.18	45.13	126.30	310.76	-137.03	6.97
263	2/15/2019 2:11	2/15/2019 2:39	0:27:29	45.57	-162.57	308.72	-33.27	-85.08	315.37	-136.55	7.45
264	2/15/2019 3:05	2/15/2019 3:25	0:20:00	-26.16	34.56	316.33	34.12	84.44	309.33	-137.09	6.91
265	2/15/2019 3:40	2/15/2019 3:54	0:13:21	48.22	166.45	309.57	14.45	-146.91	303.47	-137.29	6.71
266	2/15/2019 4:48	2/15/2019 5:22	0:34:39	12.51	41.12	308.13	20.27	-174.65	303.80	-136.45	7.55
267	2/15/2019 6:22	2/15/2019 6:56	0:34:20	24.33	27.88	308.34	9.28	170.91	303.49	-136.00	8.00
268	2/15/2019 7:25	2/15/2019 7:46	0:21:19	-50.24	-80.04	324.67	5.27	-10.25	308.56	-137.58	6.42
269	2/15/2019 7:58	2/15/2019 8:29	0:31:00	38.99	22.18	309.90	2.76	152.56	303.95	-135.69	8.31
270	2/15/2019 8:56	2/15/2019 9:14	0:18:40	-50.47	-104.49	324.58	-3.85	-39.75	309.80	-137.63	6.37
271	2/15/2019 9:59	2/15/2019 10:07	0:08:21	6.14	127.11	303.67	-19.72	146.24	309.52	-137.41	6.59
272	2/15/2019 10:27	2/15/2019 10:54	0:26:51	-49.87	-124.17	324.37	23.14	-42.32	308.25	-137.02	6.98
273	2/15/2019 12:00	2/15/2019 12:19	0:19:21	-46.37	-134.46	323.35	7.65	-77.65	308.40	-137.65	6.35
274	2/15/2019 13:04	2/15/2019 13:16	0:12:00	-7.98	91.08	305.78	-41.74	126.30	319.13	-136.53	7.47
275	2/15/2019 13:34	2/15/2019 13:55	0:21:29	-39.20	-142.66	321.03	24.62	-87.04	308.53	-136.98	7.02
276	2/15/2019 14:15	2/15/2019 14:23	0:08:09	46.72	9.99	308.98	27.07	40.89	304.32	-137.28	6.72
277	2/15/2019 15:00	2/15/2019 15:28	0:28:00	-46.93	177.85	323.74	32.40	-101.96	309.28	-136.98	7.02
278	2/15/2019 15:56	2/15/2019 16:12	0:16:50	22.93	21.76	303.64	-28.53	62.26	312.67	-137.22	6.78
279	2/15/2019 16:31	2/15/2019 17:04	0:33:19	-47.60	152.74	323.84	44.21	-106.24	310.73	-136.99	7.01
280	2/15/2019 18:04	2/15/2019 18:35	0:31:19	-42.40	142.58	322.04	45.67	-125.76	310.89	-136.95	7.05
281	2/15/2019 19:40	2/15/2019 20:06	0:26:00	-30.05	137.15	317.48	44.90	-150.73	310.84	-136.89	7.11
282	2/15/2019 20:22	2/15/2019 20:42	0:19:50	38.20	-64.75	306.64	-21.06	-13.88	309.65	-137.12	6.88
283	2/15/2019 21:19	2/15/2019 21:33	0:13:31	-1.64	137.52	309.51	38.07	173.44	309.83	-137.02	6.98
284	2/15/2019 21:56	2/15/2019 22:21	0:25:00	29.60	-76.90	304.76	-43.24	-8.96	319.73	-135.83	8.17
285	2/15/2019 23:18	2/15/2019 23:49	0:30:30	47.76	-131.44	309.15	-37.72	-41.64	316.99	-136.46	7.54
286	2/16/2019 0:02	2/16/2019 0:35	0:33:10	-50.26	26.39	324.43	39.32	129.31	309.88	-137.00	7.00
287	2/16/2019 0:53	2/16/2019 1:14	0:20:40	38.76	-134.72	306.75	-22.85	-81.41	310.51	-136.90	7.10
288	2/16/2019 1:31	2/16/2019 1:43	0:11:39	-51.16	-2.94	324.66	-27.64	47.54	316.52	-137.96	6.04
289	2/16/2019 2:39	2/16/2019 3:10	0:30:29	-7.36	-116.70	305.55	-36.83	13.59	319.78	-135.91	8.09
290	2/16/2019 3:50	2/16/2019 4:23	0:32:40	47.33	160.84	309.23	-43.30	-100.99	319.64	-135.86	8.14
291	2/16/2019 5:10	2/16/2019 5:24	0:13:51	46.79	76.06	310.89	41.25	151.98	307.52	-136.58	7.42
292	2/16/2019 5:46	2/16/2019 6:20	0:34:39	-23.65	-149.80	310.75	-9.32	-6.20	310.73	-136.01	7.99
293	2/16/2019 6:47	2/16/2019 7:03	0:15:31	51.46	93.23	310.71	17.74	155.83	303.38	-136.33	7.67
294	2/16/2019 7:35	2/16/2019 8:01	0:26:29	-49.59	-85.29	323.94	22.90	-5.05	308.06	-136.97	7.03
295	2/16/2019 8:34	2/16/2019 8:54	0:20:00	14.92	135.04	303.25	-43.18	-170.35	319.40	-135.95	8.05
296	2/16/2019 9:05	2/16/2019 9:28	0:22:10	-49.87	-109.67	323.90	8.97	-39.20	307.94	-136.96	7.04
297	2/16/2019 10:38	2/16/2019 11:04	0:26:59	-47.73	-124.12	323.22	28.27	-45.98	308.54	-137.02	6.98
298	2/16/2019 12:14	2/16/2019 12:37	0:23:20	-36.28	-123.85	319.34	33.12	-63.60	309.16	-137.10	6.90
299	2/16/2019 13:43	2/16/2019 13:58	0:14:51	-39.73	-152.09	320.78	3.59	-112.18	308.69	-137.45	6.55
300	2/16/2019 14:37	2/16/2019 14:55	0:17:11	12.75	44.56	302.84	-38.33	88.92	316.86	-136.84	7.16
301	2/16/2019 15:11	2/16/2019 15:42	0:30:21	-43.58	177.66	322.10	42.54	-95.30	310.43	-135.93	8.07
302	2/16/2019 15:59	2/16/2019 16:21	0:22:00	38.96	-5.40	306.66	-26.50	51.64	311.38	-136.70	7.30
303	2/16/2019 16:52	2/16/2019 17:12	0:20:00	-18.57	-174.59	313.38	40.52	-122.08	310.15	-136.13	7.87
304	2/16/2019 17:28	2/16/2019 18:02	0:34:50	42.92	-35.51	307.72	-50.38	74.60	322.85	-136.04	7.96
305	2/16/2019 18:12	2/16/2019 18:24	0:11:41	-45.19	127.92	322.42	-14.22	165.83	312.04	-138.08	5.92
306	2/16/2019 18:55	2/16/2019 19:27	0:31:40	48.22	-72.49	309.43	-39.80	22.17	317.42	-134.90	9.10
307	2/16/2019 20:00	2/16/2019 20:15	0:15:40	2.69	155.04	308.64	45.79	-157.07	310.85	-135.71	8.29
308	2/16/2019 20:25	2/16/2019 20:59	0:33:30	49.44	-100.42	309.90	-41.92	2.88	318.57	-135.09	8.91
309	2/16/2019 21:21	2/16/2019 21:42	0:20:30	-24.65	110.98	315.07	36.77	162.96	309.47	-137.60	6.40
310	2/16/2019 21:56	2/16/2019 22:29	0:33:01	48.89	-121.11	309.59	-41.76	-20.45	318.52	-135.64	8.36
311	2/16/2019 22:41	2/16/2019 23:14	0:32:40	-49.46	44.93	323.73	39.85	144.65	309.77	-137.59	6.41
312	2/16/2019 23:28	2/16/2019 23:42	0:13:10	46.10	-135.07	308.59	10.99	-92.33	302.93	-135.65	8.35
313	2/17/2019 0:11	2/17/2019 0:45	0:33:40	-50.11	18.70	323.90	40.85	123.33	310.01	-137.34	6.66
314	2/17/2019 1:04	2/17/2019 1:22	0:17:41	34.13	-136.81	305.65	-19.34	-93.01	308.84	-136.95	7.05
315	2/17/2019 1:41	2/17/2019 1:56	0:15:09	-50.35	-5.70	323.93	-14.29	50.60	311.78	-137.42	6.58

Table 1 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)
316	2/17/2019 2:32	2/17/2019 3:00	0:27:21	39.76	-167.93	307.03	-39.75	-93.09	317.52	-136.35	7.65
317	2/17/2019 3:36	2/17/2019 4:10	0:33:21	14.53	48.55	307.64	22.29	-170.52	303.71	-135.63	8.37
318	2/17/2019 4:53	2/17/2019 5:07	0:14:09	-27.11	-6.57	315.66	16.36	26.95	307.62	-137.62	6.38
319	2/17/2019 5:31	2/17/2019 6:05	0:33:41	45.71	133.83	308.69	-46.95	-123.54	320.97	-135.54	8.46
320	2/17/2019 6:11	2/17/2019 6:45	0:34:30	-51.66	-86.97	323.90	37.38	25.63	309.45	-137.25	6.75
321	2/17/2019 7:03	2/17/2019 7:18	0:15:29	43.21	116.59	307.92	-0.94	161.06	303.97	-135.35	8.65
322	2/17/2019 7:45	2/17/2019 8:18	0:32:50	-48.71	-90.13	323.12	41.57	9.45	310.07	-136.93	7.07
323	2/17/2019 8:21	2/17/2019 9:04	0:42:50	47.93	25.01	310.94	-43.56	-178.09	319.13	-135.38	8.62
324	2/17/2019 9:15	2/17/2019 9:36	0:20:59	-49.03	-114.43	323.14	7.49	-48.84	307.74	-137.55	6.45
325	2/17/2019 10:47	2/17/2019 11:09	0:22:20	-47.68	-132.53	322.72	14.50	-66.64	307.61	-137.41	6.59
326	2/17/2019 12:20	2/17/2019 12:39	0:19:19	-42.13	-141.89	321.04	14.29	-89.85	307.73	-137.39	6.61
327	2/17/2019 13:52	2/17/2019 14:13	0:21:09	-39.64	-160.50	320.28	23.12	-105.55	308.08	-137.27	6.73
328	2/17/2019 15:20	2/17/2019 15:51	0:31:11	-44.82	166.31	321.99	43.00	-102.94	310.37	-136.62	7.38
329	2/17/2019 16:10	2/17/2019 16:29	0:19:19	34.20	-7.24	305.40	-24.23	40.92	310.09	-136.95	7.05
330	2/17/2019 16:52	2/17/2019 17:24	0:32:20	-42.58	148.15	321.16	47.28	-115.30	310.88	-136.63	7.37
331	2/17/2019 17:37	2/17/2019 17:51	0:13:51	42.09	-42.41	307.41	2.64	-2.71	303.07	-136.68	7.32
332	2/17/2019 18:25	2/17/2019 18:55	0:30:30	-37.29	134.03	319.17	47.97	-136.10	311.00	-136.58	7.42
333	2/17/2019 19:05	2/17/2019 19:37	0:31:50	47.35	-78.14	309.09	-41.47	16.53	317.86	-136.81	7.19
334	2/17/2019 19:55	2/17/2019 20:25	0:30:10	-38.68	108.90	319.62	46.50	-163.69	310.76	-136.40	7.60
335	2/17/2019 20:37	2/17/2019 21:07	0:29:11	43.78	-91.93	308.00	-39.79	-9.44	317.18	-136.83	7.17
336	2/17/2019 22:13	2/17/2019 22:39	0:26:10	33.12	-98.04	305.20	-43.00	-26.57	318.72	-136.87	7.13
337	2/17/2019 22:50	2/17/2019 23:23	0:32:51	-48.72	39.51	323.04	41.56	139.10	309.88	-135.79	8.21
338	2/17/2019 23:38	2/17/2019 23:59	0:21:01	44.38	-139.34	308.05	-16.26	-81.04	307.47	-136.84	7.16

Max. Exceedance: 9.10 dB



Table 2 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	2/7/2019 15:59	2/7/2019 16:15	0:15:31	49.40	-25.46	411.95	33.61	52.37	412.03	-139.07	4.93
2	2/7/2019 16:30	2/7/2019 16:43	0:12:31	-10.67	88.63	413.49	-44.01	126.43	423.61	-139.10	4.90
3	2/7/2019 17:36	2/7/2019 17:58	0:22:10	51.79	-25.66	413.29	2.50	55.68	411.11	-139.04	4.96
4	2/7/2019 18:15	2/7/2019 18:30	0:14:30	-44.37	103.70	423.71	-43.45	-178.57	420.17	-139.24	4.76
5	2/7/2019 19:21	2/7/2019 19:41	0:19:39	30.87	8.49	411.39	-27.37	55.61	417.96	-139.04	4.96
6	2/7/2019 19:52	2/7/2019 20:04	0:12:00	-50.77	103.25	425.22	-39.02	165.96	417.90	-139.20	4.80
7	2/7/2019 21:32	2/7/2019 21:45	0:13:01	-48.32	121.14	422.57	-16.67	166.33	408.45	-139.00	5.00
8	2/7/2019 22:35	2/7/2019 22:49	0:13:51	4.88	-16.64	410.87	-35.47	17.81	420.75	-139.05	4.95
9	2/7/2019 23:19	2/7/2019 23:32	0:12:20	-12.62	145.93	407.18	24.61	174.08	405.04	-138.90	5.10
10	2/8/2019 0:17	2/8/2019 0:29	0:12:10	-20.87	-21.03	416.11	-49.09	23.71	425.06	-139.16	4.84
11	2/8/2019 0:38	2/8/2019 0:53	0:14:41	-48.03	75.09	422.48	-11.05	123.55	406.63	-138.96	5.04
12	2/8/2019 1:55	2/8/2019 2:06	0:11:00	-35.14	-29.71	420.88	-51.79	23.27	425.28	-139.26	4.74
13	2/8/2019 2:25	2/8/2019 2:36	0:11:39	-13.01	98.54	407.21	22.32	124.90	404.46	-138.89	5.11
14	2/8/2019 3:10	2/8/2019 3:22	0:12:40	15.80	-95.37	410.56	-22.44	-66.76	416.70	-139.04	4.96
15	2/8/2019 3:33	2/8/2019 3:48	0:15:00	-48.25	-26.67	425.00	-37.20	50.99	416.99	-139.18	4.82
16	2/8/2019 4:07	2/8/2019 4:19	0:12:00	18.47	98.08	404.02	47.78	139.97	411.01	-138.90	5.10
17	2/8/2019 5:09	2/8/2019 5:31	0:22:50	-50.98	-36.42	425.54	-7.84	55.27	405.78	-138.94	5.06
18	2/8/2019 5:45	2/8/2019 5:57	0:12:40	31.75	87.25	406.24	51.78	146.88	413.20	-138.95	5.05
19	2/8/2019 6:53	2/8/2019 7:15	0:22:09	-40.26	-0.90	418.40	23.92	55.71	404.70	-138.89	5.11
20	2/8/2019 7:27	2/8/2019 7:40	0:12:50	50.90	107.60	412.32	36.53	173.08	412.26	-139.08	4.92
21	2/8/2019 9:05	2/8/2019 9:18	0:12:29	50.46	114.70	413.51	23.41	164.05	410.97	-139.05	4.95
22	2/8/2019 9:36	2/8/2019 9:47	0:11:41	-29.67	-153.91	419.12	-51.42	-102.85	425.45	-139.22	4.78
23	2/8/2019 10:35	2/8/2019 10:46	0:11:11	51.80	74.58	413.07	34.76	128.38	411.98	-139.07	4.93
24	2/8/2019 11:15	2/8/2019 11:31	0:15:01	-46.28	-150.54	424.43	-40.13	-71.31	418.26	-139.20	4.80
25	2/8/2019 12:12	2/8/2019 12:24	0:11:50	48.93	75.15	413.47	21.37	118.76	410.89	-139.05	4.95
26	2/8/2019 12:52	2/8/2019 13:11	0:18:50	-51.16	-152.64	425.33	-19.08	-71.08	408.92	-139.01	4.99
27	2/8/2019 13:52	2/8/2019 14:12	0:19:30	33.80	82.50	411.95	-23.77	129.62	417.17	-139.05	4.95
28	2/8/2019 14:33	2/8/2019 14:56	0:22:20	-45.55	-129.52	421.08	16.88	-68.03	403.88	-138.89	5.11
29	2/8/2019 15:05	2/8/2019 15:22	0:16:31	43.22	-36.68	409.46	40.27	49.59	412.69	-139.02	4.98
30	2/8/2019 15:39	2/8/2019 15:47	0:07:10	-10.01	94.96	413.46	-30.79	113.12	419.42	-139.10	4.90
31	2/8/2019 15:49	2/8/2019 16:33	0:44:21	-36.40	120.08	421.34	31.21	-78.19	408.24	-137.33	6.67
32	2/8/2019 16:35	2/8/2019 17:05	0:29:31	36.39	-71.71	409.84	12.89	54.94	415.37	-136.65	7.35
33	2/8/2019 17:07	2/8/2019 17:16	0:09:20	6.33	59.77	415.51	-21.83	80.78	419.98	-137.29	6.71
34	2/8/2019 17:18	2/8/2019 17:57	0:39:10	-27.98	86.57	421.59	6.76	-122.75	404.74	-137.56	6.44
35	2/8/2019 18:10	2/8/2019 18:49	0:38:40	41.41	-87.32	411.64	-21.25	56.72	419.74	-136.76	7.24
36	2/8/2019 18:51	2/8/2019 19:05	0:13:49	-27.42	62.45	421.35	-51.79	123.86	426.27	-138.14	5.86
37	2/8/2019 19:07	2/8/2019 19:28	0:20:50	-51.13	136.72	425.24	-1.00	-151.80	405.22	-137.43	6.57
38	2/8/2019 19:47	2/8/2019 20:26	0:38:30	49.48	-88.98	415.13	-33.60	45.73	444.32	-138.05	5.95
39	2/8/2019 20:28	2/8/2019 20:41	0:12:49	-38.94	53.15	449.27	-50.15	119.82	467.11	-138.71	5.29
40	2/8/2019 20:43	2/8/2019 20:54	0:11:10	-47.36	131.12	467.26	-20.57	169.83	457.77	-137.80	6.20
41	2/8/2019 21:24	2/8/2019 22:00	0:35:50	51.79	-91.14	460.74	-35.45	24.31	468.81	-138.93	5.07
42	2/8/2019 22:02	2/8/2019 22:34	0:31:30	-40.20	31.43	470.42	-3.06	159.32	452.83	-138.04	5.96
43	2/8/2019 23:02	2/8/2019 23:43	0:40:50	49.52	-92.66	461.18	-51.00	40.64	473.51	-138.69	5.31
44	2/8/2019 23:45	2/9/2019 0:22	0:37:20	-51.79	53.32	473.31	39.17	174.05	455.86	-138.63	5.37
45	2/9/2019 0:42	2/9/2019 1:18	0:35:21	36.82	-87.02	459.83	-51.63	23.84	473.58	-138.52	5.48
46	2/9/2019 1:19	2/9/2019 1:29	0:09:10	-51.64	35.66	473.10	-37.73	79.76	465.28	-139.01	4.99
47	2/9/2019 1:31	2/9/2019 1:59	0:28:21	-32.28	86.90	462.64	46.09	164.35	457.84	-137.72	6.28
48	2/9/2019 2:22	2/9/2019 2:34	0:11:41	19.04	-92.13	458.36	-15.93	-66.35	462.81	-139.17	4.83
49	2/9/2019 2:42	2/9/2019 2:56	0:14:30	-36.54	-45.55	469.45	-49.46	28.12	471.56	-138.38	5.62
50	2/9/2019 3:14	2/9/2019 3:30	0:15:40	-4.75	86.76	452.99	39.72	127.38	455.92	-139.01	4.99
51	2/9/2019 3:42	2/9/2019 4:07	0:25:00	50.59	-169.83	461.05	-13.08	-92.34	462.16	-138.74	5.26
52	2/9/2019 5:35	2/9/2019 5:48	0:13:10	3.40	-127.95	459.15	-34.65	-95.66	468.89	-139.19	4.81
53	2/9/2019 6:00	2/9/2019 6:22	0:21:50	-51.70	-37.02	473.21	-2.51	40.77	452.52	-137.25	6.75
54	2/9/2019 6:47	2/9/2019 6:56	0:08:49	51.73	130.42	460.81	39.25	174.17	460.19	-139.36	4.64
55	2/9/2019 7:13	2/9/2019 7:23	0:09:20	-10.80	-141.62	461.63	-36.81	-116.54	469.61	-139.28	4.72
56	2/9/2019 7:32	2/9/2019 8:01	0:29:59	-51.41	-74.37	473.62	15.20	29.81	451.44	-137.35	6.65
57	2/9/2019 9:05	2/9/2019 9:40	0:34:50	-51.35	-98.91	473.64	28.68	17.99	453.13	-137.58	6.42
58	2/9/2019 10:42	2/9/2019 10:55	0:13:40	-51.42	-103.83	472.78	-24.40	-47.65	459.00	-137.60	6.40
59	2/9/2019 10:58	2/9/2019 11:15	0:17:59	-18.64	-42.65	456.77	34.09	0.36	454.34	-137.80	6.20
60	2/9/2019 11:25	2/9/2019 11:46	0:21:49	50.86	41.08	459.82	11.99	130.68	458.55	-138.57	5.43
61	2/9/2019 12:19	2/9/2019 12:33	0:14:50	-48.31	-109.98	470.70	-11.62	-60.95	454.49	-137.49	6.51
62	2/9/2019 13:01	2/9/2019 13:33	0:31:50	51.69	36.15	460.87	-27.17	136.99	466.31	-138.46	5.54
63	2/9/2019 13:50	2/9/2019 14:15	0:25:00	-50.70	-145.23	472.22	12.66	-67.28	451.37	-137.40	6.60
64	2/9/2019 14:34	2/9/2019 15:06	0:32:01	51.79	6.64	460.70	-24.95	111.06	465.58	-138.47	5.53
65	2/9/2019 15:24	2/9/2019 15:47	0:23:09	-50.93	-170.71	472.56	6.25	-95.77	451.64	-137.36	6.64
66	2/9/2019 16:14	2/9/2019 16:36	0:21:41	46.27	16.98	460.81	-12.96	77.27	461.96	-138.61	5.39
67	2/9/2019 16:55	2/9/2019 17:28	0:33:19	-51.79	152.07	473.54	29.18	-100.43	453.41	-137.32	6.68
68	2/9/2019 17:45	2/9/2019 18:12	0:26:31	49.77	-19.34	460.91	-19.93	59.02	463.80	-138.44	5.56

Table 2 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)
69	2/9/2019 18:30	2/9/2019 19:04	0:34:21	-51.55	135.39	473.11	34.97	-117.44	454.70	-137.19	6.81
70	2/9/2019 19:21	2/9/2019 19:47	0:25:51	45.85	-29.48	460.63	-25.73	40.43	465.60	-138.40	5.60
71	2/9/2019 20:06	2/9/2019 20:23	0:17:00	-49.17	127.71	471.47	-7.06	-176.56	453.71	-137.03	6.97
72	2/9/2019 21:00	2/9/2019 21:22	0:21:30	34.38	-32.99	459.31	-28.14	19.03	466.44	-138.60	5.40
73	2/9/2019 21:34	2/9/2019 21:47	0:12:21	-51.56	73.49	473.61	-35.33	133.87	464.21	-138.94	5.06
74	2/9/2019 21:49	2/9/2019 22:07	0:17:30	-29.68	140.58	461.57	22.02	-178.66	452.23	-137.21	6.79
75	2/9/2019 22:40	2/9/2019 22:55	0:15:40	18.62	-41.02	458.26	-27.78	-5.12	466.43	-139.60	4.40
76	2/9/2019 23:07	2/9/2019 23:41	0:34:39	-50.66	41.28	473.67	25.44	160.68	452.61	-137.32	6.68
77	2/10/2019 0:17	2/10/2019 0:28	0:10:50	6.60	-55.68	458.65	-25.58	-31.08	465.81	-139.66	4.34
78	2/10/2019 0:51	2/10/2019 1:16	0:24:41	-41.42	76.89	467.33	28.78	140.21	453.04	-137.33	6.67
79	2/10/2019 1:31	2/10/2019 1:53	0:22:10	51.60	-152.41	460.52	0.43	-75.10	459.36	-138.72	5.28
80	2/10/2019 2:18	2/10/2019 2:50	0:31:41	-51.48	17.54	473.16	28.42	116.06	452.99	-137.80	6.20
81	2/10/2019 3:02	2/10/2019 3:34	0:32:29	51.48	169.21	459.98	-22.96	-81.06	465.10	-138.65	5.35
82	2/10/2019 3:56	2/10/2019 4:12	0:15:31	-46.73	17.26	470.25	-6.50	64.91	453.39	-137.98	6.02
83	2/10/2019 5:00	2/10/2019 5:12	0:12:20	2.74	-124.29	459.19	-33.08	-94.43	468.51	-139.58	4.42
84	2/10/2019 5:28	2/10/2019 5:37	0:09:50	-49.51	-16.50	471.80	-28.73	22.65	461.11	-138.92	5.08
85	2/10/2019 6:37	2/10/2019 6:47	0:10:01	-9.96	-139.05	461.47	-37.74	-112.01	470.08	-139.70	4.30
86	2/10/2019 6:59	2/10/2019 7:15	0:16:59	-51.63	-56.12	473.28	-16.26	10.04	456.08	-138.04	5.96
87	2/10/2019 8:31	2/10/2019 9:05	0:33:30	-51.79	-84.62	473.56	30.18	22.77	453.27	-137.67	6.33
88	2/10/2019 9:30	2/10/2019 9:38	0:07:51	32.33	139.23	459.23	9.95	159.17	458.55	-138.21	5.79
89	2/10/2019 10:13	2/10/2019 10:27	0:14:00	-40.94	-64.96	466.95	-2.02	-27.06	452.35	-138.34	5.66
90	2/10/2019 12:45	2/10/2019 12:54	0:09:00	11.22	110.66	458.54	-15.86	130.28	462.97	-139.33	4.67
91	2/10/2019 13:21	2/10/2019 13:38	0:17:20	-41.50	-113.56	467.21	7.31	-68.03	451.36	-137.82	6.18
92	2/10/2019 14:00	2/10/2019 14:17	0:16:51	51.67	16.09	460.68	17.05	82.38	458.38	-137.72	6.28
93	2/10/2019 14:19	2/10/2019 14:36	0:17:09	10.61	87.32	458.51	-38.57	130.32	470.35	-139.38	4.62
94	2/10/2019 15:03	2/10/2019 15:11	0:07:21	-16.69	-109.25	456.38	5.40	-93.19	451.63	-138.02	5.98
95	2/10/2019 15:37	2/10/2019 16:03	0:26:01	48.51	13.03	460.77	-21.42	87.28	464.48	-137.80	6.20
96	2/10/2019 16:28	2/10/2019 16:45	0:17:00	-40.61	-159.54	467.13	7.52	-115.46	451.62	-138.04	5.96
97	2/10/2019 17:08	2/10/2019 17:21	0:13:40	51.28	-26.19	460.60	23.59	29.24	458.24	-139.78	4.22
98	2/10/2019 18:45	2/10/2019 19:12	0:26:20	46.62	-28.38	460.48	-25.88	43.77	465.77	-137.67	6.33
99	2/10/2019 19:30	2/10/2019 19:40	0:09:40	-50.06	126.71	472.22	-30.53	166.63	462.17	-139.18	4.82
100	2/10/2019 20:24	2/10/2019 20:47	0:22:41	36.33	-32.39	459.34	-29.20	23.32	466.92	-137.61	6.39
101	2/10/2019 21:02	2/10/2019 21:28	0:25:19	-51.03	96.59	472.82	12.37	176.75	451.47	-138.09	5.91
102	2/10/2019 22:04	2/10/2019 22:21	0:16:01	17.48	-36.90	458.13	-29.75	0.12	467.21	-138.84	5.16
103	2/10/2019 22:32	2/10/2019 23:06	0:33:41	-51.38	50.51	473.91	25.59	164.01	452.52	-137.98	6.02
104	2/10/2019 23:41	2/10/2019 23:56	0:14:41	7.94	-53.45	458.50	-34.64	-17.93	469.07	-139.39	4.61
105	2/11/2019 0:15	2/11/2019 0:33	0:18:40	-43.73	75.50	468.73	8.09	126.02	451.36	-137.82	6.18
106	2/11/2019 1:02	2/11/2019 1:23	0:20:49	42.21	-113.28	459.94	-16.74	-59.33	463.17	-137.63	6.37
107	2/11/2019 1:41	2/11/2019 2:15	0:33:50	-51.78	14.18	473.77	31.27	122.33	453.40	-137.64	6.36
108	2/11/2019 2:31	2/11/2019 3:01	0:30:10	50.18	-160.99	460.53	-29.15	-71.88	467.28	-137.70	6.30
109	2/11/2019 4:21	2/11/2019 4:38	0:16:49	12.10	-127.88	458.36	-36.58	-86.70	469.88	-139.23	4.77
110	2/11/2019 4:58	2/11/2019 5:15	0:16:10	-38.01	14.36	465.75	8.42	54.90	451.29	-137.26	6.74
111	2/11/2019 6:02	2/11/2019 6:13	0:11:19	-9.13	-136.46	461.31	-40.19	-104.94	471.08	-139.59	4.41
112	2/11/2019 6:24	2/11/2019 6:43	0:19:21	-51.21	-47.74	473.11	-6.62	20.44	453.35	-138.64	5.36
113	2/11/2019 7:13	2/11/2019 7:46	0:32:59	48.68	134.50	460.62	-39.52	-129.84	470.88	-137.62	6.38
114	2/11/2019 7:56	2/11/2019 8:31	0:34:31	-51.76	-80.10	473.71	33.41	29.69	453.82	-137.36	6.64
115	2/11/2019 8:51	2/11/2019 9:18	0:27:01	40.72	130.51	459.91	-35.62	-159.38	469.49	-137.58	6.42
116	2/11/2019 9:30	2/11/2019 10:04	0:34:20	-51.73	-102.68	473.60	33.51	6.02	453.84	-137.37	6.63
117	2/11/2019 11:04	2/11/2019 11:37	0:32:31	-51.43	-121.35	473.20	30.98	-20.73	453.29	-137.57	6.43
118	2/11/2019 11:57	2/11/2019 12:14	0:17:20	44.38	75.67	460.33	-3.05	124.03	460.08	-137.52	6.48
119	2/11/2019 12:43	2/11/2019 13:07	0:23:31	-44.76	-117.14	469.13	20.84	-54.36	451.69	-137.81	6.19
120	2/11/2019 13:40	2/11/2019 14:00	0:20:01	18.83	84.13	458.30	-38.71	133.72	470.56	-137.51	6.49
121	2/11/2019 14:15	2/11/2019 14:35	0:20:40	-48.74	-152.80	471.54	5.07	-90.23	451.61	-138.10	5.90
122	2/11/2019 15:26	2/11/2019 15:35	0:08:50	-17.72	87.37	463.44	-41.06	113.85	471.38	-139.76	4.24
123	2/11/2019 15:45	2/11/2019 16:15	0:30:09	-51.69	163.05	473.76	22.49	-100.50	452.06	-137.96	6.04
124	2/11/2019 17:21	2/11/2019 17:41	0:20:09	-50.04	153.79	472.47	0.23	-141.23	452.37	-138.12	5.88
125	2/11/2019 17:43	2/11/2019 17:55	0:11:41	6.80	-136.57	451.65	39.28	-104.84	455.45	-138.06	5.94
126	2/11/2019 18:09	2/11/2019 18:38	0:28:20	47.84	-28.99	460.35	-29.26	50.36	467.05	-137.57	6.43
127	2/11/2019 18:56	2/11/2019 19:04	0:08:30	-48.13	138.12	471.29	-29.48	170.96	461.84	-139.35	4.65
128	2/11/2019 19:48	2/11/2019 19:57	0:08:50	38.21	-31.91	459.35	13.97	-7.17	457.94	-139.67	4.33
129	2/11/2019 19:59	2/11/2019 20:14	0:14:59	7.48	-2.36	458.29	-35.86	34.43	469.40	-139.16	4.84
130	2/11/2019 20:33	2/11/2019 20:51	0:17:20	-41.33	131.00	467.57	7.53	176.38	451.55	-137.49	6.51
131	2/11/2019 21:27	2/11/2019 21:36	0:09:11	22.63	-38.06	458.13	-4.74	-17.50	460.11	-137.55	6.45
132	2/11/2019 22:00	2/11/2019 22:32	0:32:20	-51.29	73.66	473.27	31.23	173.04	453.43	-137.46	6.54
133	2/11/2019 23:05	2/11/2019 23:19	0:13:41	9.26	-51.22	458.33	-30.90	-19.22	467.87	-137.55	6.45
134	2/11/2019 23:33	2/12/2019 0:06	0:33:30	-51.64	45.22	473.74	32.21	150.38	453.46	-137.37	6.63
135	2/12/2019 0:24	2/12/2019 0:50	0:26:20	47.87	-124.21	460.23	-23.66	-50.27	465.40	-137.58	6.42
136	2/12/2019 1:22	2/12/2019 1:42	0:19:59	-21.12	83.78	458.14	36.96	132.71	454.55	-137.31	6.69



Table 2 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)
137	2/12/2019 1:57	2/12/2019 2:23	0:26:00	47.81	-147.81	460.22	-22.82	-74.81	465.21	-137.60	6.40
138	2/12/2019 2:51	2/12/2019 3:06	0:14:21	-32.09	49.12	463.06	9.99	83.02	451.23	-137.33	6.67
139	2/12/2019 3:08	2/12/2019 3:18	0:10:20	16.45	87.95	451.31	43.40	119.97	456.41	-138.48	5.52
140	2/12/2019 3:28	2/12/2019 4:01	0:32:40	50.70	175.21	460.35	-34.23	-86.62	469.20	-137.58	6.42
141	2/12/2019 5:50	2/12/2019 6:18	0:28:10	-49.72	-34.89	472.29	24.87	47.58	452.10	-137.48	6.52
142	2/12/2019 6:47	2/12/2019 7:10	0:23:00	26.70	175.42	458.50	-39.27	-127.05	470.97	-137.54	6.46
143	2/12/2019 7:21	2/12/2019 7:54	0:32:59	-51.68	-74.59	473.80	30.49	29.49	453.04	-137.50	6.50
144	2/12/2019 8:13	2/12/2019 8:43	0:29:51	45.34	124.13	460.14	-36.99	-154.28	470.14	-137.52	6.48
145	2/12/2019 8:54	2/12/2019 9:28	0:34:11	-51.77	-101.11	473.93	32.36	7.83	453.43	-137.51	6.49
146	2/12/2019 9:58	2/12/2019 10:10	0:11:30	16.43	136.83	458.16	-18.06	162.20	463.71	-137.50	6.50
147	2/12/2019 10:28	2/12/2019 11:01	0:33:10	-51.61	-120.74	473.61	31.58	-16.86	453.28	-137.64	6.36
148	2/12/2019 12:05	2/12/2019 12:33	0:28:10	-49.55	-129.22	472.09	25.29	-47.16	452.17	-137.80	6.20
149	2/12/2019 13:03	2/12/2019 13:23	0:19:49	23.93	82.89	458.34	-33.95	130.30	469.04	-137.54	6.46
150	2/12/2019 13:41	2/12/2019 14:00	0:19:00	-46.38	-141.88	470.38	4.74	-87.28	451.62	-138.73	5.27
151	2/12/2019 14:23	2/12/2019 14:47	0:24:10	51.41	2.52	460.26	-6.98	82.45	460.69	-137.47	6.53
152	2/12/2019 14:49	2/12/2019 15:00	0:11:00	-13.48	87.23	462.29	-42.61	119.96	472.09	-139.70	4.30
153	2/12/2019 15:11	2/12/2019 15:37	0:26:01	-50.78	176.25	473.21	15.36	-103.22	451.43	-138.11	5.89
154	2/12/2019 16:02	2/12/2019 16:25	0:23:01	45.00	6.03	459.90	-18.98	67.81	463.77	-137.51	6.49
155	2/12/2019 16:44	2/12/2019 17:18	0:34:11	-51.00	150.78	473.34	37.05	-105.04	454.71	-137.39	6.61
156	2/12/2019 17:33	2/12/2019 17:44	0:10:59	48.70	-28.90	460.18	23.62	11.81	457.94	-139.37	4.63
157	2/12/2019 18:18	2/12/2019 18:35	0:17:09	-50.72	129.10	473.09	-11.07	-169.91	454.93	-138.91	5.09
158	2/12/2019 19:55	2/12/2019 20:14	0:19:00	-46.96	121.30	470.79	3.68	176.82	451.88	-138.50	5.50
159	2/12/2019 21:00	2/12/2019 21:13	0:13:00	-0.88	-17.03	459.37	-37.72	16.47	470.26	-137.90	6.10
160	2/12/2019 21:36	2/12/2019 21:55	0:18:29	-28.66	127.44	461.50	25.92	170.71	452.38	-136.84	7.16
161	2/12/2019 22:29	2/12/2019 22:44	0:14:50	10.58	-49.00	458.15	-32.81	-13.81	468.65	-137.91	6.09
162	2/13/2019 0:05	2/13/2019 0:17	0:11:59	4.44	-68.35	458.71	-30.72	-40.01	467.94	-137.94	6.06
163	2/13/2019 0:45	2/13/2019 1:04	0:19:00	-26.16	82.38	460.40	29.80	127.08	452.83	-137.80	6.20
164	2/13/2019 1:26	2/13/2019 1:43	0:17:29	40.41	-127.42	459.34	-9.28	-82.40	461.28	-137.99	6.01
165	2/13/2019 2:31	2/13/2019 2:42	0:10:49	12.17	87.83	451.18	41.42	119.29	455.66	-136.88	7.12
166	2/13/2019 2:54	2/13/2019 3:24	0:30:10	49.66	-175.72	460.17	-30.47	-87.86	467.97	-138.07	5.93
167	2/13/2019 4:49	2/13/2019 5:00	0:10:51	-5.49	-132.71	460.51	-36.15	-104.70	469.98	-138.18	5.82
168	2/13/2019 5:23	2/13/2019 5:39	0:16:30	-33.05	3.60	463.56	15.37	42.71	451.16	-138.60	5.40
169	2/13/2019 6:01	2/13/2019 6:11	0:09:29	49.76	136.20	460.18	30.18	175.01	458.57	-139.19	4.81
170	2/13/2019 6:24	2/13/2019 6:34	0:10:20	-9.61	-153.52	461.47	-38.25	-125.45	470.75	-138.17	5.83
171	2/13/2019 6:47	2/13/2019 7:19	0:32:20	-51.11	-64.25	473.48	31.98	34.36	453.24	-138.57	5.43
172	2/13/2019 7:37	2/13/2019 8:08	0:31:00	46.96	122.90	460.04	-37.55	-150.29	470.48	-138.16	5.84
173	2/13/2019 8:19	2/13/2019 8:52	0:33:00	-51.60	-93.63	473.91	31.19	9.68	453.07	-138.60	5.40
174	2/13/2019 9:16	2/13/2019 9:39	0:22:10	34.35	122.54	458.86	-29.98	176.45	467.73	-138.15	5.85
175	2/13/2019 9:53	2/13/2019 10:26	0:32:50	-51.52	-116.21	473.74	31.30	-13.99	453.10	-138.50	5.50
176	2/13/2019 11:28	2/13/2019 11:58	0:29:50	-50.36	-130.25	472.83	27.78	-41.53	452.48	-138.80	5.20
177	2/13/2019 12:26	2/13/2019 12:58	0:31:41	28.41	81.74	458.44	-51.45	179.95	474.46	-137.58	6.42
178	2/13/2019 12:59	2/13/2019 13:46	0:46:01	-51.74	-168.25	474.10	51.78	-4.78	459.71	-138.22	5.78
179	2/13/2019 13:48	2/13/2019 14:10	0:22:19	51.19	8.01	460.10	-2.63	82.54	459.28	-139.27	4.73
180	2/13/2019 14:12	2/13/2019 14:23	0:11:11	-9.16	87.21	459.92	-39.83	118.13	461.45	-138.05	5.95
181	2/13/2019 14:45	2/13/2019 15:05	0:20:00	-30.41	-136.07	430.99	28.67	-88.14	412.17	-138.16	5.84
182	2/13/2019 15:08	2/13/2019 15:16	0:08:50	34.46	-81.49	411.08	50.78	-41.76	405.43	-137.69	6.31
183	2/13/2019 15:19	2/13/2019 15:52	0:33:10	51.78	-28.92	403.48	-29.27	80.76	393.76	-136.62	7.38
184	2/13/2019 15:56	2/13/2019 16:12	0:15:01	-41.04	96.65	400.09	-45.46	176.47	410.56	-136.97	7.03
185	2/13/2019 16:27	2/13/2019 16:41	0:13:01	-2.23	-136.23	403.65	35.64	-103.43	404.04	-136.90	7.10
186	2/13/2019 16:55	2/13/2019 17:06	0:10:31	49.62	-29.19	399.30	26.66	12.59	388.59	-137.76	6.24
187	2/13/2019 17:40	2/13/2019 17:57	0:17:11	-50.58	133.80	410.14	-9.97	-165.26	404.50	-138.21	5.79
188	2/13/2019 18:32	2/13/2019 18:47	0:14:41	42.01	-31.22	394.81	0.77	9.59	385.23	-137.70	6.30
189	2/13/2019 19:00	2/13/2019 19:13	0:12:30	-38.17	44.99	398.24	-50.61	110.13	410.03	-137.58	6.42
190	2/13/2019 19:15	2/13/2019 19:41	0:26:20	-48.30	121.02	410.38	23.66	-163.44	403.33	-137.81	6.19
191	2/13/2019 19:41	2/13/2019 19:55	0:13:10	25.09	-162.11	403.41	51.38	-106.94	403.07	-137.22	6.78
192	2/13/2019 20:00	2/13/2019 20:08	0:07:51	49.50	-75.60	399.34	33.67	-42.05	391.20	-137.70	6.30
193	2/13/2019 20:31	2/13/2019 20:50	0:18:31	-35.19	17.30	396.48	-43.41	110.77	375.11	-137.62	6.38
194	2/13/2019 20:52	2/13/2019 21:25	0:32:40	-38.58	119.45	366.96	50.08	-139.83	298.17	-135.60	8.40
195	2/13/2019 21:27	2/13/2019 21:58	0:31:09	51.56	-127.95	297.39	-23.16	-18.73	291.01	-134.05	9.95
196	2/13/2019 22:00	2/13/2019 22:35	0:35:49	-28.95	-13.10	293.80	0.41	132.30	299.80	-134.70	9.30
197	2/13/2019 23:19	2/13/2019 23:31	0:12:10	3.53	-61.96	283.59	-33.24	-31.22	296.06	-134.07	9.93
198	2/13/2019 23:34	2/14/2019 0:18	0:44:10	-38.79	-23.58	299.25	36.15	141.04	298.47	-134.92	9.08
199	2/14/2019 0:35	2/14/2019 0:59	0:24:10	44.44	-128.93	291.33	-25.93	-62.07	292.24	-134.02	9.98
200	2/14/2019 2:18	2/14/2019 2:28	0:09:40	9.45	-112.15	283.34	-20.68	-89.79	289.89	-134.18	9.82
201	2/14/2019 2:54	2/14/2019 3:17	0:23:59	-37.39	29.37	308.22	33.84	92.10	298.36	-135.25	8.75
202	2/14/2019 3:50	2/14/2019 4:05	0:14:59	4.04	-131.20	283.52	-40.00	-90.50	299.73	-134.07	9.93
203	2/14/2019 5:02	2/14/2019 5:13	0:11:19	50.61	140.33	294.92	26.30	-172.02	285.32	-135.12	8.88
204	2/14/2019 5:28	2/14/2019 5:37	0:09:11	-19.03	-137.11	289.03	-43.47	-106.95	301.74	-134.06	9.94

Table 2 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)
205	2/14/2019 6:25	2/14/2019 6:41	0:16:00	47.93	73.35	298.23	34.03	156.51	287.42	-135.35	8.65
206	2/14/2019 6:41	2/14/2019 7:01	0:19:30	32.68	158.16	287.00	-26.62	-153.24	292.26	-134.33	9.67
207	2/14/2019 7:17	2/14/2019 7:30	0:13:19	-50.47	-73.23	309.67	-20.15	-20.89	303.18	-135.60	8.40
208	2/14/2019 8:12	2/14/2019 8:34	0:21:01	29.28	139.04	285.93	-34.20	-167.79	295.97	-133.98	10.02
209	2/14/2019 8:47	2/14/2019 9:14	0:26:30	-50.85	-98.73	309.36	19.29	-14.32	297.77	-135.23	8.77
210	2/14/2019 9:16	2/14/2019 9:50	0:34:39	25.22	-9.05	297.83	6.91	134.90	283.16	-135.10	8.90
211	2/14/2019 10:32	2/14/2019 10:51	0:19:10	-18.74	-65.63	302.57	38.50	-16.27	298.32	-134.96	9.04
212	2/14/2019 11:55	2/14/2019 12:19	0:24:49	-38.50	-110.06	307.61	34.87	-44.36	298.26	-134.91	9.09
213	2/14/2019 12:28	2/14/2019 12:36	0:08:20	50.36	-7.82	297.87	46.90	40.98	292.70	-134.88	9.12
214	2/14/2019 12:51	2/14/2019 13:06	0:14:50	4.92	90.41	283.19	-38.94	130.01	298.50	-134.01	9.99
215	2/14/2019 13:32	2/14/2019 13:44	0:12:39	-19.34	-112.05	302.87	19.89	-82.69	297.91	-135.23	8.77
216	2/14/2019 14:04	2/14/2019 14:35	0:31:20	49.87	6.76	294.35	-36.21	103.02	299.02	-134.13	9.87
217	2/14/2019 14:48	2/14/2019 15:17	0:28:59	-50.91	168.99	316.17	26.24	-99.94	308.84	-134.79	9.21
218	2/14/2019 15:39	2/14/2019 16:03	0:23:41	40.88	8.56	307.32	-28.92	71.26	313.27	-135.07	8.93
219	2/14/2019 17:11	2/14/2019 17:31	0:20:30	39.92	-12.82	307.07	-20.92	40.66	309.86	-135.36	8.64
220	2/14/2019 18:36	2/14/2019 19:07	0:30:40	49.57	-60.79	309.93	-34.80	32.03	315.86	-135.06	8.94
221	2/14/2019 19:46	2/14/2019 19:56	0:10:10	16.58	-177.50	308.42	43.81	-144.62	310.78	-135.19	8.81
222	2/14/2019 20:26	2/14/2019 20:39	0:12:31	-1.91	-19.85	304.54	-38.38	14.04	317.64	-134.70	9.30
223	2/14/2019 20:53	2/14/2019 21:19	0:26:11	-47.52	92.48	324.09	26.25	167.92	308.74	-135.51	8.49
224	2/14/2019 22:21	2/14/2019 22:53	0:32:10	-50.84	54.27	325.08	35.20	154.94	309.45	-135.30	8.70
225	2/14/2019 23:08	2/14/2019 23:39	0:31:20	49.46	-129.42	309.83	-36.74	-34.47	316.96	-135.03	8.97
226	2/14/2019 23:51	2/15/2019 0:25	0:33:30	-51.15	28.78	325.11	37.54	135.16	309.70	-135.35	8.65
227	2/15/2019 1:13	2/15/2019 1:28	0:14:50	-44.49	-43.69	320.86	-41.93	36.89	322.26	-134.76	9.24
228	2/15/2019 1:28	2/15/2019 1:46	0:18:01	-40.81	38.94	321.85	11.99	86.80	308.23	-135.51	8.49
229	2/15/2019 1:49	2/15/2019 1:59	0:10:10	18.62	92.00	308.18	45.13	126.30	310.76	-135.43	8.57
230	2/15/2019 2:11	2/15/2019 2:39	0:27:29	45.57	-162.57	308.72	-33.27	-85.08	315.37	-134.95	9.05
231	2/15/2019 3:05	2/15/2019 3:25	0:20:00	-26.16	34.56	316.33	34.12	84.44	309.33	-135.49	8.51
232	2/15/2019 3:40	2/15/2019 3:54	0:13:21	48.22	166.45	309.57	14.45	-146.91	303.47	-135.69	8.31
233	2/15/2019 4:48	2/15/2019 5:22	0:34:39	12.51	41.12	308.13	20.27	-174.65	303.80	-134.85	9.15
234	2/15/2019 6:22	2/15/2019 6:56	0:34:20	24.33	27.88	308.34	9.28	170.91	303.49	-134.40	9.60
235	2/15/2019 7:25	2/15/2019 7:46	0:21:19	-50.24	-80.04	324.67	5.27	-10.25	308.56	-135.98	8.02
236	2/15/2019 7:58	2/15/2019 8:29	0:31:00	38.99	22.18	309.90	2.76	152.56	303.95	-134.09	9.91
237	2/15/2019 8:56	2/15/2019 9:14	0:18:40	-50.47	-104.49	324.58	-3.85	-39.75	309.80	-136.03	7.97
238	2/15/2019 9:59	2/15/2019 10:07	0:08:21	6.14	127.11	303.67	-19.72	146.24	309.52	-135.81	8.19
239	2/15/2019 10:27	2/15/2019 10:54	0:26:51	-49.87	-124.17	324.37	23.14	-42.32	308.25	-135.42	8.58
240	2/15/2019 12:00	2/15/2019 12:19	0:19:21	-46.37	-134.46	323.35	7.65	-77.65	308.40	-136.05	7.95
241	2/15/2019 13:04	2/15/2019 13:16	0:12:00	-7.98	91.08	305.78	-41.74	126.30	319.13	-134.93	9.07
242	2/15/2019 13:34	2/15/2019 13:55	0:21:29	-39.20	-142.66	321.03	24.62	-87.04	308.53	-135.38	8.62
243	2/15/2019 14:15	2/15/2019 14:23	0:08:09	46.72	9.99	308.98	27.07	40.89	304.32	-135.68	8.32
244	2/15/2019 15:00	2/15/2019 15:28	0:28:00	-46.93	177.85	323.74	32.40	-101.96	309.28	-135.38	8.62
245	2/15/2019 15:56	2/15/2019 16:12	0:16:50	22.93	21.76	303.64	-28.53	62.26	312.67	-135.62	8.38
246	2/15/2019 16:31	2/15/2019 17:04	0:33:19	-47.60	152.74	323.84	44.21	-106.24	310.73	-135.39	8.61
247	2/15/2019 18:04	2/15/2019 18:35	0:31:19	-42.40	142.58	322.04	45.67	-125.76	310.89	-135.35	8.65
248	2/15/2019 19:40	2/15/2019 20:06	0:26:00	-30.05	137.15	317.48	44.90	-150.73	310.84	-135.29	8.71
249	2/15/2019 20:22	2/15/2019 20:42	0:19:50	38.20	-64.75	306.64	-21.06	-13.88	309.65	-135.52	8.48
250	2/15/2019 21:19	2/15/2019 21:33	0:13:31	-1.64	137.52	309.51	38.07	173.44	309.83	-135.42	8.58
251	2/15/2019 21:56	2/15/2019 22:21	0:25:00	29.60	-76.90	304.76	-43.24	-8.96	319.73	-134.23	9.77
252	2/15/2019 23:18	2/15/2019 23:49	0:30:30	47.76	-131.44	309.15	-37.72	-41.64	316.99	-134.86	9.14
253	2/16/2019 0:02	2/16/2019 0:35	0:33:10	-50.26	26.39	324.43	39.32	129.31	309.88	-135.40	8.60
254	2/16/2019 0:53	2/16/2019 1:14	0:20:40	38.76	-134.72	306.75	-22.85	-81.41	310.51	-135.30	8.70
255	2/16/2019 1:31	2/16/2019 1:43	0:11:39	-51.16	-2.94	324.66	-27.64	47.54	316.52	-136.36	7.64
256	2/16/2019 2:39	2/16/2019 3:10	0:30:29	-7.36	-116.70	305.55	-36.83	13.59	319.78	-134.31	9.69
257	2/16/2019 3:50	2/16/2019 4:23	0:32:40	47.33	160.84	309.23	-43.30	-100.99	319.64	-134.26	9.74
258	2/16/2019 5:10	2/16/2019 5:24	0:13:51	46.79	76.06	310.89	41.25	151.98	307.52	-134.98	9.02
259	2/16/2019 5:46	2/16/2019 6:20	0:34:39	-23.65	-149.80	310.75	-9.32	-6.20	310.73	-134.41	9.59
260	2/16/2019 6:47	2/16/2019 7:03	0:15:31	51.46	93.23	310.71	17.74	155.83	303.38	-134.73	9.27
261	2/16/2019 7:35	2/16/2019 8:01	0:26:29	-49.59	-85.29	323.94	22.90	-5.05	308.06	-135.37	8.63
262	2/16/2019 8:34	2/16/2019 8:54	0:20:00	14.92	135.04	303.25	-43.18	-170.35	319.40	-134.35	9.65
263	2/16/2019 9:05	2/16/2019 9:28	0:22:10	-49.87	-109.67	323.90	8.97	-39.20	307.94	-135.36	8.64
264	2/16/2019 10:38	2/16/2019 11:04	0:26:59	-47.73	-124.12	323.22	28.27	-45.98	308.54	-135.42	8.58
265	2/16/2019 12:14	2/16/2019 12:37	0:23:20	-36.28	-123.85	319.34	33.12	-63.60	309.16	-135.50	8.50
266	2/16/2019 13:43	2/16/2019 13:58	0:14:51	-39.73	-152.09	320.78	3.59	-112.18	308.69	-135.85	8.15
267	2/16/2019 14:37	2/16/2019 14:55	0:17:11	12.75	44.56	302.84	-38.33	88.92	316.86	-135.24	8.76
268	2/16/2019 15:11	2/16/2019 15:42	0:30:21	-43.58	177.66	322.10	42.54	-95.30	310.43	-134.33	9.67
269	2/16/2019 15:59	2/16/2019 16:21	0:22:00	38.96	-5.40	306.66	-26.50	51.64	311.38	-135.10	8.90
270	2/16/2019 16:52	2/16/2019 17:12	0:20:00	-18.57	-174.59	313.38	40.52	-122.08	310.15	-134.53	9.47
271	2/16/2019 17:28	2/16/2019 18:02	0:34:50	42.92	-35.51	307.72	-50.38	74.60	322.85	-134.44	9.56
272	2/16/2019 18:12	2/16/2019 18:24	0:11:41	-45.19	127.92	322.42	-14.22	165.83	312.04	-136.48	7.52

**Table 2 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)
273	2/16/2019 18:55	2/16/2019 19:27	0:31:40	48.22	-72.49	309.43	-39.80	22.17	317.42	-133.30	10.70
274	2/16/2019 20:00	2/16/2019 20:15	0:15:40	2.69	155.04	308.64	45.79	-157.07	310.85	-134.11	9.89
275	2/16/2019 20:25	2/16/2019 20:59	0:33:30	49.44	-100.42	309.90	-41.92	2.88	318.57	-133.49	10.51
276	2/16/2019 21:21	2/16/2019 21:42	0:20:30	-24.65	110.98	315.07	36.77	162.96	309.47	-136.00	8.00
277	2/16/2019 21:56	2/16/2019 22:29	0:33:01	48.89	-121.11	309.59	-41.76	-20.45	318.52	-134.04	9.96
278	2/16/2019 22:41	2/16/2019 23:14	0:32:40	-49.46	44.93	323.73	39.85	144.65	309.77	-135.99	8.01
279	2/16/2019 23:28	2/16/2019 23:42	0:13:10	46.10	-135.07	308.59	10.99	-92.33	302.93	-134.05	9.95
280	2/17/2019 0:11	2/17/2019 0:45	0:33:40	-50.11	18.70	323.90	40.85	123.33	310.01	-135.74	8.26
281	2/17/2019 1:04	2/17/2019 1:22	0:17:41	34.13	-136.81	305.65	-19.34	-93.01	308.84	-135.35	8.65
282	2/17/2019 1:41	2/17/2019 1:56	0:15:09	-50.35	-5.70	323.93	-14.29	50.60	311.78	-135.82	8.18
283	2/17/2019 2:32	2/17/2019 3:00	0:27:21	39.76	-167.93	307.03	-39.75	-93.09	317.52	-134.75	9.25
284	2/17/2019 3:36	2/17/2019 4:10	0:33:21	14.53	48.55	307.64	22.29	-170.52	303.71	-134.03	9.97
285	2/17/2019 4:53	2/17/2019 5:07	0:14:09	-27.11	-6.57	315.66	16.36	26.95	307.62	-136.02	7.98
286	2/17/2019 5:31	2/17/2019 6:05	0:33:41	45.71	133.83	308.69	-46.95	-123.54	320.97	-133.94	10.06
287	2/17/2019 6:11	2/17/2019 6:45	0:34:30	-51.66	-86.97	323.90	37.38	25.63	309.45	-135.65	8.35
288	2/17/2019 7:03	2/17/2019 7:18	0:15:29	43.21	116.59	307.92	-0.94	161.06	303.97	-133.75	10.25
289	2/17/2019 7:45	2/17/2019 8:18	0:32:50	-48.71	-90.13	323.12	41.57	9.45	310.07	-135.33	8.67
290	2/17/2019 8:21	2/17/2019 9:04	0:42:50	47.93	25.01	310.94	-43.56	-178.09	319.13	-133.78	10.22
291	2/17/2019 9:15	2/17/2019 9:36	0:20:59	-49.03	-114.43	323.14	7.49	-48.84	307.74	-135.95	8.05
292	2/17/2019 10:47	2/17/2019 11:09	0:22:20	-47.68	-132.53	322.72	14.50	-66.64	307.61	-135.81	8.19
293	2/17/2019 12:20	2/17/2019 12:39	0:19:19	-42.13	-141.89	321.04	14.29	-89.85	307.73	-135.79	8.21
294	2/17/2019 13:52	2/17/2019 14:13	0:21:09	-39.64	-160.50	320.28	23.12	-105.55	308.08	-135.67	8.33
295	2/17/2019 15:20	2/17/2019 15:51	0:31:11	-44.82	166.31	321.99	43.00	-102.94	310.37	-135.02	8.98
296	2/17/2019 16:10	2/17/2019 16:29	0:19:19	34.20	-7.24	305.40	-24.23	40.92	310.09	-135.35	8.65
297	2/17/2019 16:52	2/17/2019 17:24	0:32:20	-42.58	148.15	321.16	47.28	-115.30	310.88	-135.03	8.97
298	2/17/2019 17:37	2/17/2019 17:51	0:13:51	42.09	-42.41	307.41	2.64	-2.71	303.07	-135.08	8.92
299	2/17/2019 18:25	2/17/2019 18:55	0:30:30	-37.29	134.03	319.17	47.97	-136.10	311.00	-134.98	9.02
300	2/17/2019 19:05	2/17/2019 19:37	0:31:50	47.35	-78.14	309.09	-41.47	16.53	317.86	-135.21	8.79
301	2/17/2019 19:55	2/17/2019 20:25	0:30:10	-38.68	108.90	319.62	46.50	-163.69	310.76	-134.80	9.20
302	2/17/2019 20:37	2/17/2019 21:07	0:29:11	43.78	-91.93	308.00	-39.79	-9.44	317.18	-135.23	8.77
303	2/17/2019 22:13	2/17/2019 22:39	0:26:10	33.12	-98.04	305.20	-43.00	-26.57	318.72	-135.27	8.73
304	2/17/2019 22:50	2/17/2019 23:23	0:32:51	-48.72	39.51	323.04	41.56	139.10	309.88	-134.19	9.81
305	2/17/2019 23:38	2/17/2019 23:59	0:21:01	44.38	-139.34	308.05	-16.26	-81.04	307.47	-135.24	8.76

**Max. Exceedance: 10.70 dB**

Table 3 Departure (GN - 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	2/7/2019 17:22	2/7/2019 17:31	0:09:20	27.23	-89.22	405.51	48.32	-53.33	411.38	-140.79	3.21
2	2/7/2019 19:02	2/7/2019 19:07	0:05:19	45.34	-85.76	410.31	51.58	-57.10	412.90	-140.90	3.10
3	2/7/2019 20:41	2/7/2019 20:45	0:03:41	51.76	-76.54	413.09	50.12	-54.97	413.59	-140.95	3.05
4	2/7/2019 22:17	2/7/2019 22:23	0:05:49	50.27	-79.34	413.56	40.37	-51.56	412.60	-140.94	3.06
5	2/9/2019 5:23	2/9/2019 5:30	0:06:41	35.72	-156.87	459.77	17.37	-138.34	458.48	-140.45	3.55
6	2/9/2019 7:00	2/9/2019 7:09	0:08:11	27.27	-170.93	458.98	3.29	-151.66	459.18	-141.18	2.82
7	2/9/2019 15:51	2/9/2019 15:57	0:06:00	20.14	-85.12	451.97	36.46	-67.87	455.05	-140.97	3.03
8	2/9/2019 15:58	2/9/2019 16:01	0:03:29	38.07	-65.53	455.48	45.48	-51.30	457.73	-140.28	3.72
9	2/9/2019 17:33	2/9/2019 17:36	0:02:51	40.84	-84.82	456.27	46.42	-72.59	458.02	-140.32	3.68
10	2/9/2019 17:36	2/9/2019 17:39	0:02:50	47.51	-69.36	458.40	50.84	-54.20	459.77	-139.32	4.68
11	2/9/2019 19:12	2/9/2019 19:17	0:05:19	49.59	-85.19	459.20	51.38	-54.23	460.81	-140.39	3.61
12	2/9/2019 20:28	2/9/2019 20:35	0:07:50	6.58	-166.90	451.72	29.38	-147.79	453.44	-141.19	2.81
13	2/9/2019 20:50	2/9/2019 20:56	0:05:21	51.44	-78.78	460.76	44.87	-50.81	460.51	-141.68	2.32
14	2/9/2019 22:27	2/9/2019 22:35	0:08:21	49.05	-87.42	460.92	31.69	-53.53	459.11	-141.37	2.63
15	2/10/2019 0:06	2/10/2019 0:13	0:06:20	37.50	-84.82	459.74	20.45	-66.34	458.33	-140.42	3.58
16	2/10/2019 4:48	2/10/2019 4:53	0:05:19	35.59	-153.51	459.57	21.09	-138.25	458.45	-140.51	3.49
17	2/10/2019 6:24	2/10/2019 6:33	0:08:39	29.41	-169.95	459.00	4.14	-149.07	459.06	-140.51	3.49
18	2/10/2019 15:16	2/10/2019 15:25	0:09:50	19.33	-82.61	451.77	44.34	-50.86	457.14	-139.50	4.50
19	2/10/2019 16:56	2/10/2019 17:03	0:06:59	38.28	-85.81	455.35	50.46	-53.53	459.34	-140.53	3.47
20	2/10/2019 18:36	2/10/2019 18:41	0:05:10	49.05	-84.38	458.75	51.64	-54.64	460.48	-140.70	3.30
21	2/10/2019 19:52	2/10/2019 19:59	0:07:20	5.23	-164.67	451.78	26.78	-147.26	452.82	-140.64	3.36
22	2/10/2019 20:14	2/10/2019 20:19	0:04:59	51.62	-78.21	460.45	46.27	-51.20	460.42	-140.65	3.35
23	2/10/2019 21:32	2/10/2019 21:36	0:03:11	25.96	-171.85	452.66	34.46	-162.50	454.38	-139.87	4.13
24	2/10/2019 21:51	2/10/2019 21:59	0:07:59	49.59	-86.61	460.70	33.72	-52.75	459.14	-141.59	2.41
25	2/10/2019 23:30	2/10/2019 23:37	0:06:50	39.72	-85.07	459.80	21.73	-64.25	458.26	-141.63	2.37

Max. Exceedance: 4.68

**Table 4 Departure (GN - 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	2/7/2019 17:22	2/7/2019 17:31	0:09:20	27.23	-89.22	405.51	48.32	-53.33	411.38	-137.78	6.22
2	2/7/2019 19:02	2/7/2019 19:07	0:05:19	45.34	-85.76	410.31	51.58	-57.10	412.90	-137.89	6.11
3	2/7/2019 20:41	2/7/2019 20:45	0:03:41	51.76	-76.54	413.09	50.12	-54.97	413.59	-137.94	6.06
4	2/7/2019 22:17	2/7/2019 22:23	0:05:49	50.27	-79.34	413.56	40.37	-51.56	412.60	-137.93	6.07
5	2/9/2019 5:23	2/9/2019 5:30	0:06:41	35.72	-156.87	459.77	17.37	-138.34	458.48	-137.44	6.56
6	2/9/2019 7:00	2/9/2019 7:09	0:08:11	27.27	-170.93	458.98	3.29	-151.66	459.18	-138.17	5.83
7	2/9/2019 15:51	2/9/2019 16:01	0:10:10	20.14	-85.12	451.97	45.48	-51.30	457.73	-137.27	6.73
8	2/9/2019 17:33	2/9/2019 17:39	0:06:20	40.84	-84.82	456.27	50.84	-54.20	459.77	-136.31	7.69
9	2/9/2019 19:12	2/9/2019 19:17	0:05:19	49.59	-85.19	459.20	51.38	-54.23	460.81	-137.38	6.62
10	2/9/2019 20:28	2/9/2019 20:35	0:07:50	6.58	-166.90	451.72	29.38	-147.79	453.44	-138.18	5.82
11	2/9/2019 20:50	2/9/2019 20:56	0:05:21	51.44	-78.78	460.76	44.87	-50.81	460.51	-138.67	5.33
12	2/9/2019 22:27	2/9/2019 22:35	0:08:21	49.05	-87.42	460.92	31.69	-53.53	459.11	-138.36	5.64
13	2/10/2019 0:06	2/10/2019 0:13	0:06:20	37.50	-84.82	459.74	20.45	-66.34	458.33	-137.41	6.59
14	2/10/2019 4:48	2/10/2019 4:53	0:05:19	35.59	-153.51	459.57	21.09	-138.25	458.45	-137.50	6.50
15	2/10/2019 6:24	2/10/2019 6:33	0:08:39	29.41	-169.95	459.00	4.14	-149.07	459.06	-137.50	6.50
16	2/10/2019 15:16	2/10/2019 15:25	0:09:50	19.33	-82.61	451.77	44.34	-50.86	457.14	-136.49	7.51
17	2/10/2019 16:56	2/10/2019 17:03	0:06:59	38.28	-85.81	455.35	50.46	-53.53	459.34	-137.52	6.48
18	2/10/2019 18:36	2/10/2019 18:41	0:05:10	49.05	-84.38	458.75	51.64	-54.64	460.48	-137.69	6.31
19	2/10/2019 19:52	2/10/2019 19:59	0:07:20	5.23	-164.67	451.78	26.78	-147.26	452.82	-137.62	6.38
20	2/10/2019 20:14	2/10/2019 20:19	0:04:59	51.62	-78.21	460.45	46.27	-51.20	460.42	-137.64	6.36
21	2/10/2019 21:32	2/10/2019 21:36	0:03:11	25.96	-171.85	452.66	34.46	-162.50	454.38	-136.86	7.14
22	2/10/2019 21:51	2/10/2019 21:59	0:07:59	49.59	-86.61	460.70	33.72	-52.75	459.14	-138.58	5.42
23	2/10/2019 23:30	2/10/2019 23:37	0:06:50	39.72	-85.07	459.80	21.73	-64.25	458.26	-138.62	5.38

**Max. Exceedance: 7.69 dB**

Table 5 Departure (CLS - 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	2/6/2019 9:50	2/6/2019 18:05	8:14:21	-45.2128	-119.857	423.7657	4.125259	-114.697	404.2452	-138.8549274	5.145072564

Max. Exceedance: 5.15 dB