

**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	2/15/2020 22:24	2/15/2020 22:30	0:05:01	-49.11	-2.30	270.11	-51.60	27.67	281.80	-136.51	7.49
2	2/15/2020 22:32	2/15/2020 23:04	0:31:50	-49.26	44.30	285.42	38.90	141.69	232.73	-135.13	8.87
3	2/15/2020 23:07	2/15/2020 23:16	0:08:50	45.18	153.93	226.49	50.61	-154.21	208.56	-132.26	11.74
4	2/15/2020 23:19	2/16/2020 0:06	0:47:10	46.80	-138.38	203.87	-41.38	42.65	286.43	-133.54	10.46
5	2/16/2020 0:09	2/16/2020 0:34	0:25:30	-34.41	53.21	284.56	40.97	122.48	231.02	-135.11	8.89
6	2/16/2020 0:37	2/16/2020 0:50	0:12:40	46.77	135.52	224.86	43.13	-152.11	201.51	-132.37	11.63
7	2/16/2020 0:53	2/16/2020 1:42	0:49:40	36.30	-140.65	198.66	-22.07	43.43	278.32	-133.63	10.37
8	2/16/2020 1:45	2/16/2020 1:59	0:14:19	-13.45	50.47	272.87	30.69	85.53	239.95	-135.58	8.42
9	2/16/2020 2:02	2/16/2020 2:20	0:17:50	38.23	95.29	233.60	40.40	-169.66	200.17	-132.46	11.54
10	2/16/2020 2:32	2/16/2020 2:47	0:14:20	3.99	-133.87	204.66	-38.96	-94.83	251.62	-134.61	9.39
11	2/16/2020 3:02	2/16/2020 3:31	0:28:41	-45.39	-11.27	286.05	37.06	70.87	234.71	-135.33	8.67
12	2/16/2020 3:47	2/16/2020 4:19	0:32:01	45.71	156.56	203.31	-45.25	-105.20	261.56	-133.56	10.44
13	2/16/2020 4:32	2/16/2020 4:52	0:19:41	-43.68	-29.96	285.92	13.47	24.65	253.34	-136.12	7.88
14	2/16/2020 5:16	2/16/2020 5:58	0:42:21	45.65	134.05	203.29	-49.04	-68.18	284.40	-133.56	10.44
15	2/16/2020 6:01	2/16/2020 6:35	0:34:19	-44.28	-53.97	285.72	49.48	54.53	221.34	-133.13	10.87
16	2/16/2020 6:38	2/16/2020 6:43	0:04:50	51.68	71.62	215.46	48.89	101.08	206.37	-134.24	9.76
17	2/16/2020 6:46	2/16/2020 7:18	0:32:20	43.91	115.51	202.06	-47.45	-144.41	264.99	-133.55	10.45
18	2/16/2020 7:28	2/16/2020 7:41	0:12:59	-48.53	-88.84	284.38	-16.07	-42.28	274.71	-136.72	7.28
19	2/16/2020 8:03	2/16/2020 8:15	0:12:20	47.61	24.68	232.06	42.83	95.09	212.07	-133.12	10.88
20	2/16/2020 8:18	2/16/2020 8:40	0:21:20	35.96	106.41	209.32	-29.33	162.06	242.93	-133.95	10.05
21	2/16/2020 8:58	2/16/2020 9:07	0:08:30	-46.52	-105.00	285.21	-25.73	-73.36	279.65	-136.14	7.86
22	2/16/2020 9:20	2/16/2020 9:32	0:12:20	15.08	-42.17	255.25	47.24	0.80	232.49	-135.22	8.78
23	2/16/2020 9:43	2/16/2020 10:13	0:29:59	46.90	62.51	214.85	-39.32	152.30	255.35	-133.91	10.09
24	2/16/2020 10:21	2/16/2020 10:30	0:09:09	-51.76	-162.61	278.57	-40.11	-113.94	284.71	-136.41	7.59
25	2/16/2020 10:34	2/16/2020 10:46	0:12:40	-32.03	-102.71	282.29	6.54	-71.25	260.66	-136.18	7.82
26	2/16/2020 11:11	2/16/2020 11:44	0:32:40	48.34	35.05	216.21	-43.33	136.96	260.82	-133.86	10.14
27	2/16/2020 11:54	2/16/2020 12:17	0:23:21	-50.19	-164.52	283.28	12.09	-89.88	257.31	-136.14	7.86
28	2/16/2020 12:41	2/16/2020 13:08	0:27:10	47.93	13.79	215.68	-30.20	94.88	243.13	-133.85	10.15
29	2/16/2020 13:28	2/16/2020 13:51	0:23:00	-41.54	-161.89	284.89	26.57	-100.32	248.25	-135.63	8.37
30	2/16/2020 14:06	2/16/2020 14:58	0:51:39	51.47	-28.72	221.06	-40.54	177.21	284.49	-133.86	10.14
31	2/16/2020 15:01	2/16/2020 15:28	0:27:21	-33.42	-172.50	282.63	45.61	-94.62	234.35	-135.11	8.89
32	2/16/2020 15:31	2/16/2020 15:47	0:16:30	49.93	-79.51	229.21	27.53	2.71	207.53	-133.14	10.86
33	2/16/2020 15:50	2/16/2020 16:32	0:41:30	18.97	10.52	208.88	-29.38	169.35	339.39	-133.86	10.14
34	2/16/2020 16:35	2/16/2020 16:40	0:05:00	-21.75	176.68	335.11	-6.58	-171.50	322.64	-138.35	5.65
35	2/16/2020 17:11	2/16/2020 17:38	0:27:21	43.41	-42.40	212.60	-37.17	35.42	262.59	-133.72	10.28
36	2/16/2020 17:56	2/16/2020 18:29	0:33:39	-42.96	127.18	304.64	49.27	-128.15	235.31	-134.48	9.52
37	2/16/2020 18:40	2/16/2020 19:11	0:30:41	43.97	-66.36	213.11	-44.21	25.22	274.42	-133.63	10.37
38	2/16/2020 19:27	2/16/2020 20:00	0:32:01	-37.40	113.96	303.77	50.13	-146.68	233.60	-133.85	10.15
39	2/16/2020 20:21	2/16/2020 20:42	0:20:20	10.00	-50.76	211.60	-47.38	10.88	280.56	-133.94	10.06
40	2/16/2020 20:56	2/16/2020 21:33	0:36:19	-38.85	89.00	303.91	51.70	-146.39	224.85	-133.12	10.88
41	2/16/2020 21:36	2/16/2020 22:09	0:33:10	49.59	-129.24	218.92	-42.41	-24.07	270.73	-133.42	10.58
42	2/16/2020 22:12	2/16/2020 22:51	0:39:49	-47.77	-10.63	281.10	36.67	134.98	275.97	-135.78	8.22
43	2/16/2020 22:54	2/16/2020 23:09	0:14:30	43.34	146.35	281.44	43.60	-133.87	333.37	-135.39	8.61
44	2/16/2020 23:12	2/16/2020 23:50	0:38:39	37.12	-122.60	345.30	-50.67	10.23	388.33	-137.90	6.10
45	2/16/2020 23:53	2/17/2020 0:36	0:42:30	-47.12	25.44	374.55	50.46	-179.90	314.93	-135.40	8.60
46	2/17/2020 0:44	2/17/2020 1:42	0:57:31	33.55	-141.06	350.98	0.13	55.90	286.30	-136.38	7.62
47	2/17/2020 1:44	2/17/2020 2:10	0:25:21	9.08	62.30	278.59	46.26	173.28	327.19	-135.42	8.58
48	2/17/2020 2:13	2/17/2020 2:43	0:30:30	40.44	-174.24	339.07	-44.56	-89.00	423.41	-138.34	5.66
49	2/17/2020 2:46	2/17/2020 3:03	0:17:00	-48.91	-76.00	424.60	-30.77	7.20	416.78	-138.70	5.30
50	2/17/2020 3:06	2/17/2020 3:28	0:22:19	-22.84	15.07	414.34	41.41	72.74	418.00	-139.51	4.49
51	2/17/2020 3:31	2/17/2020 3:39	0:08:00	46.90	85.32	419.89	50.84	130.80	421.97	-138.40	5.60
52	2/17/2020 3:40	2/17/2020 3:49	0:09:29	49.92	136.44	421.82	30.37	175.87	418.00	-139.40	4.60
53	2/17/2020 4:03	2/17/2020 4:17	0:14:09	-9.25	-152.68	419.25	-46.20	-108.46	428.65	-139.78	4.22
54	2/17/2020 4:20	2/17/2020 4:22	0:02:30	-50.13	-93.83	429.20	-51.70	-79.33	428.90	-139.74	4.26
55	2/17/2020 4:23	2/17/2020 4:58	0:35:31	-51.78	-75.35	428.69	35.67	40.21	411.31	-138.16	5.84
56	2/17/2020 5:01	2/17/2020 5:04	0:03:09	42.29	50.83	413.59	48.05	65.47	415.99	-140.32	3.68
57	2/17/2020 5:07	2/17/2020 5:10	0:02:40	51.11	81.05	417.72	51.71	96.94	418.83	-140.01	3.99
58	2/17/2020 5:11	2/17/2020 5:11	0:00:10	51.50	100.91	419.02	51.42	101.90	419.07	-142.81	1.19
59	2/17/2020 5:12	2/17/2020 5:12	0:00:09	50.17	111.50	419.37	50.00	112.42	419.38	-143.44	0.56

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	2/17/2020 5:14	2/17/2020 5:14	0:00:10	48.58	118.71	419.45	48.35	119.57	419.46	-143.94	0.06
61	2/17/2020 5:15	2/17/2020 5:16	0:00:20	45.66	127.76	419.38	45.05	129.30	419.34	-142.26	1.74
62	2/17/2020 5:19	2/17/2020 5:20	0:01:19	37.84	142.81	418.71	34.52	147.39	418.38	-140.31	3.69
63	2/17/2020 5:21	2/17/2020 5:23	0:01:29	32.79	149.53	418.20	28.75	154.03	417.83	-141.86	2.14
64	2/17/2020 5:23	2/17/2020 5:37	0:13:30	27.36	155.45	417.71	-13.05	-173.41	419.98	-138.65	5.35
65	2/17/2020 5:37	2/17/2020 5:48	0:10:29	-15.05	-171.88	420.42	-42.88	-139.79	427.89	-140.31	3.69
66	2/17/2020 5:49	2/17/2020 6:02	0:12:40	-44.86	-135.44	428.36	-46.40	-66.07	424.51	-138.68	5.32
67	2/17/2020 6:04	2/17/2020 6:32	0:28:00	-40.76	-53.77	421.36	38.79	21.07	412.31	-139.58	4.42
68	2/17/2020 6:35	2/17/2020 6:40	0:05:10	44.87	32.69	414.58	51.39	59.98	417.91	-138.74	5.26
69	2/17/2020 6:43	2/17/2020 7:02	0:19:10	51.54	76.91	418.97	8.43	147.51	417.18	-138.02	5.98
70	2/17/2020 7:03	2/17/2020 7:25	0:22:00	5.90	149.34	417.31	-50.18	-140.86	429.14	-138.55	5.45
71	2/17/2020 7:26	2/17/2020 7:28	0:02:10	-50.78	-137.10	429.13	-51.78	-124.35	428.72	-142.90	1.10
72	2/17/2020 7:29	2/17/2020 7:34	0:05:49	-51.79	-121.36	428.54	-46.24	-89.19	424.33	-138.86	5.14
73	2/17/2020 7:35	2/17/2020 7:36	0:01:00	-45.35	-86.85	423.81	-43.41	-82.42	422.72	-142.12	1.88
74	2/17/2020 7:36	2/17/2020 7:37	0:00:20	-42.02	-79.63	421.96	-41.29	-78.28	421.57	-139.43	4.57
75	2/17/2020 7:40	2/17/2020 7:57	0:16:31	-33.21	-66.42	417.47	15.69	-26.83	407.01	-138.57	5.43
76	2/17/2020 7:57	2/17/2020 8:07	0:09:31	17.18	-25.64	407.17	42.38	3.75	413.62	-139.69	4.31
77	2/17/2020 8:07	2/17/2020 8:10	0:02:49	43.42	5.86	414.02	48.36	19.28	416.14	-139.49	4.51
78	2/17/2020 8:13	2/17/2020 8:23	0:10:01	51.25	35.01	417.84	41.96	88.71	419.11	-138.50	5.50
79	2/17/2020 8:26	2/17/2020 8:48	0:21:51	35.29	99.19	418.46	-28.62	152.91	423.93	-137.71	6.29
80	2/17/2020 8:49	2/17/2020 9:05	0:15:49	-32.22	156.88	424.95	-49.71	-125.06	426.50	-138.50	5.50
81	2/17/2020 9:08	2/17/2020 9:43	0:35:10	-45.48	-110.76	423.88	48.26	-4.66	416.13	-138.30	5.70
82	2/17/2020 9:45	2/17/2020 9:48	0:02:21	51.21	11.02	417.82	51.76	24.94	418.73	-140.29	3.71
83	2/17/2020 9:48	2/17/2020 9:53	0:04:10	51.59	28.92	418.90	47.42	51.99	419.18	-139.93	4.07
84	2/17/2020 9:53	2/17/2020 10:33	0:39:21	46.03	56.03	419.08	-51.64	-175.26	428.25	-139.01	4.99
85	2/17/2020 10:36	2/17/2020 11:00	0:24:10	-50.87	-155.50	427.00	10.26	-78.08	406.71	-138.58	5.42
86	2/17/2020 11:13	2/17/2020 11:31	0:18:10	44.15	-39.68	413.48	35.18	52.19	416.30	-137.97	6.03
87	2/17/2020 11:34	2/17/2020 12:09	0:34:40	27.62	60.85	415.48	-51.03	179.67	427.32	-138.81	5.19
88	2/17/2020 12:11	2/17/2020 13:14	1:02:39	-48.12	-165.73	425.46	6.13	54.90	414.82	-138.01	5.99
89	2/17/2020 13:17	2/17/2020 13:45	0:28:30	-2.53	61.02	415.75	-46.07	177.01	427.65	-138.83	5.17
90	2/17/2020 13:48	2/17/2020 14:14	0:25:59	-40.34	-170.86	425.54	34.17	-103.25	419.47	-139.04	4.96
91	2/17/2020 14:28	2/17/2020 15:00	0:32:40	51.00	-35.40	424.17	-34.02	64.78	423.56	-139.69	4.31
92	2/17/2020 15:20	2/17/2020 15:32	0:12:10	-43.17	160.25	426.53	-10.42	-163.59	416.84	-139.21	4.79
93	2/17/2020 15:47	2/17/2020 15:53	0:05:40	33.80	-127.29	419.37	46.35	-104.95	422.75	-140.10	3.90
94	2/17/2020 15:55	2/17/2020 16:00	0:04:40	50.06	-91.15	423.81	51.48	-63.71	424.27	-138.23	5.77
95	2/17/2020 16:01	2/17/2020 16:08	0:07:29	51.10	-59.80	424.18	38.87	-23.84	420.97	-140.00	4.00
96	2/17/2020 16:11	2/17/2020 16:40	0:28:51	31.73	-14.30	419.23	-47.60	67.02	428.26	-139.71	4.29
97	2/17/2020 16:42	2/17/2020 17:33	0:50:21	-50.77	81.37	429.33	51.47	-87.14	424.31	-138.25	5.75
98	2/17/2020 17:34	2/17/2020 17:37	0:03:09	50.97	-82.27	424.19	47.21	-65.22	423.22	-139.64	4.36
99	2/17/2020 17:40	2/17/2020 18:16	0:36:30	41.83	-52.49	421.80	-51.35	62.76	429.51	-139.69	4.31
100	2/17/2020 18:19	2/17/2020 19:05	0:46:09	-51.57	79.63	429.51	51.65	-113.54	424.41	-138.27	5.73
101	2/17/2020 19:32	2/17/2020 19:43	0:10:20	-15.93	-23.45	418.54	-43.17	8.52	426.86	-140.55	3.45
102	2/17/2020 19:55	2/17/2020 20:38	0:43:10	-48.30	75.76	428.36	51.44	-134.02	424.26	-138.28	5.72
103	2/17/2020 20:39	2/17/2020 20:44	0:04:39	50.80	-128.19	424.12	44.14	-104.38	422.43	-139.34	4.66
104	2/17/2020 20:57	2/17/2020 20:57	0:00:00	8.31	-64.59	416.19	8.31	-64.59	416.19	-143.93	0.07
105	2/17/2020 20:58	2/17/2020 21:27	0:29:31	6.79	-63.49	416.16	-49.16	48.81	428.73	-138.87	5.13
106	2/17/2020 21:30	2/17/2020 22:00	0:29:51	-44.63	62.71	427.02	38.61	145.02	420.31	-139.58	4.42
107	2/17/2020 22:03	2/17/2020 22:11	0:08:21	44.71	156.55	422.01	51.43	-157.45	424.12	-138.29	5.71
108	2/17/2020 22:12	2/17/2020 22:27	0:14:19	50.64	-150.68	423.95	18.73	-96.17	417.02	-138.12	5.88
109	2/17/2020 22:30	2/17/2020 22:30	0:00:40	10.26	-89.59	416.28	8.23	-88.12	416.21	-142.07	1.93
110	2/17/2020 22:31	2/17/2020 23:05	0:34:11	6.20	-86.65	416.18	-40.38	47.55	425.43	-138.94	5.06
111	2/17/2020 23:08	2/17/2020 23:40	0:32:40	-33.46	57.51	422.91	51.15	158.29	424.07	-139.59	4.41
112	2/18/2020 0:06	2/18/2020 0:48	0:41:31	-2.02	-104.42	416.63	-12.99	52.98	417.00	-138.99	5.01
113	2/18/2020 1:03	2/18/2020 1:17	0:13:50	32.44	89.56	418.75	51.31	156.65	424.28	-138.29	5.71
114	2/18/2020 1:18	2/18/2020 1:36	0:17:50	50.29	164.31	424.06	7.08	-134.45	416.37	-138.24	5.76
115	2/18/2020 1:37	2/18/2020 1:49	0:12:11	5.04	-133.00	416.36	-30.96	-103.93	422.93	-139.76	4.24
116	2/18/2020 1:52	2/18/2020 2:36	0:44:19	-38.18	-94.59	425.32	32.95	66.58	418.84	-139.02	4.98
117	2/18/2020 2:42	2/18/2020 2:50	0:08:30	45.16	86.88	422.21	51.20	134.18	424.26	-138.61	5.39
118	2/18/2020 2:51	2/18/2020 3:28	0:36:50	50.27	140.86	424.06	-45.35	-104.45	427.67	-138.48	5.52

**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)
119	2/18/2020 3:45	2/18/2020 4:15	0:30:41	-37.47	-18.61	423.84	46.96	68.16	422.85	-140.73	3.27
120	2/18/2020 4:18	2/18/2020 5:04	0:46:20	50.57	83.18	424.03	-50.51	-109.04	429.25	-140.77	3.23
121	2/18/2020 5:07	2/18/2020 5:46	0:38:51	-51.80	-92.40	429.51	43.32	35.53	421.69	-140.73	3.27
122	2/18/2020 5:49	2/18/2020 6:02	0:12:40	48.28	48.88	423.24	42.47	117.60	422.45	-140.89	3.11
123	2/18/2020 6:05	2/18/2020 6:40	0:35:40	35.89	128.25	420.90	-51.80	-115.92	431.97	-140.79	3.21
124	2/18/2020 6:43	2/18/2020 7:23	0:39:50	-50.47	-99.30	431.31	49.57	30.52	426.30	-140.78	3.22
125	2/18/2020 7:26	2/18/2020 7:41	0:15:19	51.67	46.78	427.27	26.14	115.72	422.47	-140.89	3.11
126	2/18/2020 7:44	2/18/2020 8:16	0:31:59	17.96	122.94	421.26	-50.50	-123.14	432.62	-140.85	3.15
127	2/18/2020 8:19	2/18/2020 8:58	0:39:09	-46.84	-108.21	431.16	51.37	18.90	428.34	-140.81	3.19
128	2/18/2020 9:00	2/18/2020 9:15	0:14:11	51.61	34.80	428.61	23.94	94.19	422.50	-140.89	3.11
129	2/18/2020 9:17	2/18/2020 9:53	0:35:10	15.65	101.18	421.35	-44.87	-126.61	430.64	-140.86	3.14
130	2/18/2020 9:56	2/18/2020 10:33	0:37:29	-38.82	-115.04	428.56	51.73	8.75	431.60	-140.86	3.14
131	2/18/2020 10:36	2/18/2020 10:51	0:14:50	49.85	25.12	431.16	14.91	78.14	424.02	-140.92	3.08

**Max. Exceedance: 11.74 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	2/15/2020 22:24	2/15/2020 22:30	0:05:01	-49.11	-2.30	270.11	-51.60	27.67	281.80	-134.91	9.09
2	2/15/2020 22:32	2/15/2020 23:04	0:31:50	-49.26	44.30	285.42	38.90	141.69	232.73	-133.53	10.47
3	2/15/2020 23:07	2/15/2020 23:16	0:08:50	45.18	153.93	226.49	50.61	-154.21	208.56	-130.66	13.34
4	2/15/2020 23:19	2/16/2020 0:06	0:47:10	46.80	-138.38	203.87	-41.38	42.65	286.43	-131.94	12.06
5	2/16/2020 0:09	2/16/2020 0:34	0:25:30	-34.41	53.21	284.56	40.97	122.48	231.02	-133.51	10.49
6	2/16/2020 0:37	2/16/2020 0:50	0:12:40	46.77	135.52	224.86	43.13	-152.11	201.51	-130.77	13.23
7	2/16/2020 0:53	2/16/2020 1:42	0:49:40	36.30	-140.65	198.66	-22.07	43.43	278.32	-132.03	11.97
8	2/16/2020 1:45	2/16/2020 1:59	0:14:19	-13.45	50.47	272.87	30.69	85.53	239.95	-133.98	10.02
9	2/16/2020 2:02	2/16/2020 2:20	0:17:50	38.23	95.29	233.60	40.40	-169.66	200.17	-130.86	13.14
10	2/16/2020 2:32	2/16/2020 2:47	0:14:20	3.99	-133.87	204.66	-38.96	-94.83	251.62	-133.01	10.99
11	2/16/2020 3:02	2/16/2020 3:31	0:28:41	-45.39	-11.27	286.05	37.06	70.87	234.71	-133.73	10.27
12	2/16/2020 3:47	2/16/2020 4:19	0:32:01	45.71	156.56	203.31	-45.25	-105.20	261.56	-131.96	12.04
13	2/16/2020 4:32	2/16/2020 4:52	0:19:41	-43.68	-29.96	285.92	13.47	24.65	253.34	-134.52	9.48
14	2/16/2020 5:16	2/16/2020 5:58	0:42:21	45.65	134.05	203.29	-49.04	-68.18	284.40	-131.96	12.04
15	2/16/2020 6:01	2/16/2020 6:35	0:34:19	-44.28	-53.97	285.72	49.48	54.53	221.34	-131.53	12.47
16	2/16/2020 6:38	2/16/2020 6:43	0:04:50	51.68	71.62	215.46	48.89	101.08	206.37	-132.64	11.36
17	2/16/2020 6:46	2/16/2020 7:18	0:32:20	43.91	115.51	202.06	-47.45	-144.41	264.99	-131.95	12.05
18	2/16/2020 7:28	2/16/2020 7:41	0:12:59	-48.53	-88.84	284.38	-16.07	-42.28	274.71	-135.12	8.88
19	2/16/2020 8:03	2/16/2020 8:15	0:12:20	47.61	24.68	232.06	42.83	95.09	212.07	-131.52	12.48
20	2/16/2020 8:18	2/16/2020 8:40	0:21:20	35.96	106.41	209.32	-29.33	162.06	242.93	-132.35	11.65
21	2/16/2020 8:58	2/16/2020 9:07	0:08:30	-46.52	-105.00	285.21	-25.73	-73.36	279.65	-134.54	9.46
22	2/16/2020 9:20	2/16/2020 9:32	0:12:20	15.08	-42.17	255.25	47.24	0.80	232.49	-133.62	10.38
23	2/16/2020 9:43	2/16/2020 10:13	0:29:59	46.90	62.51	214.85	-39.32	152.30	255.35	-132.31	11.69
24	2/16/2020 10:21	2/16/2020 10:30	0:09:09	-51.76	-162.61	278.57	-40.11	-113.94	284.71	-134.81	9.19
25	2/16/2020 10:34	2/16/2020 10:46	0:12:40	-32.03	-102.71	282.29	6.54	-71.25	260.66	-134.58	9.42
26	2/16/2020 11:11	2/16/2020 11:44	0:32:40	48.34	35.05	216.21	-43.33	136.96	260.82	-132.26	11.74
27	2/16/2020 11:54	2/16/2020 12:17	0:23:21	-50.19	-164.52	283.28	12.09	-89.88	257.31	-134.54	9.46
28	2/16/2020 12:41	2/16/2020 13:08	0:27:10	47.93	13.79	215.68	-30.20	94.88	243.13	-132.25	11.75
29	2/16/2020 13:28	2/16/2020 13:51	0:23:00	-41.54	-161.89	284.89	26.57	-100.32	248.25	-134.03	9.97
30	2/16/2020 14:06	2/16/2020 14:58	0:51:39	51.47	-28.72	221.06	-40.54	177.21	284.49	-132.26	11.74
31	2/16/2020 15:01	2/16/2020 15:28	0:27:21	-33.42	-172.50	282.63	45.61	-94.62	234.35	-133.51	10.49
32	2/16/2020 15:31	2/16/2020 15:47	0:16:30	49.93	-79.51	229.21	27.53	2.71	207.53	-131.54	12.46
33	2/16/2020 15:50	2/16/2020 16:32	0:41:30	18.97	10.52	208.88	-29.38	169.35	339.39	-132.26	11.74
34	2/16/2020 16:35	2/16/2020 16:40	0:05:00	-21.75	176.68	335.11	-6.58	-171.50	322.64	-136.75	7.25
35	2/16/2020 17:11	2/16/2020 17:38	0:27:21	43.41	-42.40	212.60	-37.17	35.42	262.59	-132.12	11.88
36	2/16/2020 17:56	2/16/2020 18:29	0:33:39	-42.96	127.18	304.64	49.27	-128.15	235.31	-132.88	11.12
37	2/16/2020 18:40	2/16/2020 19:11	0:30:41	43.97	-66.36	213.11	-44.21	25.22	274.42	-132.03	11.97
38	2/16/2020 19:27	2/16/2020 20:00	0:32:01	-37.40	113.96	303.77	50.13	-146.68	233.60	-132.25	11.75
39	2/16/2020 20:21	2/16/2020 20:42	0:20:20	10.00	-50.76	211.60	-47.38	10.88	280.56	-132.34	11.66
40	2/16/2020 20:56	2/16/2020 21:33	0:36:19	-38.85	89.00	303.91	51.70	-146.39	224.85	-131.52	12.48
41	2/16/2020 21:36	2/16/2020 22:09	0:33:10	49.59	-129.24	218.92	-42.41	-24.07	270.73	-131.82	12.18
42	2/16/2020 22:12	2/16/2020 22:51	0:39:49	-47.77	-10.63	281.10	36.67	134.98	275.97	-134.18	9.82
43	2/16/2020 22:54	2/16/2020 23:09	0:14:30	43.34	146.35	281.44	43.60	-133.87	333.37	-133.79	10.21
44	2/16/2020 23:12	2/16/2020 23:50	0:38:39	37.12	-122.60	345.30	-50.67	10.23	388.33	-136.30	7.70
45	2/16/2020 23:53	2/17/2020 0:36	0:42:30	-47.12	25.44	374.55	50.46	-179.90	314.93	-133.80	10.20
46	2/17/2020 0:44	2/17/2020 1:42	0:57:31	33.55	-141.06	350.98	0.13	55.90	286.30	-134.78	9.22
47	2/17/2020 1:44	2/17/2020 2:10	0:25:21	9.08	62.30	278.59	46.26	173.28	327.19	-133.82	10.18
48	2/17/2020 2:13	2/17/2020 2:43	0:30:30	40.44	-174.24	339.07	-44.56	-89.00	423.41	-136.74	7.26
49	2/17/2020 2:46	2/17/2020 3:03	0:17:00	-48.91	-76.00	424.60	-30.77	7.20	416.78	-137.10	6.90
50	2/17/2020 3:06	2/17/2020 3:28	0:22:19	-22.84	15.07	414.34	41.41	72.74	418.00	-137.91	6.09
51	2/17/2020 3:31	2/17/2020 3:49	0:18:29	46.90	85.32	419.89	30.37	175.87	418.00	-136.80	7.20
52	2/17/2020 4:03	2/17/2020 4:17	0:14:09	-9.25	-152.68	419.25	-46.20	-108.46	428.65	-138.18	5.82
53	2/17/2020 4:20	2/17/2020 4:22	0:02:30	-50.13	-93.83	429.20	-51.70	-79.33	428.90	-138.14	5.86
54	2/17/2020 4:23	2/17/2020 4:58	0:35:31	-51.78	-75.35	428.69	35.67	40.21	411.31	-136.56	7.44
55	2/17/2020 5:01	2/17/2020 5:04	0:03:09	42.29	50.83	413.59	48.05	65.47	415.99	-138.72	5.28
56	2/17/2020 5:07	2/17/2020 5:11	0:03:39	51.11	81.05	417.72	51.33	102.88	419.11	-138.41	5.59
57	2/17/2020 5:11	2/17/2020 5:18	0:06:50	51.02	105.80	419.21	40.18	139.08	418.94	-140.66	3.34
58	2/17/2020 5:19	2/17/2020 6:02	0:42:20	37.84	142.81	418.71	-46.40	-66.07	424.51	-137.05	6.95
59	2/17/2020 6:04	2/17/2020 6:32	0:28:00	-40.76	-53.77	421.36	38.79	21.07	412.31	-137.98	6.02

**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	2/17/2020 6:35	2/17/2020 6:40	0:05:10	44.87	32.69	414.58	51.39	59.98	417.91	-137.14	6.86
61	2/17/2020 6:43	2/17/2020 7:36	0:52:49	51.54	76.91	418.97	-43.07	-81.71	422.53	-136.42	7.58
62	2/17/2020 7:36	2/17/2020 7:37	0:00:20	-42.02	-79.63	421.96	-41.29	-78.28	421.57	-137.83	6.17
63	2/17/2020 7:37	2/17/2020 7:37	0:00:00	-40.17	-76.32	420.97	-40.17	-76.32	420.97	-142.92	1.08
64	2/17/2020 7:40	2/17/2020 8:07	0:26:31	-33.21	-66.42	417.47	42.38	3.75	413.62	-136.97	7.03
65	2/17/2020 8:07	2/17/2020 8:10	0:02:49	43.42	5.86	414.02	48.36	19.28	416.14	-137.89	6.11
66	2/17/2020 8:13	2/17/2020 8:23	0:10:01	51.25	35.01	417.84	41.96	88.71	419.11	-136.90	7.10
67	2/17/2020 8:26	2/17/2020 9:05	0:39:00	35.29	99.19	418.46	-49.71	-125.06	426.50	-136.11	7.89
68	2/17/2020 9:08	2/17/2020 9:43	0:35:10	-45.48	-110.76	423.88	48.26	-4.66	416.13	-136.70	7.30
69	2/17/2020 9:45	2/17/2020 9:53	0:07:21	51.21	11.02	417.82	47.16	52.82	419.17	-138.33	5.67
70	2/17/2020 9:53	2/17/2020 10:33	0:39:30	46.32	55.24	419.11	-51.64	-175.26	428.25	-137.41	6.59
71	2/17/2020 10:36	2/17/2020 11:00	0:24:10	-50.87	-155.50	427.00	10.26	-78.08	406.71	-136.98	7.02
72	2/17/2020 11:13	2/17/2020 11:31	0:18:10	44.15	-39.68	413.48	35.18	52.19	416.30	-136.37	7.63
73	2/17/2020 11:34	2/17/2020 12:09	0:34:40	27.62	60.85	415.48	-51.03	179.67	427.32	-137.21	6.79
74	2/17/2020 12:11	2/17/2020 13:14	1:02:39	-48.12	-165.73	425.46	6.13	54.90	414.82	-136.41	7.59
75	2/17/2020 13:17	2/17/2020 13:45	0:28:30	-2.53	61.02	415.75	-46.07	177.01	427.65	-137.23	6.77
76	2/17/2020 13:48	2/17/2020 14:14	0:25:59	-40.34	-170.86	425.54	34.17	-103.25	419.47	-137.44	6.56
77	2/17/2020 14:28	2/17/2020 15:00	0:32:40	51.00	-35.40	424.17	-34.02	64.78	423.56	-138.09	5.91
78	2/17/2020 15:20	2/17/2020 15:32	0:12:10	-43.17	160.25	426.53	-10.42	-163.59	416.84	-137.61	6.39
79	2/17/2020 15:47	2/17/2020 15:53	0:05:40	33.80	-127.29	419.37	46.35	-104.95	422.75	-138.50	5.50
80	2/17/2020 15:55	2/17/2020 16:08	0:12:50	50.06	-91.15	423.81	38.87	-23.84	420.97	-136.63	7.37
81	2/17/2020 16:11	2/17/2020 16:40	0:28:51	31.73	-14.30	419.23	-47.60	67.02	428.26	-138.11	5.89
82	2/17/2020 16:42	2/17/2020 17:37	0:54:20	-50.77	81.37	429.33	47.21	-65.22	423.22	-136.65	7.35
83	2/17/2020 17:40	2/17/2020 18:16	0:36:30	41.83	-52.49	421.80	-51.35	62.76	429.51	-138.09	5.91
84	2/17/2020 18:19	2/17/2020 19:05	0:46:09	-51.57	79.63	429.51	51.65	-113.54	424.41	-136.67	7.33
85	2/17/2020 19:32	2/17/2020 19:43	0:10:20	-15.93	-23.45	418.54	-43.17	8.52	426.86	-138.95	5.05
86	2/17/2020 19:55	2/17/2020 20:39	0:43:21	-48.30	75.76	428.36	51.36	-133.03	424.24	-136.68	7.32
87	2/17/2020 20:39	2/17/2020 20:44	0:04:50	50.93	-129.15	424.15	44.14	-104.38	422.43	-137.74	6.26
88	2/17/2020 20:57	2/17/2020 21:27	0:30:00	8.31	-64.59	416.19	-49.16	48.81	428.73	-137.27	6.73
89	2/17/2020 21:30	2/17/2020 22:00	0:29:51	-44.63	62.71	427.02	38.61	145.02	420.31	-137.98	6.02
90	2/17/2020 22:03	2/17/2020 22:12	0:08:41	44.71	156.55	422.01	51.25	-155.49	424.08	-136.69	7.31
91	2/17/2020 22:12	2/17/2020 22:27	0:14:30	50.78	-151.63	423.98	18.73	-96.17	417.02	-136.52	7.48
92	2/17/2020 22:30	2/17/2020 23:05	0:35:30	10.26	-89.59	416.28	-40.38	47.55	425.43	-137.34	6.66
93	2/17/2020 23:08	2/17/2020 23:40	0:32:40	-33.46	57.51	422.91	51.15	158.29	424.07	-137.99	6.01
94	2/18/2020 0:06	2/18/2020 0:48	0:41:31	-2.02	-104.42	416.63	-12.99	52.98	417.00	-137.39	6.61
95	2/18/2020 1:03	2/18/2020 1:17	0:14:09	32.44	89.56	418.75	51.11	158.59	424.24	-136.69	7.31
96	2/18/2020 1:18	2/18/2020 1:49	0:30:51	50.45	163.37	424.10	-30.96	-103.93	422.93	-136.64	7.36
97	2/18/2020 1:52	2/18/2020 2:36	0:44:19	-38.18	-94.59	425.32	32.95	66.58	418.84	-137.42	6.58
98	2/18/2020 2:42	2/18/2020 2:50	0:08:49	45.16	86.88	422.21	50.98	136.11	424.22	-137.01	6.99
99	2/18/2020 2:51	2/18/2020 3:28	0:36:59	50.43	139.92	424.10	-45.35	-104.45	427.67	-136.88	7.12
100	2/18/2020 3:45	2/18/2020 4:15	0:30:41	-37.47	-18.61	423.84	46.96	68.16	422.85	-139.13	4.87
101	2/18/2020 4:18	2/18/2020 5:04	0:46:20	50.57	83.18	424.03	-50.51	-109.04	429.25	-139.17	4.83
102	2/18/2020 5:07	2/18/2020 5:46	0:38:51	-51.80	-92.40	429.51	43.32	35.53	421.69	-139.13	4.87
103	2/18/2020 5:49	2/18/2020 6:02	0:12:40	48.28	48.88	423.24	42.47	117.60	422.45	-139.29	4.71
104	2/18/2020 6:05	2/18/2020 6:40	0:35:40	35.89	128.25	420.90	-51.80	-115.92	431.97	-139.19	4.81
105	2/18/2020 6:43	2/18/2020 7:23	0:39:50	-50.47	-99.30	431.31	49.57	30.52	426.30	-139.18	4.82
106	2/18/2020 7:26	2/18/2020 7:41	0:15:19	51.67	46.78	427.27	26.14	115.72	422.47	-139.29	4.71
107	2/18/2020 7:44	2/18/2020 8:16	0:31:59	17.96	122.94	421.26	-50.50	-123.14	432.62	-139.25	4.75
108	2/18/2020 8:19	2/18/2020 8:58	0:39:09	-46.84	-108.21	431.16	51.37	18.90	428.34	-139.21	4.79
109	2/18/2020 9:00	2/18/2020 9:15	0:14:11	51.61	34.80	428.61	23.94	94.19	422.50	-139.29	4.71
110	2/18/2020 9:17	2/18/2020 9:53	0:35:10	15.65	101.18	421.35	-44.87	-126.61	430.64	-139.26	4.74
111	2/18/2020 9:56	2/18/2020 10:33	0:37:29	-38.82	-115.04	428.56	51.73	8.75	431.60	-139.26	4.74
112	2/18/2020 10:36	2/18/2020 10:51	0:14:50	49.85	25.12	431.16	14.91	78.14	424.02	-139.32	4.68

Max. Exceedance: 13.34 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	2/16/2020 2:25	2/16/2020 2:28	0:03:09	28.34	-153.86	197.43	18.79	-145.07	198.36	-133.86	10.14
2	2/16/2020 12:22	2/16/2020 12:27	0:04:40	26.75	-77.43	248.06	39.34	-61.81	239.48	-135.88	8.12
3	2/16/2020 13:56	2/16/2020 14:00	0:03:50	39.19	-84.76	239.63	47.19	-67.45	232.66	-135.40	8.60
4	2/16/2020 16:44	2/16/2020 16:50	0:06:30	7.43	-161.54	308.00	27.08	-145.36	283.95	-137.12	6.88
5	2/16/2020 20:11	2/16/2020 20:15	0:04:19	41.24	-83.66	211.42	29.88	-68.01	207.82	-134.27	9.73
6	2/17/2020 3:54	2/17/2020 3:58	0:04:01	17.05	-171.82	417.17	4.98	-162.80	417.42	-140.77	3.23
7	2/17/2020 11:05	2/17/2020 11:08	0:03:19	24.10	-66.85	408.05	33.27	-57.21	410.10	-140.13	3.87
8	2/17/2020 14:19	2/17/2020 14:23	0:04:31	44.79	-85.34	422.32	50.93	-62.05	424.07	-139.39	4.61
9	2/17/2020 15:36	2/17/2020 15:42	0:05:40	3.83	-153.44	415.48	20.85	-140.46	416.72	-140.34	3.66
10	2/17/2020 19:10	2/17/2020 19:17	0:07:31	46.90	-87.86	423.21	29.80	-59.31	418.96	-139.51	4.49
11	2/17/2020 20:49	2/17/2020 20:53	0:04:00	33.29	-86.90	419.72	22.22	-75.55	417.53	-139.02	4.98

**Max. Exceedance 10.14 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	2/16/2020 2:25	2/16/2020 2:28	0:03:09	28.34	-153.86	197.43	18.79	-145.07	198.36	-130.85	13.15
2	2/16/2020 12:22	2/16/2020 12:27	0:04:40	26.75	-77.43	248.06	39.34	-61.81	239.48	-132.87	11.13
3	2/16/2020 13:56	2/16/2020 14:00	0:03:50	39.19	-84.76	239.63	47.19	-67.45	232.66	-132.39	11.61
4	2/16/2020 16:44	2/16/2020 16:50	0:06:30	7.43	-161.54	308.00	27.08	-145.36	283.95	-134.11	9.89
5	2/16/2020 20:11	2/16/2020 20:15	0:04:19	41.24	-83.66	211.42	29.88	-68.01	207.82	-131.26	12.74
6	2/17/2020 3:54	2/17/2020 3:58	0:04:01	17.05	-171.82	417.17	4.98	-162.80	417.42	-137.76	6.24
7	2/17/2020 11:05	2/17/2020 11:08	0:03:19	24.10	-66.85	408.05	33.27	-57.21	410.10	-137.12	6.88
8	2/17/2020 14:19	2/17/2020 14:23	0:04:31	44.79	-85.34	422.32	50.93	-62.05	424.07	-136.38	7.62
9	2/17/2020 15:36	2/17/2020 15:42	0:05:40	3.83	-153.44	415.48	20.85	-140.46	416.72	-137.33	6.67
10	2/17/2020 19:10	2/17/2020 19:17	0:07:31	46.90	-87.86	423.21	29.80	-59.31	418.96	-136.50	7.50
11	2/17/2020 20:49	2/17/2020 20:53	0:04:00	33.29	-86.90	419.72	22.22	-75.55	417.53	-136.01	7.99

**Max. Exceedance: 13.15 dB**

Table 5 Approach (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	2/15/2020 22:24	2/15/2020 22:26	0:01:11	-49.11	-2.30	270.11	-50.43	4.32	273.39	-142.70	1.30
2	2/15/2020 22:36	2/15/2020 23:55	1:18:31	-42.19	63.81	286.67	-50.46	-18.17	273.26	-135.95	8.05
3	2/16/2020 0:06	2/16/2020 1:24	1:18:19	-41.38	42.65	286.43	-50.63	-39.70	273.55	-135.96	8.04
4	2/16/2020 1:35	2/16/2020 2:53	1:17:59	-40.54	21.45	286.10	-50.66	-62.19	273.31	-135.97	8.03
5	2/16/2020 3:05	2/16/2020 4:23	1:17:51	-40.08	-0.43	285.76	-50.69	-84.67	273.13	-135.99	8.01
6	2/16/2020 4:34	2/16/2020 5:52	1:17:40	-39.20	-21.68	285.39	-50.86	-106.14	273.40	-136.00	8.00
7	2/16/2020 6:04	2/16/2020 7:21	1:17:20	-38.30	-42.95	285.01	-50.90	-128.59	273.13	-136.01	7.99
8	2/16/2020 7:24	2/16/2020 8:17	0:52:30	-51.65	-109.19	279.98	40.16	100.04	210.79	-134.85	9.15
9	2/16/2020 8:17	2/16/2020 8:50	0:32:50	38.11	103.32	210.00	-50.97	-150.69	275.29	-136.38	7.62
10	2/16/2020 9:03	2/16/2020 9:46	0:43:40	-36.70	-85.97	284.06	39.11	79.06	210.44	-137.75	6.25
11	2/16/2020 9:47	2/16/2020 10:20	0:32:40	37.43	81.62	209.84	-51.04	-172.79	275.22	-136.40	7.60
12	2/16/2020 10:32	2/16/2020 11:16	0:43:40	-36.01	-107.72	283.68	38.44	57.40	210.17	-137.76	6.24
13	2/16/2020 11:17	2/16/2020 11:49	0:32:20	36.31	60.51	209.45	-51.11	165.12	275.30	-136.41	7.59
14	2/16/2020 12:02	2/16/2020 12:45	0:43:39	-34.87	-128.92	283.35	37.33	36.34	209.57	-137.72	6.28
15	2/16/2020 12:46	2/16/2020 13:18	0:32:10	35.60	38.77	209.02	-51.18	143.05	275.34	-136.37	7.63
16	2/16/2020 13:31	2/16/2020 14:15	0:43:40	-34.16	-150.71	283.10	36.63	14.64	209.13	-137.73	6.27
17	2/16/2020 14:16	2/16/2020 14:48	0:31:50	34.88	17.02	208.61	-51.15	119.99	274.84	-136.40	7.60
18	2/16/2020 15:01	2/16/2020 16:16	1:15:10	-32.98	-171.95	282.47	-50.65	93.41	316.91	-136.00	8.00
19	2/16/2020 16:36	2/16/2020 17:01	0:25:11	-17.29	-179.58	331.92	50.29	-100.37	243.55	-138.69	5.31
20	2/16/2020 17:02	2/16/2020 17:14	0:12:01	51.25	-93.37	239.43	34.89	-28.46	208.71	-135.35	8.65
21	2/16/2020 17:15	2/16/2020 17:46	0:31:11	33.08	-26.18	208.27	-51.12	74.25	290.99	-136.58	7.42
22	2/16/2020 18:01	2/16/2020 18:04	0:02:51	-30.10	145.87	301.54	-21.94	153.81	297.35	-143.10	0.90
23	2/16/2020 18:05	2/16/2020 18:44	0:39:30	-18.95	156.36	295.55	33.81	-49.82	208.51	-138.04	5.96
24	2/16/2020 18:45	2/16/2020 19:16	0:30:49	31.97	-47.60	208.13	-51.16	51.91	290.91	-136.59	7.41
25	2/16/2020 19:31	2/16/2020 19:33	0:02:49	-28.97	124.32	300.81	-20.73	132.10	296.44	-143.08	0.92
26	2/16/2020 19:34	2/16/2020 20:14	0:39:30	-18.23	134.19	294.91	33.16	-71.78	208.37	-138.01	5.99
27	2/16/2020 20:15	2/16/2020 20:45	0:30:41	30.83	-69.06	207.94	-51.31	30.59	291.41	-136.61	7.39
28	2/16/2020 21:00	2/16/2020 21:03	0:03:09	-28.29	102.27	300.35	-19.02	110.79	295.25	-143.06	0.94
29	2/16/2020 21:04	2/16/2020 21:44	0:39:30	-17.51	112.03	294.30	32.49	-93.73	208.12	-138.02	5.98
30	2/16/2020 21:44	2/16/2020 22:15	0:30:29	30.15	-91.06	207.74	-51.35	8.29	291.32	-136.62	7.38
31	2/16/2020 22:24	2/16/2020 22:58	0:33:41	-41.77	61.26	304.01	49.93	166.73	292.74	-138.92	5.08
32	2/16/2020 23:01	2/16/2020 23:02	0:01:40	51.68	-178.32	301.38	51.65	-168.03	307.62	-143.35	0.65
33	2/16/2020 23:16	2/16/2020 23:17	0:00:29	24.47	-108.21	364.66	23.02	-106.88	366.69	-143.81	0.19
34	2/16/2020 23:20	2/16/2020 23:20	0:00:20	12.61	-98.38	380.37	11.60	-97.62	381.62	-143.92	0.08
35	2/16/2020 23:21	2/16/2020 23:36	0:14:50	8.56	-95.38	385.31	-34.84	-59.10	418.64	-141.76	2.24
36	2/17/2020 0:02	2/17/2020 0:04	0:01:20	-24.18	60.31	321.56	-20.23	63.80	314.47	-143.72	0.28
37	2/17/2020 0:05	2/17/2020 0:30	0:24:01	-15.17	67.92	306.13	49.99	143.84	292.86	-138.92	5.08
38	2/17/2020 0:32	2/17/2020 0:33	0:01:29	51.69	158.82	301.50	51.68	168.08	307.10	-143.33	0.67
39	2/17/2020 0:48	2/17/2020 0:48	0:00:20	23.34	-130.38	366.09	22.37	-129.51	367.43	-143.82	0.18
40	2/17/2020 0:52	2/17/2020 0:52	0:00:20	11.93	-121.07	381.07	10.92	-120.32	382.32	-143.93	0.07
41	2/17/2020 0:53	2/17/2020 1:08	0:14:51	7.88	-118.09	385.98	-35.41	-81.57	418.75	-141.76	2.24
42	2/17/2020 1:34	2/17/2020 1:35	0:01:29	-23.53	37.70	320.54	-19.06	41.58	312.65	-143.71	0.29
43	2/17/2020 1:37	2/17/2020 2:01	0:23:50	-14.48	45.24	305.24	50.05	120.95	292.87	-138.93	5.07
44	2/17/2020 2:03	2/17/2020 2:05	0:01:29	51.71	135.95	301.50	51.67	145.22	307.10	-143.29	0.71
45	2/17/2020 2:19	2/17/2020 2:20	0:00:20	22.69	-153.01	366.77	21.71	-152.15	368.11	-143.86	0.14
46	2/17/2020 2:23	2/17/2020 2:44	0:20:59	12.26	-144.53	380.47	-45.80	-85.96	423.76	-141.66	2.34
47	2/17/2020 3:11	2/17/2020 3:25	0:14:11	-7.94	26.86	411.27	33.78	61.35	415.60	-142.69	1.31
48	2/17/2020 3:26	2/17/2020 3:28	0:02:10	35.91	64.12	416.24	41.04	72.08	417.88	-142.48	1.52
49	2/17/2020 3:45	2/17/2020 3:47	0:02:11	41.87	159.64	419.13	36.85	167.81	418.64	-140.58	3.42
50	2/17/2020 4:22	2/17/2020 4:23	0:00:31	-51.66	-80.33	428.95	-51.76	-77.34	428.80	-143.48	0.52
51	2/17/2020 4:24	2/17/2020 4:25	0:00:41	-51.57	-68.39	428.19	-51.25	-64.46	427.82	-143.30	0.70
52	2/17/2020 4:26	2/17/2020 4:27	0:00:50	-50.50	-58.71	427.18	-49.65	-54.08	426.56	-143.61	0.39
53	2/17/2020 4:29	2/17/2020 4:29	0:00:39	-46.85	-43.75	424.77	-45.70	-40.58	424.10	-143.74	0.26
54	2/17/2020 4:30	2/17/2020 5:19	0:49:01	-44.13	-36.81	423.21	38.24	142.20	418.75	-139.63	4.37
55	2/17/2020 6:08	2/17/2020 6:09	0:00:50	-32.14	-41.58	417.03	-29.90	-39.06	415.99	-142.76	1.24
56	2/17/2020 6:09	2/17/2020 6:10	0:00:21	-28.07	-37.14	415.17	-27.14	-36.20	414.77	-143.11	0.89
57	2/17/2020 6:31	2/17/2020 6:32	0:00:59	36.36	17.49	411.50	38.79	21.07	412.31	-143.58	0.42
58	2/17/2020 6:34	2/17/2020 6:36	0:01:50	43.22	29.02	413.92	46.66	37.37	415.33	-143.60	0.40
59	2/17/2020 7:01	2/17/2020 7:19	0:18:09	11.46	145.28	417.09	-40.60	-167.74	427.26	-140.30	3.70



**Table 5 Approach (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)
60	2/17/2020 7:21	2/17/2020 7:36	0:15:20	-43.45	-162.29	427.97	-42.72	-81.01	422.34	-138.77	5.23
61	2/17/2020 7:58	2/17/2020 8:16	0:17:20	21.11	-22.37	407.73	51.57	52.92	419.00	-140.80	3.20
62	2/17/2020 8:16	2/17/2020 8:17	0:00:31	51.33	55.88	419.12	51.01	58.79	419.23	-143.72	0.28
63	2/17/2020 8:21	2/17/2020 8:26	0:04:29	45.30	81.49	419.36	35.29	99.19	418.46	-141.82	2.18
64	2/17/2020 8:26	2/17/2020 8:27	0:00:39	33.57	101.37	418.29	31.82	103.46	418.12	-143.67	0.33
65	2/17/2020 8:29	2/17/2020 8:31	0:02:09	27.73	107.87	417.75	21.57	113.64	417.33	-142.42	1.58
66	2/17/2020 8:32	2/17/2020 8:33	0:00:59	18.15	116.51	417.19	15.18	118.88	417.13	-142.94	1.06
67	2/17/2020 8:34	2/17/2020 8:40	0:06:50	13.18	120.42	417.12	-7.62	135.35	418.96	-138.82	5.18
68	2/17/2020 8:41	2/17/2020 8:45	0:03:29	-10.15	137.19	419.42	-20.57	145.38	421.76	-140.20	3.80
69	2/17/2020 9:16	2/17/2020 9:19	0:03:00	-23.77	-80.13	413.30	-14.96	-72.74	410.20	-142.53	1.47
70	2/17/2020 9:20	2/17/2020 9:34	0:14:00	-12.45	-70.83	409.48	29.42	-38.03	409.52	-142.63	1.37
71	2/17/2020 9:55	2/17/2020 9:59	0:04:50	44.17	60.59	418.91	32.89	78.63	417.54	-142.62	1.38
72	2/17/2020 10:55	2/17/2020 11:12	0:16:40	-4.53	-88.62	407.92	42.44	-43.24	412.88	-142.39	1.61
73	2/17/2020 11:44	2/17/2020 11:56	0:12:21	-2.18	84.34	415.87	-37.43	116.54	425.02	-142.06	1.94
74	2/17/2020 12:28	2/17/2020 12:45	0:16:30	-3.67	-111.58	407.96	42.68	-66.34	412.91	-142.40	1.60
75	2/17/2020 13:17	2/17/2020 13:20	0:03:19	-3.04	61.38	415.82	-13.16	68.75	417.78	-142.04	1.96
76	2/17/2020 13:21	2/17/2020 13:21	0:00:00	-15.15	70.28	418.26	-15.15	70.28	418.26	-143.18	0.82
77	2/17/2020 14:01	2/17/2020 14:15	0:13:30	-2.88	-134.58	415.83	36.28	-100.46	420.01	-142.80	1.20
78	2/17/2020 14:16	2/17/2020 14:18	0:02:01	38.31	-97.51	420.54	42.80	-89.69	421.76	-142.60	1.40
79	2/17/2020 14:50	2/17/2020 15:02	0:12:00	-3.60	38.20	416.34	-37.77	69.89	424.85	-142.04	1.96
80	2/17/2020 15:34	2/17/2020 15:48	0:13:30	-2.29	-157.75	415.80	36.75	-123.38	420.12	-142.80	1.20
81	2/17/2020 15:49	2/17/2020 15:51	0:02:01	38.77	-120.40	420.65	43.19	-112.47	421.87	-142.60	1.40
82	2/17/2020 16:23	2/17/2020 16:35	0:12:00	-4.19	15.03	416.40	-38.23	46.99	424.98	-142.04	1.96
83	2/17/2020 17:08	2/17/2020 17:21	0:13:19	-1.20	179.44	415.65	37.23	-146.29	420.24	-142.80	1.20
84	2/17/2020 17:22	2/17/2020 17:24	0:01:51	39.22	-143.27	420.77	43.25	-135.94	421.88	-142.61	1.39
85	2/17/2020 17:56	2/17/2020 18:08	0:11:59	-4.77	-8.14	416.55	-38.69	24.11	425.17	-142.04	1.96
86	2/17/2020 18:41	2/17/2020 18:54	0:13:19	-0.61	156.27	415.53	37.69	-169.19	420.35	-142.80	1.20
87	2/17/2020 18:55	2/17/2020 18:57	0:02:00	39.28	-166.75	420.78	43.63	-158.70	422.00	-142.62	1.38
88	2/17/2020 19:29	2/17/2020 19:41	0:11:50	-5.36	-31.31	416.75	-38.74	0.61	425.32	-142.04	1.96
89	2/17/2020 20:14	2/17/2020 20:27	0:13:10	-0.03	133.09	415.40	37.75	167.31	420.22	-142.81	1.19
90	2/17/2020 20:28	2/17/2020 20:29	0:01:50	39.72	170.38	420.75	43.68	177.82	421.87	-142.62	1.38
91	2/17/2020 21:02	2/17/2020 21:14	0:11:50	-5.94	-54.47	416.87	-39.19	-22.26	425.57	-142.04	1.96
92	2/17/2020 21:47	2/17/2020 22:00	0:13:10	0.56	109.92	415.28	38.21	144.41	420.20	-142.81	1.19
93	2/17/2020 22:01	2/17/2020 22:02	0:01:59	39.78	146.89	420.62	44.06	155.07	421.83	-142.63	1.37
94	2/17/2020 22:35	2/17/2020 22:47	0:11:39	-6.53	-77.64	417.00	-39.25	-45.75	425.63	-142.03	1.97
95	2/17/2020 23:20	2/17/2020 23:33	0:13:10	1.15	86.75	415.23	38.67	121.53	420.41	-142.81	1.19
96	2/17/2020 23:34	2/17/2020 23:35	0:01:49	40.21	124.04	420.84	44.11	131.60	421.95	-142.64	1.36
97	2/18/2020 0:08	2/18/2020 0:20	0:11:40	-7.11	-100.81	417.19	-39.69	-68.62	425.87	-142.02	1.98
98	2/18/2020 0:53	2/18/2020 1:06	0:13:10	1.73	63.57	415.17	39.11	98.65	420.50	-142.81	1.19
99	2/18/2020 1:07	2/18/2020 1:08	0:01:49	40.64	101.20	420.93	44.48	108.85	422.04	-142.65	1.35
100	2/18/2020 1:41	2/18/2020 1:53	0:11:41	-7.69	-123.97	417.31	-40.13	-91.48	425.99	-142.03	1.97
101	2/18/2020 2:26	2/18/2020 2:39	0:12:50	2.82	40.76	415.07	39.17	75.16	420.49	-142.80	1.20
102	2/18/2020 2:39	2/18/2020 2:41	0:01:50	40.70	77.71	420.92	44.53	85.38	422.03	-142.66	1.34
103	2/18/2020 3:00	2/18/2020 10:51	7:51:10	34.31	177.49	420.50	14.91	78.14	424.02	-142.74	1.26

Max. Exceedance: 9.15 dB

**Table 1 Berthed (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	4/14/2020 13:59	4/14/2020 14:00	0:01:50	0.02	70.24	419.96	-5.58	74.20	421.16	-141.38	2.62
2	4/14/2020 14:01	4/14/2020 14:01	0:00:00	-7.61	75.66	421.68	-7.61	75.66	421.68	-141.19	2.81
3	4/14/2020 14:02	4/14/2020 14:03	0:01:50	-9.13	76.76	422.10	-14.65	80.90	423.82	-142.07	1.93
4	4/14/2020 14:04	4/14/2020 14:05	0:00:41	-16.14	82.07	424.34	-18.11	83.65	425.05	-141.42	2.58
5	4/14/2020 14:05	4/14/2020 14:06	0:01:10	-19.58	84.86	425.60	-22.97	87.79	426.94	-141.49	2.51
6	4/14/2020 14:07	4/14/2020 14:07	0:00:00	-24.87	89.54	427.73	-24.87	89.54	427.73	-142.75	1.25
7	4/14/2020 14:08	4/14/2020 14:10	0:02:20	-28.14	92.73	429.14	-34.36	99.81	431.98	-141.50	2.50
8	4/14/2020 14:11	4/14/2020 14:14	0:02:49	-35.63	101.46	432.58	-42.23	111.99	435.76	-140.26	3.74
9	4/14/2020 14:15	4/14/2020 14:15	0:00:00	-45.21	118.48	437.22	-45.21	118.48	437.22	-142.58	1.42
10	4/14/2020 14:16	4/14/2020 14:17	0:01:11	-46.11	120.79	437.66	-47.99	126.50	438.58	-141.65	2.35
11	4/14/2020 14:17	4/14/2020 14:18	0:00:09	-48.69	129.07	438.94	-48.91	129.94	439.05	-142.57	1.43
12	4/14/2020 14:18	4/14/2020 14:19	0:00:49	-49.53	132.61	439.36	-50.41	137.20	439.81	-141.94	2.06
13	4/14/2020 14:19	4/14/2020 14:20	0:00:39	-50.83	140.03	440.04	-51.29	143.88	440.29	-143.01	0.99
14	4/14/2020 14:21	4/14/2020 14:23	0:02:10	-51.60	147.80	440.49	-51.61	160.70	440.70	-141.77	2.23
15	4/14/2020 14:24	4/14/2020 14:26	0:02:10	-51.30	164.62	440.63	-49.37	176.80	440.00	-140.50	3.50
16	4/14/2020 14:26	4/14/2020 14:28	0:02:10	-48.74	179.45	439.77	-45.27	-169.94	438.44	-142.20	1.80
17	4/14/2020 14:29	4/14/2020 14:31	0:01:51	-43.34	-165.54	437.65	-39.34	-158.22	436.00	-141.63	2.37
18	4/14/2020 14:32	4/14/2020 14:32	0:00:00	-37.77	-155.78	435.34	-37.77	-155.78	435.34	-141.75	2.25
19	4/14/2020 14:32	4/14/2020 14:33	0:00:11	-36.55	-154.03	434.82	-36.13	-153.46	434.65	-142.25	1.75
20	4/14/2020 14:33	4/14/2020 14:33	0:00:00	-34.88	-151.78	434.12	-34.88	-151.78	434.12	-141.92	2.08
21	4/14/2020 14:34	4/14/2020 14:34	0:00:00	-33.60	-150.16	433.59	-33.60	-150.16	433.59	-143.89	0.11
22	4/14/2020 14:34	4/14/2020 14:36	0:01:40	-32.29	-148.59	433.04	-27.78	-143.68	431.20	-141.39	2.61
23	4/14/2020 14:36	4/14/2020 14:38	0:02:10	-26.39	-142.30	430.65	-20.18	-136.68	428.30	-141.56	2.44
24	4/14/2020 14:39	4/14/2020 14:41	0:02:19	-18.72	-135.46	427.78	-11.77	-130.02	425.53	-141.62	2.38
25	4/14/2020 14:42	4/14/2020 14:45	0:02:51	-9.25	-128.16	424.82	-0.63	-122.01	422.83	-140.72	3.28
26	4/14/2020 14:46	4/14/2020 14:47	0:01:01	1.41	-120.58	422.47	4.46	-118.42	422.00	-141.94	2.06
27	4/14/2020 14:47	4/14/2020 14:47	0:00:00	5.99	-117.33	421.81	5.99	-117.33	421.81	-142.20	1.80
28	4/14/2020 14:48	4/14/2020 14:49	0:01:31	7.51	-116.24	421.64	12.05	-112.90	421.28	-141.81	2.19
29	4/14/2020 14:50	4/14/2020 14:57	0:06:31	15.55	-110.22	421.14	33.88	-92.62	422.12	-140.83	3.17
30	4/14/2020 14:57	4/14/2020 14:58	0:00:30	35.16	-90.98	422.28	36.42	-89.28	422.43	-141.95	2.05
31	4/14/2020 14:58	4/14/2020 14:59	0:00:19	38.05	-86.93	422.64	38.84	-85.71	422.75	-140.01	3.99
32	4/14/2020 14:59	4/14/2020 15:00	0:01:00	40.00	-83.83	422.91	42.21	-79.86	423.22	-140.88	3.12
33	4/14/2020 15:01	4/14/2020 15:03	0:02:40	43.26	-77.76	423.37	48.00	-65.29	424.04	-141.04	2.96
34	4/14/2020 15:04	4/14/2020 15:04	0:00:31	48.70	-62.71	424.13	49.34	-60.05	424.21	-141.31	2.69
35	4/14/2020 15:05	4/14/2020 15:09	0:03:20	50.26	-55.48	424.31	51.78	-35.90	424.30	-139.84	4.16
36	4/14/2020 15:09	4/14/2020 15:09	0:00:09	51.70	-32.91	424.24	51.65	-31.91	424.21	-142.87	1.13
37	4/14/2020 15:10	4/14/2020 15:10	0:00:20	51.46	-28.94	424.13	51.28	-26.98	424.06	-142.55	1.45
38	4/14/2020 15:11	4/14/2020 15:15	0:03:20	50.24	-19.33	423.73	45.47	-2.24	422.51	-140.89	3.11
39	4/14/2020 15:15	4/14/2020 15:15	0:00:11	44.53	0.03	422.29	44.21	0.77	422.21	-142.72	1.28
40	4/14/2020 15:16	4/14/2020 15:24	0:07:40	43.21	2.93	421.98	23.76	28.38	418.82	-139.85	4.15
41	4/14/2020 15:24	4/14/2020 15:32	0:07:31	22.32	29.68	418.71	-0.22	46.80	419.88	-139.79	4.21
42	4/14/2020 15:32	4/14/2020 15:32	0:00:00	-1.75	47.88	420.17	-1.75	47.88	420.17	-142.97	1.03
43	4/14/2020 15:33	4/14/2020 15:33	0:00:00	-4.30	49.67	420.72	-4.30	49.67	420.72	-142.02	1.98
44	4/14/2020 15:33	4/14/2020 15:35	0:01:49	-5.82	50.76	421.08	-11.38	54.81	422.62	-141.06	2.94
45	4/14/2020 15:36	4/14/2020 15:38	0:02:11	-12.89	55.94	423.10	-19.32	61.04	425.37	-142.13	1.87
46	4/14/2020 15:38	4/14/2020 15:39	0:00:50	-20.78	62.27	425.93	-23.19	64.38	426.90	-142.69	1.31
47	4/14/2020 15:41	4/14/2020 15:42	0:00:59	-26.97	67.94	428.50	-29.72	70.79	429.73	-142.29	1.71
48	4/14/2020 15:42	4/14/2020 15:42	0:00:11	-31.07	72.27	430.34	-31.52	72.77	430.55	-142.73	1.27
49	4/14/2020 15:43	4/14/2020 15:44	0:01:19	-32.84	74.32	431.16	-36.24	78.68	432.76	-141.94	2.06
50	4/14/2020 15:45	4/14/2020 15:46	0:01:00	-38.27	81.62	433.74	-40.58	85.37	434.86	-141.53	2.47
51	4/14/2020 15:46	4/14/2020 15:47	0:00:39	-41.68	87.35	435.39	-43.09	90.10	436.08	-142.31	1.69
52	4/14/2020 15:48	4/14/2020 15:48	0:00:20	-44.42	92.98	436.73	-45.05	94.47	437.05	-142.13	1.87
53	4/14/2020 15:49	4/14/2020 15:49	0:00:19	-45.96	96.77	437.49	-46.53	98.35	437.78	-142.81	1.19
54	4/14/2020 15:50	4/14/2020 15:52	0:01:50	-47.86	102.44	438.44	-50.16	112.17	439.61	-141.70	2.30
55	4/14/2020 15:52	4/14/2020 15:52	0:00:00	-50.63	114.97	439.85	-50.63	114.97	439.85	-143.82	0.18
56	4/14/2020 15:53	4/14/2020 15:54	0:01:20	-51.02	117.83	440.07	-51.68	125.65	440.48	-142.25	1.75
57	4/14/2020 15:55	4/14/2020 15:56	0:01:20	-51.79	131.61	440.62	-51.44	139.52	440.61	-142.04	1.96
58	4/14/2020 15:57	4/14/2020 15:57	0:00:09	-50.93	144.36	440.47	-50.80	145.32	440.43	-143.05	0.95
59	4/14/2020 15:58	4/14/2020 15:59	0:00:39	-50.20	149.07	440.24	-49.48	152.72	440.00	-142.74	1.26

Table 1 Berthed (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)
60	4/14/2020 15:59	4/14/2020 16:01	0:01:30	-48.85	155.38	439.77	-46.60	162.92	438.93	-141.97	2.03
61	4/14/2020 16:01	4/14/2020 16:02	0:01:00	-45.43	166.05	438.47	-43.51	170.48	437.70	-141.70	2.30
62	4/14/2020 16:03	4/14/2020 16:03	0:00:00	-42.13	173.27	437.14	-42.13	173.27	437.14	-143.30	0.70
63	4/14/2020 16:03	4/14/2020 16:04	0:00:59	-41.05	175.28	436.70	-38.77	179.08	435.75	-142.49	1.51
64	4/14/2020 16:05	4/14/2020 16:05	0:00:21	-37.57	-179.11	435.25	-36.76	-177.94	434.91	-143.44	0.56
65	4/14/2020 16:06	4/14/2020 16:06	0:00:10	-35.10	-175.68	434.22	-34.68	-175.13	434.04	-141.99	2.01
66	4/14/2020 16:07	4/14/2020 16:07	0:00:50	-33.39	-173.52	433.51	-31.19	-170.94	432.60	-141.50	2.50
67	4/14/2020 16:08	4/14/2020 16:13	0:04:20	-28.94	-168.49	431.68	-16.51	-157.29	427.05	-141.55	2.45
68	4/14/2020 16:13	4/14/2020 16:13	0:00:00	-15.03	-156.12	426.57	-15.03	-156.12	426.57	-143.13	0.87
69	4/14/2020 16:14	4/14/2020 16:16	0:01:59	-13.53	-154.97	426.10	-7.50	-150.50	424.39	-141.76	2.24
70	4/14/2020 16:16	4/14/2020 16:18	0:01:29	-5.98	-149.41	424.02	-1.40	-146.17	423.02	-141.93	2.07
71	4/14/2020 16:18	4/14/2020 16:19	0:00:30	0.13	-145.09	422.74	1.65	-144.02	422.47	-141.92	2.08
72	4/14/2020 16:19	4/14/2020 16:21	0:02:19	3.18	-142.94	422.24	10.28	-137.83	421.45	-141.51	2.49
73	4/14/2020 16:22	4/14/2020 16:22	0:00:30	11.79	-136.71	421.35	13.29	-135.58	421.27	-141.44	2.56
74	4/14/2020 16:23	4/14/2020 16:23	0:00:10	14.79	-134.43	421.21	15.29	-134.04	421.20	-142.48	1.52
75	4/14/2020 16:24	4/14/2020 16:24	0:00:09	18.75	-131.27	421.17	19.24	-130.86	421.18	-142.76	1.24
76	4/14/2020 16:25	4/14/2020 16:26	0:01:31	20.70	-129.63	421.20	25.02	-125.76	421.38	-140.74	3.26
77	4/14/2020 16:27	4/14/2020 16:33	0:05:41	26.90	-123.95	421.51	41.30	-105.18	423.14	-141.18	2.82
78	4/14/2020 16:33	4/14/2020 16:36	0:02:50	42.38	-103.14	423.29	47.61	-90.19	424.02	-141.44	2.56
79	4/14/2020 16:37	4/14/2020 16:38	0:01:20	48.81	-85.91	424.18	50.34	-78.64	424.35	-141.70	2.30
80	4/14/2020 16:39	4/14/2020 16:40	0:01:20	50.91	-74.85	424.40	51.63	-67.02	424.41	-141.64	2.36
81	4/14/2020 16:41	4/14/2020 16:41	0:00:20	51.78	-63.03	424.37	51.80	-61.04	424.35	-142.09	1.91
82	4/14/2020 16:42	4/14/2020 16:43	0:01:19	51.75	-58.04	424.29	51.24	-50.13	424.06	-139.97	4.03
83	4/14/2020 16:44	4/14/2020 16:45	0:01:20	50.90	-47.22	423.94	49.62	-39.74	423.57	-141.06	2.94
84	4/14/2020 16:45	4/14/2020 16:46	0:01:00	49.01	-37.05	423.40	47.59	-31.89	423.03	-141.39	2.61
85	4/14/2020 16:47	4/14/2020 16:54	0:06:20	46.22	-27.82	422.69	31.86	-3.49	419.79	-139.59	4.41
86	4/14/2020 16:54	4/14/2020 16:58	0:04:00	30.52	-1.98	419.58	19.17	8.76	418.50	-139.74	4.26
87	4/14/2020 16:59	4/14/2020 17:02	0:03:19	17.70	9.97	418.45	7.68	17.58	418.76	-140.58	3.42
88	4/14/2020 17:02	4/14/2020 17:03	0:00:19	6.15	18.67	418.90	5.14	19.40	419.02	-143.05	0.95
89	4/14/2020 17:03	4/14/2020 17:11	0:07:59	3.61	20.48	419.21	-20.53	38.44	425.75	-139.73	4.27
90	4/14/2020 17:12	4/14/2020 17:12	0:00:00	-21.98	39.69	426.33	-21.98	39.69	426.33	-143.03	0.97
91	4/14/2020 17:12	4/14/2020 17:13	0:01:10	-23.42	40.98	426.92	-26.73	44.09	428.32	-141.55	2.45
92	4/14/2020 17:14	4/14/2020 17:14	0:00:00	-28.12	45.49	428.93	-28.12	45.49	428.93	-143.31	0.69
93	4/14/2020 17:14	4/14/2020 17:17	0:02:09	-29.49	46.92	429.54	-35.19	53.65	432.18	-142.04	1.96
94	4/14/2020 17:18	4/14/2020 17:21	0:03:39	-38.06	57.69	433.55	-45.81	72.75	437.33	-141.28	2.72
95	4/14/2020 17:22	4/14/2020 17:23	0:01:10	-47.21	76.74	438.02	-48.91	82.68	438.87	-141.16	2.84
96	4/14/2020 17:24	4/14/2020 17:25	0:00:50	-49.72	86.25	439.28	-50.55	90.87	439.72	-142.36	1.64
97	4/14/2020 17:26	4/14/2020 17:27	0:01:01	-51.08	94.68	440.00	-51.60	100.53	440.32	-141.95	2.05
98	4/14/2020 17:27	4/14/2020 17:29	0:01:50	-51.79	105.49	440.48	-51.40	116.38	440.50	-142.05	1.95
99	4/14/2020 17:30	4/14/2020 17:30	0:00:00	-50.87	121.21	440.35	-50.87	121.21	440.35	-143.24	0.76
100	4/14/2020 17:31	4/14/2020 17:31	0:00:20	-50.45	124.05	440.22	-50.12	125.91	440.11	-143.60	0.40
101	4/14/2020 17:31	4/14/2020 17:32	0:00:59	-49.58	128.64	439.93	-48.29	133.92	439.47	-142.53	1.47
102	4/14/2020 17:33	4/14/2020 17:33	0:00:10	-47.55	136.44	439.19	-47.29	137.27	439.09	-142.60	1.40
103	4/14/2020 17:34	4/14/2020 17:34	0:00:00	-45.89	141.27	438.55	-45.89	141.27	438.55	-143.41	0.59
104	4/14/2020 17:35	4/14/2020 17:35	0:00:00	-44.66	144.31	438.07	-44.66	144.31	438.07	-143.73	0.27
105	4/14/2020 17:35	4/14/2020 17:37	0:01:29	-43.69	146.50	437.68	-40.50	152.63	436.37	<b>-141.87</b>	<b>2.13</b>
106	4/14/2020 17:37	4/14/2020 17:37	0:00:00	-39.36	154.53	435.90	-39.36	154.53	435.90	-142.56	1.44
107	4/14/2020 17:38	4/14/2020 17:38	0:00:00	-37.78	156.97	435.25	-37.78	156.97	435.25	-142.94	1.06
108	4/14/2020 17:38	4/14/2020 17:39	0:00:41	-36.56	158.73	434.74	-34.90	160.97	434.05	-141.96	2.04
109	4/14/2020 17:40	4/14/2020 17:40	0:00:50	-33.18	163.13	433.34	-30.98	165.69	432.43	-142.29	1.71
110	4/14/2020 17:41	4/14/2020 17:45	0:03:50	-29.63	167.17	431.88	-18.74	177.30	427.75	-141.49	2.51
111	4/14/2020 17:45	4/14/2020 17:45	0:00:10	-17.26	178.50	427.24	-16.77	178.90	427.08	-142.21	1.79
112	4/14/2020 17:46	4/14/2020 17:50	0:04:01	-15.29	-179.93	426.59	-3.19	-171.04	423.34	-141.37	2.63
113	4/14/2020 17:50	4/14/2020 17:51	0:00:19	-1.66	-169.96	423.03	-0.65	-169.25	422.84	-142.08	1.92
114	4/14/2020 17:51	4/14/2020 17:52	0:00:20	0.88	-168.17	422.56	1.90	-167.45	422.40	-142.10	1.90
115	4/14/2020 17:52	4/14/2020 17:52	0:00:00	3.43	-166.38	422.16	3.43	-166.38	422.16	-143.76	0.24
116	4/14/2020 17:53	4/14/2020 17:53	0:00:21	5.46	-164.93	421.89	6.48	-164.21	421.77	-142.20	1.80
117	4/14/2020 17:54	4/14/2020 17:55	0:01:00	8.50	-162.75	421.57	11.53	-160.52	421.34	-141.41	2.59
118	4/14/2020 17:55	4/14/2020 17:57	0:02:10	13.03	-159.39	421.26	19.47	-154.28	421.16	-141.31	2.69

**Table 1 Berthed (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)
119	4/14/2020 17:58	4/14/2020 17:59	0:00:30	21.42	-152.62	421.20	22.87	-151.35	421.26	-142.12	1.88
120	4/14/2020 17:59	4/14/2020 18:00	0:01:09	24.77	-149.60	421.36	28.05	-146.40	421.59	-141.36	2.64
121	4/14/2020 18:01	4/14/2020 18:02	0:00:50	30.33	-143.99	421.79	32.56	-141.45	422.02	-141.86	2.14
122	4/14/2020 18:03	4/14/2020 18:05	0:01:40	34.73	-138.78	422.27	38.83	-132.96	422.79	-141.79	2.21
123	4/14/2020 18:05	4/14/2020 18:05	0:00:00	40.37	-130.44	423.00	40.37	-130.44	423.00	-143.33	0.67
124	4/14/2020 18:06	4/14/2020 18:09	0:03:09	41.48	-128.46	423.16	47.48	-114.23	424.01	-141.31	2.69
125	4/14/2020 18:10	4/14/2020 18:10	0:00:00	48.47	-110.84	424.14	48.47	-110.84	424.14	-142.92	1.08
126	4/14/2020 18:10	4/14/2020 18:11	0:00:31	49.34	-107.32	424.24	49.91	-104.59	424.31	-142.21	1.79
127	4/14/2020 18:12	4/14/2020 18:17	0:05:09	50.85	-98.96	424.39	50.56	-68.47	423.84	-140.76	3.24
128	4/14/2020 18:17	4/14/2020 18:20	0:02:41	50.08	-65.66	423.70	46.37	-51.84	422.73	-141.40	2.60
129	4/14/2020 18:21	4/14/2020 18:22	0:01:10	45.49	-49.49	422.52	43.22	-44.32	422.00	-142.53	1.47
130	4/14/2020 18:22	4/14/2020 18:34	0:11:51	41.82	-41.54	421.69	9.46	-7.33	418.65	-139.79	4.21
131	4/14/2020 18:35	4/14/2020 18:36	0:01:40	7.94	-6.22	418.77	2.86	-2.59	419.35	-139.89	4.11
132	4/14/2020 18:37	4/14/2020 18:42	0:05:19	0.82	-1.16	419.67	-15.36	10.62	423.86	-140.54	3.46
133	4/14/2020 18:43	4/14/2020 18:46	0:03:20	-16.85	11.79	424.38	-26.48	20.24	428.21	-141.48	2.52
134	4/14/2020 18:47	4/14/2020 18:48	0:01:21	-27.88	21.63	428.82	-31.50	25.53	430.45	-141.92	2.08
135	4/14/2020 18:49	4/14/2020 18:51	0:02:19	-32.82	27.07	431.06	-38.65	34.98	433.82	-142.11	1.89
136	4/14/2020 18:51	4/14/2020 18:52	0:00:50	-39.81	36.84	434.38	-41.67	40.10	435.28	-141.30	2.70
137	4/14/2020 18:53	4/14/2020 18:53	0:00:19	-42.73	42.15	435.80	-43.42	43.55	436.14	-143.01	0.99
138	4/14/2020 18:54	4/14/2020 18:55	0:01:40	-44.73	46.47	436.78	-47.60	54.35	438.19	-140.00	4.00
139	4/14/2020 18:56	4/14/2020 18:57	0:01:10	-48.34	56.88	438.56	-49.81	63.07	439.30	-142.76	1.24
140	4/14/2020 18:58	4/14/2020 18:59	0:00:59	-50.62	67.71	439.73	-51.33	73.47	440.12	-142.40	1.60
141	4/14/2020 18:59	4/14/2020 19:00	0:00:30	-51.57	76.41	440.27	-51.72	79.38	440.38	-142.80	1.20
142	4/14/2020 19:00	4/14/2020 19:00	0:00:00	-51.79	82.36	440.46	-51.79	82.36	440.46	-142.91	1.09
143	4/14/2020 19:01	4/14/2020 19:03	0:01:40	-51.78	85.34	440.50	-51.16	95.18	440.40	-142.03	1.97
144	4/14/2020 19:03	4/14/2020 19:05	0:02:10	-50.81	98.06	440.29	-48.41	109.86	439.46	-142.05	1.95
145	4/14/2020 19:06	4/14/2020 19:07	0:01:00	-47.42	113.23	439.09	-45.75	118.03	438.44	-142.19	1.81
146	4/14/2020 19:07	4/14/2020 19:08	0:00:50	-44.83	120.31	438.08	-43.19	123.94	437.42	-141.70	2.30
147	4/14/2020 19:09	4/14/2020 19:12	0:02:40	-41.79	126.70	436.85	-35.54	136.52	434.25	-141.82	2.18
148	4/14/2020 19:12	4/14/2020 19:17	0:04:20	-33.84	138.71	433.55	-21.90	151.00	428.83	-141.47	2.53
149	4/14/2020 19:17	4/14/2020 19:21	0:04:01	-19.97	152.67	428.13	-8.02	161.90	424.44	-141.42	2.58
150	4/14/2020 19:22	4/14/2020 19:22	0:00:29	-6.50	162.99	424.06	-4.98	164.08	423.70	-141.73	2.27
151	4/14/2020 19:23	4/14/2020 19:24	0:00:31	-1.93	166.24	423.05	-0.40	167.32	422.76	-141.87	2.13
152	4/14/2020 19:24	4/14/2020 19:29	0:04:40	1.13	168.39	422.49	15.27	178.72	421.17	-141.28	2.72
153	4/14/2020 19:29	4/14/2020 19:30	0:00:20	16.76	179.90	421.15	17.75	-179.31	421.14	-141.65	2.35
154	4/14/2020 19:30	4/14/2020 19:36	0:05:50	19.22	-178.10	421.15	35.35	-161.57	422.37	-139.98	4.02
155	4/14/2020 19:37	4/14/2020 19:40	0:03:29	36.60	-159.86	422.53	44.40	-146.10	423.62	-141.30	2.70
156	4/14/2020 19:41	4/14/2020 19:43	0:02:21	45.35	-143.85	423.76	49.02	-132.28	424.26	-141.54	2.46
157	4/14/2020 19:43	4/14/2020 19:45	0:01:19	49.63	-129.59	424.34	50.91	-122.10	424.46	-142.57	1.43
158	4/14/2020 19:45	4/14/2020 19:49	0:03:39	51.34	-118.22	424.49	51.14	-96.41	424.10	-139.81	4.19
159	4/14/2020 19:50	4/14/2020 20:00	0:10:10	50.77	-93.52	423.98	30.98	-49.72	419.75	-139.75	4.25
160	4/14/2020 20:00	4/14/2020 20:09	0:09:09	29.63	-48.23	419.56	2.61	-26.03	419.48	-139.67	4.33
161	4/14/2020 20:10	4/14/2020 20:11	0:01:20	1.08	-24.95	419.72	-2.99	-22.08	420.49	-141.71	2.29
162	4/14/2020 20:12	4/14/2020 20:13	0:01:31	-5.03	-20.64	420.95	-9.59	-17.35	422.14	-141.92	2.08
163	4/14/2020 20:14	4/14/2020 20:17	0:03:00	-11.60	-15.86	422.74	-20.51	-8.80	425.85	-141.58	2.42
164	4/14/2020 20:18	4/14/2020 20:21	0:02:29	-23.40	-6.26	427.01	-30.37	0.66	430.02	-140.09	3.91
165	4/14/2020 20:21	4/14/2020 20:21	0:00:00	-31.71	2.16	430.63	-31.71	2.16	430.63	-142.18	1.82
166	4/14/2020 20:22	4/14/2020 20:22	0:00:30	-33.03	3.71	431.24	-34.33	5.31	431.84	-142.11	1.89
167	4/14/2020 20:23	4/14/2020 20:27	0:04:11	-35.59	6.97	432.44	-44.88	23.21	436.91	-141.63	2.37
168	4/14/2020 20:27	4/14/2020 20:27	0:00:00	-46.09	26.28	437.51	-46.09	26.28	437.51	-143.29	0.71
169	4/14/2020 20:28	4/14/2020 20:28	0:00:00	-46.93	28.67	437.92	-46.93	28.67	437.92	-141.72	2.28
170	4/14/2020 20:29	4/14/2020 20:29	0:00:00	-47.97	31.98	438.43	-47.97	31.98	438.43	-143.03	0.97
171	4/14/2020 20:29	4/14/2020 20:30	0:01:20	-48.68	34.55	438.78	-50.24	41.74	439.57	-141.62	2.38
172	4/14/2020 20:31	4/14/2020 20:32	0:01:20	-50.83	45.50	439.88	-51.59	53.27	440.33	-142.29	1.71
173	4/14/2020 20:33	4/14/2020 20:33	0:00:19	-51.74	56.24	440.44	-51.78	58.23	440.49	-142.08	1.92
174	4/14/2020 20:34	4/14/2020 20:35	0:01:10	-51.79	61.21	440.53	-51.48	68.14	440.51	-142.15	1.85
175	4/14/2020 20:36	4/14/2020 20:36	0:00:00	-51.11	72.03	440.41	-51.11	72.03	440.41	-143.04	0.96
176	4/14/2020 20:36	4/14/2020 20:37	0:00:29	-50.74	74.90	440.30	-50.29	77.72	440.15	-142.00	2.00
177	4/14/2020 20:37	4/14/2020 20:39	0:02:10	-49.59	81.38	439.91	-46.48	92.44	438.73	-142.05	1.95

**Table 1 Berthed (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)
178	4/14/2020 20:40	4/14/2020 20:40	0:00:00	-45.30	95.55	438.27	-45.30	95.55	438.27	-142.00	2.00
179	4/14/2020 20:41	4/14/2020 20:41	0:00:19	-44.36	97.79	437.89	-43.70	99.25	437.62	-143.24	0.76
180	4/14/2020 20:42	4/14/2020 20:42	0:00:00	-42.33	102.05	437.06	-42.33	102.05	437.06	-142.24	1.76
181	4/14/2020 20:42	4/14/2020 20:44	0:01:31	-41.25	104.07	436.61	-37.80	109.72	435.17	-140.92	3.08
182	4/14/2020 20:44	4/14/2020 20:45	0:00:39	-36.58	111.48	434.66	-34.91	113.73	433.96	-141.93	2.07
183	4/14/2020 20:45	4/14/2020 20:48	0:02:09	-33.20	115.88	433.25	-27.35	122.30	430.86	-141.60	2.40
184	4/14/2020 20:48	4/14/2020 20:51	0:02:40	-25.49	124.12	430.13	-17.78	130.87	427.31	-141.81	2.19
185	4/14/2020 20:52	4/14/2020 20:52	0:00:20	-14.81	133.22	426.33	-13.81	133.99	426.02	-142.02	1.98
186	4/14/2020 20:53	4/14/2020 20:54	0:01:01	-12.31	135.12	425.56	-9.29	137.36	424.71	-142.05	1.95
187	4/14/2020 20:54	4/14/2020 20:55	0:00:21	-7.27	138.83	424.18	-6.26	139.56	423.93	-141.37	2.63
188	4/14/2020 20:55	4/14/2020 20:56	0:00:21	-4.73	140.64	423.57	-3.72	141.36	423.35	-142.70	1.30
189	4/14/2020 20:56	4/14/2020 20:58	0:01:41	-2.19	142.44	423.03	2.90	146.03	422.14	-141.73	2.27
190	4/14/2020 20:58	4/14/2020 21:02	0:03:39	4.93	147.47	421.86	16.01	155.69	421.07	-141.33	2.67
191	4/14/2020 21:03	4/14/2020 21:04	0:00:39	18.97	158.08	421.07	20.92	159.72	421.11	-140.18	3.82
192	4/14/2020 21:04	4/14/2020 21:04	0:00:11	22.37	160.99	421.16	22.85	161.42	421.18	-142.19	1.81
193	4/14/2020 21:05	4/14/2020 21:07	0:02:30	24.28	162.72	421.25	31.22	169.77	421.82	-141.62	2.38
194	4/14/2020 21:08	4/14/2020 21:08	0:00:29	32.55	171.31	421.96	33.85	172.89	422.11	-142.24	1.76
195	4/14/2020 21:09	4/14/2020 21:09	0:00:20	35.13	174.53	422.27	35.97	175.66	422.37	-140.87	3.13
196	4/14/2020 21:10	4/14/2020 21:10	0:00:20	37.21	177.39	422.53	38.02	178.58	422.64	-143.12	0.88
197	4/14/2020 21:11	4/14/2020 21:12	0:00:50	39.97	-178.32	422.91	41.83	-175.04	423.18	-142.16	1.84
198	4/14/2020 21:12	4/14/2020 21:12	0:00:00	43.23	-172.26	423.39	43.23	-172.26	423.39	-141.85	2.15
199	4/14/2020 21:13	4/14/2020 21:13	0:00:00	44.23	-170.10	423.53	44.23	-170.10	423.53	-143.90	0.10
200	4/14/2020 21:14	4/14/2020 21:15	0:01:00	46.09	-165.53	423.81	47.73	-160.65	424.04	-141.60	2.40
201	4/14/2020 21:15	4/14/2020 21:19	0:03:50	48.46	-158.09	424.14	51.70	-136.41	424.44	-139.93	4.07
202	4/14/2020 21:20	4/14/2020 21:21	0:01:20	51.79	-133.42	424.41	51.60	-125.44	424.26	-139.67	4.33
203	4/14/2020 21:22	4/14/2020 21:27	0:05:10	51.38	-122.48	424.17	44.88	-95.22	422.46	-139.93	4.07
204	4/14/2020 21:27	4/14/2020 21:33	0:05:19	43.91	-93.00	422.24	31.21	-73.59	419.83	-139.78	4.22
205	4/14/2020 21:33	4/14/2020 21:41	0:07:40	29.86	-72.10	419.63	7.45	-53.09	418.97	-140.14	3.86
206	4/14/2020 21:41	4/14/2020 21:44	0:02:41	5.93	-52.00	419.13	-2.22	-46.24	420.42	-140.59	3.41
207	4/14/2020 21:44	4/14/2020 21:44	0:00:00	-3.75	-45.16	420.74	-3.75	-45.16	420.74	-143.40	0.60
208	4/14/2020 21:45	4/14/2020 21:45	0:00:11	-5.78	-43.72	421.22	-6.29	-43.35	421.35	-142.97	1.03
209	4/14/2020 21:46	4/14/2020 21:48	0:02:21	-7.81	-42.26	421.74	-14.84	-37.01	423.88	-140.86	3.14
210	4/14/2020 21:49	4/14/2020 21:49	0:00:00	-17.32	-35.05	424.76	-17.32	-35.05	424.76	-141.16	2.84
211	4/14/2020 21:49	4/14/2020 21:50	0:00:39	-18.79	-33.85	425.30	-20.74	-32.21	426.05	-141.72	2.28
212	4/14/2020 21:51	4/14/2020 21:51	0:00:31	-22.19	-30.95	426.62	-23.63	-29.67	427.21	-141.79	2.21
213	4/14/2020 21:52	4/14/2020 21:52	0:00:11	-25.53	-27.90	428.00	-26.00	-27.45	428.20	-142.26	1.74
214	4/14/2020 21:52	4/14/2020 21:53	0:00:59	-27.39	-26.08	428.81	-30.14	-23.21	430.03	-142.41	1.59
215	4/14/2020 21:54	4/14/2020 21:55	0:01:11	-32.37	-20.69	431.05	-35.38	-16.94	432.46	-141.72	2.28
216	4/14/2020 21:56	4/14/2020 21:57	0:00:50	-37.03	-14.66	433.24	-39.02	-11.66	434.20	-142.54	1.46
217	4/14/2020 21:57	4/14/2020 21:57	0:00:00	-40.18	-9.77	434.75	-40.18	-9.77	434.75	-142.90	1.10
218	4/14/2020 21:58	4/14/2020 21:59	0:00:39	-41.29	-7.82	435.29	-42.72	-5.11	435.98	-140.40	3.60
219	4/14/2020 21:59	4/14/2020 21:59	0:00:00	-43.74	-2.99	436.48	-43.74	-2.99	436.48	-141.96	2.04
220	4/14/2020 22:00	4/14/2020 22:00	0:00:00	-44.71	-0.79	436.95	-44.71	-0.79	436.95	-143.80	0.20
221	4/14/2020 22:00	4/14/2020 22:02	0:01:40	-45.93	2.26	437.55	-48.56	10.48	438.84	-141.45	2.55
222	4/14/2020 22:03	4/14/2020 22:03	0:00:20	-49.41	14.00	439.27	-49.80	15.81	439.46	-143.07	0.93
223	4/14/2020 22:04	4/14/2020 22:07	0:03:00	-50.47	19.50	439.81	-51.79	37.08	440.63	-140.97	3.03
224	4/14/2020 22:07	4/14/2020 22:09	0:02:21	-51.73	40.06	440.65	-50.38	53.62	440.27	-142.21	1.79
225	4/14/2020 22:10	4/14/2020 22:11	0:00:59	-49.87	56.39	440.10	-48.65	61.73	439.65	-143.00	1.00
226	4/14/2020 22:11	4/14/2020 22:11	0:00:00	-47.94	64.30	439.38	-47.94	64.30	439.38	-143.04	0.96
227	4/14/2020 22:12	4/14/2020 22:12	0:00:11	-46.90	67.60	438.98	-46.63	68.41	438.87	-142.92	1.08
228	4/14/2020 22:13	4/14/2020 22:14	0:01:00	-45.46	71.54	438.41	-43.54	75.97	437.63	-142.11	1.89
229	4/14/2020 22:14	4/14/2020 22:15	0:00:30	-42.51	78.08	437.20	-41.44	80.11	436.75	-141.79	2.21
230	4/14/2020 22:15	4/14/2020 22:15	0:00:00	-40.34	82.07	436.29	-40.34	82.07	436.29	-141.98	2.02
231	4/14/2020 22:16	4/14/2020 22:19	0:02:40	-38.80	84.59	435.64	-32.12	93.56	432.82	-140.17	3.83
232	4/14/2020 22:19	4/14/2020 22:20	0:00:40	-30.78	95.07	432.27	-28.97	97.03	431.53	-141.65	2.35
233	4/14/2020 22:21	4/14/2020 22:21	0:00:10	-27.13	98.91	430.78	-26.67	99.37	430.60	-142.46	1.54
234	4/14/2020 22:22	4/14/2020 22:22	0:00:30	-24.32	101.61	429.67	-22.89	102.91	429.13	-141.85	2.15
235	4/14/2020 22:23	4/14/2020 22:23	0:00:20	-21.44	104.18	428.59	-20.48	105.01	428.23	-142.27	1.73
236	4/14/2020 22:23	4/14/2020 22:25	0:01:20	-19.01	106.24	427.71	-15.07	109.40	426.38	-141.45	2.55

**Table 1 Berthed (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)
237	4/14/2020 22:25	4/14/2020 22:26	0:00:41	-13.57	110.55	425.90	-11.57	112.07	425.30	-142.11	1.89
238	4/14/2020 22:26	4/14/2020 22:27	0:00:29	-10.06	113.18	424.86	-8.55	114.29	424.45	-140.89	3.11
239	4/14/2020 22:28	4/14/2020 22:31	0:03:20	-6.02	116.11	423.81	4.16	123.31	421.87	-141.44	2.56
240	4/14/2020 22:32	4/14/2020 22:32	0:00:30	5.68	124.39	421.67	7.21	125.48	421.50	-140.92	3.08
241	4/14/2020 22:33	4/14/2020 22:35	0:02:11	8.72	126.58	421.35	15.25	131.48	420.97	-141.36	2.64
242	4/14/2020 22:35	4/14/2020 22:36	0:00:59	16.74	132.66	420.95	19.69	135.07	420.95	-141.83	2.17
243	4/14/2020 22:37	4/14/2020 22:37	0:00:41	21.15	136.31	420.98	23.08	138.01	421.05	-142.14	1.86
244	4/14/2020 22:38	4/14/2020 22:43	0:04:51	24.98	139.76	421.15	37.81	154.65	422.45	-140.65	3.35
245	4/14/2020 22:43	4/14/2020 22:45	0:01:40	39.00	156.48	422.61	42.71	163.05	423.14	-141.36	2.64
246	4/14/2020 22:46	4/14/2020 22:46	0:00:20	44.39	166.64	423.38	45.02	168.14	423.47	-142.67	1.33
247	4/14/2020 22:47	4/14/2020 22:49	0:02:10	45.94	170.45	423.60	49.22	-178.65	424.06	-142.28	1.72
248	4/14/2020 22:49	4/14/2020 22:51	0:01:20	49.81	-175.93	424.13	51.02	-168.40	424.25	-141.40	2.60
249	4/14/2020 22:51	4/14/2020 22:52	0:00:41	51.34	-165.48	424.27	51.63	-161.54	424.27	-141.08	2.92
250	4/14/2020 22:52	4/14/2020 23:03	0:10:40	51.75	-158.55	424.25	37.42	-105.13	420.77	-140.66	3.34
251	4/14/2020 23:04	4/14/2020 23:05	0:01:51	36.19	-103.39	420.55	31.44	-97.46	419.77	-139.92	4.08
252	4/14/2020 23:06	4/14/2020 23:09	0:02:50	30.10	-95.96	419.58	22.13	-88.21	418.77	-139.68	4.32
253	4/14/2020 23:09	4/14/2020 23:14	0:04:40	20.19	-86.53	418.66	6.19	-75.80	419.08	-139.65	4.35
254	4/14/2020 23:15	4/14/2020 23:15	0:00:50	4.67	-74.71	419.27	2.12	-72.91	419.63	-140.42	3.58
255	4/14/2020 23:16	4/14/2020 23:16	0:00:00	0.59	-71.83	419.88	0.59	-71.83	419.88	-142.44	1.56
256	4/14/2020 23:16	4/14/2020 23:17	0:00:30	-0.94	-70.76	420.16	-2.47	-69.68	420.47	-139.63	4.37
257	4/14/2020 23:18	4/14/2020 23:22	0:04:10	-4.50	-68.24	420.92	-17.07	-58.87	424.69	-141.57	2.43
258	4/14/2020 23:22	4/14/2020 23:31	0:08:50	-18.54	-57.67	425.23	-41.83	-30.44	435.59	-139.98	4.02
259	4/14/2020 23:32	4/14/2020 23:32	0:00:00	-42.89	-28.38	436.10	-42.89	-28.38	436.10	-143.12	0.88
260	4/14/2020 23:32	4/14/2020 23:33	0:00:50	-43.90	-26.25	436.60	-45.48	-22.53	437.37	-142.37	1.63
261	4/14/2020 23:34	4/14/2020 23:36	0:02:01	-46.65	-19.39	437.94	-49.51	-9.18	439.36	-142.03	1.97
262	4/14/2020 23:36	4/14/2020 23:36	0:00:00	-50.06	-6.45	439.64	-50.06	-6.45	439.64	-141.71	2.29
263	4/14/2020 23:37	4/14/2020 23:38	0:01:20	-50.54	-3.65	439.89	-51.45	4.04	440.39	-142.06	1.94
264	4/14/2020 23:38	4/14/2020 23:39	0:00:31	-51.65	6.99	440.52	-51.76	9.97	440.61	-142.55	1.45
265	4/14/2020 23:39	4/14/2020 23:41	0:01:10	-51.80	12.95	440.67	-51.56	19.89	440.67	-140.20	3.80
266	4/14/2020 23:41	4/14/2020 23:42	0:01:01	-51.22	23.80	440.58	-50.46	29.52	440.34	-142.10	1.90
267	4/14/2020 23:43	4/14/2020 23:44	0:00:59	-49.96	32.30	440.17	-48.77	37.67	439.74	-142.28	1.72
268	4/14/2020 23:44	4/14/2020 23:46	0:01:20	-48.07	40.25	439.47	-45.91	46.75	438.63	-141.83	2.17
269	4/14/2020 23:46	4/14/2020 23:47	0:01:10	-44.69	49.80	438.13	-42.35	54.80	437.17	-141.95	2.05
270	4/14/2020 23:48	4/14/2020 23:49	0:01:01	-40.90	57.48	436.56	-38.61	61.27	435.60	-142.06	1.94
271	4/14/2020 23:50	4/14/2020 23:50	0:00:11	-37.01	63.65	434.92	-36.60	64.23	434.75	-143.51	0.49
272	4/14/2020 23:51	4/14/2020 23:51	0:00:00	-34.93	66.48	434.04	-34.93	66.48	434.04	-143.13	0.87
273	4/14/2020 23:51	4/14/2020 23:52	0:00:50	-33.22	68.64	433.32	-31.01	71.20	432.40	-142.23	1.77
274	4/14/2020 23:53	4/14/2020 23:53	0:00:11	-29.21	73.17	431.65	-28.75	73.65	431.46	-142.79	1.21
275	4/14/2020 23:54	4/14/2020 23:56	0:02:10	-26.91	75.52	430.72	-20.73	81.19	428.34	-141.54	2.46
276	4/14/2020 23:56	4/14/2020 23:58	0:02:00	-19.27	82.42	427.81	-13.33	87.13	425.83	-141.68	2.32
277	4/14/2020 23:59	4/15/2020 0:05	0:05:50	-11.33	88.63	425.23	6.44	101.32	421.58	-140.82	3.18
278	4/15/2020 0:05	4/15/2020 0:05	0:00:00	7.96	102.41	421.42	7.96	102.41	421.42	-143.40	0.60
279	4/15/2020 0:06	4/15/2020 0:06	0:00:00	9.47	103.52	421.28	9.47	103.52	421.28	-143.73	0.27
280	4/15/2020 0:07	4/15/2020 0:07	0:00:00	11.99	105.38	421.10	11.99	105.38	421.10	-143.20	0.80
281	4/15/2020 0:07	4/15/2020 0:07	0:00:20	13.49	106.52	421.03	14.49	107.28	420.99	-139.72	4.28
282	4/15/2020 0:09	4/15/2020 0:11	0:02:49	17.96	110.03	420.94	26.15	117.26	421.24	-141.92	2.08
283	4/15/2020 0:12	4/15/2020 0:12	0:00:09	28.01	119.11	421.38	28.48	119.59	421.42	-142.69	1.31
284	4/15/2020 0:14	4/15/2020 0:14	0:00:50	32.09	123.55	421.77	34.26	126.19	422.02	-142.06	1.94
285	4/15/2020 0:15	4/15/2020 0:17	0:01:29	35.96	128.41	422.23	39.57	133.79	422.71	-141.85	2.15
286	4/15/2020 0:17	4/15/2020 0:19	0:01:29	40.71	135.72	422.87	43.89	141.92	423.34	-140.78	3.22
287	4/15/2020 0:19	4/15/2020 0:19	0:00:00	44.86	144.14	423.48	44.86	144.14	423.48	-143.33	0.67
288	4/15/2020 0:20	4/15/2020 0:21	0:01:31	45.78	146.43	423.61	48.21	153.79	423.96	-141.74	2.26
289	4/15/2020 0:22	4/15/2020 0:26	0:03:31	49.52	159.07	424.13	51.79	179.32	424.27	-139.78	4.22
290	4/15/2020 0:26	4/15/2020 0:27	0:00:59	51.79	-177.68	424.23	51.54	-171.71	424.10	-140.00	4.00
291	4/15/2020 0:28	4/15/2020 0:28	0:00:00	51.30	-168.76	424.00	51.30	-168.76	424.00	-142.62	1.38
292	4/15/2020 0:28	4/15/2020 0:31	0:02:50	50.97	-165.85	423.90	47.74	-150.44	423.04	-140.00	4.00
293	4/15/2020 0:31	4/15/2020 0:32	0:00:30	46.95	-147.96	422.84	46.10	-145.56	422.64	-141.57	2.43
294	4/15/2020 0:33	4/15/2020 0:33	0:00:31	44.57	-141.73	422.29	43.58	-139.53	422.07	-141.70	2.30
295	4/15/2020 0:34	4/15/2020 0:36	0:01:49	42.55	-137.41	421.85	38.43	-130.26	421.00	-140.09	3.91

Table 1 Berthed (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)
296	4/15/2020 0:36	4/15/2020 0:45	0:09:11	37.22	-128.46	420.77	11.51	-103.29	418.70	-139.75	4.25
297	4/15/2020 0:46	4/15/2020 0:48	0:02:40	10.00	-102.17	418.79	1.87	-96.35	419.70	-140.81	3.19
298	4/15/2020 0:49	4/15/2020 0:49	0:00:31	0.35	-95.27	419.96	-1.18	-94.20	420.25	-141.55	2.45
299	4/15/2020 0:50	4/15/2020 0:55	0:04:49	-2.71	-93.12	420.56	-17.30	-82.29	424.81	-139.87	4.13
300	4/15/2020 0:56	4/15/2020 0:57	0:01:11	-19.75	-80.28	425.73	-23.14	-77.34	427.07	-142.95	1.05
301	4/15/2020 0:57	4/15/2020 0:58	0:00:50	-24.57	-76.03	427.67	-26.91	-73.78	428.67	-142.32	1.68
302	4/15/2020 0:59	4/15/2020 1:02	0:03:50	-28.30	-72.38	429.28	-38.22	-60.13	433.88	-141.02	2.98
303	4/15/2020 1:03	4/15/2020 1:03	0:00:10	-39.40	-58.28	434.44	-39.78	-57.66	434.63	-142.75	1.25
304	4/15/2020 1:04	4/15/2020 1:05	0:01:01	-41.28	-55.07	435.35	-43.39	-50.95	436.38	-142.19	1.81
305	4/15/2020 1:05	4/15/2020 1:06	0:00:20	-44.38	-48.78	436.86	-45.01	-47.29	437.17	-142.00	2.00
306	4/15/2020 1:06	4/15/2020 1:10	0:04:10	-46.21	-44.21	437.75	-51.22	-22.03	440.27	-140.73	3.27
307	4/15/2020 1:11	4/15/2020 1:13	0:01:31	-51.62	-17.13	440.51	-51.76	-8.20	440.70	-141.86	2.14
308	4/15/2020 1:13	4/15/2020 1:17	0:03:20	-51.64	-5.22	440.69	-48.88	13.60	439.78	-141.77	2.23
309	4/15/2020 1:17	4/15/2020 1:17	0:00:00	-48.19	16.19	439.52	-48.19	16.19	439.52	-141.99	2.01
310	4/15/2020 1:18	4/15/2020 1:18	0:00:00	-47.44	18.71	439.23	-47.44	18.71	439.23	-143.75	0.25
311	4/15/2020 1:19	4/15/2020 1:22	0:03:01	-45.77	23.51	438.57	-39.59	36.10	436.01	-141.61	2.39
312	4/15/2020 1:22	4/15/2020 1:29	0:07:01	-38.02	38.55	435.35	-19.03	59.00	427.74	-141.51	2.49
313	4/15/2020 1:30	4/15/2020 1:32	0:01:49	-17.56	60.20	427.22	-12.09	64.45	425.46	-141.41	2.59
314	4/15/2020 1:32	4/15/2020 1:36	0:03:41	-10.58	65.57	425.01	0.58	73.55	422.43	-141.35	2.65
315	4/15/2020 1:36	4/15/2020 1:37	0:00:51	2.10	74.63	422.17	4.65	76.43	421.80	-141.34	2.66
316	4/15/2020 1:38	4/15/2020 1:38	0:00:21	6.17	77.52	421.61	7.19	78.24	421.50	-141.98	2.02
317	4/15/2020 1:39	4/15/2020 1:39	0:00:20	9.72	80.08	421.27	10.72	80.82	421.19	-141.37	2.63
318	4/15/2020 1:40	4/15/2020 1:41	0:01:31	12.73	82.33	421.08	17.21	85.81	420.96	-139.97	4.03
319	4/15/2020 1:42	4/15/2020 1:42	0:00:09	19.67	87.83	420.97	20.16	88.24	420.98	-141.30	2.70
320	4/15/2020 1:43	4/15/2020 1:43	0:00:11	21.61	89.49	421.02	22.10	89.91	421.04	-141.83	2.17
321	4/15/2020 1:44	4/15/2020 1:44	0:00:00	24.01	91.64	421.13	24.01	91.64	421.13	-142.36	1.64
322	4/15/2020 1:44	4/15/2020 1:44	0:00:00	25.44	92.96	421.22	25.44	92.96	421.22	-142.31	1.69
323	4/15/2020 1:45	4/15/2020 1:46	0:01:11	27.31	94.79	421.36	30.51	98.15	421.65	-141.27	2.73
324	4/15/2020 1:46	4/15/2020 1:49	0:02:50	31.85	99.67	421.79	38.98	109.23	422.69	-139.83	4.17
325	4/15/2020 1:50	4/15/2020 1:52	0:02:01	40.52	111.77	422.91	44.70	120.13	423.54	-141.21	2.79
326	4/15/2020 1:53	4/15/2020 1:56	0:03:09	46.22	123.98	423.76	50.48	140.52	424.35	-141.01	2.99
327	4/15/2020 1:56	4/15/2020 2:01	0:05:00	50.89	143.37	424.39	50.64	172.91	423.93	-140.26	3.74
328	4/15/2020 2:02	4/15/2020 2:05	0:03:00	50.01	176.65	423.75	45.66	-168.02	422.68	-141.86	2.14
329	4/15/2020 2:06	4/15/2020 2:06	0:00:00	44.42	-164.99	422.39	44.42	-164.99	422.39	-141.95	2.05
330	4/15/2020 2:06	4/15/2020 2:18	0:11:30	43.08	-162.09	422.10	12.28	-127.48	418.77	-140.54	3.46
331	4/15/2020 2:18	4/15/2020 2:20	0:01:31	10.77	-126.35	418.84	6.21	-123.04	419.21	-140.81	3.19
332	4/15/2020 2:20	4/15/2020 2:23	0:02:10	4.69	-121.95	419.39	-1.93	-117.28	420.47	-140.37	3.63
333	4/15/2020 2:23	4/15/2020 2:24	0:00:39	-3.97	-115.84	420.91	-6.00	-114.40	421.39	-139.78	4.22
334	4/15/2020 2:24	4/15/2020 2:25	0:00:31	-7.52	-113.30	421.78	-9.04	-112.20	422.20	-141.93	2.07
335	4/15/2020 2:25	4/15/2020 2:27	0:01:29	-10.55	-111.09	422.63	-15.06	-107.68	424.07	-141.92	2.08
336	4/15/2020 2:27	4/15/2020 2:28	0:00:39	-16.55	-106.51	424.59	-18.52	-104.92	425.31	-141.57	2.43
337	4/15/2020 2:29	4/15/2020 2:29	0:00:31	-19.98	-103.70	425.86	-21.44	-102.45	426.43	-142.66	1.34
338	4/15/2020 2:30	4/15/2020 2:34	0:04:09	-22.88	-101.18	427.01	-34.29	-89.18	432.03	-139.93	4.07
339	4/15/2020 2:34	4/15/2020 2:34	0:00:09	-35.56	-87.53	432.63	-35.97	-86.97	432.82	-142.62	1.38
340	4/15/2020 2:35	4/15/2020 2:36	0:00:30	-37.61	-84.65	433.60	-38.80	-82.84	434.17	-142.88	1.12
341	4/15/2020 2:36	4/15/2020 2:38	0:01:51	-40.34	-80.33	434.90	-44.21	-72.78	436.77	-140.06	3.94
342	4/15/2020 2:39	4/15/2020 2:40	0:01:20	-45.16	-70.55	437.23	-47.44	-64.22	438.34	-142.21	1.79
343	4/15/2020 2:40	4/15/2020 2:41	0:00:21	-48.19	-61.70	438.71	-48.65	-59.98	438.94	-143.41	0.59
344	4/15/2020 2:41	4/15/2020 2:43	0:01:20	-49.30	-57.34	439.26	-50.68	-49.98	439.95	-141.66	2.34
345	4/15/2020 2:43	4/15/2020 2:47	0:04:21	-51.06	-47.12	440.16	-51.00	-21.55	440.48	-140.35	3.65
346	4/15/2020 2:48	4/15/2020 2:49	0:00:30	-50.46	-17.75	440.31	-49.97	-14.97	440.14	-141.94	2.06
347	4/15/2020 2:49	4/15/2020 2:50	0:00:50	-48.99	-10.47	439.78	-47.83	-6.17	439.34	-142.97	1.03
348	4/15/2020 2:51	4/15/2020 2:51	0:00:00	-47.05	-3.70	439.03	-47.05	-3.70	439.03	-143.03	0.97
349	4/15/2020 2:51	4/15/2020 2:52	0:01:09	-46.22	-1.29	438.70	-44.06	4.01	437.82	-141.71	2.29
350	4/15/2020 2:53	4/15/2020 2:57	0:03:50	-43.05	6.15	437.41	-34.10	20.32	433.63	-141.63	2.37
351	4/15/2020 2:58	4/15/2020 2:59	0:01:00	-31.92	22.94	432.72	-29.23	25.92	431.61	-142.05	1.95
352	4/15/2020 2:59	4/15/2020 3:00	0:00:41	-27.86	27.34	431.05	-26.00	29.18	430.30	-142.00	2.00
353	4/15/2020 3:00	4/15/2020 3:02	0:01:19	-24.58	30.52	429.75	-20.75	33.94	428.30	-142.15	1.85
354	4/15/2020 3:02	4/15/2020 3:02	0:00:21	-19.29	35.17	427.77	-18.31	35.98	427.43	-141.50	2.50

Table 1 Berthed (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)
355	4/15/2020 3:03	4/15/2020 3:06	0:03:11	-16.83	37.17	426.92	-7.32	44.34	424.09	-142.02	1.98
356	4/15/2020 3:07	4/15/2020 3:08	0:00:40	-4.27	46.52	423.36	-2.24	47.96	422.92	-140.89	3.11
357	4/15/2020 3:08	4/15/2020 3:14	0:05:30	-0.20	49.39	422.53	16.46	61.60	420.94	-139.73	4.27
358	4/15/2020 3:15	4/15/2020 3:16	0:00:39	19.90	64.41	420.96	21.84	66.08	421.01	-143.02	0.98
359	4/15/2020 3:16	4/15/2020 3:17	0:00:30	23.29	67.36	421.08	24.71	68.67	421.15	-141.67	2.33
360	4/15/2020 3:17	4/15/2020 3:22	0:04:30	26.13	70.02	421.25	37.98	84.08	422.54	-141.32	2.68
361	4/15/2020 3:22	4/15/2020 3:23	0:01:09	39.17	85.91	422.71	41.80	90.45	423.09	-141.53	2.47
362	4/15/2020 3:24	4/15/2020 3:24	0:00:30	42.86	92.52	423.25	43.87	94.66	423.41	-142.61	1.39
363	4/15/2020 3:25	4/15/2020 3:27	0:01:49	44.85	96.88	423.55	47.96	105.67	424.02	-141.40	2.60
364	4/15/2020 3:27	4/15/2020 3:28	0:00:50	48.89	109.13	424.15	49.89	113.63	424.28	-141.20	2.80
365	4/15/2020 3:29	4/15/2020 3:34	0:05:21	50.40	116.41	424.35	50.85	147.84	424.02	-141.35	2.65
366	4/15/2020 3:35	4/15/2020 3:37	0:02:01	50.27	151.62	423.85	47.75	162.29	423.21	-139.90	4.10
367	4/15/2020 3:37	4/15/2020 3:38	0:01:11	46.96	164.77	423.02	44.90	170.26	422.54	-141.52	2.48
368	4/15/2020 3:39	4/15/2020 3:41	0:01:40	43.94	172.48	422.32	40.39	179.35	421.57	-139.72	4.28
369	4/15/2020 3:41	4/15/2020 3:44	0:02:51	39.24	-178.75	421.34	32.14	-169.11	420.09	-139.76	4.24
370	4/15/2020 3:44	4/15/2020 3:55	0:10:49	30.80	-167.58	419.89	-1.15	-141.44	420.35	-139.59	4.41
371	4/15/2020 3:56	4/15/2020 3:56	0:00:20	-3.19	-140.01	420.76	-4.21	-139.28	420.99	-141.67	2.33
372	4/15/2020 3:57	4/15/2020 4:03	0:05:59	-5.73	-138.20	421.34	-23.59	-124.16	427.28	-140.82	3.18
373	4/15/2020 4:04	4/15/2020 4:04	0:00:41	-25.95	-121.95	428.27	-27.81	-120.11	429.07	-140.76	3.24
374	4/15/2020 4:05	4/15/2020 4:06	0:00:59	-29.19	-118.68	429.67	-31.88	-115.71	430.88	-142.20	1.80
375	4/15/2020 4:06	4/15/2020 4:08	0:02:10	-33.20	-114.15	431.48	-38.60	-106.78	434.01	-141.82	2.18
376	4/15/2020 4:09	4/15/2020 4:09	0:00:11	-40.52	-103.64	434.93	-40.89	-102.99	435.11	-143.15	0.85
377	4/15/2020 4:10	4/15/2020 4:10	0:00:00	-41.98	-100.99	435.63	-41.98	-100.99	435.63	-141.83	2.17
378	4/15/2020 4:10	4/15/2020 4:13	0:02:51	-43.03	-98.92	436.14	-48.06	-85.76	438.56	-141.20	2.80
379	4/15/2020 4:14	4/15/2020 4:14	0:00:30	-48.76	-83.18	438.91	-49.40	-80.53	439.22	-143.36	0.64
380	4/15/2020 4:15	4/15/2020 4:15	0:00:20	-49.96	-77.81	439.50	-50.30	-75.96	439.67	-143.30	0.70
381	4/15/2020 4:16	4/15/2020 4:17	0:01:01	-50.74	-73.15	439.90	-51.40	-67.36	440.25	-142.03	1.97
382	4/15/2020 4:17	4/15/2020 4:17	0:00:20	-51.62	-64.41	440.38	-51.71	-62.43	440.45	-140.24	3.76
383	4/15/2020 4:18	4/15/2020 4:18	0:00:09	-51.79	-59.45	440.52	-51.80	-58.46	440.54	-142.77	1.23
384	4/15/2020 4:19	4/15/2020 4:19	0:00:00	-51.76	-55.48	440.56	-51.76	-55.48	440.56	-143.32	0.68
385	4/15/2020 4:19	4/15/2020 4:20	0:00:39	-51.65	-52.50	440.55	-51.37	-48.57	440.49	-141.91	2.09
386	4/15/2020 4:21	4/15/2020 4:21	0:00:50	-50.82	-43.75	440.32	-50.06	-39.06	440.06	-142.76	1.24
387	4/15/2020 4:22	4/15/2020 4:22	0:00:20	-49.51	-36.33	439.86	-49.11	-34.55	439.71	-142.75	1.25
388	4/15/2020 4:23	4/15/2020 4:23	0:00:00	-48.44	-31.93	439.46	-48.44	-31.93	439.46	-143.44	0.56
389	4/15/2020 4:23	4/15/2020 4:25	0:01:51	-47.71	-29.39	439.18	-44.55	-20.72	437.91	-141.86	2.14
390	4/15/2020 4:26	4/15/2020 4:29	0:03:20	-43.57	-18.54	437.51	-36.01	-5.79	434.33	-141.62	2.38
391	4/15/2020 4:29	4/15/2020 4:30	0:00:29	-34.75	-4.12	433.80	-33.46	-2.51	433.26	-142.42	1.58
392	4/15/2020 4:30	4/15/2020 4:31	0:00:41	-32.15	-0.94	432.71	-30.37	1.07	431.97	-141.79	2.21
393	4/15/2020 4:32	4/15/2020 4:33	0:00:50	-28.56	3.01	431.23	-26.24	5.33	430.30	-141.66	2.34
394	4/15/2020 4:33	4/15/2020 4:34	0:00:39	-24.36	7.12	429.57	-22.45	8.85	428.84	-142.22	1.78
395	4/15/2020 4:34	4/15/2020 4:37	0:02:49	-21.00	10.11	428.31	-12.62	16.83	425.49	-141.44	2.56
396	4/15/2020 4:38	4/15/2020 4:40	0:01:50	-11.11	17.96	425.05	-5.55	21.99	423.60	-141.41	2.59
397	4/15/2020 4:40	4/15/2020 4:41	0:00:20	-3.52	23.44	423.14	-2.50	24.16	422.92	-142.59	1.41
398	4/15/2020 4:41	4/15/2020 4:41	0:00:00	-0.98	25.23	422.62	-0.98	25.23	422.62	-141.72	2.28
399	4/15/2020 4:42	4/15/2020 4:42	0:00:10	0.55	26.31	422.35	1.06	26.67	422.26	-141.69	2.31
400	4/15/2020 4:42	4/15/2020 4:45	0:02:30	2.59	27.74	422.02	10.20	33.21	421.17	-140.39	3.61
401	4/15/2020 4:45	4/15/2020 4:46	0:00:21	11.71	34.33	421.08	12.71	35.08	421.02	-139.82	4.18
402	4/15/2020 4:46	4/15/2020 4:48	0:01:29	14.71	36.61	420.95	19.16	40.17	420.93	-140.89	3.11
403	4/15/2020 4:48	4/15/2020 4:50	0:02:10	20.62	41.41	420.96	26.82	47.08	421.30	-142.06	1.94
404	4/15/2020 4:51	4/15/2020 4:52	0:01:29	28.21	48.48	421.41	32.28	52.93	421.82	-141.40	2.60
405	4/15/2020 4:53	4/15/2020 4:53	0:00:30	33.59	54.51	421.97	34.88	56.13	422.13	-142.07	1.93
406	4/15/2020 4:54	4/15/2020 4:56	0:01:40	36.14	57.82	422.29	40.12	63.86	422.85	-139.84	4.16
407	4/15/2020 4:56	4/15/2020 4:57	0:00:41	41.61	66.49	423.07	43.02	69.24	423.28	-141.84	2.16
408	4/15/2020 4:58	4/15/2020 4:58	0:00:41	44.36	72.13	423.48	45.61	75.15	423.67	-141.45	2.55
409	4/15/2020 4:59	4/15/2020 5:03	0:04:00	46.49	77.51	423.80	51.23	99.00	424.42	-139.95	4.05
410	4/15/2020 5:03	4/15/2020 5:11	0:07:59	51.49	101.95	424.44	45.07	146.26	422.58	-139.84	4.16
411	4/15/2020 5:12	4/15/2020 5:15	0:03:39	44.11	148.49	422.36	35.81	162.68	420.69	-140.04	3.96
412	4/15/2020 5:16	4/15/2020 5:18	0:02:00	34.54	164.35	420.47	29.23	170.52	419.67	-139.93	4.07
413	4/15/2020 5:18	4/15/2020 5:21	0:03:00	27.85	171.95	419.50	19.25	179.80	418.81	-139.56	4.44



**Table 1 Berthed (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)
414	4/15/2020 5:22	4/15/2020 5:26	0:03:59	17.29	-178.59	418.76	5.22	-169.56	419.35	-140.44	3.56
415	4/15/2020 5:27	4/15/2020 5:29	0:01:59	3.70	-168.47	419.54	-2.42	-164.16	420.59	-139.59	4.41
416	4/15/2020 5:29	4/15/2020 5:31	0:01:30	-3.94	-163.09	420.92	-8.51	-159.81	422.05	-141.28	2.72
417	4/15/2020 5:31	4/15/2020 5:31	0:00:21	-10.03	-158.71	422.48	-11.03	-157.96	422.78	-143.02	0.98
418	4/15/2020 5:32	4/15/2020 5:34	0:01:39	-13.04	-156.46	423.40	-18.00	-152.56	425.10	-141.93	2.07
419	4/15/2020 5:34	4/15/2020 5:35	0:00:19	-19.47	-151.35	425.65	-20.45	-150.53	426.02	-142.66	1.34
420	4/15/2020 5:35	4/15/2020 5:36	0:00:40	-22.38	-148.85	426.78	-24.29	-147.13	427.56	-142.21	1.79
421	4/15/2020 5:36	4/15/2020 5:37	0:00:09	-25.71	-145.79	428.15	-26.18	-145.34	428.35	-141.56	2.44
422	4/15/2020 5:37	4/15/2020 5:38	0:00:50	-27.57	-143.96	428.95	-29.86	-141.58	429.96	-141.12	2.88
423	4/15/2020 5:39	4/15/2020 5:39	0:00:00	-32.10	-139.07	430.97	-32.10	-139.07	430.97	-142.94	1.06
424	4/15/2020 5:39	4/15/2020 5:43	0:03:40	-33.41	-137.51	431.57	-42.15	-124.28	435.70	-141.65	2.35
425	4/15/2020 5:43	4/15/2020 5:45	0:01:11	-43.19	-122.20	436.21	-45.45	-117.05	437.29	-141.12	2.88
426	4/15/2020 5:45	4/15/2020 5:45	0:00:21	-46.34	-114.72	437.72	-46.89	-113.12	437.99	-140.14	3.86
427	4/15/2020 5:46	4/15/2020 5:46	0:00:30	-47.69	-110.65	438.37	-48.42	-108.11	438.73	-142.52	1.48
428	4/15/2020 5:47	4/15/2020 5:49	0:01:51	-49.08	-105.50	439.06	-50.94	-95.35	439.99	-142.01	1.99
429	4/15/2020 5:49	4/15/2020 5:50	0:00:50	-51.27	-92.46	440.17	-51.64	-87.55	440.39	-141.71	2.29
430	4/15/2020 5:51	4/15/2020 5:52	0:01:31	-51.76	-84.58	440.48	-51.62	-75.64	440.54	-141.70	2.30
431	4/15/2020 5:53	4/15/2020 5:55	0:02:30	-51.41	-72.69	440.49	-49.22	-58.62	439.74	-142.06	1.94
432	4/15/2020 5:56	4/15/2020 5:57	0:01:01	-48.33	-55.13	439.41	-46.80	-50.15	438.81	-142.76	1.24
433	4/15/2020 5:57	4/15/2020 5:58	0:00:39	-45.94	-47.77	438.47	-44.72	-44.72	437.97	-142.37	1.63
434	4/15/2020 5:58	4/15/2020 5:59	0:00:50	-43.75	-42.53	437.57	-42.02	-39.03	436.86	-141.82	2.18
435	4/15/2020 6:00	4/15/2020 6:01	0:00:40	-40.19	-35.74	436.09	-38.65	-33.24	435.44	-141.65	2.35
436	4/15/2020 6:01	4/15/2020 6:02	0:00:50	-37.45	-31.44	434.93	-35.39	-28.58	434.06	-142.33	1.67
437	4/15/2020 6:03	4/15/2020 6:03	0:00:00	-34.12	-26.93	433.52	-34.12	-26.93	433.52	-143.90	0.10
438	4/15/2020 6:03	4/15/2020 6:04	0:01:20	-32.82	-25.34	432.98	-29.25	-21.33	431.50	-141.50	2.50
439	4/15/2020 6:05	4/15/2020 6:05	0:00:29	-27.88	-19.90	430.95	-26.49	-18.52	430.39	-142.09	1.91
440	4/15/2020 6:06	4/15/2020 6:12	0:06:11	-25.08	-17.17	429.84	-6.83	-2.53	423.90	-140.00	4.00
441	4/15/2020 6:13	4/15/2020 6:13	0:00:00	-4.80	-1.08	423.42	-4.80	-1.08	423.42	-143.49	0.51
442	4/15/2020 6:14	4/15/2020 6:15	0:01:31	-2.26	0.72	422.87	2.32	3.94	422.06	-141.65	2.35
443	4/15/2020 6:16	4/15/2020 6:16	0:00:29	3.85	5.02	421.83	5.38	6.11	421.63	-141.91	2.09
444	4/15/2020 6:17	4/15/2020 6:18	0:01:21	6.90	7.20	421.46	10.94	10.15	421.12	-142.69	1.31
445	4/15/2020 6:18	4/15/2020 6:20	0:01:40	12.45	11.27	421.03	17.43	15.15	420.91	-142.18	1.82
446	4/15/2020 6:21	4/15/2020 6:21	0:00:20	18.90	16.35	420.92	19.88	17.17	420.93	-141.47	2.53
447	4/15/2020 6:22	4/15/2020 6:23	0:01:40	21.82	18.83	420.99	26.58	23.23	421.27	-140.31	3.69
448	4/15/2020 6:24	4/15/2020 6:25	0:00:50	28.43	25.09	421.42	30.71	27.53	421.64	-141.84	2.16
449	4/15/2020 6:25	4/15/2020 6:26	0:00:39	32.05	29.05	421.79	33.80	31.15	421.99	-139.97	4.03
450	4/15/2020 6:26	4/15/2020 6:27	0:00:40	35.08	32.79	422.15	36.75	35.06	422.37	-142.22	1.78
451	4/15/2020 6:28	4/15/2020 6:28	0:00:00	38.37	37.43	422.59	38.37	37.43	422.59	-141.68	2.32
452	4/15/2020 6:28	4/15/2020 6:31	0:02:30	39.54	39.29	422.75	44.83	49.62	423.54	-141.29	2.71
453	4/15/2020 6:31	4/15/2020 6:32	0:00:50	45.76	51.91	423.68	47.17	55.91	423.89	-139.98	4.02
454	4/15/2020 6:33	4/15/2020 6:35	0:02:51	47.95	58.41	424.00	51.07	73.91	424.39	-140.13	3.87
455	4/15/2020 6:36	4/15/2020 6:37	0:00:30	51.53	78.81	424.41	51.70	81.78	424.41	-141.53	2.47
456	4/15/2020 6:37	4/15/2020 6:37	0:00:00	51.79	84.78	424.39	51.79	84.78	424.39	-143.45	0.55
457	4/15/2020 6:38	4/15/2020 6:38	0:00:21	51.79	87.78	424.35	51.75	89.77	424.31	-139.81	4.19
458	4/15/2020 6:39	4/15/2020 6:39	0:00:21	51.61	92.76	424.25	51.48	94.74	424.19	-141.40	2.60
459	4/15/2020 6:40	4/15/2020 6:56	0:16:10	51.10	98.65	424.07	15.06	159.55	418.72	-139.76	4.24
460	4/15/2020 6:56	4/15/2020 7:00	0:03:39	13.57	160.71	418.74	2.43	168.81	419.70	-141.58	2.42
461	4/15/2020 7:00	4/15/2020 7:02	0:01:50	0.90	169.88	419.94	-4.70	173.84	421.06	-140.76	3.24
462	4/15/2020 7:03	4/15/2020 7:07	0:04:00	-6.73	175.29	421.55	-18.73	-175.58	425.34	-140.72	3.28
463	4/15/2020 7:07	4/15/2020 7:08	0:00:50	-20.20	-174.36	425.89	-22.61	-172.26	426.84	-142.67	1.33
464	4/15/2020 7:09	4/15/2020 7:09	0:00:20	-24.05	-170.97	427.43	-24.99	-170.08	427.82	-142.38	1.62
465	4/15/2020 7:10	4/15/2020 7:10	0:00:30	-26.40	-168.74	428.42	-27.80	-167.35	429.02	-142.72	1.28
466	4/15/2020 7:11	4/15/2020 7:13	0:02:09	-29.63	-165.44	429.83	-35.32	-158.69	432.43	-141.57	2.43
467	4/15/2020 7:13	4/15/2020 7:13	0:00:00	-36.57	-156.99	433.01	-36.57	-156.99	433.01	-142.82	1.18
468	4/15/2020 7:15	4/15/2020 7:15	0:00:00	-40.13	-151.54	434.70	-40.13	-151.54	434.70	-143.00	1.00
469	4/15/2020 7:16	4/15/2020 7:18	0:01:39	-42.67	-146.88	435.92	-45.90	-139.52	437.47	-140.68	3.32
470	4/15/2020 7:18	4/15/2020 7:20	0:01:10	-47.03	-136.34	438.02	-48.75	-130.44	438.86	-142.52	1.48
471	4/15/2020 7:20	4/15/2020 7:20	0:00:00	-49.39	-127.79	439.17	-49.39	-127.79	439.17	-142.33	1.67
472	4/15/2020 7:21	4/15/2020 7:21	0:00:00	-49.96	-125.07	439.46	-49.96	-125.07	439.46	-142.93	1.07

**Table 1 Berthed (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)
473	4/15/2020 7:21	4/15/2020 7:21	0:00:00	-50.60	-121.35	439.78	-50.60	-121.35	439.78	-143.62	0.38
474	4/15/2020 7:22	4/15/2020 7:22	0:00:29	-51.00	-118.50	439.99	-51.31	-115.60	440.16	-142.70	1.30
475	4/15/2020 7:23	4/15/2020 7:23	0:00:30	-51.62	-111.68	440.34	-51.75	-108.71	440.44	-141.29	2.71
476	4/15/2020 7:24	4/15/2020 7:25	0:00:50	-51.80	-105.72	440.50	-51.70	-100.76	440.52	-142.81	1.19
477	4/15/2020 7:25	4/15/2020 7:27	0:01:20	-51.53	-97.79	440.49	-50.69	-90.06	440.24	-141.69	2.31
478	4/15/2020 7:27	4/15/2020 7:27	0:00:00	-50.24	-87.25	440.09	-50.24	-87.25	440.09	-143.11	0.89
479	4/15/2020 7:28	4/15/2020 7:29	0:00:50	-49.52	-83.59	439.83	-48.45	-79.19	439.43	-142.35	1.65
480	4/15/2020 7:29	4/15/2020 7:29	0:00:11	-47.73	-76.65	439.15	-47.47	-75.82	439.05	-141.67	2.33
481	4/15/2020 7:30	4/15/2020 7:30	0:00:00	-46.66	-73.37	438.73	-46.66	-73.37	438.73	-141.72	2.28
482	4/15/2020 7:30	4/15/2020 7:31	0:00:11	-45.50	-70.24	438.27	-45.19	-69.48	438.14	-141.25	2.75
483	4/15/2020 7:31	4/15/2020 7:32	0:01:10	-44.25	-67.24	437.76	-41.85	-62.32	436.77	-140.87	3.13
484	4/15/2020 7:34	4/15/2020 7:34	0:00:00	-38.06	-55.96	435.17	-38.06	-55.96	435.17	-143.06	0.94
485	4/15/2020 7:34	4/15/2020 7:35	0:00:50	-36.85	-54.19	434.66	-34.77	-51.37	433.78	-142.18	1.82
486	4/15/2020 7:36	4/15/2020 7:37	0:00:50	-32.61	-48.70	432.87	-30.39	-46.17	431.95	-142.70	1.30
487	4/15/2020 7:37	4/15/2020 7:39	0:01:29	-29.03	-44.71	431.40	-24.85	-40.56	429.73	-141.28	2.72
488	4/15/2020 7:39	4/15/2020 7:40	0:00:31	-23.43	-39.25	429.18	-21.99	-37.97	428.64	-141.52	2.48
489	4/15/2020 7:40	4/15/2020 7:41	0:00:50	-20.54	-36.72	428.11	-18.10	-34.68	427.25	-141.62	2.38
490	4/15/2020 7:42	4/15/2020 7:42	0:00:20	-16.62	-33.49	426.74	-15.63	-32.71	426.42	-142.60	1.40
491	4/15/2020 7:43	4/15/2020 7:43	0:00:20	-13.64	-31.17	425.79	-12.64	-30.41	425.48	-142.64	1.36
492	4/15/2020 7:44	4/15/2020 7:47	0:03:39	-10.63	-28.91	424.89	0.53	-20.93	422.34	-141.57	2.43
493	4/15/2020 7:48	4/15/2020 7:48	0:00:10	2.06	-19.85	422.09	2.57	-19.49	422.01	-142.91	1.09
494	4/15/2020 7:49	4/15/2020 7:49	0:00:40	4.60	-18.05	421.72	6.64	-16.60	421.48	-141.40	2.60
495	4/15/2020 7:50	4/15/2020 7:51	0:00:41	8.16	-15.51	421.33	10.18	-14.03	421.16	-141.64	2.36
496	4/15/2020 7:51	4/15/2020 7:53	0:01:40	12.19	-12.54	421.04	17.17	-8.67	420.91	-141.77	2.23
497	4/15/2020 7:53	4/15/2020 7:54	0:00:31	18.65	-7.47	420.91	20.12	-6.25	420.94	-140.85	3.15
498	4/15/2020 7:54	4/15/2020 7:57	0:02:39	21.57	-5.00	420.98	29.12	2.19	421.48	-139.81	4.19
499	4/15/2020 7:58	4/15/2020 7:59	0:01:10	30.48	3.66	421.62	33.57	7.26	421.96	-139.94	4.06
500	4/15/2020 7:59	4/15/2020 8:04	0:04:20	34.86	8.89	422.12	44.67	25.62	423.52	-140.25	3.75
501	4/15/2020 8:04	4/15/2020 8:05	0:00:30	45.60	27.90	423.67	46.48	30.26	423.80	-141.11	2.89
502	4/15/2020 8:05	4/15/2020 8:08	0:03:00	47.30	32.69	423.92	50.89	48.84	424.39	-140.40	3.60
503	4/15/2020 8:09	4/15/2020 8:10	0:01:01	51.23	51.74	424.41	51.68	57.66	424.42	-142.03	1.97
504	4/15/2020 8:10	4/15/2020 8:11	0:00:50	51.79	61.65	424.39	51.73	66.64	424.31	-141.98	2.02
505	4/15/2020 8:12	4/15/2020 8:13	0:01:20	51.58	69.62	424.24	50.80	77.42	423.98	-140.00	4.00
506	4/15/2020 8:13	4/15/2020 8:14	0:00:50	50.36	80.26	423.86	49.47	84.86	423.62	-141.68	2.32
507	4/15/2020 8:15	4/15/2020 8:16	0:00:50	48.84	87.54	423.46	47.64	91.82	423.16	-141.38	2.62
508	4/15/2020 8:16	4/15/2020 8:20	0:04:10	46.85	94.30	422.97	38.28	111.92	421.13	-139.81	4.19
509	4/15/2020 8:21	4/15/2020 8:29	0:07:29	36.24	114.86	420.75	15.32	135.74	418.72	-139.85	4.15
510	4/15/2020 8:29	4/15/2020 8:36	0:07:20	13.83	136.90	418.74	-8.49	152.95	422.00	-140.70	3.30
511	4/15/2020 8:37	4/15/2020 8:38	0:00:39	-10.01	154.06	422.43	-12.02	155.55	423.03	-141.71	2.29
512	4/15/2020 8:38	4/15/2020 8:39	0:00:30	-14.02	157.07	423.66	-15.51	158.23	424.16	-142.80	1.20
513	4/15/2020 8:39	4/15/2020 8:39	0:00:11	-17.00	159.40	424.68	-17.49	159.80	424.86	-143.12	0.88
514	4/15/2020 8:40	4/15/2020 8:40	0:00:29	-18.97	161.00	425.40	-20.43	162.23	425.95	-141.77	2.23
515	4/15/2020 8:41	4/15/2020 8:43	0:02:10	-22.36	163.91	426.71	-28.48	169.74	429.27	-141.61	2.39
516	4/15/2020 8:44	4/15/2020 8:49	0:05:10	-29.85	171.18	429.87	-42.49	-170.85	435.75	-140.41	3.59
517	4/15/2020 8:50	4/15/2020 8:50	0:00:20	-43.86	-168.02	436.40	-44.51	-166.56	436.72	-141.92	2.08
518	4/15/2020 8:50	4/15/2020 8:51	0:00:09	-45.44	-164.30	437.16	-45.74	-163.53	437.31	-143.04	0.96
519	4/15/2020 8:51	4/15/2020 8:51	0:00:00	-46.61	-161.17	437.72	-46.61	-161.17	437.72	-142.92	1.08
520	4/15/2020 8:52	4/15/2020 8:52	0:00:49	-47.42	-158.74	438.11	-48.64	-154.50	438.70	-142.39	1.61
521	4/15/2020 8:53	4/15/2020 8:53	0:00:30	-49.28	-151.87	439.02	-49.86	-149.16	439.30	-142.42	1.58
522	4/15/2020 8:54	4/15/2020 8:54	0:00:00	-50.37	-146.39	439.56	-50.37	-146.39	439.56	-143.84	0.16
523	4/15/2020 8:55	4/15/2020 8:55	0:00:19	-50.93	-142.61	439.85	-51.16	-140.68	439.97	-142.23	1.77
524	4/15/2020 8:55	4/15/2020 8:56	0:00:10	-51.44	-137.76	440.12	-51.52	-136.78	440.17	-142.77	1.23
525	4/15/2020 8:56	4/15/2020 8:56	0:00:00	-51.69	-133.82	440.28	-51.69	-133.82	440.28	-143.60	0.40
526	4/15/2020 8:57	4/15/2020 8:57	0:00:21	-51.80	-128.85	440.39	-51.78	-126.86	440.41	-142.49	1.51
527	4/15/2020 8:58	4/15/2020 8:58	0:00:20	-51.63	-122.90	440.39	-51.50	-120.93	440.37	-142.20	1.80
528	4/15/2020 8:59	4/15/2020 9:01	0:02:30	-51.24	-118.00	440.29	-48.80	-104.11	439.44	-141.73	2.27
529	4/15/2020 9:02	4/15/2020 9:04	0:02:10	-47.85	-100.69	439.08	-44.09	-90.50	437.58	-142.01	1.99
530	4/15/2020 9:05	4/15/2020 9:06	0:01:29	-42.39	-86.96	436.88	-39.05	-81.10	435.48	-141.82	2.18
531	4/15/2020 9:07	4/15/2020 9:07	0:00:00	-37.87	-79.28	434.98	-37.87	-79.28	434.98	-141.61	2.39

Table 1 Berthed (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)
532	4/15/2020 9:08	4/15/2020 9:09	0:00:50	-35.82	-76.38	434.12	-33.70	-73.64	433.24	-143.07	0.93
533	4/15/2020 9:10	4/15/2020 9:13	0:03:09	-30.17	-69.54	431.77	-21.27	-60.96	428.30	-141.49	2.51
534	4/15/2020 9:14	4/15/2020 9:15	0:01:40	-19.33	-59.31	427.61	-14.39	-55.36	425.96	-142.05	1.95
535	4/15/2020 9:17	4/15/2020 9:19	0:02:21	-10.89	-52.71	424.91	-3.80	-47.60	423.14	-141.02	2.98
536	4/15/2020 9:19	4/15/2020 9:21	0:01:41	-2.27	-46.52	422.82	2.82	-42.93	421.94	-140.85	3.15
537	4/15/2020 9:22	4/15/2020 9:23	0:01:40	4.34	-41.85	421.72	9.41	-38.20	421.20	-141.84	2.16
538	4/15/2020 9:24	4/15/2020 9:25	0:00:39	11.43	-36.72	421.06	13.44	-35.20	420.97	-141.35	2.65
539	4/15/2020 9:25	4/15/2020 9:25	0:00:00	14.93	-34.05	420.93	14.93	-34.05	420.93	-142.82	1.18
540	4/15/2020 9:26	4/15/2020 9:26	0:00:00	16.42	-32.88	420.91	16.42	-32.88	420.91	-142.76	1.24
541	4/15/2020 9:26	4/15/2020 9:27	0:01:01	18.89	-30.89	420.92	21.81	-28.41	421.00	-141.85	2.15
542	4/15/2020 9:28	4/15/2020 9:28	0:00:09	24.21	-26.25	421.12	24.68	-25.81	421.15	-142.11	1.89
543	4/15/2020 9:29	4/15/2020 9:29	0:00:31	26.10	-24.47	421.25	27.50	-23.09	421.37	-141.90	2.10
544	4/15/2020 9:30	4/15/2020 9:32	0:02:19	28.88	-21.67	421.49	35.07	-14.46	422.19	-142.58	1.42
545	4/15/2020 9:33	4/15/2020 9:35	0:01:51	36.32	-12.76	422.36	40.67	-6.04	422.98	-141.71	2.29
546	4/15/2020 9:35	4/15/2020 9:40	0:04:31	42.13	-3.37	423.20	49.69	18.19	424.33	-141.60	2.40
547	4/15/2020 9:40	4/15/2020 9:40	0:00:11	50.23	20.96	424.40	50.39	21.89	424.42	-141.67	2.33
548	4/15/2020 9:41	4/15/2020 9:45	0:03:20	51.07	26.66	424.49	51.55	46.49	424.32	-140.90	3.10
549	4/15/2020 9:45	4/15/2020 9:45	0:00:00	51.31	49.44	424.23	51.31	49.44	424.23	-141.64	2.36
550	4/15/2020 9:46	4/15/2020 9:50	0:04:01	50.86	53.32	424.09	45.55	74.23	422.75	-139.96	4.04
551	4/15/2020 9:50	4/15/2020 9:52	0:02:10	44.61	76.51	422.53	40.04	85.49	421.55	-141.00	3.00
552	4/15/2020 9:53	4/15/2020 9:57	0:04:30	38.88	87.38	421.31	27.18	101.78	419.46	-139.97	4.03
553	4/15/2020 9:58	4/15/2020 9:59	0:01:29	25.77	103.16	419.30	21.47	107.08	418.95	-142.33	1.67
554	4/15/2020 10:00	4/15/2020 10:04	0:04:01	20.01	108.32	418.87	8.04	117.58	419.07	-140.13	3.87
555	4/15/2020 10:04	4/15/2020 10:09	0:04:11	6.52	118.68	419.21	-6.20	127.69	421.42	-139.85	4.15
556	4/15/2020 10:09	4/15/2020 10:10	0:00:41	-7.73	128.78	421.81	-9.75	130.25	422.36	-141.33	2.67
557	4/15/2020 10:11	4/15/2020 10:14	0:02:59	-12.76	132.50	423.26	-21.63	139.65	426.40	-141.46	2.54
558	4/15/2020 10:14	4/15/2020 10:15	0:00:50	-23.08	140.93	426.98	-25.45	143.12	427.95	-141.09	2.91
559	4/15/2020 10:16	4/15/2020 10:17	0:00:50	-27.32	144.94	428.74	-29.61	147.32	429.74	-141.07	2.93
560	4/15/2020 10:17	4/15/2020 10:21	0:04:10	-30.96	148.80	430.34	-41.23	163.17	435.12	-140.98	3.02
561	4/15/2020 10:22	4/15/2020 10:23	0:00:51	-43.35	167.28	436.13	-44.97	170.94	436.91	-140.25	3.75
562	4/15/2020 10:24	4/15/2020 10:24	0:00:30	-46.18	174.01	437.49	-47.02	176.41	437.89	-142.74	1.26
563	4/15/2020 10:25	4/15/2020 10:25	0:00:00	-48.29	-179.42	438.50	-48.29	-179.42	438.50	-143.80	0.20
564	4/15/2020 10:26	4/15/2020 10:27	0:01:40	-48.97	-176.82	438.83	-50.73	-167.66	439.71	-142.28	1.72
565	4/15/2020 10:28	4/15/2020 10:29	0:00:41	-51.21	-163.82	439.96	-51.55	-159.92	440.16	-141.94	2.06
566	4/15/2020 10:29	4/15/2020 10:31	0:01:29	-51.77	-154.97	440.32	-51.60	-146.03	440.36	-141.35	2.65
567	4/15/2020 10:32	4/15/2020 10:32	0:00:00	-51.28	-142.11	440.28	-51.28	-142.11	440.28	-143.86	0.14
568	4/15/2020 10:32	4/15/2020 10:32	0:00:00	-50.96	-139.22	440.18	-50.96	-139.22	440.18	-142.93	1.07
569	4/15/2020 10:33	4/15/2020 10:38	0:04:50	-50.08	-133.58	439.88	-42.22	-110.24	436.79	-141.72	2.28
570	4/15/2020 10:39	4/15/2020 10:40	0:01:10	-40.39	-106.93	436.04	-37.67	-102.60	434.89	-141.63	2.37
571	4/15/2020 10:40	4/15/2020 10:41	0:00:50	-36.45	-100.85	434.38	-34.35	-98.06	433.50	-142.44	1.56
572	4/15/2020 10:42	4/15/2020 10:42	0:00:09	-33.06	-96.46	432.97	-32.62	-95.94	432.78	-142.26	1.74
573	4/15/2020 10:43	4/15/2020 10:48	0:04:40	-28.59	-91.47	431.14	-15.14	-79.56	426.23	-141.49	2.51
574	4/15/2020 10:49	4/15/2020 10:49	0:00:09	-12.65	-77.65	425.46	-12.15	-77.27	425.31	-142.20	1.80
575	4/15/2020 10:50	4/15/2020 10:53	0:03:50	-10.64	-76.15	424.88	1.03	-67.81	422.27	-141.40	2.60
576	4/15/2020 10:54	4/15/2020 10:56	0:01:40	4.08	-65.65	421.82	9.15	-62.01	421.28	-139.63	4.37
577	4/15/2020 10:57	4/15/2020 10:58	0:00:59	10.67	-60.89	421.17	13.68	-58.63	421.03	-141.37	2.63
578	4/15/2020 10:58	4/15/2020 10:58	0:00:00	15.17	-57.48	420.99	15.17	-57.48	420.99	-141.40	2.60
579	4/15/2020 10:59	4/15/2020 11:02	0:03:10	17.16	-55.91	420.97	26.32	-47.86	421.35	-140.81	3.19
580	4/15/2020 11:02	4/15/2020 11:04	0:01:09	27.72	-46.47	421.47	30.91	-43.08	421.78	-141.80	2.20
581	4/15/2020 11:04	4/15/2020 11:08	0:03:39	32.25	-41.56	421.94	41.22	-28.67	423.17	-141.46	2.54
582	4/15/2020 11:08	4/15/2020 11:08	0:00:11	42.30	-26.65	423.33	42.65	-25.95	423.39	-141.59	2.41
583	4/15/2020 11:09	4/15/2020 11:11	0:02:19	43.68	-23.83	423.55	47.81	-12.89	424.18	-141.34	2.66
584	4/15/2020 11:12	4/15/2020 11:15	0:03:21	48.76	-9.45	424.31	51.62	9.41	424.62	-140.96	3.04
585	4/15/2020 11:16	4/15/2020 11:16	0:00:00	51.80	15.39	424.57	51.80	15.39	424.57	-142.90	1.10
586	4/15/2020 11:17	4/15/2020 11:19	0:02:00	51.76	18.39	424.52	50.80	30.17	424.16	-140.75	3.25
587	4/15/2020 11:19	4/15/2020 11:23	0:03:31	50.36	33.01	424.04	45.40	50.99	422.78	-141.42	2.58
588	4/15/2020 11:23	4/15/2020 11:28	0:04:40	44.13	53.99	422.49	33.28	71.47	420.34	-140.34	3.66
589	4/15/2020 11:29	4/15/2020 11:33	0:04:40	31.96	73.04	420.13	18.80	85.72	418.81	-140.24	3.76
590	4/15/2020 11:34	4/15/2020 11:38	0:04:30	17.32	86.93	418.77	3.73	97.05	419.50	-141.49	2.51

**Table 1 Berthed (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)
591	4/15/2020 11:39	4/15/2020 11:40	0:01:20	2.21	98.13	419.71	-1.87	101.00	420.42	-140.88	3.12
592	4/15/2020 11:41	4/15/2020 11:43	0:02:00	-3.91	102.44	420.84	-9.99	106.82	422.39	-140.93	3.07
593	4/15/2020 11:43	4/15/2020 11:46	0:02:19	-11.50	107.94	422.83	-18.46	113.36	425.17	-141.32	2.68
594	4/15/2020 11:46	4/15/2020 11:48	0:01:40	-20.41	114.99	425.90	-25.20	119.28	427.82	-141.95	2.05
595	4/15/2020 11:48	4/15/2020 11:48	0:00:00	-26.61	120.63	428.42	-26.61	120.63	428.42	-142.90	1.10
596	4/15/2020 11:49	4/15/2020 11:49	0:00:21	-28.00	122.02	429.02	-28.92	122.97	429.42	-142.15	1.85
597	4/15/2020 11:50	4/15/2020 11:50	0:00:21	-30.28	124.43	430.03	-31.18	125.42	430.43	-142.77	1.23
598	4/15/2020 11:51	4/15/2020 11:51	0:00:21	-32.50	126.96	431.03	-33.38	128.00	431.43	-143.27	0.73
599	4/15/2020 11:52	4/15/2020 11:52	0:00:00	-35.93	131.29	432.62	-35.93	131.29	432.62	-142.54	1.46
600	4/15/2020 11:52	4/15/2020 11:55	0:02:21	-37.16	133.01	433.20	-42.48	141.91	435.74	-141.93	2.07
601	4/15/2020 11:55	4/15/2020 11:55	0:00:11	-43.51	144.01	436.23	-43.84	144.73	436.39	-143.13	0.87
602	4/15/2020 11:56	4/15/2020 11:58	0:02:10	-44.81	146.93	436.86	-48.40	157.38	438.61	-141.55	2.45
603	4/15/2020 11:59	4/15/2020 11:59	0:00:29	-49.07	159.99	438.94	-49.67	162.68	439.24	-141.17	2.83
604	4/15/2020 12:00	4/15/2020 12:01	0:01:51	-50.20	165.43	439.51	-51.51	175.96	440.22	-141.90	2.10
605	4/15/2020 12:02	4/15/2020 12:05	0:02:20	-51.78	-178.10	440.42	-51.13	-164.29	440.35	-140.20	3.80
606	4/15/2020 12:06	4/15/2020 12:06	0:00:20	-50.48	-159.53	440.14	-50.16	-157.67	440.03	-143.52	0.48
607	4/15/2020 12:06	4/15/2020 12:08	0:01:10	-49.62	-154.93	439.85	-48.10	-148.79	439.29	-141.83	2.17
608	4/15/2020 12:08	4/15/2020 12:11	0:02:41	-47.35	-146.28	439.00	-42.40	-134.21	437.02	-141.60	2.40
609	4/15/2020 12:11	4/15/2020 12:12	0:00:39	-41.32	-132.19	436.58	-39.83	-129.60	435.96	-141.66	2.34
610	4/15/2020 12:13	4/15/2020 12:13	0:00:00	-37.88	-126.53	435.14	-37.88	-126.53	435.14	-140.25	3.75
611	4/15/2020 12:13	4/15/2020 12:20	0:06:40	-36.66	-124.77	434.63	-18.36	-105.74	427.47	-141.60	2.40
612	4/15/2020 12:20	4/15/2020 12:21	0:00:31	-16.89	-104.55	426.97	-15.40	-103.38	426.48	-142.18	1.82
613	4/15/2020 12:22	4/15/2020 12:22	0:00:21	-13.41	-101.84	425.86	-12.41	-101.08	425.56	-142.01	1.99
614	4/15/2020 12:22	4/15/2020 12:23	0:01:00	-10.90	-99.96	425.12	-7.88	-97.74	424.31	-141.58	2.42
615	4/15/2020 12:24	4/15/2020 12:26	0:02:29	-6.36	-96.65	423.93	1.27	-91.25	422.39	-141.74	2.26
616	4/15/2020 12:27	4/15/2020 12:28	0:00:19	3.82	-89.45	422.01	4.83	-88.73	421.87	-141.88	2.12
617	4/15/2020 12:28	4/15/2020 12:29	0:01:10	6.86	-87.28	421.64	10.40	-84.71	421.34	-141.34	2.66
618	4/15/2020 12:30	4/15/2020 12:31	0:00:41	12.41	-83.21	421.22	14.41	-81.68	421.14	-142.36	1.64
619	4/15/2020 12:31	4/15/2020 12:31	0:00:09	15.91	-80.52	421.11	16.40	-80.12	421.10	-143.26	0.74
620	4/15/2020 12:32	4/15/2020 12:32	0:00:11	17.88	-78.93	421.10	18.38	-78.53	421.10	-142.59	1.41
621	4/15/2020 12:33	4/15/2020 12:33	0:00:41	20.33	-76.90	421.14	22.27	-75.23	421.20	-141.60	2.40
622	4/15/2020 12:34	4/15/2020 12:34	0:00:11	23.71	-73.93	421.27	24.19	-73.50	421.30	-140.78	3.22
623	4/15/2020 12:35	4/15/2020 12:35	0:00:41	26.08	-71.71	421.43	27.94	-69.86	421.57	-141.34	2.66
624	4/15/2020 12:36	4/15/2020 12:36	0:00:00	29.77	-67.95	421.74	29.77	-67.95	421.74	-143.92	0.08
625	4/15/2020 12:37	4/15/2020 12:37	0:00:39	31.12	-66.46	421.88	32.89	-64.40	422.08	-141.88	2.12
626	4/15/2020 12:38	4/15/2020 12:39	0:01:31	34.19	-62.80	422.23	37.94	-57.67	422.73	-141.89	2.11
627	4/15/2020 12:40	4/15/2020 12:40	0:00:00	39.12	-55.84	422.89	39.12	-55.84	422.89	-143.22	0.78
628	4/15/2020 12:40	4/15/2020 12:42	0:01:40	40.27	-53.94	423.06	43.84	-47.10	423.59	-140.12	3.88
629	4/15/2020 12:42	4/15/2020 12:45	0:02:30	44.81	-44.89	423.73	48.86	-32.65	424.32	-141.02	2.98
630	4/15/2020 12:46	4/15/2020 12:49	0:03:19	49.68	-29.07	424.43	51.78	-9.75	424.55	-140.99	3.01
631	4/15/2020 12:50	4/15/2020 12:50	0:00:41	51.77	-5.75	424.48	51.61	-1.77	424.39	-142.00	2.00
632	4/15/2020 12:51	4/15/2020 12:57	0:06:40	51.40	1.19	424.31	41.90	34.94	421.90	-140.06	3.94
633	4/15/2020 12:58	4/15/2020 12:59	0:00:59	40.80	36.94	421.66	38.50	40.74	421.18	-142.50	1.50
634	4/15/2020 12:59	4/15/2020 13:01	0:01:40	37.29	42.53	420.94	33.07	48.11	420.18	-142.19	1.81
635	4/15/2020 13:02	4/15/2020 13:03	0:01:21	31.75	49.67	419.97	28.12	53.60	419.46	-139.90	4.10
636	4/15/2020 13:04	4/15/2020 13:10	0:06:40	25.79	55.91	419.18	6.03	71.80	419.08	-139.76	4.24
637	4/15/2020 13:11	4/15/2020 13:12	0:01:10	4.51	72.88	419.25	0.94	75.40	419.77	-140.93	3.07
638	4/15/2020 13:13	4/15/2020 13:13	0:00:00	-0.59	76.48	420.03	-0.59	76.48	420.03	-141.90	2.10
639	4/15/2020 13:13	4/15/2020 13:13	0:00:20	-2.12	77.56	420.33	-3.13	78.27	420.54	-141.97	2.03
640	4/15/2020 13:14	4/15/2020 13:14	0:00:00	-5.17	79.72	421.00	-5.17	79.72	421.00	-140.69	3.31
641	4/15/2020 13:15	4/15/2020 13:17	0:02:39	-6.69	80.81	421.37	-14.74	86.78	423.75	-139.97	4.03
642	4/15/2020 13:18	4/15/2020 13:20	0:01:50	-17.71	89.14	424.79	-23.06	93.68	426.86	-141.60	2.40
643	4/15/2020 13:21	4/15/2020 13:21	0:00:29	-25.43	95.88	427.85	-26.84	97.24	428.45	-142.12	1.88
644	4/15/2020 13:22	4/15/2020 13:23	0:00:50	-28.22	98.63	429.06	-30.50	101.05	430.07	-141.99	2.01
645	4/15/2020 13:23	4/15/2020 13:23	0:00:11	-31.84	102.56	430.68	-32.28	103.07	430.89	-142.83	1.17
646	4/15/2020 13:24	4/15/2020 13:25	0:01:30	-33.58	104.64	431.49	-37.35	109.68	433.28	-141.98	2.02
647	4/15/2020 13:26	4/15/2020 13:26	0:00:09	-38.55	111.48	433.85	-38.94	112.09	434.04	-140.00	4.00
648	4/15/2020 13:27	4/15/2020 13:28	0:01:20	-40.10	113.97	434.60	-42.99	119.32	436.00	-141.64	2.36
649	4/15/2020 13:29	4/15/2020 13:30	0:00:39	-44.96	123.68	436.97	-46.16	126.76	437.56	-141.64	2.36

**Table 1 Berthed (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)
650	4/15/2020 13:30	4/15/2020 13:31	0:00:50	-47.27	129.97	438.11	-48.51	134.18	438.72	-142.51	1.49
651	4/15/2020 13:32	4/15/2020 13:34	0:02:00	-49.37	137.69	439.16	-51.21	148.91	440.14	-141.79	2.21
652	4/15/2020 13:35	4/15/2020 13:35	0:00:00	-51.61	153.80	440.39	-51.61	153.80	440.39	-143.81	0.19
653	4/15/2020 13:35	4/15/2020 13:35	0:00:09	-51.77	157.76	440.52	-51.79	158.76	440.54	-141.99	2.01
654	4/15/2020 13:36	4/15/2020 13:36	0:00:19	-51.76	162.74	440.60	-51.70	164.72	440.61	-141.93	2.07
655	4/15/2020 13:37	4/15/2020 13:38	0:00:39	-51.53	167.68	440.59	-51.19	171.59	440.51	-141.92	2.08
656	4/15/2020 13:38	4/15/2020 13:40	0:01:40	-50.70	175.42	440.37	-48.91	-175.44	439.76	-141.92	2.08
657	4/15/2020 13:40	4/15/2020 13:43	0:02:10	-48.23	-172.85	439.51	-44.59	-162.49	438.10	-141.72	2.28
658	4/15/2020 13:43	4/15/2020 13:45	0:01:21	-43.27	-159.59	437.57	-40.41	-154.19	436.40	-140.29	3.71
659	4/15/2020 13:45	4/15/2020 13:48	0:03:00	-39.26	-152.29	435.93	-31.76	-142.17	432.81	-141.51	2.49
660	4/15/2020 13:49	4/15/2020 13:51	0:01:40	-29.07	-139.20	431.71	-24.41	-134.61	429.89	-141.54	2.46
661	4/15/2020 13:51	4/15/2020 13:52	0:00:31	-22.98	-133.31	429.34	-21.54	-132.04	428.81	-142.38	1.62
662	4/15/2020 13:52	4/15/2020 13:52	0:00:00	-20.09	-130.79	428.29	-20.09	-130.79	428.29	-142.52	1.48
663	4/15/2020 13:53	4/15/2020 13:53	0:00:00	-18.62	-129.57	427.77	-18.62	-129.57	427.77	-143.10	0.90
664	4/15/2020 13:53	4/15/2020 13:53	0:00:10	-17.15	-128.37	427.27	-16.65	-127.98	427.10	-142.27	1.73
665	4/15/2020 13:54	4/15/2020 13:55	0:00:39	-15.17	-126.81	426.62	-13.18	-125.27	425.99	-141.77	2.23
666	4/15/2020 13:55	4/15/2020 13:56	0:00:50	-11.67	-124.14	425.54	-9.16	-122.28	424.83	-142.53	1.47
667	4/15/2020 13:57	4/15/2020 13:58	0:01:00	-5.61	-119.73	423.92	-2.56	-117.56	423.23	-141.46	2.54

**Max. Exceedance: 4.44 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	5/11/2020 21:18	5/11/2020 21:19	0:00:39	-49.15	-87.13	439.18	-48.26	-83.65	438.82	-143.81	0.19
2	5/11/2020 21:19	5/11/2020 21:21	0:01:29	-47.25	-80.30	438.42	-44.62	-73.27	437.36	-143.82	0.18
3	5/11/2020 21:32	5/11/2020 21:33	0:00:20	-15.20	-37.55	426.79	-14.21	-36.78	426.53	-143.88	0.12
4	5/11/2020 21:36	5/11/2020 21:38	0:02:10	-5.14	-30.11	424.60	1.48	-25.44	423.74	-143.16	0.84
5	5/11/2020 21:41	5/11/2020 21:44	0:03:00	12.61	-17.39	423.39	21.49	-10.24	424.04	-143.88	0.12
6	5/11/2020 21:47	5/11/2020 21:47	0:00:39	27.65	-4.49	424.91	29.49	-2.58	425.23	-143.78	0.22
7	5/11/2020 21:51	5/11/2020 21:58	0:06:50	38.48	8.82	427.06	50.43	40.58	429.96	-142.41	1.59
8	5/11/2020 22:15	5/11/2020 22:18	0:02:49	24.78	122.52	424.85	16.53	129.60	424.02	-143.18	0.82
9	5/11/2020 22:21	5/11/2020 22:24	0:02:51	9.03	135.29	423.82	0.39	141.44	424.33	-142.78	1.22
10	5/11/2020 22:25	5/11/2020 22:26	0:00:59	-4.69	145.03	425.01	-7.74	147.21	425.54	-143.54	0.46
11	5/11/2020 22:29	5/11/2020 22:32	0:03:31	-15.76	153.23	427.39	-25.92	161.99	430.51	-140.97	3.03
12	5/11/2020 22:33	5/11/2020 22:34	0:01:20	-27.32	163.37	431.00	-30.96	167.21	432.31	-143.09	0.91
13	5/11/2020 22:36	5/11/2020 22:38	0:01:30	-36.96	174.76	434.57	-40.49	-179.72	435.94	-143.82	0.18
14	5/11/2020 22:42	5/11/2020 22:42	0:00:30	-47.79	-162.70	438.75	-48.52	-160.15	439.02	-143.53	0.47
15	5/11/2020 22:45	5/11/2020 22:46	0:00:11	-51.40	-143.47	440.07	-51.48	-142.49	440.10	-143.81	0.19
16	5/11/2020 22:51	5/11/2020 22:52	0:00:39	-49.12	-110.64	439.10	-48.22	-107.16	438.74	-143.82	0.18
17	5/11/2020 23:05	5/11/2020 23:06	0:00:31	-14.64	-60.74	426.58	-13.14	-59.59	426.20	-143.85	0.15
18	5/11/2020 23:09	5/11/2020 23:12	0:03:00	-4.05	-52.96	424.37	5.11	-46.50	423.43	-143.02	0.98
19	5/11/2020 23:14	5/11/2020 23:17	0:03:00	12.68	-40.96	423.36	21.56	-33.81	424.03	-143.89	0.11
20	5/11/2020 23:20	5/11/2020 23:20	0:00:41	28.18	-27.58	424.99	30.01	-25.66	425.32	-143.91	0.09
21	5/11/2020 23:21	5/11/2020 23:22	0:00:41	31.80	-23.65	425.66	33.55	-21.57	426.01	-143.96	0.04
22	5/11/2020 23:23	5/11/2020 23:27	0:03:50	37.73	-15.93	426.91	45.87	-0.20	428.87	-142.42	1.58
23	5/11/2020 23:28	5/11/2020 23:28	0:00:11	47.01	2.99	429.15	47.28	3.81	429.22	-143.96	0.04
24	5/11/2020 23:29	5/11/2020 23:31	0:02:00	48.04	6.32	429.41	50.45	17.08	430.03	-142.97	1.03
25	5/11/2020 23:48	5/11/2020 23:51	0:02:40	24.24	99.40	424.84	16.47	106.02	424.07	-143.28	0.72
26	5/11/2020 23:54	5/11/2020 23:57	0:02:40	7.95	112.45	423.88	-0.18	118.22	424.42	-142.99	1.01
27	5/11/2020 23:59	5/12/2020 0:05	0:06:59	-5.78	122.18	425.21	-26.45	138.88	430.68	-141.18	2.82
28	5/12/2020 0:06	5/12/2020 0:07	0:01:20	-27.84	140.27	431.17	-31.46	144.16	432.48	-143.40	0.60
29	5/12/2020 0:09	5/12/2020 0:09	0:00:00	-35.77	149.49	434.10	-35.77	149.49	434.10	-144.00	0.00
30	5/12/2020 0:10	5/12/2020 0:11	0:00:41	-38.61	153.59	435.19	-40.16	156.09	435.79	-143.81	0.19
31	5/12/2020 0:15	5/12/2020 0:15	0:00:30	-47.83	173.78	438.74	-48.55	176.34	439.01	-143.17	0.83
32	5/12/2020 0:24	5/12/2020 0:25	0:00:21	-48.88	-133.27	438.99	-48.43	-131.53	438.81	-143.85	0.15
33	5/12/2020 0:25	5/12/2020 0:27	0:01:31	-46.91	-126.52	438.20	-44.21	-119.59	437.12	-143.82	0.18
34	5/12/2020 0:39	5/12/2020 0:39	0:00:29	-14.07	-83.93	426.48	-12.57	-82.79	426.11	-143.85	0.15
35	5/12/2020 0:42	5/12/2020 0:43	0:01:20	-3.48	-76.18	424.34	0.60	-73.31	423.84	-142.88	1.12
36	5/12/2020 0:44	5/12/2020 0:45	0:01:20	2.63	-71.88	423.66	6.70	-68.99	423.43	-143.92	0.08
37	5/12/2020 0:47	5/12/2020 0:50	0:03:00	13.25	-64.16	423.44	22.10	-56.96	424.16	-143.89	0.11
38	5/12/2020 0:54	5/12/2020 0:55	0:01:09	30.96	-48.23	425.57	34.04	-44.59	426.18	-143.84	0.16
39	5/12/2020 0:56	5/12/2020 0:59	0:03:19	37.38	-40.08	426.91	44.68	-26.78	428.64	-142.43	1.57
40	5/12/2020 1:02	5/12/2020 1:04	0:01:10	49.20	-12.84	429.77	50.46	-6.43	430.10	-143.10	0.90
41	5/12/2020 1:22	5/12/2020 1:24	0:02:40	23.70	76.26	424.74	15.91	82.84	423.98	-143.28	0.72
42	5/12/2020 1:28	5/12/2020 1:30	0:02:01	5.35	90.68	423.92	-0.76	95.00	424.43	-143.15	0.85
43	5/12/2020 1:32	5/12/2020 1:39	0:06:50	-6.86	99.32	425.34	-26.97	115.77	430.85	-141.69	2.31
44	5/12/2020 1:39	5/12/2020 1:41	0:01:20	-28.36	117.17	431.34	-31.96	121.10	432.66	-143.69	0.31
45	5/12/2020 1:41	5/12/2020 1:42	0:00:59	-34.14	123.73	433.49	-36.65	127.08	434.45	-143.53	0.47
46	5/12/2020 1:43	5/12/2020 1:44	0:00:41	-38.66	130.05	435.24	-40.21	132.55	435.84	-143.75	0.25
47	5/12/2020 1:48	5/12/2020 1:49	0:00:41	-47.86	150.26	438.83	-48.80	153.69	439.19	-142.73	1.27
48	5/12/2020 1:53	5/12/2020 1:53	0:00:00	-51.78	-179.57	440.29	-51.78	-179.57	440.29	-143.94	0.06
49	5/12/2020 2:12	5/12/2020 2:12	0:00:30	-13.51	-107.13	426.52	-12.01	-106.00	426.15	-143.87	0.13
50	5/12/2020 2:15	5/12/2020 2:17	0:01:20	-2.91	-99.41	424.42	1.17	-96.54	423.94	-142.87	1.13
51	5/12/2020 2:17	5/12/2020 2:19	0:01:20	3.71	-94.74	423.73	7.77	-91.84	423.54	-143.85	0.15
52	5/12/2020 2:55	5/12/2020 2:57	0:02:49	23.64	52.68	424.56	15.35	59.64	423.78	-143.27	0.73
53	5/12/2020 3:01	5/12/2020 3:03	0:01:49	4.27	67.82	423.81	-1.33	71.77	424.34	-143.24	0.76
54	5/12/2020 3:11	5/12/2020 3:12	0:01:10	-23.74	89.07	429.66	-27.03	92.20	430.80	-142.31	1.69
55	5/12/2020 3:13	5/12/2020 3:16	0:03:00	-29.33	94.56	431.63	-37.12	104.10	434.61	-142.91	1.09
56	5/12/2020 3:16	5/12/2020 3:17	0:00:19	-39.11	107.11	435.39	-39.88	108.36	435.70	-143.74	0.26
57	5/12/2020 3:21	5/12/2020 3:22	0:00:59	-47.64	125.91	438.78	-49.04	131.05	439.33	-142.20	1.80
58	5/12/2020 3:26	5/12/2020 3:26	0:00:11	-51.79	155.93	440.39	-51.78	156.93	440.39	-143.90	0.10
59	5/12/2020 3:30	5/12/2020 3:30	0:00:09	-48.60	-179.43	439.18	-48.37	-178.57	439.09	-143.83	0.17
60	5/12/2020 3:32	5/12/2020 3:33	0:01:29	-46.56	-172.78	438.38	-43.80	-165.94	437.29	-143.82	0.18

**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)
61	5/12/2020 3:45	5/12/2020 3:45	0:00:21	-12.45	-129.96	426.41	-11.45	-129.20	426.17	-143.90	0.10
62	5/12/2020 3:48	5/12/2020 3:50	0:01:20	-2.33	-122.64	424.48	1.74	-119.77	424.01	-143.02	0.98
63	5/12/2020 3:51	5/12/2020 3:52	0:00:59	5.30	-117.25	423.75	8.34	-115.06	423.63	-143.90	0.10
64	5/12/2020 3:54	5/12/2020 3:57	0:02:50	14.37	-110.56	423.70	22.70	-103.69	424.39	-143.91	0.09
65	5/12/2020 4:00	5/12/2020 4:01	0:00:39	31.96	-94.35	425.83	33.71	-92.26	426.17	-143.94	0.06
66	5/12/2020 4:01	5/12/2020 4:02	0:00:51	35.83	-89.51	426.60	37.88	-86.60	427.03	-143.47	0.53
67	5/12/2020 4:05	5/12/2020 4:06	0:00:39	44.11	-75.33	428.45	45.38	-72.34	428.75	-142.38	1.62
68	5/12/2020 4:08	5/12/2020 4:10	0:01:11	49.25	-59.89	429.67	50.50	-53.46	429.97	-143.21	0.79
69	5/12/2020 4:28	5/12/2020 4:31	0:02:51	23.11	29.54	424.32	14.79	36.45	423.59	-143.26	0.74
70	5/12/2020 4:35	5/12/2020 4:36	0:01:59	3.19	44.96	423.73	-2.92	49.27	424.40	-143.27	0.73
71	5/12/2020 4:39	5/12/2020 4:43	0:03:59	-10.02	54.36	425.69	-21.88	63.78	428.93	-141.77	2.23
72	5/12/2020 4:53	5/12/2020 4:53	0:00:00	-46.60	99.12	438.28	-46.60	99.12	438.28	-143.99	0.01
73	5/12/2020 4:54	5/12/2020 4:55	0:01:20	-47.41	101.56	438.60	-49.28	108.43	439.33	-141.95	2.05
74	5/12/2020 4:59	5/12/2020 4:59	0:00:20	-51.79	132.43	440.31	-51.75	134.42	440.30	-143.84	0.16
75	5/12/2020 5:03	5/12/2020 5:04	0:00:20	-48.57	157.05	439.10	-48.10	158.77	438.92	-143.88	0.12
76	5/12/2020 5:05	5/12/2020 5:06	0:01:40	-46.52	163.70	438.31	-43.42	171.24	437.09	-143.81	0.19
77	5/12/2020 5:18	5/12/2020 5:18	0:00:19	-11.88	-153.16	426.27	-10.88	-152.41	426.04	-143.90	0.10
78	5/12/2020 5:22	5/12/2020 5:23	0:01:10	-1.25	-145.50	424.35	2.31	-142.99	423.97	-143.05	0.95
79	5/12/2020 5:24	5/12/2020 5:25	0:00:39	6.38	-140.10	423.71	8.40	-138.64	423.65	-143.95	0.05
80	5/12/2020 5:27	5/12/2020 5:30	0:02:41	14.93	-133.75	423.74	22.76	-127.26	424.41	-143.93	0.07
81	5/12/2020 5:34	5/12/2020 5:36	0:02:00	35.05	-114.18	426.46	39.89	-107.06	427.50	-143.03	0.97
82	5/12/2020 6:01	5/12/2020 6:04	0:02:49	22.57	6.40	424.23	14.23	13.26	423.53	-143.24	0.76
83	5/12/2020 6:08	5/12/2020 6:10	0:01:51	1.08	22.82	423.87	-4.51	26.77	424.60	-143.26	0.74
84	5/12/2020 6:13	5/12/2020 6:18	0:05:19	-12.09	32.28	426.11	-27.62	45.53	430.83	-141.71	2.29
85	5/12/2020 6:19	5/12/2020 6:22	0:02:10	-32.14	50.42	432.50	-37.63	57.59	434.64	-142.65	1.35
86	5/12/2020 6:23	5/12/2020 6:23	0:00:00	-40.35	61.91	435.73	-40.35	61.91	435.73	-143.97	0.03
87	5/12/2020 6:32	5/12/2020 6:32	0:00:19	-51.79	108.94	440.26	-51.75	110.93	440.24	-143.79	0.21
88	5/12/2020 6:36	5/12/2020 6:37	0:00:11	-48.31	134.40	438.94	-48.07	135.25	438.85	-143.85	0.15
89	5/12/2020 6:38	5/12/2020 6:39	0:01:31	-46.20	140.98	438.13	-43.37	147.71	437.02	-143.81	0.19
90	5/12/2020 6:51	5/12/2020 6:52	0:00:30	-11.31	-176.36	426.11	-9.80	-175.24	425.77	-143.88	0.12
91	5/12/2020 6:55	5/12/2020 6:56	0:01:21	-0.67	-168.72	424.24	3.40	-165.85	423.85	-143.06	0.94
92	5/12/2020 6:58	5/12/2020 6:58	0:00:00	8.47	-162.22	423.62	8.47	-162.22	423.62	-144.00	0.00
93	5/12/2020 7:00	5/12/2020 7:03	0:02:30	15.50	-156.94	423.74	22.83	-150.83	424.40	-143.94	0.06
94	5/12/2020 7:07	5/12/2020 7:12	0:04:40	34.68	-138.28	426.35	45.16	-120.15	428.68	-142.24	1.76
95	5/12/2020 7:34	5/12/2020 7:37	0:02:50	22.02	-16.74	424.18	13.66	-9.93	423.53	-143.23	0.77
96	5/12/2020 7:41	5/12/2020 7:43	0:02:00	0.51	-0.40	423.96	-5.60	3.91	424.80	-143.18	0.82
97	5/12/2020 7:46	5/12/2020 7:51	0:05:11	-13.16	9.46	426.39	-28.14	22.43	431.02	-142.07	1.93
98	5/12/2020 7:53	5/12/2020 7:55	0:01:59	-32.63	27.38	432.69	-37.68	34.05	434.65	-142.90	1.10
99	5/12/2020 7:56	5/12/2020 7:56	0:00:11	-40.78	39.02	435.88	-41.15	39.68	436.03	-143.95	0.05
100	5/12/2020 7:59	5/12/2020 8:00	0:00:31	-46.68	52.08	438.22	-47.49	54.52	438.54	-143.18	0.82
101	5/12/2020 8:18	5/12/2020 8:18	0:00:11	-29.59	144.13	431.59	-29.14	144.62	431.42	-143.98	0.02
102	5/12/2020 8:25	5/12/2020 8:25	0:00:20	-10.24	160.81	425.78	-9.23	161.55	425.57	-143.90	0.10
103	5/12/2020 8:27	5/12/2020 8:29	0:02:10	-2.64	166.27	424.42	3.98	170.94	423.74	-143.01	0.99
104	5/12/2020 8:33	5/12/2020 8:36	0:02:30	15.57	179.49	423.70	22.90	-174.40	424.37	-143.95	0.05
105	5/12/2020 8:40	5/12/2020 8:45	0:04:40	34.74	-161.83	426.37	45.20	-143.67	428.72	-142.19	1.81
106	5/12/2020 9:07	5/12/2020 9:10	0:03:00	21.47	-39.89	424.23	12.59	-32.74	423.60	-143.24	0.76
107	5/12/2020 9:14	5/12/2020 9:16	0:02:09	0.44	-23.98	424.08	-6.17	-19.30	425.01	-143.22	0.78
108	5/12/2020 9:19	5/12/2020 9:24	0:04:51	-14.23	-13.35	426.76	-28.20	-1.13	431.13	-142.99	1.01
109	5/12/2020 9:26	5/12/2020 9:28	0:01:20	-33.99	5.41	433.29	-37.33	9.91	434.59	-143.10	0.90
110	5/12/2020 9:32	5/12/2020 9:34	0:02:30	-46.44	27.76	438.19	-49.93	40.62	439.54	-141.92	2.08
111	5/12/2020 9:38	5/12/2020 9:38	0:00:10	-51.77	62.95	440.22	-51.74	63.94	440.21	-143.78	0.22
112	5/12/2020 9:45	5/12/2020 9:46	0:00:11	-42.94	101.36	436.74	-42.60	102.05	436.60	-143.92	0.08
113	5/12/2020 9:51	5/12/2020 9:51	0:00:09	-29.08	121.05	431.35	-28.62	121.53	431.18	-143.88	0.12
114	5/12/2020 10:00	5/12/2020 10:02	0:02:10	-2.06	143.05	424.26	4.55	147.72	423.62	-142.88	1.12
115	5/12/2020 10:06	5/12/2020 10:09	0:02:11	16.13	156.31	423.64	22.48	161.61	424.23	-143.96	0.04
116	5/12/2020 10:13	5/12/2020 10:18	0:04:31	34.80	174.62	426.29	44.93	-167.95	428.59	-142.24	1.76
117	5/12/2020 10:41	5/12/2020 10:44	0:03:00	20.92	-63.04	424.21	12.02	-55.94	423.65	-143.22	0.78
118	5/12/2020 10:47	5/12/2020 10:49	0:02:09	0.37	-47.56	424.17	-6.24	-42.88	425.12	-143.25	0.75
119	5/12/2020 10:54	5/12/2020 10:54	0:00:19	-18.25	-33.79	427.99	-19.23	-32.98	428.28	-143.88	0.12
120	5/12/2020 10:55	5/12/2020 10:56	0:01:01	-23.10	-29.64	429.50	-25.94	-27.00	430.47	-143.74	0.26

**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)
121	5/12/2020 10:59	5/12/2020 11:00	0:01:01	-34.48	-17.60	433.62	-36.98	-14.23	434.60	-143.48	0.52
122	5/12/2020 11:05	5/12/2020 11:08	0:02:41	-46.47	4.24	438.34	-50.13	18.03	439.75	-141.90	2.10
123	5/12/2020 11:11	5/12/2020 11:12	0:00:21	-51.76	39.45	440.34	-51.70	41.44	440.31	-143.81	0.19
124	5/12/2020 11:16	5/12/2020 11:16	0:00:09	-47.97	64.71	438.83	-47.72	65.55	438.73	-143.93	0.07
125	5/12/2020 11:24	5/12/2020 11:25	0:00:20	-29.02	97.49	431.33	-28.10	98.44	430.99	-143.77	0.23
126	5/12/2020 11:31	5/12/2020 11:31	0:00:29	-9.10	114.40	425.38	-7.58	115.50	425.08	-143.82	0.18
127	5/12/2020 11:33	5/12/2020 11:36	0:02:21	-2.00	119.47	424.16	5.13	124.50	423.47	-142.68	1.32
128	5/12/2020 11:39	5/12/2020 11:42	0:02:20	16.19	132.73	423.50	23.02	138.47	424.13	-143.96	0.04
129	5/12/2020 11:47	5/12/2020 11:51	0:03:11	38.15	155.68	426.81	44.97	168.52	428.39	-142.22	1.78
130	5/12/2020 11:54	5/12/2020 11:54	0:00:41	49.78	-175.60	429.57	50.45	-171.90	429.74	-143.35	0.65
131	5/12/2020 12:14	5/12/2020 12:17	0:03:11	20.37	-86.19	424.11	10.95	-78.76	423.63	-143.21	0.79
132	5/12/2020 12:19	5/12/2020 12:22	0:03:00	2.84	-72.93	423.94	-6.31	-66.45	425.15	-143.25	0.75
133	5/12/2020 12:33	5/12/2020 12:33	0:00:19	-34.96	-40.60	433.82	-35.80	-39.49	434.14	-143.82	0.18
134	5/12/2020 13:04	5/12/2020 13:05	0:00:30	-8.02	91.56	425.12	-6.50	92.65	424.83	-143.79	0.21
135	5/12/2020 13:07	5/12/2020 13:09	0:02:30	-1.41	96.26	424.04	6.22	101.65	423.38	-142.42	1.58
136	5/12/2020 13:13	5/12/2020 13:14	0:01:19	16.76	109.55	423.51	20.68	112.79	423.84	-143.96	0.04
137	5/12/2020 13:15	5/12/2020 13:15	0:00:30	22.61	114.47	424.06	24.05	115.77	424.24	-143.99	0.01
138	5/12/2020 13:47	5/12/2020 13:50	0:03:09	19.81	-109.35	424.11	10.37	-101.97	423.68	-143.20	0.80
139	5/12/2020 13:52	5/12/2020 13:56	0:03:11	2.77	-96.50	424.01	-6.89	-89.67	425.33	-143.24	0.76
140	5/12/2020 14:31	5/12/2020 14:31	0:00:19	-27.97	51.32	430.97	-27.05	52.25	430.63	-143.53	0.47
141	5/12/2020 14:37	5/12/2020 14:38	0:00:30	-7.44	68.35	425.02	-5.92	69.44	424.74	-143.73	0.27
142	5/12/2020 14:40	5/12/2020 14:42	0:02:39	-1.35	72.68	424.03	6.79	78.44	423.35	-142.18	1.82
143	5/12/2020 14:47	5/12/2020 14:47	0:00:00	20.26	88.80	423.81	20.26	88.80	423.81	-143.99	0.01
144	5/12/2020 14:48	5/12/2020 14:48	0:00:31	23.63	91.77	424.20	25.06	93.09	424.40	-143.99	0.01
145	5/12/2020 14:51	5/12/2020 14:56	0:05:30	31.49	99.73	425.47	44.42	119.98	428.33	-142.22	1.78
146	5/12/2020 14:59	5/12/2020 14:59	0:00:09	49.03	133.80	429.47	49.24	134.68	429.53	-143.93	0.07
147	5/12/2020 15:00	5/12/2020 15:00	0:00:41	49.82	137.39	429.67	50.49	141.11	429.85	-143.54	0.46
148	5/12/2020 15:02	5/12/2020 15:02	0:00:19	51.50	149.80	430.11	51.63	151.78	430.15	-143.87	0.13
149	5/12/2020 15:20	5/12/2020 15:23	0:03:20	19.26	-132.52	424.15	9.30	-124.81	423.76	-143.18	0.82
150	5/12/2020 15:25	5/12/2020 15:29	0:03:11	2.70	-120.08	424.08	-6.96	-113.25	425.39	-143.03	0.97
151	5/12/2020 15:44	5/12/2020 15:46	0:02:31	-46.30	-67.11	438.33	-49.85	-54.31	439.68	-141.76	2.24
152	5/12/2020 15:50	5/12/2020 15:50	0:00:09	-51.72	-30.03	440.32	-51.68	-29.04	440.30	-143.88	0.12
153	5/12/2020 15:55	5/12/2020 15:55	0:00:00	-47.36	-4.17	438.55	-47.36	-4.17	438.55	-143.94	0.06
154	5/12/2020 15:56	5/12/2020 15:58	0:01:50	-45.37	1.39	437.75	-41.69	9.27	436.26	-143.81	0.19
155	5/12/2020 16:04	5/12/2020 16:04	0:00:21	-27.45	28.22	430.69	-26.52	29.14	430.35	-143.59	0.41
156	5/12/2020 16:11	5/12/2020 16:11	0:00:39	-6.87	45.13	424.85	-4.84	46.58	424.49	-143.65	0.35
157	5/12/2020 16:12	5/12/2020 16:15	0:03:20	-2.30	48.38	424.10	7.87	55.59	423.28	-141.92	2.08
158	5/12/2020 16:19	5/12/2020 16:20	0:00:50	17.87	63.20	423.56	20.32	65.23	423.78	-143.99	0.01
159	5/12/2020 16:21	5/12/2020 16:22	0:01:20	23.70	68.20	424.18	27.46	71.79	424.74	-143.97	0.03
160	5/12/2020 16:23	5/12/2020 16:25	0:02:10	28.84	73.21	424.97	34.60	79.86	426.07	-143.93	0.07
161	5/12/2020 16:28	5/12/2020 16:29	0:01:20	41.37	90.13	427.58	44.14	95.72	428.25	-142.20	1.80
162	5/12/2020 16:32	5/12/2020 16:33	0:01:19	49.06	110.29	429.48	50.51	117.61	429.86	-143.69	0.31
163	5/12/2020 16:35	5/12/2020 16:35	0:00:30	51.44	125.32	430.10	51.64	128.28	430.16	-143.76	0.24
164	5/12/2020 16:53	5/12/2020 16:57	0:03:11	18.21	-155.28	424.11	8.73	-148.02	423.81	-143.17	0.83
165	5/12/2020 16:58	5/12/2020 17:02	0:03:20	2.64	-143.66	424.11	-7.53	-136.46	425.51	-142.92	1.08
166	5/12/2020 17:30	5/12/2020 17:31	0:00:59	-43.40	-17.72	436.84	-41.28	-13.60	435.98	-143.81	0.19
167	5/12/2020 17:37	5/12/2020 17:37	0:00:19	-26.92	5.11	430.41	-25.99	6.03	430.07	-143.62	0.38
168	5/12/2020 17:44	5/12/2020 17:49	0:05:01	-6.29	21.92	424.68	8.95	32.75	423.21	-141.63	2.37
169	5/12/2020 17:52	5/12/2020 17:53	0:00:21	19.41	40.84	423.66	20.39	41.66	423.76	-144.00	0.00
170	5/12/2020 17:54	5/12/2020 17:57	0:03:07	23.76	44.63	424.16	32.39	53.50	425.80	-143.77	0.23
171	5/12/2020 18:27	5/12/2020 18:30	0:03:00	16.80	-177.77	424.08	7.78	-170.96	423.89	-143.16	0.84
172	5/12/2020 18:31	5/12/2020 18:31	0:00:00	4.23	-168.42	424.05	4.23	-168.42	424.05	-144.00	0.00
173	5/12/2020 18:31	5/12/2020 18:35	0:03:41	2.70	-167.34	424.16	-8.48	-159.41	425.74	-142.92	1.08
174	5/12/2020 18:50	5/12/2020 18:50	0:00:21	-46.31	-114.37	438.31	-46.87	-112.77	438.52	-143.22	0.78
175	5/12/2020 18:56	5/12/2020 18:56	0:00:00	-51.68	-76.30	440.27	-51.68	-76.30	440.27	-143.85	0.15
176	5/12/2020 19:02	5/12/2020 19:04	0:02:00	-45.06	-45.10	437.60	-40.97	-36.65	435.94	-143.82	0.18
177	5/12/2020 19:10	5/12/2020 19:10	0:00:20	-26.52	-18.12	430.37	-25.58	-17.21	430.04	-143.65	0.35
178	5/12/2020 19:16	5/12/2020 19:16	0:00:09	-7.88	-2.86	425.12	-7.37	-2.49	425.02	-143.98	0.02
179	5/12/2020 19:17	5/12/2020 19:22	0:05:00	-5.34	-1.04	424.66	9.90	9.80	423.36	-141.48	2.52
180	5/12/2020 19:27	5/12/2020 19:35	0:07:40	24.18	21.37	424.38	43.48	47.01	428.22	-142.14	1.86



**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)
181	5/12/2020 19:36	5/12/2020 19:36	0:00:00	46.01	53.00	428.84	46.01	53.00	428.84	-143.98	0.02
182	5/12/2020 19:38	5/12/2020 19:39	0:01:01	49.28	63.91	429.65	50.37	69.41	429.93	-143.87	0.13
183	5/12/2020 19:41	5/12/2020 19:41	0:00:41	51.45	78.06	430.21	51.70	82.01	430.28	-143.77	0.23
184	5/12/2020 20:00	5/12/2020 20:03	0:03:00	16.24	159.05	424.01	7.21	165.82	423.87	-143.19	0.81
185	5/12/2020 20:04	5/12/2020 20:08	0:03:59	3.15	168.72	424.09	-9.05	177.38	425.81	-142.95	1.05
186	5/12/2020 20:23	5/12/2020 20:24	0:01:20	-46.35	-137.90	438.26	-48.43	-131.29	439.05	-142.13	1.87
187	5/12/2020 20:29	5/12/2020 20:30	0:00:11	-51.68	-99.80	440.21	-51.63	-98.81	440.18	-143.89	0.11
188	5/12/2020 20:35	5/12/2020 20:37	0:02:00	-44.71	-67.88	437.40	-40.55	-59.54	435.72	-143.82	0.18
189	5/12/2020 20:43	5/12/2020 20:43	0:00:20	-25.99	-41.23	430.14	-25.05	-40.33	429.81	-143.66	0.34
190	5/12/2020 20:49	5/12/2020 20:50	0:00:20	-7.31	-26.07	424.97	-6.29	-25.34	424.78	-143.96	0.04
191	5/12/2020 20:50	5/12/2020 20:55	0:05:11	-4.77	-24.26	424.52	10.97	-13.03	423.34	-141.89	2.11
192	5/12/2020 21:00	5/12/2020 21:08	0:07:40	24.24	-2.20	424.38	43.53	23.47	428.24	-142.06	1.94
193	5/12/2020 21:34	5/12/2020 21:36	0:02:21	13.19	137.79	423.87	6.13	142.97	423.91	-143.25	0.75

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	5/11/2020 21:16	5/11/2020 22:04	0:47:01	-50.72	-95.39	439.80	50.25	75.73	430.00	-140.48	3.52
2	5/11/2020 22:06	5/11/2020 22:19	0:12:31	46.38	90.45	429.10	14.55	131.16	423.91	-141.25	2.75
3	5/11/2020 22:20	5/11/2020 22:26	0:05:50	10.04	134.55	423.82	-7.74	147.21	425.54	-140.85	3.15
4	5/11/2020 22:29	5/11/2020 22:38	0:09:31	-15.76	153.23	427.39	-41.23	-178.42	436.22	-139.04	4.96
5	5/11/2020 22:40	5/11/2020 22:52	0:11:31	-45.28	-169.90	437.79	-47.98	-106.31	438.64	-141.60	2.40
6	5/11/2020 22:55	5/11/2020 23:36	0:41:01	-42.91	-93.20	436.61	50.94	47.50	430.23	-140.49	3.51
7	5/11/2020 23:39	5/11/2020 23:52	0:13:29	47.69	62.86	429.49	13.98	107.96	423.94	-141.35	2.65
8	5/11/2020 23:54	5/12/2020 0:11	0:17:40	9.46	111.34	423.86	-40.91	157.39	436.08	-139.25	4.75
9	5/12/2020 0:13	5/12/2020 0:18	0:04:40	-45.01	165.82	437.67	-51.12	-169.88	439.95	-141.24	2.76
10	5/12/2020 0:21	5/12/2020 0:59	0:38:49	-51.69	-153.09	440.12	44.68	-26.78	428.64	-140.50	3.50
11	5/12/2020 1:02	5/12/2020 1:25	0:22:50	49.20	-12.84	429.77	13.42	84.76	423.86	-141.17	2.83
12	5/12/2020 1:27	5/12/2020 1:44	0:17:20	8.39	88.50	423.82	-40.95	133.84	436.13	-139.76	4.24
13	5/12/2020 1:46	5/12/2020 1:57	0:10:30	-44.73	141.54	437.62	-49.67	-160.35	439.46	-140.80	3.20
14	5/12/2020 2:01	5/12/2020 2:19	0:17:31	-41.04	-136.89	436.03	8.78	-91.11	423.52	-140.94	3.06
15	5/12/2020 2:38	5/12/2020 2:58	0:20:09	51.57	-20.27	430.31	12.85	61.56	423.67	-141.34	2.66
16	5/12/2020 3:00	5/12/2020 3:03	0:03:00	7.82	65.28	423.66	-1.33	71.77	424.34	-141.31	2.69
17	5/12/2020 3:11	5/12/2020 3:17	0:06:40	-23.74	89.07	429.66	-41.00	110.30	436.15	-140.38	3.62
18	5/12/2020 3:19	5/12/2020 4:02	0:43:20	-44.78	118.01	437.65	37.88	-86.60	427.03	-140.27	3.73
19	5/12/2020 4:05	5/12/2020 4:32	0:26:20	44.11	-75.33	428.45	12.29	38.36	423.50	-140.45	3.55
20	5/12/2020 4:33	5/12/2020 4:43	0:09:50	7.75	41.70	423.50	-21.88	63.78	428.93	-139.84	4.16
21	5/12/2020 4:52	5/12/2020 5:36	0:44:19	-44.50	93.73	437.44	39.89	-107.06	427.50	-140.02	3.98
22	5/12/2020 5:49	5/12/2020 6:05	0:15:20	49.19	-37.27	429.63	11.72	15.16	423.45	-141.31	2.69
23	5/12/2020 6:06	5/12/2020 6:11	0:04:29	7.18	18.49	423.48	-6.54	28.22	424.94	-141.33	2.67
24	5/12/2020 6:11	5/12/2020 6:23	0:12:00	-8.06	29.31	425.23	-41.10	63.21	436.03	-139.78	4.22
25	5/12/2020 6:25	5/12/2020 6:26	0:00:50	-44.86	70.95	437.53	-46.36	74.80	438.13	-142.09	1.91
26	5/12/2020 6:29	5/12/2020 7:13	0:43:50	-50.23	89.47	439.65	46.63	-116.25	429.03	-140.31	3.69
27	5/12/2020 7:27	5/12/2020 7:38	0:10:30	40.06	-37.89	427.44	11.15	-8.04	423.47	-141.30	2.70
28	5/12/2020 7:39	5/12/2020 7:44	0:04:31	6.61	-4.72	423.52	-7.12	5.00	425.07	-141.25	2.75
29	5/12/2020 7:45	5/12/2020 7:56	0:11:39	-9.65	6.84	425.58	-41.51	40.34	436.17	-140.14	3.86
30	5/12/2020 7:58	5/12/2020 8:00	0:01:40	-44.59	46.68	437.39	-47.49	54.52	438.54	-141.25	2.75
31	5/12/2020 8:16	5/12/2020 8:46	0:30:40	-35.70	136.83	433.90	47.99	-135.63	429.39	-140.26	3.74
32	5/12/2020 9:07	5/12/2020 9:11	0:04:19	23.39	-41.59	424.46	10.58	-31.24	423.57	-141.31	2.69
33	5/12/2020 9:12	5/12/2020 9:17	0:04:40	6.54	-28.30	423.64	-7.69	-18.21	425.29	-141.29	2.71
34	5/12/2020 9:18	5/12/2020 9:29	0:11:19	-10.72	-16.00	425.92	-41.56	16.80	436.26	-141.06	2.94
35	5/12/2020 9:31	5/12/2020 9:41	0:09:50	-44.63	23.15	437.48	-50.42	77.52	439.70	-139.99	4.01
36	5/12/2020 9:45	5/12/2020 9:58	0:12:01	-42.94	101.36	436.74	-10.67	136.87	425.80	-141.95	2.05
37	5/12/2020 10:00	5/12/2020 10:19	0:19:19	-2.57	142.69	424.33	48.26	-158.29	429.40	-140.31	3.69
38	5/12/2020 10:22	5/12/2020 10:44	0:21:51	51.21	-142.66	430.12	10.01	-54.45	423.63	-141.29	2.71
39	5/12/2020 10:45	5/12/2020 10:50	0:04:40	6.47	-51.88	423.71	-7.76	-41.79	425.41	-141.32	2.68
40	5/12/2020 10:51	5/12/2020 11:01	0:09:50	-11.29	-39.20	426.16	-38.58	-11.84	435.23	-141.55	2.45
41	5/12/2020 11:02	5/12/2020 11:03	0:00:50	-40.13	-9.35	435.84	-41.97	-6.06	436.57	-143.18	0.82
42	5/12/2020 11:04	5/12/2020 11:16	0:12:29	-44.67	-0.38	437.64	-46.93	68.02	438.42	-139.97	4.03
43	5/12/2020 11:20	5/12/2020 11:45	0:25:09	-40.75	81.87	435.92	31.37	146.84	425.43	-140.75	3.25
44	5/12/2020 11:47	5/12/2020 11:58	0:11:00	38.15	155.68	426.81	51.59	-148.30	430.05	-140.29	3.71
45	5/12/2020 12:01	5/12/2020 12:17	0:16:19	49.29	-132.18	429.53	8.93	-77.28	423.64	-141.28	2.72
46	5/12/2020 12:18	5/12/2020 12:23	0:05:00	6.90	-75.82	423.69	-8.34	-64.99	425.54	-141.32	2.68
47	5/12/2020 12:24	5/12/2020 12:34	0:09:31	-11.36	-62.77	426.19	-37.84	-36.59	434.94	-141.89	2.11
48	5/12/2020 12:35	5/12/2020 12:36	0:00:30	-40.93	-31.59	436.16	-42.02	-29.59	436.59	-143.78	0.22
49	5/12/2020 12:37	5/12/2020 12:37	0:00:19	-44.40	-24.64	437.53	-45.03	-23.15	437.78	-142.37	1.63
50	5/12/2020 13:02	5/12/2020 13:18	0:15:40	-15.04	86.30	426.77	31.43	123.29	425.44	-140.49	3.51
51	5/12/2020 13:33	5/12/2020 13:56	0:23:29	50.65	-163.05	429.88	-8.91	-88.20	425.73	-141.27	2.73
52	5/12/2020 13:57	5/12/2020 14:00	0:02:51	-11.43	-86.35	426.29	-19.85	-79.71	428.57	-143.05	0.95
53	5/12/2020 14:29	5/12/2020 14:44	0:14:20	-30.70	48.42	431.99	11.84	82.13	423.30	-140.25	3.75
54	5/12/2020 14:47	5/12/2020 15:30	0:42:50	20.26	88.80	423.81	-9.48	-111.41	425.89	-140.29	3.71
55	5/12/2020 15:30	5/12/2020 15:33	0:03:09	-10.99	-110.30	426.22	-20.40	-102.88	428.76	-143.02	0.98
56	5/12/2020 15:35	5/12/2020 15:39	0:03:50	-26.60	-97.24	430.81	-36.74	-85.45	434.59	-142.86	1.14
57	5/12/2020 15:42	5/12/2020 15:46	0:04:11	-43.16	-74.59	437.11	-49.85	-54.31	439.68	-139.83	4.17
58	5/12/2020 15:49	5/12/2020 16:01	0:11:49	-51.72	-37.99	440.35	-35.00	19.62	433.56	-141.88	2.12
59	5/12/2020 16:04	5/12/2020 16:25	0:21:20	-27.91	27.75	430.86	34.60	79.86	426.07	-139.99	4.01
60	5/12/2020 16:28	5/12/2020 17:05	0:37:39	41.37	90.13	427.58	-18.02	-128.48	428.04	-140.27	3.73
61	5/12/2020 17:09	5/12/2020 17:12	0:03:09	-28.05	-119.42	431.29	-36.38	-109.58	434.40	-143.17	0.83
62	5/12/2020 17:15	5/12/2020 17:15	0:00:20	-42.86	-98.82	436.92	-43.54	-97.41	437.19	-143.20	0.80

**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)
63	5/12/2020 17:30	5/12/2020 17:57	0:26:47	-43.40	-17.72	436.84	32.39	53.50	425.80	-139.70	4.30
64	5/12/2020 18:15	5/12/2020 18:38	0:23:50	47.08	141.26	429.33	-18.45	-151.77	428.21	-140.99	3.01
65	5/12/2020 18:42	5/12/2020 18:45	0:03:00	-28.45	-142.64	431.48	-36.33	-133.29	434.42	-143.22	0.78
66	5/12/2020 18:48	5/12/2020 18:50	0:02:21	-42.47	-123.24	436.82	-46.87	-112.77	438.52	-141.29	2.71
67	5/12/2020 18:53	5/12/2020 19:41	0:48:39	-50.52	-97.86	439.89	51.74	83.01	430.30	-139.55	4.45
68	5/12/2020 19:44	5/12/2020 20:12	0:27:19	51.02	99.82	430.17	-19.01	-174.94	428.33	-141.02	2.98
69	5/12/2020 20:15	5/12/2020 20:18	0:02:51	-28.51	-166.21	431.45	-35.97	-157.41	434.23	-143.06	0.94
70	5/12/2020 20:20	5/12/2020 20:24	0:03:30	-42.16	-147.47	436.64	-48.43	-131.29	439.05	-140.20	3.80
71	5/12/2020 20:27	5/12/2020 21:09	0:42:20	-51.28	-115.63	440.10	46.34	30.26	428.93	-139.96	4.04
72	5/12/2020 21:34	5/12/2020 21:45	0:11:00	13.19	137.79	423.87	-20.05	162.30	428.62	-141.01	2.99
73	5/12/2020 21:47	5/12/2020 21:51	0:03:09	-27.19	168.82	430.96	-35.61	178.47	434.05	-142.99	1.01
74	5/12/2020 21:53	5/12/2020 21:57	0:03:11	-42.21	-171.00	436.60	-47.98	-156.51	438.81	-140.18	3.82
75	5/12/2020 22:09	5/12/2020 22:43	0:33:49	-43.69	-89.22	436.90	47.47	9.99	429.26	-140.21	3.79
76	5/12/2020 22:54	5/12/2020 23:18	0:24:31	46.70	71.51	429.27	-21.08	139.56	428.94	-141.04	2.96
77	5/12/2020 23:20	5/12/2020 23:24	0:03:20	-26.78	144.80	430.81	-35.66	154.92	434.06	-142.97	1.03
78	5/12/2020 23:26	5/12/2020 23:27	0:01:10	-41.90	164.78	436.46	-44.29	169.71	437.39	-142.57	1.43
79	5/12/2020 23:45	5/13/2020 0:15	0:30:21	-36.51	-100.54	434.00	46.97	-15.17	429.19	-140.59	3.41
80	5/13/2020 0:38	5/13/2020 0:52	0:13:30	18.02	86.74	424.17	-22.59	117.25	429.40	-141.24	2.76
81	5/13/2020 1:11	5/13/2020 1:26	0:14:39	-49.72	-155.01	439.42	-15.14	-102.80	426.86	-141.73	2.27
82	5/13/2020 2:23	5/13/2020 2:25	0:02:29	-16.80	88.76	427.56	-24.08	94.97	429.81	-142.07	1.93
83	5/13/2020 2:26	5/13/2020 2:29	0:03:00	-26.91	97.66	430.78	-34.93	106.70	433.77	-143.07	0.93
84	5/13/2020 2:32	5/13/2020 2:33	0:01:11	-41.27	116.36	436.26	-43.72	121.19	437.23	-142.78	1.22
85	5/13/2020 2:44	5/13/2020 3:09	0:25:30	-50.06	179.65	439.71	16.71	-103.14	423.80	-141.17	2.83
86	5/13/2020 4:18	5/13/2020 4:50	0:31:59	-48.64	162.41	439.12	37.83	-104.73	427.05	-141.07	2.93
87	5/13/2020 5:10	5/13/2020 5:32	0:22:49	38.68	-6.43	427.17	-27.49	50.98	430.79	-141.42	2.58
88	5/13/2020 5:53	5/13/2020 6:27	0:34:41	-45.70	147.91	437.91	47.11	-109.27	429.17	-140.98	3.02
89	5/13/2020 6:40	5/13/2020 7:11	0:31:49	45.04	-42.24	428.64	-42.49	47.77	436.54	-141.52	2.48
90	5/13/2020 7:29	5/13/2020 8:02	0:32:40	-39.05	137.54	435.19	48.86	-126.84	429.62	-141.17	2.83
91	5/13/2020 8:20	5/13/2020 8:47	0:26:31	26.84	-39.25	424.96	-46.64	33.92	438.22	-141.51	2.49
92	5/13/2020 9:09	5/13/2020 9:35	0:26:10	-20.72	134.53	428.48	49.31	-148.57	429.72	-141.23	2.77
93	5/13/2020 9:58	5/13/2020 10:21	0:22:30	12.16	-50.45	423.67	-48.23	15.37	438.97	-139.71	4.29
94	5/13/2020 10:32	5/13/2020 11:05	0:33:21	-45.88	76.57	437.94	44.57	173.15	428.37	-141.31	2.69
95	5/13/2020 11:22	5/13/2020 11:53	0:31:30	37.66	-99.39	426.98	-48.03	-8.99	438.92	-139.52	4.48
96	5/13/2020 12:14	5/13/2020 12:28	0:13:10	-21.56	86.56	428.69	18.10	116.22	423.61	-141.78	2.22
97	5/13/2020 12:49	5/13/2020 13:06	0:16:19	48.45	-146.82	429.37	6.98	-93.90	423.74	-142.01	1.99
98	5/13/2020 13:09	5/13/2020 13:30	0:21:40	-1.67	-87.79	424.47	-51.62	-11.15	440.33	-139.28	4.72
99	5/13/2020 13:32	5/13/2020 13:45	0:13:10	-51.79	-3.21	440.38	-29.02	55.83	431.32	-141.78	2.22
100	5/13/2020 13:48	5/13/2020 14:13	0:25:00	-21.01	63.40	428.54	47.55	133.99	429.14	-141.60	2.40
101	5/13/2020 14:15	5/13/2020 14:52	0:37:00	50.88	149.28	429.99	-33.24	-84.43	433.24	-140.25	3.75
102	5/13/2020 14:55	5/13/2020 15:03	0:07:20	-40.18	-74.56	435.93	-51.33	-38.58	440.20	-139.60	4.40
103	5/13/2020 15:05	5/13/2020 15:38	0:32:31	-51.59	-21.75	440.25	30.50	80.57	449.93	-141.84	2.16
104	5/13/2020 15:41	5/13/2020 16:16	0:34:50	37.73	89.74	456.52	-3.50	-133.85	469.22	-142.30	1.70
105	5/13/2020 16:17	5/13/2020 16:30	0:12:51	-7.52	-130.99	468.00	-42.31	-94.47	457.15	-140.20	3.80
106	5/13/2020 16:33	5/13/2020 16:37	0:04:10	-47.53	-81.65	454.34	-51.61	-58.69	449.53	-140.16	3.84
107	5/13/2020 16:38	5/13/2020 17:17	0:38:29	-51.77	-49.75	447.60	43.22	75.54	462.04	-141.78	2.22
108	5/13/2020 17:20	5/13/2020 17:49	0:29:10	48.64	90.40	468.71	-3.45	-157.65	480.90	-142.78	1.22
109	5/13/2020 17:51	5/13/2020 17:53	0:02:21	-9.46	-153.35	482.35	-16.37	-148.11	484.45	-143.30	0.70
110	5/13/2020 17:54	5/13/2020 18:06	0:11:30	-18.80	-146.15	485.28	-46.82	-107.61	497.03	-140.78	3.22
111	5/13/2020 18:08	5/13/2020 18:10	0:01:31	-50.30	-93.86	498.51	-51.40	-85.38	498.96	-143.43	0.57
112	5/13/2020 18:13	5/13/2020 18:42	0:29:47	-51.62	-69.74	499.04	21.47	24.12	477.47	-142.78	1.22
113	5/13/2020 18:43	5/13/2020 18:50	0:06:41	23.37	25.80	477.80	40.57	46.60	482.26	-142.51	1.49
114	5/13/2020 19:07	5/13/2020 19:09	0:02:10	41.43	135.81	486.28	36.42	143.75	485.50	-143.11	0.89
115	5/13/2020 19:10	5/13/2020 19:24	0:13:41	35.18	145.42	485.31	-4.10	178.88	484.03	-142.94	1.06
116	5/13/2020 19:26	5/13/2020 19:28	0:02:10	-10.60	-176.44	485.08	-17.00	-171.54	486.45	-143.32	0.68
117	5/13/2020 19:29	5/13/2020 19:41	0:11:50	-20.38	-168.76	487.29	-48.17	-127.23	495.33	-141.02	2.98
118	5/13/2020 19:47	5/13/2020 20:36	0:48:50	-51.60	-93.36	495.25	50.44	85.02	487.29	-142.49	1.51
119	5/13/2020 20:47	5/13/2020 20:58	0:11:09	27.63	130.15	484.23	-5.22	155.76	484.16	-142.95	1.05
120	5/13/2020 21:00	5/13/2020 21:02	0:02:10	-11.70	160.46	485.27	-18.08	165.42	486.69	-143.29	0.71
121	5/13/2020 21:04	5/13/2020 21:15	0:11:40	-21.92	168.66	487.67	-48.68	-149.25	495.37	-141.20	2.80
122	5/13/2020 21:27	5/13/2020 22:00	0:33:10	-45.23	-88.10	491.52	44.20	5.90	483.50	-142.46	1.54
123	5/13/2020 22:00	5/13/2020 22:01	0:01:00	45.15	8.11	483.84	46.88	12.76	484.49	-143.05	0.95
124	5/13/2020 23:03	5/13/2020 23:24	0:21:10	-41.50	-104.11	489.69	18.42	-50.17	477.00	-142.77	1.23

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)
125	5/13/2020 23:24	5/13/2020 23:34	0:09:31	19.87	-48.97	477.20	43.95	-18.57	483.46	-142.43	1.57
126	5/13/2020 23:35	5/13/2020 23:35	0:00:30	45.81	-14.11	484.13	46.67	-11.77	484.45	-142.97	1.03
127	5/13/2020 23:56	5/14/2020 0:05	0:09:00	24.18	85.65	483.89	-2.44	105.97	483.83	-142.93	1.07
128	5/14/2020 0:42	5/14/2020 0:55	0:12:40	-28.64	-110.68	484.16	8.66	-81.56	476.38	-143.00	1.00
129	5/14/2020 1:23	5/14/2020 1:39	0:15:59	42.52	38.09	486.45	-1.54	81.43	483.61	-142.89	1.11
130	5/14/2020 1:44	5/14/2020 1:46	0:02:00	-15.48	91.62	486.01	-21.29	96.37	487.46	-143.31	0.69
131	5/14/2020 1:48	5/14/2020 1:52	0:03:39	-26.91	101.55	489.05	-36.49	112.67	491.99	-141.89	2.11
132	5/14/2020 2:04	5/14/2020 2:31	0:26:20	-51.20	175.73	495.08	14.23	-101.32	476.76	-142.76	1.24
133	5/14/2020 3:26	5/14/2020 3:35	0:09:29	-36.17	88.32	491.81	-51.51	132.52	495.88	-141.77	2.23
134	5/14/2020 3:38	5/14/2020 4:13	0:35:31	-51.59	147.20	495.38	37.22	-102.16	481.31	-142.44	1.56
135	5/14/2020 4:46	5/14/2020 4:50	0:03:59	2.25	30.93	483.02	-9.77	39.48	484.60	-142.94	1.06
136	5/14/2020 4:53	5/14/2020 4:54	0:00:30	-18.13	45.91	486.44	-19.58	47.10	486.81	-143.88	0.12
137	5/14/2020 4:54	5/14/2020 4:55	0:00:41	-21.98	49.15	487.45	-23.87	50.84	487.97	-143.91	0.09
138	5/14/2020 4:57	5/14/2020 4:57	0:00:00	-29.38	56.26	489.61	-29.38	56.26	489.61	-143.94	0.06
139	5/14/2020 5:14	5/14/2020 5:31	0:16:10	-49.49	138.49	493.96	-10.58	-167.00	478.63	-142.77	1.23
140	5/14/2020 6:05	5/14/2020 6:25	0:19:11	42.98	-34.57	486.27	-10.38	16.02	484.72	-142.99	1.01
141	5/14/2020 6:29	5/14/2020 6:30	0:01:00	-23.97	27.03	488.00	-26.76	29.67	488.81	-143.95	0.05
142	5/14/2020 6:31	5/14/2020 6:33	0:01:29	-29.93	32.94	489.76	-33.86	37.48	490.99	-142.94	1.06
143	5/14/2020 6:54	5/14/2020 7:24	0:30:30	-39.99	138.98	489.22	43.99	-138.05	483.45	-142.52	1.48
144	5/14/2020 7:26	5/14/2020 7:28	0:02:01	46.70	-131.24	484.42	49.53	-121.11	485.53	-142.46	1.54
145	5/14/2020 7:46	5/14/2020 7:59	0:13:10	27.83	-37.43	484.04	-10.99	-7.44	484.92	-142.99	1.01
146	5/14/2020 8:04	5/14/2020 8:10	0:05:50	-25.94	4.97	488.64	-40.71	23.60	493.18	-141.61	2.39
147	5/14/2020 8:33	5/14/2020 8:59	0:25:41	-27.22	131.22	483.68	44.38	-161.07	483.56	-142.56	1.44
148	5/14/2020 9:00	5/14/2020 9:03	0:03:11	46.20	-156.54	484.21	50.43	-140.26	485.94	-142.34	1.66
149	5/14/2020 9:25	5/14/2020 9:33	0:08:10	12.40	-48.12	482.92	-12.09	-30.53	485.27	-143.01	0.99
150	5/14/2020 9:39	5/14/2020 9:49	0:10:10	-26.97	-17.94	489.09	-49.07	21.02	495.62	-141.53	2.47
151	5/14/2020 10:19	5/14/2020 10:34	0:14:40	7.82	134.38	476.31	45.97	178.95	483.96	-142.59	1.41
152	5/14/2020 10:46	5/14/2020 11:08	0:21:30	45.93	-113.11	486.68	-12.70	-53.98	485.44	-143.00	1.00
153	5/14/2020 11:13	5/14/2020 11:23	0:10:01	-27.99	-40.83	489.44	-49.32	-1.81	495.73	-141.56	2.44
154	5/14/2020 11:34	5/14/2020 12:09	0:34:40	-43.97	59.65	491.18	47.92	160.84	484.59	-141.84	2.16
155	5/14/2020 12:25	5/14/2020 12:42	0:17:20	36.63	-119.56	485.25	-13.31	-77.43	485.64	-143.02	0.98
156	5/14/2020 12:48	5/14/2020 12:55	0:07:49	-28.99	-63.70	489.83	-46.75	-34.75	495.21	-141.76	2.24
157	5/14/2020 13:28	5/14/2020 14:17	0:48:50	9.05	87.45	476.24	-14.40	-100.50	485.96	-141.88	2.12
158	5/14/2020 14:22	5/14/2020 14:22	0:00:00	-29.99	-86.55	490.19	-29.99	-86.55	490.19	-143.88	0.12
159	5/14/2020 14:46	5/14/2020 15:17	0:31:00	-36.00	25.43	487.41	47.78	112.56	484.62	-142.25	1.75
160	5/14/2020 15:23	5/14/2020 15:30	0:06:50	51.75	144.34	486.92	43.86	-179.88	486.50	-143.27	0.73
161	5/14/2020 15:48	5/14/2020 15:51	0:03:30	-5.57	-130.92	484.32	-15.98	-123.19	486.34	-143.04	0.96
162	5/14/2020 15:57	5/14/2020 15:57	0:00:09	-30.97	-109.38	490.48	-31.41	-108.88	490.62	-143.78	0.22
163	5/14/2020 16:29	5/14/2020 16:42	0:13:10	-11.29	25.10	478.45	27.62	55.11	478.45	-142.79	1.21
164	5/14/2020 17:10	5/14/2020 17:20	0:10:19	30.37	176.43	484.56	0.34	-159.00	483.63	-143.10	0.90

**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	5/12/2020 2:24	5/12/2020 2:24	0:00:00	22.64	-80.11	424.32	22.64	-80.11	424.32	-143.99	0.01
2	5/12/2020 2:27	5/12/2020 2:28	0:01:00	31.46	-71.29	425.71	34.09	-68.15	426.22	-143.84	0.16
3	5/12/2020 2:29	5/12/2020 2:31	0:02:41	36.20	-65.38	426.66	42.37	-55.34	428.06	-142.83	1.17
4	5/12/2020 5:42	5/12/2020 5:43	0:01:00	49.48	-82.50	429.73	50.52	-76.97	429.98	-143.24	0.76
5	5/13/2020 1:39	5/13/2020 1:45	0:05:30	24.90	-72.47	424.59	39.31	-55.18	427.36	-143.27	0.73
6	5/13/2020 3:14	5/13/2020 3:19	0:05:39	29.60	-91.40	425.39	43.36	-71.39	428.27	-143.14	0.86
7	5/13/2020 4:56	5/13/2020 4:57	0:00:59	49.43	-77.16	429.74	50.49	-71.64	429.99	-143.45	0.55
8	5/13/2020 8:13	5/13/2020 8:14	0:00:10	43.36	-62.09	428.32	43.02	-61.38	428.23	-143.95	0.05
9	5/13/2020 9:46	5/13/2020 9:47	0:00:19	43.32	-85.62	428.34	42.63	-84.21	428.18	-143.93	0.07
10	5/13/2020 9:51	5/13/2020 9:51	0:00:09	32.22	-68.65	425.95	31.78	-68.13	425.86	-143.99	0.01

**Max. Exceedance 1.17 dB**

**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	5/12/2020 2:24	5/12/2020 2:31	0:07:40	22.64	-80.11	424.32	42.37	-55.34	428.06	-139.82	4.18
2	5/12/2020 5:41	5/12/2020 5:45	0:04:00	48.63	-86.04	429.53	51.76	-63.31	430.27	-140.23	3.77
3	5/12/2020 7:19	5/12/2020 7:23	0:03:21	51.61	-77.83	430.20	48.73	-59.01	429.49	-141.38	2.62
4	5/12/2020 8:55	5/12/2020 9:02	0:07:01	49.54	-86.07	429.77	36.02	-55.41	426.64	-141.05	2.95
5	5/13/2020 1:38	5/13/2020 1:45	0:06:31	22.03	-75.07	424.21	39.31	-55.18	427.36	-140.26	3.74
6	5/13/2020 3:14	5/13/2020 3:22	0:08:19	29.60	-91.40	425.39	48.07	-58.90	429.39	-140.13	3.87
7	5/13/2020 4:54	5/13/2020 4:58	0:04:10	46.80	-86.56	429.11	51.43	-63.94	430.21	-140.44	3.56
8	5/13/2020 8:09	5/13/2020 8:15	0:06:19	50.47	-85.35	430.01	39.74	-55.38	427.48	-140.93	3.07
9	5/13/2020 9:46	5/13/2020 9:53	0:07:10	44.31	-87.79	428.57	26.77	-62.81	425.00	-140.92	3.08
10	5/14/2020 0:59	5/14/2020 1:05	0:06:01	21.42	-71.56	477.54	37.45	-54.00	481.37	-141.30	2.70
11	5/14/2020 2:35	5/14/2020 2:44	0:09:09	26.69	-90.63	478.59	47.57	-56.82	484.74	-141.30	2.70
12	5/14/2020 4:17	5/14/2020 4:22	0:04:31	46.29	-84.57	484.28	51.41	-60.64	486.48	-141.57	2.43
13	5/14/2020 5:35	5/14/2020 5:41	0:06:31	1.96	-158.07	476.75	21.25	-143.44	477.62	-141.83	2.17
14	5/14/2020 5:56	5/14/2020 6:00	0:04:01	51.58	-82.39	486.57	50.54	-59.07	487.16	-142.24	1.76
15	5/14/2020 7:34	5/14/2020 7:41	0:07:00	51.15	-87.48	487.18	40.41	-53.67	485.92	-142.00	2.00
16	5/14/2020 9:13	5/14/2020 9:20	0:07:20	44.48	-85.62	486.59	26.81	-60.32	483.97	-141.92	2.08
17	5/14/2020 15:34	5/14/2020 15:43	0:08:49	34.38	-164.38	485.10	9.47	-141.59	483.10	-142.01	1.99
18	5/15/2020 0:31	5/15/2020 0:36	0:05:30	21.60	-70.06	477.34	36.39	-54.17	480.79	-141.93	2.07
19	5/15/2020 2:07	5/15/2020 2:16	0:09:09	25.94	-90.01	478.20	47.15	-56.79	484.32	-141.76	2.24
20	5/15/2020 3:49	5/15/2020 3:54	0:04:31	45.82	-84.47	483.84	51.27	-60.85	486.13	-142.02	1.98
21	5/15/2020 5:28	5/15/2020 5:32	0:03:50	51.46	-82.61	486.23	50.90	-60.17	486.93	-142.22	1.78
22	5/15/2020 6:45	5/15/2020 6:53	0:08:00	13.27	-172.43	476.49	35.52	-150.98	480.54	-141.99	2.01
23	5/15/2020 7:06	5/15/2020 7:12	0:06:41	51.21	-86.71	486.94	41.36	-54.00	485.91	-142.19	1.81
24	5/15/2020 8:44	5/15/2020 8:52	0:07:30	45.28	-86.19	486.52	27.54	-59.70	483.98	-141.79	2.21
25	5/15/2020 10:25	5/15/2020 10:28	0:03:11	30.15	-86.33	484.27	21.35	-77.85	483.34	-141.91	2.09
26	5/15/2020 15:06	5/15/2020 15:14	0:08:41	34.62	-163.34	485.01	10.26	-140.82	483.10	-141.78	2.22
27	5/16/2020 0:03	5/16/2020 0:08	0:04:40	22.28	-68.11	477.23	34.91	-54.79	480.10	-142.00	2.00
28	5/16/2020 1:38	5/16/2020 1:48	0:09:10	25.75	-88.83	477.74	47.05	-55.76	484.01	-142.13	1.87
29	5/16/2020 3:21	5/16/2020 3:25	0:04:40	45.45	-84.06	483.44	51.24	-59.72	485.80	-142.38	1.62
30	5/16/2020 5:00	5/16/2020 5:04	0:03:50	51.37	-82.28	485.86	51.03	-59.83	486.50	-142.13	1.87
31	5/16/2020 6:16	5/16/2020 6:24	0:08:09	12.81	-171.41	475.84	35.56	-149.57	480.23	-141.79	2.21
32	5/16/2020 6:37	5/16/2020 6:44	0:06:40	51.30	-86.23	486.52	41.69	-53.24	485.24	-142.29	1.71
33	5/16/2020 8:16	5/16/2020 8:24	0:07:31	45.51	-85.39	485.94	27.89	-58.67	482.97	-142.00	2.00
34	5/16/2020 9:57	5/16/2020 10:00	0:03:31	30.41	-85.24	483.32	20.67	-75.89	482.06	-141.74	2.26
35	5/16/2020 14:38	5/16/2020 14:46	0:08:30	34.25	-161.46	484.07	10.31	-139.45	481.65	-141.74	2.26
36	5/16/2020 23:35	5/16/2020 23:39	0:03:39	24.56	-64.60	477.17	34.42	-53.99	479.62	-141.81	2.19

**Max. Exceedance: 4.18 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	5/11/2020 21:16	5/11/2020 21:17	0:00:10	-50.72	-95.39	439.80	-50.57	-94.45	439.75	-143.06	0.94
2	5/11/2020 21:18	5/11/2020 21:19	0:01:11	-49.36	-88.02	439.26	-47.77	-81.96	438.63	-143.56	0.44
3	5/11/2020 21:21	5/11/2020 21:27	0:06:20	-44.62	-73.27	437.36	-29.55	-50.43	431.43	-143.19	0.81
4	5/11/2020 21:29	5/11/2020 21:30	0:00:59	-25.39	-46.25	429.94	-22.54	-43.63	428.97	-143.95	0.05
5	5/11/2020 22:04	5/11/2020 22:15	0:10:59	49.90	77.58	429.92	26.19	121.18	425.05	-142.19	1.81
6	5/11/2020 22:48	5/11/2020 22:50	0:01:31	-51.46	-125.65	440.04	-50.40	-117.01	439.61	-143.06	0.94
7	5/11/2020 22:51	5/11/2020 22:52	0:01:00	-49.12	-110.64	439.10	-47.73	-105.47	438.54	-143.58	0.42
8	5/11/2020 22:54	5/11/2020 23:00	0:06:40	-44.57	-96.80	437.27	-28.58	-73.04	431.01	-143.19	0.81
9	5/11/2020 23:02	5/11/2020 23:03	0:01:09	-25.33	-69.81	429.86	-21.99	-66.77	428.74	-143.94	0.06
10	5/11/2020 23:37	5/11/2020 23:48	0:11:00	49.69	54.99	429.95	25.66	98.06	425.04	-142.19	1.81
11	5/12/2020 0:21	5/12/2020 0:23	0:01:31	-51.45	-149.15	440.02	-50.38	-140.52	439.59	-143.05	0.95
12	5/12/2020 0:24	5/12/2020 0:25	0:01:09	-49.09	-134.15	439.08	-47.44	-128.16	438.42	-143.58	0.42
13	5/12/2020 0:27	5/12/2020 0:34	0:06:40	-44.21	-119.59	437.12	-28.06	-96.13	430.84	-143.19	0.81
14	5/12/2020 0:35	5/12/2020 0:36	0:01:11	-24.79	-92.94	429.69	-21.44	-89.93	428.59	-143.93	0.07
15	5/12/2020 1:10	5/12/2020 1:21	0:11:10	49.66	31.48	429.99	25.13	74.94	424.93	-142.18	1.82
16	5/12/2020 1:55	5/12/2020 1:56	0:01:19	-51.35	-171.68	440.12	-50.36	-164.03	439.73	-143.04	0.96
17	5/12/2020 1:57	5/12/2020 1:58	0:01:01	-48.85	-156.79	439.14	-47.40	-151.69	438.57	-143.59	0.41
18	5/12/2020 2:00	5/12/2020 2:07	0:06:50	-44.17	-143.13	437.28	-27.54	-119.23	430.85	-143.18	0.82
19	5/12/2020 2:08	5/12/2020 2:09	0:01:09	-24.26	-116.07	429.70	-20.90	-113.09	428.61	-143.92	0.08
20	5/12/2020 2:43	5/12/2020 2:54	0:11:10	49.64	7.96	429.87	25.07	51.36	424.76	-142.16	1.84
21	5/12/2020 3:28	5/12/2020 3:29	0:01:29	-51.34	164.82	440.23	-50.18	173.39	439.79	-143.03	0.97
22	5/12/2020 3:30	5/12/2020 3:31	0:01:11	-48.82	179.70	439.26	-47.11	-174.39	438.60	-143.60	0.40
23	5/12/2020 3:33	5/12/2020 3:40	0:06:50	-43.80	-165.94	437.29	-27.02	-142.34	430.83	-143.19	0.81
24	5/12/2020 3:41	5/12/2020 3:42	0:01:11	-23.72	-139.21	429.69	-20.36	-136.25	428.60	-143.92	0.08
25	5/12/2020 4:16	5/12/2020 4:27	0:11:10	49.42	-14.66	429.68	24.54	28.23	424.51	-142.14	1.86
26	5/12/2020 5:00	5/12/2020 5:02	0:01:31	-51.33	141.32	440.15	-50.16	149.89	439.71	-143.02	0.98
27	5/12/2020 5:03	5/12/2020 5:04	0:01:10	-48.79	156.18	439.19	-47.07	162.09	438.52	-143.60	0.40
28	5/12/2020 5:06	5/12/2020 5:13	0:07:10	-43.75	170.53	437.22	-26.02	-165.00	430.46	-143.18	0.82
29	5/12/2020 5:14	5/12/2020 5:15	0:01:09	-23.18	-162.35	429.50	-19.80	-159.41	428.42	-143.91	0.09
30	5/12/2020 5:49	5/12/2020 6:00	0:11:19	49.40	-38.17	429.68	24.00	5.11	424.42	-142.18	1.82
31	5/12/2020 6:33	5/12/2020 6:35	0:01:31	-51.32	117.82	440.09	-50.14	126.38	439.64	-143.01	0.99
32	5/12/2020 6:36	5/12/2020 6:37	0:00:59	-48.54	133.54	439.03	-47.04	138.57	438.45	-143.62	0.38
33	5/12/2020 6:39	5/12/2020 6:47	0:07:10	-43.37	147.71	437.02	-25.49	171.89	430.23	-143.18	0.82
34	5/12/2020 6:47	5/12/2020 6:49	0:01:20	-22.64	174.51	429.28	-18.76	177.83	428.07	-143.90	0.10
35	5/12/2020 7:22	5/12/2020 7:34	0:11:30	49.37	-61.67	429.65	23.46	-18.03	424.36	-142.21	1.79
36	5/12/2020 8:07	5/12/2020 8:08	0:01:29	-51.21	95.30	439.98	-49.94	103.80	439.49	-142.99	1.01
37	5/12/2020 8:09	5/12/2020 8:11	0:01:10	-48.51	110.03	438.94	-46.73	115.87	438.25	-143.62	0.38
38	5/12/2020 8:12	5/12/2020 8:20	0:07:19	-43.33	124.18	436.91	-24.96	148.77	429.95	-143.17	0.83
39	5/12/2020 8:21	5/12/2020 8:22	0:01:20	-22.10	151.37	429.01	-18.21	154.66	427.82	-143.89	0.11
40	5/12/2020 8:55	5/12/2020 9:07	0:11:30	49.14	-84.28	429.67	22.92	-41.16	424.40	-142.20	1.80
41	5/12/2020 9:40	5/12/2020 9:41	0:01:29	-51.19	71.80	440.00	-49.91	80.30	439.50	-142.99	1.01
42	5/12/2020 9:42	5/12/2020 9:44	0:01:01	-48.24	87.38	438.85	-46.69	92.35	438.23	-143.63	0.37
43	5/12/2020 9:45	5/12/2020 9:53	0:07:21	-42.94	101.36	436.74	-24.42	125.64	429.71	-143.17	0.83
44	5/12/2020 9:54	5/12/2020 9:55	0:01:19	-21.55	128.22	428.76	-17.65	131.49	427.58	-143.88	0.12
45	5/12/2020 10:28	5/12/2020 10:40	0:11:41	49.11	-107.78	429.65	22.37	-64.30	424.37	-142.20	1.80
46	5/12/2020 11:13	5/12/2020 11:14	0:01:29	-51.18	48.30	440.11	-49.89	56.79	439.60	-142.98	1.02
47	5/12/2020 11:15	5/12/2020 11:17	0:01:10	-48.21	63.86	438.93	-46.37	69.62	438.19	-143.63	0.37
48	5/12/2020 11:19	5/12/2020 11:26	0:07:19	-42.55	78.51	436.65	-23.88	102.51	429.51	-143.17	0.83
49	5/12/2020 11:27	5/12/2020 11:28	0:01:21	-21.00	105.07	428.56	-17.09	108.31	427.38	-143.87	0.13
50	5/12/2020 12:01	5/12/2020 12:13	0:11:50	49.08	-131.29	429.48	21.82	-87.44	424.26	-142.20	1.80
51	5/12/2020 12:46	5/12/2020 12:47	0:01:40	-51.16	24.81	440.09	-49.68	34.20	439.51	-142.97	1.03
52	5/12/2020 12:49	5/12/2020 12:50	0:01:10	-47.93	41.20	438.81	-46.04	46.89	438.05	-143.64	0.36
53	5/12/2020 12:52	5/12/2020 12:59	0:07:40	-42.50	54.99	436.62	-22.86	79.81	429.14	-143.16	0.84
54	5/12/2020 13:00	5/12/2020 13:01	0:01:29	-20.94	81.50	428.51	-16.53	85.13	427.18	-143.87	0.13
55	5/12/2020 13:35	5/12/2020 13:46	0:11:50	48.83	-153.91	429.46	21.27	-110.59	424.26	-142.20	1.80
56	5/12/2020 14:19	5/12/2020 14:20	0:01:40	-51.15	1.32	440.16	-49.65	10.70	439.56	-142.97	1.03
57	5/12/2020 14:22	5/12/2020 14:23	0:01:10	-47.90	17.69	438.86	-46.00	23.37	438.10	-143.65	0.35
58	5/12/2020 14:25	5/12/2020 14:32	0:07:40	-42.10	32.13	436.51	-22.32	56.67	428.99	-143.16	0.84
59	5/12/2020 14:33	5/12/2020 14:35	0:01:20	-19.90	58.75	428.22	-15.97	61.95	427.05	-143.88	0.12
60	5/12/2020 15:08	5/12/2020 15:19	0:11:50	48.80	-177.42	429.55	21.21	-134.17	424.34	-142.19	1.81

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)
61	5/12/2020 15:52	5/12/2020 15:53	0:01:31	-51.02	-21.22	440.03	-49.63	-12.81	439.47	-142.95	1.05
62	5/12/2020 15:55	5/12/2020 15:56	0:01:10	-47.61	-4.99	438.66	-45.67	0.62	437.87	-143.65	0.35
63	5/12/2020 15:58	5/12/2020 16:06	0:07:51	-42.05	8.60	436.40	-21.77	33.52	428.73	-143.16	0.84
64	5/12/2020 16:07	5/12/2020 16:08	0:01:29	-19.35	35.59	427.96	-14.91	39.15	426.69	-143.88	0.12
65	5/12/2020 16:41	5/12/2020 16:52	0:11:59	48.77	159.07	429.58	20.66	-157.32	424.33	-142.20	1.80
66	5/12/2020 17:25	5/12/2020 17:26	0:01:40	-51.01	-44.72	439.92	-49.41	-35.42	439.27	-142.93	1.07
67	5/12/2020 17:28	5/12/2020 17:29	0:01:10	-47.58	-28.51	438.54	-45.63	-22.90	437.75	-143.66	0.34
68	5/12/2020 17:31	5/12/2020 17:39	0:07:49	-41.65	-14.27	436.13	-21.23	10.37	428.47	-143.15	0.85
69	5/12/2020 17:40	5/12/2020 17:41	0:01:31	-18.79	12.42	427.71	-14.34	15.96	426.46	-143.88	0.12
70	5/12/2020 17:57	5/12/2020 17:57	0:00:00	32.39	53.50	425.80	32.39	53.50	425.80	-141.56	2.44
71	5/12/2020 18:14	5/12/2020 18:26	0:12:11	48.58	136.20	429.67	19.75	179.82	424.32	-142.22	1.78
72	5/12/2020 18:58	5/12/2020 18:59	0:01:40	-51.03	-68.48	439.99	-49.44	-59.16	439.36	-142.94	1.06
73	5/12/2020 19:01	5/12/2020 19:02	0:01:10	-47.36	-51.42	438.52	-45.37	-45.86	437.72	-143.66	0.34
74	5/12/2020 19:04	5/12/2020 19:12	0:07:51	-41.34	-37.31	436.09	-20.81	-12.90	428.46	-143.15	0.85
75	5/12/2020 19:13	5/12/2020 19:14	0:01:29	-18.37	-10.86	427.71	-13.91	-7.34	426.48	-143.88	0.12
76	5/12/2020 19:47	5/12/2020 19:59	0:12:20	48.55	112.68	429.62	19.20	156.65	424.23	-142.24	1.76
77	5/12/2020 20:31	5/12/2020 20:33	0:01:40	-50.89	-91.02	439.88	-49.21	-81.78	439.21	-142.93	1.07
78	5/12/2020 20:34	5/12/2020 20:35	0:01:11	-47.06	-74.12	438.35	-45.03	-68.63	437.53	-143.66	0.34
79	5/12/2020 20:37	5/12/2020 20:45	0:08:11	-41.29	-60.85	436.02	-19.77	-35.65	428.09	-143.14	0.86
80	5/12/2020 20:46	5/12/2020 20:47	0:01:31	-17.81	-34.03	427.50	-13.35	-30.53	426.30	-143.88	0.12
81	5/12/2020 21:20	5/12/2020 21:32	0:12:20	48.29	90.03	429.55	18.64	133.49	424.19	-142.25	1.75
82	5/12/2020 22:04	5/12/2020 22:06	0:01:40	-50.87	-114.52	439.79	-49.19	-105.29	439.11	-142.94	1.06
83	5/12/2020 22:07	5/12/2020 22:08	0:01:10	-47.03	-97.64	438.24	-44.98	-92.16	437.42	-143.67	0.33
84	5/12/2020 22:10	5/12/2020 22:18	0:08:10	-40.87	-83.73	435.76	-19.22	-58.81	427.85	-143.13	0.87
85	5/12/2020 22:19	5/12/2020 22:21	0:01:29	-17.25	-57.21	427.27	-12.78	-53.73	426.09	-143.89	0.11
86	5/12/2020 22:53	5/12/2020 23:05	0:12:29	48.26	66.52	429.63	18.09	110.31	424.20	-142.26	1.74
87	5/12/2020 23:37	5/12/2020 23:39	0:01:49	-50.86	-138.02	439.75	-48.94	-127.92	438.99	-142.92	1.08
88	5/12/2020 23:40	5/12/2020 23:41	0:01:09	-46.71	-120.35	438.09	-44.62	-114.94	437.25	-143.67	0.33
89	5/12/2020 23:43	5/12/2020 23:52	0:08:11	-40.45	-106.63	435.57	-18.66	-81.98	427.69	-143.12	0.88
90	5/12/2020 23:52	5/12/2020 23:54	0:01:31	-16.20	-80.00	426.99	-11.71	-76.55	425.85	-143.90	0.10
91	5/13/2020 0:26	5/13/2020 0:38	0:12:31	47.98	43.86	429.60	17.53	87.14	424.14	-142.25	1.75
92	5/13/2020 1:10	5/13/2020 1:12	0:01:49	-50.84	-161.53	439.86	-48.91	-151.44	439.10	-142.91	1.09
93	5/13/2020 1:13	5/13/2020 1:14	0:01:10	-46.68	-143.88	438.21	-44.58	-138.47	437.38	-143.67	0.33
94	5/13/2020 1:16	5/13/2020 1:25	0:08:21	-40.40	-130.17	435.70	-18.11	-105.16	427.69	-143.13	0.87
95	5/13/2020 1:26	5/13/2020 1:27	0:01:29	-15.64	-103.19	427.00	-11.14	-99.76	425.88	-143.91	0.09
96	5/13/2020 1:59	5/13/2020 2:12	0:12:40	47.95	20.33	429.54	16.97	63.95	423.95	-142.25	1.75
97	5/13/2020 2:43	5/13/2020 2:45	0:01:40	-50.69	175.91	439.95	-48.89	-174.95	439.26	-142.90	1.10
98	5/13/2020 2:46	5/13/2020 2:48	0:01:10	-46.36	-166.61	438.27	-44.22	-161.27	437.42	-143.68	0.32
99	5/13/2020 2:50	5/13/2020 2:58	0:08:19	-39.97	-153.08	435.73	-17.56	-128.34	427.72	-143.13	0.87
100	5/13/2020 2:59	5/13/2020 3:00	0:01:31	-15.08	-126.38	427.03	-10.58	-122.97	425.93	-143.93	0.07
101	5/13/2020 3:32	5/13/2020 3:45	0:12:51	47.92	-3.20	429.35	16.42	40.77	423.72	-142.23	1.77
102	5/13/2020 4:16	5/13/2020 4:18	0:01:50	-50.67	152.41	439.89	-48.64	162.41	439.12	-142.92	1.08
103	5/13/2020 4:19	5/13/2020 4:21	0:01:20	-46.32	169.87	438.22	-43.85	175.92	437.25	-143.68	0.32
104	5/13/2020 4:23	5/13/2020 4:31	0:08:30	-39.54	-176.00	435.54	-16.51	-151.13	427.45	-143.13	0.87
105	5/13/2020 4:32	5/13/2020 4:33	0:01:20	-14.02	-149.19	426.78	-10.01	-146.18	425.84	-143.94	0.06
106	5/13/2020 5:05	5/13/2020 5:18	0:12:49	47.64	-25.88	429.28	15.86	17.58	423.64	-142.24	1.76
107	5/13/2020 5:49	5/13/2020 5:51	0:01:50	-50.65	128.91	439.81	-48.61	138.89	439.04	-142.91	1.09
108	5/13/2020 5:53	5/13/2020 5:54	0:01:10	-46.00	147.13	438.02	-43.81	152.39	437.16	-143.68	0.32
109	5/13/2020 5:56	5/13/2020 6:04	0:08:30	-39.11	161.08	435.31	-15.95	-174.31	427.25	-143.12	0.88
110	5/13/2020 6:05	5/13/2020 6:07	0:01:20	-13.46	-172.38	426.61	-9.44	-169.38	425.68	-143.95	0.05
111	5/13/2020 6:38	5/13/2020 6:51	0:13:00	47.60	-49.39	429.25	15.30	-5.60	423.61	-142.26	1.74
112	5/13/2020 7:22	5/13/2020 7:24	0:01:50	-50.49	106.35	439.67	-48.35	116.25	438.85	-142.93	1.07
113	5/13/2020 7:26	5/13/2020 7:27	0:01:19	-45.96	123.62	437.92	-43.43	129.58	436.92	-143.68	0.32
114	5/13/2020 7:29	5/13/2020 7:38	0:08:39	-39.05	137.54	435.19	-15.38	162.51	427.02	-143.11	0.89
115	5/13/2020 7:39	5/13/2020 7:40	0:01:09	-12.39	164.80	426.26	-8.87	167.41	425.48	-143.95	0.05
116	5/13/2020 8:11	5/13/2020 8:24	0:13:10	47.31	-72.07	429.25	14.23	-28.40	423.67	-142.28	1.72
117	5/13/2020 8:55	5/13/2020 8:57	0:01:50	-50.46	82.85	439.66	-48.31	92.74	438.82	-142.92	1.08
118	5/13/2020 8:59	5/13/2020 9:00	0:01:20	-45.62	100.87	437.75	-43.04	106.76	436.73	-143.68	0.32
119	5/13/2020 9:02	5/13/2020 9:11	0:08:41	-38.61	114.61	434.96	-14.82	139.32	426.79	-143.11	0.89
120	5/13/2020 9:12	5/13/2020 9:13	0:01:10	-11.82	141.61	426.05	-8.29	144.20	425.29	-143.96	0.04



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)
121	5/13/2020 9:44	5/13/2020 9:58	0:13:20	47.27	-95.58	429.27	13.66	-51.59	423.72	-142.29	1.71
122	5/13/2020 10:28	5/13/2020 10:30	0:01:50	-50.44	59.35	439.76	-48.28	69.22	438.90	-142.94	1.06
123	5/13/2020 10:32	5/13/2020 10:33	0:01:20	-45.28	78.10	437.70	-42.65	83.92	436.64	-143.68	0.32
124	5/13/2020 10:35	5/13/2020 10:44	0:08:50	-38.16	91.67	434.84	-13.76	116.51	426.46	-143.10	0.90
125	5/13/2020 10:45	5/13/2020 10:46	0:00:59	-10.75	118.77	425.74	-7.72	120.99	425.10	-143.97	0.03
126	5/13/2020 11:17	5/13/2020 11:31	0:13:19	46.96	-118.28	429.08	13.10	-74.78	423.69	-142.30	1.70
127	5/13/2020 12:01	5/13/2020 12:03	0:02:01	-50.42	35.85	439.77	-48.01	46.56	438.81	-142.93	1.07
128	5/13/2020 12:05	5/13/2020 12:06	0:01:19	-45.24	54.58	437.70	-42.60	60.39	436.63	-143.67	0.33
129	5/13/2020 12:08	5/13/2020 12:17	0:09:00	-38.11	68.13	434.82	-13.19	93.32	426.28	-143.09	0.91
130	5/13/2020 12:18	5/13/2020 12:19	0:01:01	-10.18	95.57	425.57	-7.15	97.78	424.94	-143.98	0.02
131	5/13/2020 12:50	5/13/2020 13:04	0:13:31	46.93	-141.79	429.02	12.52	-97.98	423.70	-142.31	1.69
132	5/13/2020 13:34	5/13/2020 13:36	0:01:49	-50.24	13.28	439.75	-47.97	23.05	438.85	-142.92	1.08
133	5/13/2020 13:38	5/13/2020 13:39	0:01:20	-44.88	31.81	437.60	-42.20	37.54	436.52	-143.68	0.32
134	5/13/2020 13:41	5/13/2020 13:50	0:09:00	-37.65	45.18	434.68	-12.62	70.12	426.15	-143.09	0.91
135	5/13/2020 13:52	5/13/2020 13:52	0:00:41	-9.10	72.73	425.35	-7.08	74.20	424.94	-143.99	0.01
136	5/13/2020 14:24	5/13/2020 14:37	0:13:40	46.61	-164.51	429.09	11.45	-120.81	423.78	-142.32	1.68
137	5/13/2020 15:05	5/13/2020 15:05	0:00:11	-51.69	-23.73	440.30	-51.65	-22.74	440.27	-143.48	0.52
138	5/13/2020 15:06	5/13/2020 15:23	0:17:39	-51.45	-19.79	440.19	-12.52	46.58	429.55	-143.09	0.91
139	5/13/2020 15:58	5/13/2020 16:01	0:03:01	43.90	178.55	481.18	37.32	-169.83	480.77	-143.60	0.40
140	5/13/2020 16:07	5/13/2020 16:08	0:01:39	22.72	-153.61	477.41	17.92	-149.54	475.97	-143.31	0.69
141	5/13/2020 16:41	5/13/2020 16:43	0:01:51	-50.10	-33.32	443.77	-47.76	-23.61	441.23	-142.99	1.01
142	5/13/2020 16:45	5/13/2020 16:46	0:01:21	-44.28	-14.18	438.50	-41.52	-8.57	436.76	-143.69	0.31
143	5/13/2020 16:48	5/13/2020 16:57	0:09:01	-36.87	-1.09	434.35	-11.61	23.50	429.47	-143.09	0.91
144	5/13/2020 17:25	5/13/2020 17:27	0:02:11	51.69	120.77	477.12	50.38	133.22	479.26	-143.96	0.04
145	5/13/2020 17:41	5/13/2020 17:42	0:01:29	21.83	-176.59	479.06	17.49	-172.95	478.91	-143.36	0.64
146	5/13/2020 19:07	5/13/2020 19:09	0:02:11	42.83	133.12	486.49	38.02	141.43	485.75	-143.67	0.33
147	5/13/2020 19:15	5/13/2020 19:17	0:01:29	21.18	160.05	483.56	16.83	163.65	483.25	-143.45	0.55
148	5/13/2020 19:50	5/13/2020 19:50	0:00:00	-48.95	-75.71	493.54	-48.95	-75.71	493.54	-143.98	0.02
149	5/13/2020 20:41	5/13/2020 20:43	0:02:10	42.41	110.05	486.39	37.54	118.24	485.64	-143.68	0.32
150	5/13/2020 20:49	5/13/2020 20:51	0:01:29	20.60	136.64	483.49	16.24	140.21	483.20	-143.47	0.53
151	5/13/2020 21:24	5/13/2020 21:24	0:00:00	-48.90	-99.42	493.42	-48.90	-99.42	493.42	-143.98	0.02
152	5/13/2020 22:15	5/13/2020 22:17	0:02:19	42.33	86.29	486.43	37.05	95.05	485.62	-143.66	0.34
153	5/13/2020 22:24	5/13/2020 22:25	0:01:29	20.01	113.23	483.50	15.64	116.77	483.23	-143.48	0.52
154	5/13/2020 22:59	5/13/2020 22:59	0:00:00	-48.63	-122.28	493.26	-48.63	-122.28	493.26	-144.00	0.00
155	5/13/2020 23:49	5/13/2020 23:52	0:02:10	41.90	63.20	486.41	36.95	71.26	485.64	-143.66	0.34
156	5/13/2020 23:58	5/14/2020 0:00	0:01:31	19.42	89.81	483.45	15.03	93.33	483.20	-143.50	0.50
157	5/14/2020 0:33	5/14/2020 0:33	0:00:00	-48.57	-146.00	493.34	-48.57	-146.00	493.34	-143.99	0.01
158	5/14/2020 1:24	5/14/2020 1:26	0:02:19	41.82	39.44	486.34	36.46	48.05	485.49	-143.67	0.33
159	5/14/2020 1:33	5/14/2020 1:34	0:01:20	18.34	66.78	483.27	14.43	69.88	483.06	-143.51	0.49
160	5/14/2020 2:07	5/14/2020 2:07	0:00:00	-48.52	-169.72	493.51	-48.52	-169.72	493.51	-143.99	0.01
161	5/14/2020 2:58	5/14/2020 3:00	0:02:19	41.38	16.33	486.06	35.96	24.82	485.20	-143.66	0.34
162	5/14/2020 3:07	5/14/2020 3:08	0:01:19	17.75	43.35	483.03	13.83	46.43	482.84	-143.50	0.50
163	5/14/2020 4:32	5/14/2020 4:35	0:02:29	41.31	-7.44	486.02	35.46	1.59	485.08	-143.65	0.35
164	5/14/2020 4:41	5/14/2020 4:43	0:01:20	17.16	19.92	482.93	13.23	22.98	482.76	-143.49	0.51
165	5/14/2020 6:06	5/14/2020 6:09	0:02:30	40.86	-30.55	485.94	34.95	-21.65	484.99	-143.65	0.35
166	5/14/2020 6:16	5/14/2020 6:17	0:01:31	16.56	-3.51	482.90	12.13	-0.10	482.74	-143.50	0.50
167	5/14/2020 7:41	5/14/2020 7:43	0:02:30	40.78	-54.31	485.98	34.85	-45.43	485.05	-143.65	0.35
168	5/14/2020 7:50	5/14/2020 7:51	0:01:29	15.96	-26.95	482.96	11.52	-23.56	482.83	-143.52	0.48
169	5/14/2020 9:15	5/14/2020 9:17	0:02:30	40.32	-77.43	485.95	34.34	-68.68	485.02	-143.64	0.36
170	5/14/2020 9:24	5/14/2020 9:26	0:01:29	15.36	-50.39	483.01	10.92	-47.01	482.91	-143.52	0.48
171	5/14/2020 10:49	5/14/2020 10:52	0:02:40	40.24	-101.20	485.86	33.82	-91.94	484.88	-143.63	0.37
172	5/14/2020 10:59	5/14/2020 11:00	0:01:21	14.26	-73.45	482.96	10.30	-70.47	482.91	-143.52	0.48
173	5/14/2020 12:23	5/14/2020 12:26	0:02:39	39.77	-124.33	485.72	33.29	-115.20	484.76	-143.62	0.38
174	5/14/2020 12:33	5/14/2020 12:34	0:01:20	13.66	-96.89	482.96	9.69	-93.93	482.94	-143.54	0.46
175	5/14/2020 13:58	5/14/2020 14:00	0:02:40	39.31	-147.49	485.79	32.76	-138.48	484.82	-143.63	0.37
176	5/14/2020 14:07	5/14/2020 14:09	0:01:29	13.05	-120.35	483.06	8.59	-117.04	483.06	-143.56	0.44
177	5/14/2020 15:32	5/14/2020 15:35	0:02:50	39.22	-171.26	485.82	32.23	-161.77	484.79	-143.63	0.37
178	5/14/2020 15:42	5/14/2020 15:43	0:01:21	11.96	-143.43	483.10	7.98	-140.51	483.13	-143.56	0.44
179	5/14/2020 17:06	5/14/2020 17:09	0:02:51	38.75	165.57	485.76	31.70	174.94	484.73	-143.63	0.37
180	5/14/2020 17:16	5/14/2020 17:18	0:01:20	11.35	-166.89	483.12	7.37	-163.98	483.18	-143.56	0.44

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)
181	5/14/2020 18:41	5/14/2020 18:43	0:02:41	38.27	142.40	485.66	31.60	151.15	484.70	-143.63	0.37
182	5/14/2020 18:51	5/14/2020 18:52	0:01:29	10.74	169.65	483.10	6.25	172.91	483.19	-143.58	0.42
183	5/14/2020 19:35	5/14/2020 19:35	0:00:00	-17.96	-27.88	480.24	-17.96	-27.88	480.24	-144.00	0.00
184	5/14/2020 20:15	5/14/2020 20:18	0:02:51	38.19	118.63	485.62	31.06	127.85	484.59	-143.63	0.37
185	5/14/2020 20:25	5/14/2020 20:26	0:01:21	9.63	146.56	483.08	5.64	149.44	483.20	-143.56	0.44
186	5/14/2020 21:10	5/14/2020 21:10	0:00:00	-17.36	-51.31	479.99	-17.36	-51.31	479.99	-143.99	0.01
187	5/14/2020 21:49	5/14/2020 21:52	0:02:51	37.70	95.45	485.59	30.52	104.55	484.57	-143.62	0.38
188	5/14/2020 21:59	5/14/2020 22:01	0:01:20	9.02	123.10	483.14	5.02	125.97	483.28	-143.57	0.43
189	5/14/2020 22:44	5/14/2020 22:44	0:00:11	-16.76	-74.74	479.81	-16.27	-74.35	479.66	-143.99	0.01
190	5/14/2020 23:23	5/14/2020 23:26	0:02:50	37.20	72.25	485.55	29.97	81.23	484.52	-143.62	0.38
191	5/14/2020 23:34	5/14/2020 23:35	0:01:29	8.41	99.63	483.15	3.90	102.85	483.34	-143.56	0.44
192	5/15/2020 0:18	5/15/2020 0:18	0:00:09	-16.16	-98.17	479.76	-15.67	-97.79	479.62	-143.99	0.01
193	5/15/2020 0:58	5/15/2020 1:01	0:03:00	36.71	49.04	485.42	28.97	58.38	484.31	-143.61	0.39
194	5/15/2020 1:08	5/15/2020 1:10	0:01:21	7.29	76.52	483.06	3.29	79.38	483.26	-143.58	0.42
195	5/15/2020 1:53	5/15/2020 1:53	0:00:00	-15.07	-121.23	479.66	-15.07	-121.23	479.66	-143.99	0.01
196	5/15/2020 2:32	5/15/2020 2:35	0:03:10	36.62	25.25	485.19	28.41	35.05	484.03	-143.60	0.40
197	5/15/2020 2:43	5/15/2020 2:44	0:01:20	6.68	53.05	482.90	2.67	55.90	483.13	-143.59	0.41
198	5/15/2020 3:27	5/15/2020 3:27	0:00:11	-14.47	-144.68	479.55	-13.97	-144.30	479.42	-143.99	0.01
199	5/15/2020 4:06	5/15/2020 4:09	0:03:09	36.12	2.04	485.07	27.86	11.71	483.90	-143.60	0.40
200	5/15/2020 4:17	5/15/2020 4:18	0:01:29	6.07	29.58	482.85	1.55	32.77	483.14	-143.59	0.41
201	5/15/2020 5:01	5/15/2020 5:02	0:00:09	-13.86	-168.12	479.36	-13.37	-167.74	479.23	-143.98	0.02
202	5/15/2020 5:41	5/15/2020 5:44	0:03:09	35.62	-21.19	484.98	27.30	-11.64	483.82	-143.59	0.41
203	5/15/2020 5:51	5/15/2020 5:53	0:01:21	4.95	6.46	482.90	0.94	9.30	483.19	-143.60	0.40
204	5/15/2020 6:36	5/15/2020 6:36	0:00:20	-13.25	168.44	479.13	-12.26	169.18	478.88	-143.98	0.02
205	5/15/2020 7:15	5/15/2020 7:18	0:03:11	35.10	-44.41	484.96	26.73	-34.98	483.83	-143.59	0.41
206	5/15/2020 7:26	5/15/2020 7:27	0:01:29	4.34	-17.01	483.02	-0.18	-13.82	483.39	-143.61	0.39
207	5/15/2020 8:10	5/15/2020 8:10	0:00:21	-12.64	144.99	478.91	-11.65	145.73	478.66	-143.97	0.03
208	5/15/2020 8:49	5/15/2020 8:52	0:03:11	34.59	-67.65	484.94	26.16	-58.34	483.82	-143.59	0.41
209	5/15/2020 9:00	5/15/2020 9:02	0:01:20	3.22	-40.12	483.20	-0.80	-37.30	483.57	-143.62	0.38
210	5/15/2020 9:44	5/15/2020 9:45	0:00:31	-12.04	121.53	478.70	-10.55	122.64	478.34	-143.97	0.03
211	5/15/2020 10:24	5/15/2020 10:27	0:03:09	34.07	-90.90	484.81	25.59	-81.70	483.73	-143.59	0.41
212	5/15/2020 10:35	5/15/2020 10:36	0:01:31	2.60	-63.60	483.27	-1.92	-60.42	483.72	-143.63	0.37
213	5/15/2020 11:19	5/15/2020 11:19	0:00:30	-11.43	98.08	478.51	-9.93	99.18	478.15	-143.96	0.04
214	5/15/2020 11:58	5/15/2020 12:01	0:03:20	33.54	-114.16	484.68	24.55	-104.63	483.60	-143.59	0.41
215	5/15/2020 12:09	5/15/2020 12:10	0:01:20	1.47	-86.72	483.40	-2.55	-83.89	483.85	-143.63	0.37
216	5/15/2020 12:53	5/15/2020 12:54	0:00:39	-10.81	74.62	478.37	-8.82	76.09	477.91	-143.95	0.05
217	5/15/2020 13:32	5/15/2020 13:36	0:03:20	33.01	-137.43	484.74	23.97	-128.01	483.67	-143.60	0.40
218	5/15/2020 13:43	5/15/2020 13:45	0:01:31	0.86	-110.19	483.56	-3.66	-107.01	484.09	-143.64	0.36
219	5/15/2020 14:28	5/15/2020 14:28	0:00:31	-9.71	51.53	478.07	-8.21	52.62	477.75	-143.95	0.05
220	5/15/2020 15:07	5/15/2020 15:10	0:03:20	32.48	-160.71	484.72	23.39	-151.39	483.67	-143.60	0.40
221	5/15/2020 15:18	5/15/2020 15:19	0:01:19	-0.26	-133.32	483.71	-4.28	-130.49	484.21	-143.65	0.35
222	5/15/2020 16:02	5/15/2020 16:03	0:00:39	-9.09	28.06	477.87	-7.09	29.51	477.45	-143.94	0.06
223	5/15/2020 16:41	5/15/2020 16:44	0:03:20	31.95	176.00	484.66	22.81	-174.78	483.64	-143.60	0.40
224	5/15/2020 16:52	5/15/2020 16:54	0:01:31	-0.88	-156.80	483.81	-5.39	-153.61	484.41	-143.64	0.36
225	5/15/2020 17:34	5/15/2020 17:34	0:00:00	-13.95	0.54	479.03	-13.95	0.54	479.03	-143.99	0.01
226	5/15/2020 17:36	5/15/2020 17:37	0:00:39	-8.48	4.60	477.70	-6.48	6.04	477.31	-143.94	0.06
227	5/15/2020 18:15	5/15/2020 18:19	0:03:19	31.41	152.71	484.57	22.23	161.83	483.57	-143.60	0.40
228	5/15/2020 18:27	5/15/2020 18:28	0:01:20	-2.00	-179.92	483.92	-6.01	-177.08	484.49	-143.66	0.34
229	5/15/2020 19:09	5/15/2020 19:09	0:00:09	-13.34	-22.91	478.85	-12.84	-22.53	478.71	-143.99	0.01
230	5/15/2020 19:11	5/15/2020 19:11	0:00:50	-7.87	-18.86	477.56	-5.36	-17.07	477.09	-143.94	0.06
231	5/15/2020 19:50	5/15/2020 19:53	0:03:29	30.87	129.42	484.47	21.17	138.84	483.46	-143.59	0.41
232	5/15/2020 20:01	5/15/2020 20:03	0:01:20	-3.12	156.96	484.04	-7.12	159.81	484.64	-143.65	0.35
233	5/15/2020 20:43	5/15/2020 20:43	0:00:20	-12.73	-46.35	478.62	-11.73	-45.61	478.37	-143.99	0.01
234	5/15/2020 20:45	5/15/2020 20:46	0:01:00	-7.25	-42.33	477.38	-4.24	-40.18	476.85	-143.93	0.07
235	5/15/2020 21:24	5/15/2020 21:27	0:03:30	30.32	106.11	484.44	20.57	115.44	483.46	-143.59	0.41
236	5/15/2020 21:36	5/15/2020 21:37	0:01:20	-3.74	133.49	484.16	-7.74	136.35	484.79	-143.65	0.35
237	5/15/2020 22:18	5/15/2020 22:18	0:00:20	-11.62	-69.43	478.35	-10.62	-68.70	478.11	-143.98	0.02
238	5/15/2020 22:19	5/15/2020 22:20	0:00:50	-6.12	-65.43	477.17	-3.61	-63.65	476.76	-143.94	0.06
239	5/15/2020 22:58	5/15/2020 23:02	0:03:30	29.77	82.80	484.40	19.98	92.03	483.43	-143.59	0.41
240	5/15/2020 23:10	5/15/2020 23:11	0:01:20	-4.86	110.38	484.32	-8.86	113.25	484.97	-143.66	0.34

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)
241	5/15/2020 23:52	5/15/2020 23:52	0:00:30	-11.00	-92.89	478.32	-9.51	-91.79	477.98	-143.98	0.02
242	5/15/2020 23:54	5/15/2020 23:55	0:00:59	-5.51	-88.91	477.19	-2.49	-86.77	476.73	-143.93	0.07
243	5/16/2020 0:04	5/16/2020 0:07	0:02:50	24.65	-65.97	477.65	32.35	-57.96	479.41	-143.67	0.33
244	5/16/2020 0:13	5/16/2020 0:13	0:00:09	46.68	-32.95	483.96	46.95	-32.15	484.07	-143.74	0.26
245	5/16/2020 0:33	5/16/2020 0:37	0:04:01	29.21	59.47	483.31	17.93	69.81	481.93	-143.57	0.43
246	5/16/2020 0:44	5/16/2020 0:46	0:01:20	-5.49	86.91	482.42	-9.48	89.79	483.02	-143.62	0.38
247	5/16/2020 1:26	5/16/2020 1:27	0:00:59	-10.32	-116.29	477.37	-7.32	-114.11	476.80	-143.97	0.03
248	5/16/2020 1:28	5/16/2020 1:29	0:01:11	-4.82	-112.32	476.41	-1.30	-109.83	475.99	-143.92	0.08
249	5/16/2020 2:07	5/16/2020 2:11	0:04:09	28.59	36.22	483.00	16.77	46.84	481.64	-143.56	0.44
250	5/16/2020 2:19	5/16/2020 2:20	0:01:29	-6.18	63.50	482.36	-10.67	66.76	483.08	-143.63	0.37
251	5/16/2020 3:01	5/16/2020 3:02	0:01:00	-9.63	-139.69	477.30	-6.63	-137.52	476.75	-143.96	0.04
252	5/16/2020 3:02	5/16/2020 3:04	0:01:10	-4.12	-135.73	476.38	-0.60	-133.25	475.99	-143.92	0.08
253	5/16/2020 3:41	5/16/2020 3:45	0:04:10	27.96	12.96	482.84	16.10	23.47	481.52	-143.55	0.45
254	5/16/2020 3:53	5/16/2020 3:55	0:01:20	-7.37	40.45	482.45	-11.36	43.36	483.12	-143.64	0.36
255	5/16/2020 4:35	5/16/2020 4:36	0:01:11	-8.94	-163.09	477.13	-5.43	-160.57	476.54	-143.96	0.04
256	5/16/2020 4:37	5/16/2020 4:38	0:01:09	-3.42	-159.14	476.27	0.10	-156.66	475.91	-143.92	0.08
257	5/16/2020 5:16	5/16/2020 5:20	0:04:11	27.33	-10.30	482.74	15.42	0.10	481.47	-143.55	0.45
258	5/16/2020 5:28	5/16/2020 5:29	0:01:31	-8.07	17.05	482.55	-12.54	20.34	483.33	-143.64	0.36
259	5/16/2020 6:09	5/16/2020 6:11	0:01:21	-8.24	173.52	476.94	-4.23	176.38	476.31	-143.96	0.04
260	5/16/2020 6:11	5/16/2020 6:12	0:01:20	-2.72	177.45	476.13	1.30	-179.72	475.77	-143.91	0.09
261	5/16/2020 6:50	5/16/2020 6:54	0:04:10	26.69	-33.57	482.72	14.74	-23.27	481.51	-143.55	0.45
262	5/16/2020 7:02	5/16/2020 7:03	0:01:19	-9.26	-5.99	482.82	-13.23	-3.04	483.55	-143.66	0.34
263	5/16/2020 7:44	5/16/2020 7:47	0:03:09	-7.55	150.11	476.75	2.00	156.87	475.66	-143.91	0.09
264	5/16/2020 8:24	5/16/2020 8:29	0:04:21	26.05	-56.85	482.71	13.56	-46.27	481.54	-143.55	0.45
265	5/16/2020 8:36	5/16/2020 8:38	0:01:20	-9.95	-29.39	483.06	-13.91	-26.42	483.82	-143.66	0.34
266	5/16/2020 9:18	5/16/2020 9:21	0:03:20	-6.86	126.71	476.56	3.20	133.81	475.50	-143.91	0.09
267	5/16/2020 9:59	5/16/2020 10:03	0:04:20	25.40	-80.13	482.60	12.87	-69.65	481.53	-143.55	0.45
268	5/16/2020 10:11	5/16/2020 10:12	0:01:31	-10.64	-52.78	483.24	-15.08	-49.42	484.12	-143.67	0.33
269	5/16/2020 10:52	5/16/2020 10:56	0:03:10	-5.66	103.66	476.30	3.90	110.40	475.39	-143.91	0.09
270	5/16/2020 11:33	5/16/2020 11:37	0:04:19	24.75	-103.42	482.49	12.18	-93.04	481.51	-143.54	0.46
271	5/16/2020 11:45	5/16/2020 11:47	0:01:19	-11.83	-75.80	483.52	-15.77	-72.79	484.34	-143.68	0.32
272	5/16/2020 12:27	5/16/2020 12:30	0:03:20	-4.96	80.26	476.19	5.10	87.35	475.35	-143.91	0.09
273	5/16/2020 13:07	5/16/2020 13:12	0:04:09	23.63	-126.30	482.49	11.50	-116.43	481.62	-143.54	0.46
274	5/16/2020 13:20	5/16/2020 13:21	0:01:20	-12.51	-99.19	483.75	-16.44	-96.16	484.58	-143.68	0.32
275	5/16/2020 14:01	5/16/2020 14:04	0:03:20	-4.27	56.84	476.06	5.79	63.94	475.30	-143.90	0.10
276	5/16/2020 14:42	5/16/2020 14:46	0:04:20	22.98	-149.61	482.47	10.31	-139.45	481.65	-143.55	0.45
277	5/16/2020 14:54	5/16/2020 14:55	0:01:20	-13.69	-122.20	484.01	-17.60	-119.13	484.86	-143.69	0.31
278	5/16/2020 15:35	5/16/2020 15:39	0:03:21	-3.57	33.43	475.90	6.49	40.54	475.24	-143.90	0.10
279	5/16/2020 16:16	5/16/2020 16:20	0:04:19	22.32	-172.93	482.43	9.62	-162.85	481.68	-143.54	0.46
280	5/16/2020 16:28	5/16/2020 16:30	0:01:19	-14.37	-145.59	484.18	-18.27	-142.49	485.05	-143.70	0.30
281	5/16/2020 17:10	5/16/2020 17:13	0:03:31	-2.87	10.02	475.77	7.69	17.49	475.21	-143.90	0.10
282	5/16/2020 17:50	5/16/2020 17:55	0:04:20	21.66	163.74	482.34	8.93	173.75	481.66	-143.54	0.46
283	5/16/2020 18:03	5/16/2020 18:04	0:01:20	-15.54	-168.58	484.42	-19.43	-165.44	485.32	-143.70	0.30
284	5/16/2020 18:44	5/16/2020 18:48	0:03:20	-1.67	-13.04	475.62	8.38	-5.91	475.21	-143.90	0.10
285	5/16/2020 19:25	5/16/2020 19:29	0:04:20	21.00	140.42	482.25	8.24	150.35	481.64	-143.54	0.46
286	5/16/2020 19:37	5/16/2020 19:39	0:01:20	-16.22	168.05	484.53	-20.10	171.21	485.45	-143.71	0.29
287	5/16/2020 20:19	5/16/2020 20:22	0:03:30	-0.97	-36.44	475.50	9.58	-28.94	475.20	-143.90	0.10
288	5/16/2020 20:59	5/16/2020 21:04	0:04:19	19.85	117.49	482.18	7.04	127.31	481.70	-143.54	0.46
289	5/16/2020 21:12	5/16/2020 21:13	0:01:19	-16.90	144.69	484.72	-20.77	147.88	485.64	-143.71	0.29
290	5/16/2020 21:53	5/16/2020 21:56	0:03:31	-0.27	-59.85	475.43	10.27	-52.33	475.23	-143.90	0.10
291	5/16/2020 22:34	5/16/2020 22:38	0:04:20	19.17	94.14	482.15	6.34	103.91	481.72	-143.54	0.46
292	5/16/2020 22:46	5/16/2020 22:47	0:01:20	-18.06	121.72	484.98	-21.91	124.96	485.93	-143.71	0.29
293	5/16/2020 23:27	5/16/2020 23:31	0:03:30	0.43	-83.27	475.48	10.97	-75.73	475.37	-143.90	0.10
294	5/17/2020 0:08	5/17/2020 0:12	0:04:21	18.50	70.79	482.01	5.65	80.50	481.64	-143.54	0.46
295	5/17/2020 0:20	5/17/2020 0:22	0:01:20	-18.74	98.37	485.09	-22.57	101.64	486.06	-143.72	0.28
296	5/17/2020 1:02	5/17/2020 1:05	0:03:21	1.63	-106.33	475.56	11.65	-99.12	475.53	-143.90	0.10
297	5/17/2020 1:42	5/17/2020 1:47	0:04:19	17.34	47.83	481.72	4.45	57.44	481.51	-143.53	0.47
298	5/17/2020 1:55	5/17/2020 1:56	0:01:19	-19.41	75.02	485.13	-23.23	78.32	486.13	-143.72	0.28
299	5/17/2020 2:36	5/17/2020 2:40	0:03:31	2.33	-129.74	475.59	12.83	-122.14	475.67	-143.91	0.09
300	5/17/2020 3:17	5/17/2020 3:21	0:04:20	16.67	24.46	481.59	3.76	34.03	481.45	-143.53	0.47

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)
301	5/17/2020 3:29	5/17/2020 3:31	0:01:20	-20.56	52.08	485.33	-24.35	55.44	486.35	-143.72	0.28
302	5/17/2020 4:11	5/17/2020 4:14	0:03:20	3.53	-152.80	475.51	13.52	-145.52	475.71	-143.91	0.09
303	5/17/2020 4:51	5/17/2020 4:56	0:04:31	15.99	1.10	481.53	2.55	10.98	481.50	-143.54	0.46
304	5/17/2020 5:04	5/17/2020 5:05	0:01:20	-21.22	28.75	485.48	-25.00	32.14	486.51	-143.72	0.28
305	5/17/2020 5:45	5/17/2020 5:48	0:03:21	4.24	-176.20	475.44	14.21	-168.89	475.73	-143.91	0.09
306	5/17/2020 6:26	5/17/2020 6:30	0:04:19	14.81	-21.88	481.54	1.85	-12.43	481.63	-143.53	0.47
307	5/17/2020 6:38	5/17/2020 6:39	0:01:10	-22.36	5.84	485.85	-25.65	8.86	486.75	-143.73	0.27
308	5/17/2020 7:19	5/17/2020 7:23	0:03:20	4.94	160.39	475.35	14.90	167.74	475.73	-143.91	0.09
309	5/17/2020 8:00	5/17/2020 8:04	0:04:20	14.13	-45.26	481.60	1.15	-35.84	481.79	-143.53	0.47
310	5/17/2020 8:12	5/17/2020 8:14	0:01:09	-23.02	-17.47	486.16	-26.29	-14.43	487.07	-143.73	0.27
311	5/17/2020 8:43	5/17/2020 8:43	0:00:00	-26.38	112.31	481.84	-26.38	112.31	481.84	-143.98	0.02
312	5/17/2020 8:54	5/17/2020 8:57	0:03:30	5.63	136.99	475.24	16.07	144.75	475.73	-143.91	0.09
313	5/17/2020 9:34	5/17/2020 9:39	0:04:21	13.44	-68.63	481.59	0.45	-59.25	481.88	-143.54	0.46
314	5/17/2020 9:47	5/17/2020 9:48	0:01:10	-23.68	-40.78	486.41	-26.94	-37.70	487.33	-143.73	0.27
315	5/17/2020 10:17	5/17/2020 10:17	0:00:00	-25.27	89.48	481.42	-25.27	89.48	481.42	-144.00	0.00
316	5/17/2020 10:28	5/17/2020 10:31	0:03:20	6.83	113.94	475.14	16.76	121.39	475.70	-143.91	0.09
317	5/17/2020 11:09	5/17/2020 11:13	0:04:10	12.25	-91.64	481.55	-0.25	-82.66	481.98	-143.53	0.47
318	5/17/2020 11:21	5/17/2020 11:22	0:01:19	-24.34	-64.08	486.66	-28.03	-60.50	487.72	-143.74	0.26
319	5/17/2020 11:52	5/17/2020 11:52	0:00:00	-24.62	66.18	481.20	-24.62	66.18	481.20	-143.97	0.03
320	5/17/2020 12:02	5/17/2020 12:06	0:03:20	7.53	90.54	475.13	17.44	98.03	475.79	-143.91	0.09
321	5/17/2020 12:43	5/17/2020 12:47	0:04:11	11.56	-115.03	481.66	-0.95	-106.07	482.15	-143.54	0.46
322	5/17/2020 12:56	5/17/2020 12:57	0:01:09	-25.45	-86.94	487.06	-28.66	-83.76	487.99	-143.74	0.26
323	5/17/2020 13:26	5/17/2020 13:26	0:00:00	-23.49	43.31	480.77	-23.49	43.31	480.77	-143.98	0.02
324	5/17/2020 13:37	5/17/2020 13:40	0:03:19	8.23	67.14	475.10	18.11	74.68	475.84	-143.91	0.09
325	5/17/2020 14:18	5/17/2020 14:22	0:03:59	10.38	-138.05	481.70	-1.65	-129.49	482.26	-143.55	0.45
326	5/17/2020 14:30	5/17/2020 14:31	0:01:10	-26.09	-110.23	487.24	-29.28	-107.01	488.17	-143.74	0.26
327	5/17/2020 15:00	5/17/2020 15:01	0:00:09	-22.84	20.00	480.46	-22.36	20.42	480.29	-143.97	0.03
328	5/17/2020 15:11	5/17/2020 15:14	0:03:20	8.92	43.74	475.06	18.79	51.32	475.89	-143.91	0.09
329	5/17/2020 15:52	5/17/2020 15:56	0:04:10	9.69	-161.45	481.73	-2.85	-152.54	482.43	-143.54	0.46
330	5/17/2020 16:04	5/17/2020 16:05	0:01:11	-26.73	-133.51	487.44	-29.91	-130.24	488.36	-143.74	0.26
331	5/17/2020 16:35	5/17/2020 16:35	0:00:09	-22.18	-3.32	480.19	-21.70	-2.90	480.03	-143.97	0.03
332	5/17/2020 16:46	5/17/2020 16:49	0:03:20	10.12	20.71	475.07	19.94	28.38	476.03	-143.91	0.09
333	5/17/2020 17:26	5/17/2020 17:30	0:04:00	8.49	175.52	481.72	-3.55	-175.95	482.50	-143.55	0.45
334	5/17/2020 17:39	5/17/2020 17:40	0:01:11	-27.37	-156.78	487.63	-30.53	-153.47	488.55	-143.75	0.25
335	5/17/2020 18:09	5/17/2020 18:09	0:00:11	-21.04	-26.23	479.79	-20.56	-25.82	479.63	-143.97	0.03
336	5/17/2020 18:20	5/17/2020 18:23	0:03:19	10.81	-2.68	475.08	20.61	5.05	476.11	-143.91	0.09
337	5/17/2020 19:01	5/17/2020 19:05	0:03:59	7.80	152.12	481.70	-4.25	160.64	482.55	-143.55	0.45
338	5/17/2020 19:13	5/17/2020 19:14	0:00:59	-28.46	-179.58	487.89	-31.15	-176.69	488.68	-143.75	0.25
339	5/17/2020 19:44	5/17/2020 19:44	0:00:19	-20.36	-49.56	479.50	-19.40	-48.75	479.19	-143.96	0.04
340	5/17/2020 19:54	5/17/2020 19:58	0:03:20	11.51	-26.07	475.08	21.29	-18.28	476.20	-143.92	0.08
341	5/17/2020 20:35	5/17/2020 20:39	0:03:50	6.60	129.08	481.77	-4.95	137.23	482.69	-143.55	0.45
342	5/17/2020 20:47	5/17/2020 20:49	0:01:11	-29.10	157.18	488.09	-32.20	160.61	489.00	-143.74	0.26
343	5/17/2020 21:18	5/17/2020 21:18	0:00:20	-19.21	-72.49	479.12	-18.24	-71.69	478.82	-143.96	0.04
344	5/17/2020 21:29	5/17/2020 21:32	0:03:11	12.70	-49.08	475.15	21.96	-41.60	476.32	-143.92	0.08
345	5/17/2020 22:10	5/17/2020 22:13	0:03:50	5.90	105.67	481.80	-5.65	113.83	482.79	-143.55	0.45
346	5/17/2020 22:22	5/17/2020 22:23	0:01:11	-29.72	133.94	488.27	-32.80	137.42	489.19	-143.73	0.27
347	5/17/2020 22:52	5/17/2020 22:53	0:00:19	-18.53	-95.84	479.01	-17.56	-95.05	478.72	-143.95	0.05
348	5/17/2020 23:03	5/17/2020 23:06	0:03:09	13.39	-72.46	475.30	22.62	-64.92	476.53	-143.92	0.08
349	5/17/2020 23:44	5/17/2020 23:48	0:03:41	4.70	82.62	481.75	-6.35	90.42	482.80	-143.56	0.44
350	5/17/2020 23:56	5/17/2020 23:57	0:01:10	-30.34	110.71	488.45	-33.40	114.24	489.38	-143.73	0.27
351	5/18/2020 0:27	5/18/2020 0:27	0:00:21	-17.37	-118.80	478.87	-16.39	-118.02	478.59	-143.95	0.05
352	5/18/2020 0:37	5/18/2020 0:39	0:01:40	14.07	-95.84	475.47	18.96	-91.95	476.02	-143.94	0.06
353	5/18/2020 0:40	5/18/2020 0:41	0:00:59	20.41	-90.74	476.23	23.28	-88.24	476.72	-143.92	0.08
354	5/18/2020 1:18	5/18/2020 1:22	0:03:50	4.00	59.21	481.61	-7.55	67.38	482.83	-143.55	0.45
355	5/18/2020 1:30	5/18/2020 1:32	0:01:09	-30.96	87.49	488.56	-33.99	91.07	489.49	-143.73	0.27
356	5/18/2020 2:01	5/18/2020 2:02	0:00:19	-16.20	-141.78	478.63	-15.22	-141.01	478.36	-143.95	0.05
357	5/18/2020 2:12	5/18/2020 2:13	0:01:31	15.25	-118.83	475.64	19.64	-115.30	476.17	-143.94	0.06
358	5/18/2020 2:14	5/18/2020 2:15	0:01:01	21.08	-114.07	476.39	23.93	-111.55	476.89	-143.93	0.07
359	5/18/2020 2:53	5/18/2020 2:57	0:03:50	3.30	35.80	481.55	-8.24	43.97	482.85	-143.56	0.44
360	5/18/2020 3:05	5/18/2020 3:06	0:01:10	-31.58	64.28	488.66	-34.58	67.91	489.59	-143.73	0.27

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)
361	5/18/2020 3:36	5/18/2020 3:36	0:00:20	-15.52	-165.14	478.41	-14.53	-164.38	478.15	-143.94	0.06
362	5/18/2020 3:46	5/18/2020 3:48	0:01:20	15.94	-142.20	475.70	19.83	-139.04	476.19	-143.93	0.07
363	5/18/2020 3:48	5/18/2020 3:49	0:01:01	21.75	-137.40	476.49	24.59	-134.84	477.01	-143.93	0.07
364	5/18/2020 4:27	5/18/2020 4:31	0:03:41	2.09	12.75	481.61	-8.94	20.58	482.95	-143.56	0.44
365	5/18/2020 4:39	5/18/2020 4:40	0:01:11	-32.19	41.08	488.82	-35.17	44.77	489.74	-143.74	0.26
366	5/18/2020 5:10	5/18/2020 5:11	0:00:20	-14.34	171.87	478.05	-13.35	172.63	477.80	-143.94	0.06
367	5/18/2020 5:21	5/18/2020 5:22	0:01:20	16.62	-165.56	475.74	20.51	-162.37	476.26	-143.93	0.07
368	5/18/2020 5:23	5/18/2020 5:24	0:01:00	22.42	-160.71	476.58	25.25	-158.13	477.11	-143.93	0.07
369	5/18/2020 6:02	5/18/2020 6:05	0:03:40	1.39	-10.66	481.73	-9.64	-2.82	483.13	-143.56	0.44
370	5/18/2020 6:13	5/18/2020 6:15	0:01:10	-32.79	17.90	489.04	-35.75	21.64	489.95	-143.74	0.26
371	5/18/2020 6:45	5/18/2020 6:45	0:00:30	-13.65	148.50	477.80	-12.16	149.63	477.43	-143.92	0.08
372	5/18/2020 6:55	5/18/2020 6:56	0:01:20	17.31	171.09	475.77	21.18	174.30	476.32	-143.94	0.06
373	5/18/2020 6:57	5/18/2020 6:58	0:00:50	23.56	176.40	476.74	25.90	178.59	477.21	-143.93	0.07
374	5/18/2020 7:36	5/18/2020 7:40	0:03:29	0.18	-33.71	481.95	-10.33	-26.21	483.38	-143.57	0.43
375	5/18/2020 7:48	5/18/2020 7:49	0:01:10	-33.39	-5.28	489.36	-36.32	-1.48	490.26	-143.75	0.25
376	5/18/2020 8:19	5/18/2020 8:19	0:00:20	-12.46	125.50	477.44	-11.47	126.24	477.21	-143.92	0.08
377	5/18/2020 8:29	5/18/2020 8:31	0:01:31	17.99	147.73	475.73	22.32	151.40	476.39	-143.94	0.06
378	5/18/2020 8:31	5/18/2020 8:32	0:00:50	24.21	153.10	476.74	26.54	155.32	477.21	-143.93	0.07
379	5/18/2020 9:10	5/18/2020 9:14	0:03:30	-0.52	-57.12	482.06	-11.03	-49.60	483.58	-143.57	0.43
380	5/18/2020 9:22	5/18/2020 9:23	0:01:09	-33.99	-28.45	489.64	-36.89	-24.59	490.54	-143.76	0.24
381	5/18/2020 9:53	5/18/2020 9:54	0:00:31	-11.77	102.11	477.23	-10.28	103.22	476.89	-143.89	0.11
382	5/18/2020 10:04	5/18/2020 10:05	0:01:20	19.15	124.78	475.77	22.98	128.08	476.38	-143.94	0.06
383	5/18/2020 10:06	5/18/2020 10:07	0:00:49	24.87	129.81	476.73	27.19	132.05	477.22	-143.93	0.07
384	5/18/2020 10:45	5/18/2020 10:48	0:03:20	-1.73	-80.17	482.22	-11.72	-72.98	483.77	-143.57	0.43
385	5/18/2020 10:56	5/18/2020 10:58	0:01:10	-34.58	-51.60	489.87	-37.45	-47.68	490.76	-143.77	0.23
386	5/18/2020 11:28	5/18/2020 11:28	0:00:30	-10.57	79.10	476.94	-9.08	80.19	476.62	-143.89	0.11
387	5/18/2020 11:38	5/18/2020 11:39	0:01:11	19.83	101.45	475.88	23.18	104.35	476.43	-143.94	0.06
388	5/18/2020 11:40	5/18/2020 11:41	0:00:50	25.52	106.53	476.89	27.83	108.79	477.39	-143.93	0.07
389	5/18/2020 12:19	5/18/2020 12:23	0:03:21	-2.43	-103.58	482.40	-12.41	-96.37	484.00	-143.58	0.42
390	5/18/2020 12:31	5/18/2020 12:32	0:01:00	-35.16	-74.75	490.15	-37.61	-71.35	490.90	-143.76	0.24
391	5/18/2020 13:02	5/18/2020 13:03	0:00:41	-9.88	55.70	476.77	-7.88	57.16	476.36	-143.86	0.14
392	5/18/2020 13:12	5/18/2020 13:14	0:01:11	20.50	78.11	475.94	23.83	81.05	476.52	-143.94	0.06
393	5/18/2020 13:14	5/18/2020 13:15	0:00:50	26.17	83.24	476.99	28.47	85.54	477.51	-143.94	0.06
394	5/18/2020 13:54	5/18/2020 13:57	0:03:09	-3.63	-126.64	482.58	-13.10	-119.75	484.17	-143.58	0.42
395	5/18/2020 14:05	5/18/2020 14:06	0:01:01	-35.74	-97.88	490.30	-38.16	-94.44	491.04	-143.76	0.24
396	5/18/2020 14:37	5/18/2020 14:37	0:00:40	-8.69	32.67	476.45	-6.68	34.12	476.07	-143.87	0.13
397	5/18/2020 14:47	5/18/2020 14:48	0:01:10	21.17	54.78	476.01	24.49	57.75	476.61	-143.94	0.06
398	5/18/2020 14:49	5/18/2020 14:50	0:00:50	26.82	59.97	477.09	29.10	62.29	477.62	-143.94	0.06
399	5/18/2020 15:28	5/18/2020 15:31	0:03:09	-4.33	-150.05	482.70	-13.79	-143.13	484.33	-143.57	0.43
400	5/18/2020 15:39	5/18/2020 15:40	0:01:00	-36.31	-121.01	490.48	-38.70	-117.51	491.20	-143.75	0.25
401	5/18/2020 16:11	5/18/2020 16:12	0:00:41	-7.99	9.28	476.27	-5.98	10.71	475.91	-143.85	0.15
402	5/18/2020 16:21	5/18/2020 16:22	0:01:09	21.84	31.46	476.09	25.14	34.46	476.72	-143.94	0.06
403	5/18/2020 16:23	5/18/2020 16:24	0:00:50	27.46	36.71	477.22	29.73	39.06	477.75	-143.95	0.05
404	5/18/2020 17:03	5/18/2020 17:06	0:03:01	-5.53	-173.10	482.86	-14.48	-166.50	484.48	-143.58	0.42
405	5/18/2020 17:14	5/18/2020 17:15	0:00:59	-36.88	-144.12	490.66	-39.24	-140.56	491.37	-143.75	0.25
406	5/18/2020 17:46	5/18/2020 17:46	0:00:39	-6.79	-13.76	476.03	-4.78	-12.33	475.70	-143.85	0.15
407	5/18/2020 17:55	5/18/2020 17:57	0:01:10	22.50	8.14	476.18	25.80	11.17	476.82	-143.94	0.06
408	5/18/2020 17:57	5/18/2020 17:58	0:00:39	28.10	13.45	477.33	29.91	15.35	477.77	-143.95	0.05
409	5/18/2020 18:37	5/18/2020 18:40	0:03:00	-6.23	163.50	482.93	-15.17	170.13	484.59	-143.59	0.41
410	5/18/2020 18:48	5/18/2020 18:49	0:00:59	-37.44	-167.21	490.76	-39.77	-163.60	491.46	-143.74	0.26
411	5/18/2020 19:20	5/18/2020 19:21	0:00:50	-6.08	-37.16	475.85	-3.57	-35.38	475.47	-143.85	0.15
412	5/18/2020 19:30	5/18/2020 19:31	0:00:49	23.65	-14.74	476.38	25.99	-12.55	476.85	-143.95	0.05
413	5/18/2020 19:32	5/18/2020 19:32	0:00:30	29.19	-9.32	477.59	30.54	-7.87	477.92	-143.96	0.04
414	5/18/2020 20:11	5/18/2020 20:14	0:03:00	-6.94	140.10	483.07	-15.85	146.76	484.77	-143.59	0.41
415	5/18/2020 20:22	5/18/2020 20:23	0:01:09	-37.60	169.12	490.82	-40.30	173.38	491.62	-143.74	0.26
416	5/18/2020 20:54	5/18/2020 20:55	0:00:50	-5.38	-60.56	475.72	-2.86	-58.78	475.36	-143.84	0.16
417	5/18/2020 21:04	5/18/2020 21:05	0:00:50	24.31	-38.03	476.51	26.64	-35.82	477.00	-143.95	0.05
418	5/18/2020 21:06	5/18/2020 21:07	0:00:31	29.82	-32.55	477.75	31.16	-31.08	478.09	-143.96	0.04
419	5/18/2020 21:46	5/18/2020 21:49	0:03:01	-8.14	117.07	483.27	-17.03	123.79	485.04	-143.59	0.41
420	5/18/2020 21:57	5/18/2020 21:58	0:00:59	-38.16	146.05	490.98	-40.45	149.74	491.67	-143.74	0.26

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)
421	5/18/2020 22:29	5/18/2020 22:30	0:00:50	-4.17	-83.61	475.64	-1.65	-81.83	475.32	-143.84	0.16
422	5/18/2020 22:39	5/18/2020 22:39	0:00:50	24.96	-61.33	476.72	27.28	-59.08	477.22	-143.95	0.05
423	5/18/2020 22:41	5/18/2020 22:41	0:00:30	30.45	-55.77	477.99	31.77	-54.28	478.33	-143.97	0.03
424	5/18/2020 23:20	5/18/2020 23:23	0:03:00	-8.84	93.67	483.31	-17.71	100.43	485.15	-143.60	0.40
425	5/18/2020 23:31	5/18/2020 23:32	0:01:01	-38.70	122.98	491.19	-40.96	126.73	491.87	-143.74	0.26
426	5/19/2020 0:03	5/19/2020 0:04	0:00:59	-3.47	-107.02	475.72	-0.45	-104.89	475.36	-143.82	0.18
427	5/19/2020 0:13	5/19/2020 0:14	0:00:41	25.61	-84.62	476.91	27.46	-82.81	477.31	-143.96	0.04
428	5/19/2020 0:15	5/19/2020 0:15	0:00:20	31.06	-78.99	478.17	31.94	-77.99	478.40	-143.97	0.03
429	5/19/2020 0:54	5/19/2020 0:57	0:03:00	-9.53	70.27	483.29	-18.39	77.08	485.20	-143.60	0.40
430	5/19/2020 1:05	5/19/2020 1:06	0:01:01	-39.24	99.93	491.31	-41.47	103.74	491.99	-143.72	0.28
431	5/19/2020 1:38	5/19/2020 1:38	0:00:49	-2.26	-130.07	475.65	0.25	-128.30	475.38	-143.82	0.18
432	5/19/2020 1:47	5/19/2020 1:48	0:00:41	26.26	-107.90	477.10	28.10	-106.07	477.50	-143.96	0.04
433	5/19/2020 1:49	5/19/2020 1:50	0:00:21	31.68	-102.20	478.36	32.55	-101.18	478.59	-143.97	0.03
434	5/19/2020 2:29	5/19/2020 2:32	0:02:50	-10.73	47.24	483.41	-19.07	53.73	485.27	-143.61	0.39
435	5/19/2020 2:39	5/19/2020 2:41	0:01:11	-39.40	76.27	491.28	-41.97	80.77	492.06	-143.72	0.28
436	5/19/2020 3:12	5/19/2020 3:13	0:00:59	-1.56	-153.48	475.56	1.46	-151.35	475.27	-143.81	0.19
437	5/19/2020 3:22	5/19/2020 3:22	0:00:40	26.91	-131.17	477.23	28.74	-129.32	477.64	-143.96	0.04
438	5/19/2020 3:24	5/19/2020 3:24	0:00:20	32.29	-125.39	478.52	33.16	-124.36	478.74	-143.97	0.03
439	5/19/2020 4:03	5/19/2020 4:06	0:02:49	-11.42	23.86	483.52	-19.74	30.39	485.42	-143.62	0.38
440	5/19/2020 4:14	5/19/2020 4:15	0:01:01	-39.93	53.24	491.41	-42.11	57.13	492.07	-143.73	0.27
441	5/19/2020 4:46	5/19/2020 4:47	0:00:50	-0.35	-176.53	475.38	2.17	-174.76	475.18	-143.78	0.22
442	5/19/2020 4:56	5/19/2020 4:56	0:00:30	27.56	-154.43	477.34	28.92	-153.03	477.65	-143.96	0.04
443	5/19/2020 4:58	5/19/2020 4:58	0:00:20	32.90	-148.57	478.65	33.76	-147.52	478.89	-143.97	0.03
444	5/19/2020 5:38	5/19/2020 5:40	0:02:41	-12.61	0.85	483.82	-20.42	7.06	485.64	-143.62	0.38
445	5/19/2020 5:48	5/19/2020 5:49	0:01:00	-40.45	30.23	491.59	-42.60	34.18	492.23	-143.72	0.28
446	5/19/2020 6:21	5/19/2020 6:22	0:00:49	0.36	160.07	475.25	2.88	161.84	475.07	-143.76	0.24
447	5/19/2020 6:30	5/19/2020 6:31	0:00:29	28.20	-177.67	477.46	29.56	-176.26	477.78	-143.97	0.03
448	5/19/2020 6:32	5/19/2020 6:32	0:00:09	33.51	-171.74	478.80	33.94	-171.21	478.91	-143.97	0.03
449	5/19/2020 7:12	5/19/2020 7:15	0:02:41	-13.31	-22.53	484.09	-21.09	-16.27	485.95	-143.62	0.38
450	5/19/2020 7:22	5/19/2020 7:23	0:00:59	-40.97	7.23	491.86	-43.08	11.25	492.49	-143.73	0.27
451	5/19/2020 7:55	5/19/2020 7:56	0:00:59	1.07	136.66	475.11	4.09	138.79	474.92	-143.76	0.24
452	5/19/2020 8:05	5/19/2020 8:05	0:00:30	28.83	159.08	477.47	30.18	160.52	477.80	-143.97	0.03
453	5/19/2020 8:07	5/19/2020 8:07	0:00:09	34.11	165.11	478.83	34.53	165.64	478.94	-143.97	0.03
454	5/19/2020 8:46	5/19/2020 8:49	0:02:40	-14.00	-45.90	484.31	-21.76	-39.59	486.22	-143.63	0.37
455	5/19/2020 8:57	5/19/2020 8:58	0:01:00	-41.12	-16.42	492.02	-43.22	-12.37	492.64	-143.72	0.28
456	5/19/2020 9:30	5/19/2020 9:30	0:00:50	2.28	113.61	474.93	4.79	115.39	474.79	-143.75	0.25
457	5/19/2020 9:39	5/19/2020 9:39	0:00:31	29.47	135.85	477.47	30.81	137.31	477.80	-143.97	0.03
458	5/19/2020 9:41	5/19/2020 9:41	0:00:10	34.70	141.96	478.83	35.12	142.50	478.95	-143.98	0.02
459	5/19/2020 10:21	5/19/2020 10:23	0:02:30	-15.18	-68.89	484.63	-22.43	-62.90	486.45	-143.63	0.37
460	5/19/2020 10:31	5/19/2020 10:32	0:00:59	-41.62	-39.39	492.21	-43.68	-35.29	492.81	-143.72	0.28
461	5/19/2020 11:04	5/19/2020 11:05	0:01:00	2.99	90.21	474.86	6.00	92.35	474.74	-143.75	0.25
462	5/19/2020 11:13	5/19/2020 11:14	0:00:19	30.10	112.63	477.66	30.99	113.61	477.89	-143.98	0.02
463	5/19/2020 11:15	5/19/2020 11:15	0:00:11	35.29	118.83	479.06	35.71	119.38	479.18	-143.98	0.02
464	5/19/2020 11:55	5/19/2020 11:58	0:02:21	-15.87	-92.26	484.89	-22.62	-86.64	486.60	-143.63	0.37
465	5/19/2020 12:05	5/19/2020 12:06	0:01:09	-41.76	-63.03	492.34	-44.14	-58.19	493.03	-143.72	0.28
466	5/19/2020 12:38	5/19/2020 12:39	0:00:59	3.69	66.80	474.80	6.70	68.95	474.70	-143.74	0.26
467	5/19/2020 12:48	5/19/2020 12:48	0:00:20	30.72	89.41	477.79	31.60	90.40	478.02	-143.98	0.02
468	5/19/2020 12:49	5/19/2020 12:50	0:00:10	35.46	95.14	479.08	35.87	95.70	479.20	-143.99	0.01
469	5/19/2020 13:30	5/19/2020 13:32	0:02:19	-16.55	-115.62	485.06	-23.28	-109.95	486.79	-143.63	0.37
470	5/19/2020 13:39	5/19/2020 13:40	0:00:59	-42.26	-86.00	492.45	-44.27	-81.80	493.02	-143.70	0.30
471	5/19/2020 14:13	5/19/2020 14:14	0:00:50	4.90	43.75	474.69	7.41	45.55	474.64	-143.74	0.26
472	5/19/2020 14:22	5/19/2020 14:22	0:00:20	31.34	66.20	477.91	32.22	67.21	478.14	-143.97	0.03
473	5/19/2020 14:24	5/19/2020 14:24	0:00:11	36.04	72.02	479.21	36.45	72.58	479.33	-143.99	0.01
474	5/19/2020 15:04	5/19/2020 15:06	0:02:19	-17.24	-138.98	485.24	-23.94	-133.25	486.98	-143.64	0.36
475	5/19/2020 15:14	5/19/2020 15:15	0:01:00	-42.74	-108.95	492.58	-44.71	-104.69	493.13	-143.69	0.31
476	5/19/2020 15:47	5/19/2020 15:48	0:01:00	5.60	20.35	474.64	8.61	22.51	474.62	-143.72	0.28
477	5/19/2020 15:56	5/19/2020 15:56	0:00:11	31.96	43.00	478.05	32.40	43.51	478.17	-143.98	0.02
478	5/19/2020 15:58	5/19/2020 15:58	0:00:00	36.61	48.91	479.37	36.61	48.91	479.37	-143.99	0.01
479	5/19/2020 16:38	5/19/2020 16:41	0:02:11	-18.40	-161.94	485.53	-24.60	-156.55	487.17	-143.66	0.34
480	5/19/2020 16:48	5/19/2020 16:49	0:00:59	-42.88	-132.58	492.63	-44.84	-128.29	493.17	-143.69	0.31

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)
481	5/19/2020 17:21	5/19/2020 17:22	0:00:59	6.31	-3.05	474.60	9.31	-0.88	474.61	-143.70	0.30
482	5/19/2020 17:30	5/19/2020 17:31	0:00:20	32.14	19.30	478.07	33.00	20.33	478.30	-143.98	0.02
483	5/19/2020 17:32	5/19/2020 17:32	0:00:00	37.18	25.81	479.50	37.18	25.81	479.50	-144.00	0.00
484	5/19/2020 18:13	5/19/2020 18:15	0:02:10	-19.08	174.72	485.65	-25.25	-179.84	487.31	-143.66	0.34
485	5/19/2020 18:22	5/19/2020 18:23	0:01:00	-43.36	-155.50	492.69	-45.27	-151.15	493.21	-143.67	0.33
486	5/19/2020 18:56	5/19/2020 18:57	0:00:59	7.01	-26.44	474.55	10.02	-24.26	474.59	-143.67	0.33
487	5/19/2020 19:05	5/19/2020 19:05	0:00:21	32.75	-3.88	478.23	33.61	-2.83	478.47	-143.99	0.01
488	5/19/2020 19:47	5/19/2020 19:49	0:02:09	-19.76	151.39	485.85	-25.91	156.88	487.51	-143.67	0.33
489	5/19/2020 19:56	5/19/2020 19:57	0:00:59	-43.49	-179.11	492.72	-45.39	-174.74	493.24	-143.68	0.32
490	5/19/2020 20:30	5/19/2020 20:31	0:01:00	8.22	-49.47	474.54	11.22	-47.28	474.62	-143.65	0.35
491	5/19/2020 20:39	5/19/2020 20:39	0:00:11	33.36	-27.04	478.41	33.79	-26.52	478.53	-143.99	0.01
492	5/19/2020 21:21	5/19/2020 21:24	0:02:10	-20.44	128.05	486.02	-26.56	133.61	487.69	-143.68	0.32
493	5/19/2020 21:31	5/19/2020 21:32	0:01:00	-43.96	157.99	492.86	-45.81	162.43	493.35	-143.68	0.32
494	5/19/2020 22:05	5/19/2020 22:06	0:00:59	8.93	-72.87	474.64	11.92	-70.66	474.75	-143.67	0.33
495	5/19/2020 22:13	5/19/2020 22:14	0:00:10	33.96	-50.20	478.65	34.38	-49.67	478.77	-143.99	0.01
496	5/19/2020 22:56	5/19/2020 22:58	0:02:10	-21.11	104.73	486.17	-27.20	110.35	487.87	-143.68	0.32
497	5/19/2020 23:05	5/19/2020 23:06	0:00:59	-44.09	134.37	492.97	-45.93	138.84	493.47	-143.68	0.32
498	5/19/2020 23:39	5/19/2020 23:40	0:01:00	9.62	-96.26	474.79	12.61	-94.05	474.91	-143.66	0.34
499	5/19/2020 23:48	5/19/2020 23:48	0:00:00	34.55	-73.36	478.82	34.55	-73.36	478.82	-143.99	0.01
500	5/20/2020 0:30	5/20/2020 0:32	0:02:00	-22.26	81.82	486.37	-27.85	87.09	487.98	-143.68	0.32
501	5/20/2020 0:39	5/20/2020 0:40	0:01:00	-44.54	111.49	493.09	-46.33	116.03	493.58	-143.68	0.32
502	5/20/2020 1:13	5/20/2020 1:14	0:01:01	10.32	-119.65	474.88	13.30	-117.43	475.03	-143.66	0.34
503	5/20/2020 1:22	5/20/2020 1:22	0:00:00	35.14	-96.51	479.02	35.14	-96.51	479.02	-144.00	0.00
504	5/20/2020 2:05	5/20/2020 2:07	0:02:01	-22.93	58.51	486.46	-28.49	63.84	488.08	-143.68	0.32
505	5/20/2020 2:13	5/20/2020 2:14	0:00:59	-44.67	87.88	493.04	-46.45	92.44	493.53	-143.66	0.34
506	5/20/2020 2:48	5/20/2020 2:49	0:01:01	11.03	-143.04	474.91	14.00	-140.80	475.08	-143.66	0.34
507	5/20/2020 2:56	5/20/2020 2:56	0:00:00	35.31	-120.18	479.06	35.31	-120.18	479.06	-143.99	0.01
508	5/20/2020 3:39	5/20/2020 3:41	0:01:51	-23.59	35.20	486.61	-28.67	40.13	488.10	-143.69	0.31
509	5/20/2020 3:48	5/20/2020 3:49	0:01:01	-45.10	65.02	493.13	-46.84	69.65	493.60	-143.67	0.33
510	5/20/2020 4:22	5/20/2020 4:23	0:01:00	12.22	-166.05	474.93	15.19	-163.78	475.14	-143.66	0.34
511	5/20/2020 4:31	5/20/2020 4:31	0:00:00	35.90	-143.30	479.20	35.90	-143.30	479.20	-144.00	0.00
512	5/20/2020 5:13	5/20/2020 5:15	0:01:50	-24.25	11.91	486.84	-29.31	16.89	488.33	-143.70	0.30
513	5/20/2020 5:22	5/20/2020 5:23	0:00:59	-45.23	41.43	493.17	-46.95	46.08	493.62	-143.64	0.36
514	5/20/2020 5:56	5/20/2020 5:57	0:01:01	12.92	170.58	474.92	15.88	172.86	475.16	-143.65	0.35
515	5/20/2020 6:48	5/20/2020 6:49	0:01:49	-24.91	-11.38	487.15	-29.94	-6.33	488.64	-143.71	0.29
516	5/20/2020 6:56	5/20/2020 6:57	0:01:10	-45.35	17.83	493.31	-47.32	23.31	493.82	-143.65	0.35
517	5/20/2020 7:31	5/20/2020 7:32	0:01:01	13.62	147.21	474.86	16.57	149.50	475.12	-143.63	0.37
518	5/20/2020 7:39	5/20/2020 7:39	0:00:00	36.64	169.93	479.28	36.64	169.93	479.28	-144.00	0.00
519	5/20/2020 8:22	5/20/2020 8:24	0:01:49	-25.57	-34.66	487.45	-30.57	-29.55	488.95	-143.72	0.28
520	5/20/2020 8:30	5/20/2020 8:31	0:00:59	-45.77	-5.00	493.55	-47.43	-0.26	493.97	-143.61	0.39
521	5/20/2020 9:05	5/20/2020 9:06	0:01:00	14.32	123.84	474.79	17.26	126.15	475.06	-143.61	0.39
522	5/20/2020 9:56	5/20/2020 9:58	0:01:40	-26.23	-57.93	487.68	-30.75	-53.25	489.04	-143.73	0.27
523	5/20/2020 10:05	5/20/2020 10:06	0:00:59	-45.89	-28.58	493.60	-47.53	-23.82	494.02	-143.62	0.38
524	5/20/2020 10:39	5/20/2020 10:40	0:00:59	15.01	100.48	474.84	17.95	102.81	475.14	-143.61	0.39
525	5/20/2020 11:31	5/20/2020 11:32	0:01:40	-26.87	-81.20	487.98	-31.37	-76.46	489.34	-143.73	0.27
526	5/20/2020 11:39	5/20/2020 11:40	0:01:00	-46.29	-51.40	493.80	-47.88	-46.56	494.19	-143.64	0.36
527	5/20/2020 12:14	5/20/2020 12:15	0:01:00	15.70	77.11	474.87	18.63	79.46	475.20	-143.61	0.39
528	5/20/2020 13:05	5/20/2020 13:07	0:01:39	-27.52	-104.47	488.17	-31.98	-99.66	489.52	-143.74	0.26
529	5/20/2020 13:13	5/20/2020 13:14	0:00:59	-46.41	-74.98	493.79	-47.98	-70.13	494.17	-143.62	0.38
530	5/20/2020 13:48	5/20/2020 13:49	0:01:01	16.39	53.75	474.90	19.31	56.12	475.25	-143.60	0.40
531	5/20/2020 14:39	5/20/2020 14:41	0:01:40	-28.16	-127.72	488.36	-32.59	-122.84	489.70	-143.75	0.25
532	5/20/2020 14:47	5/20/2020 14:48	0:01:09	-46.52	-98.57	493.79	-48.32	-92.85	494.21	-143.61	0.39
533	5/20/2020 15:22	5/20/2020 15:23	0:01:00	17.08	30.40	474.95	19.99	32.79	475.32	-143.60	0.40
534	5/20/2020 16:14	5/20/2020 16:15	0:01:30	-28.80	-150.96	488.56	-32.77	-146.54	489.77	-143.75	0.25
535	5/20/2020 16:22	5/20/2020 16:23	0:00:59	-46.91	-121.35	493.90	-48.41	-116.41	494.24	-143.62	0.38
536	5/20/2020 16:57	5/20/2020 16:58	0:00:59	17.77	7.05	475.00	20.67	9.46	475.39	-143.60	0.40
537	5/20/2020 17:48	5/20/2020 17:49	0:01:31	-29.43	-174.20	488.70	-33.38	-169.71	489.90	-143.75	0.25
538	5/20/2020 17:56	5/20/2020 17:57	0:00:59	-47.02	-144.92	493.85	-48.51	-139.96	494.18	-143.59	0.41
539	5/20/2020 18:31	5/20/2020 18:32	0:00:59	18.46	-16.29	475.06	21.35	-13.86	475.48	-143.59	0.41
540	5/20/2020 19:22	5/20/2020 19:24	0:01:31	-30.07	162.58	488.89	-33.98	167.14	490.08	-143.76	0.24

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)
541	5/20/2020 19:30	5/20/2020 19:31	0:01:09	-47.13	-168.49	493.86	-48.82	-162.65	494.23	-143.58	0.42
542	5/20/2020 20:05	5/20/2020 20:06	0:01:00	19.15	-39.63	475.14	22.03	-37.17	475.58	-143.59	0.41
543	5/20/2020 20:56	5/20/2020 20:58	0:01:31	-30.25	138.88	488.95	-34.16	143.46	490.14	-143.77	0.23
544	5/20/2020 21:04	5/20/2020 21:05	0:00:59	-47.50	168.76	493.95	-48.91	173.81	494.25	-143.59	0.41
545	5/20/2020 21:40	5/20/2020 21:41	0:01:01	19.83	-62.96	475.31	22.70	-60.48	475.77	-143.59	0.41
546	5/20/2020 22:31	5/20/2020 22:32	0:01:31	-30.88	115.67	489.15	-34.75	120.31	490.34	-143.78	0.22
547	5/20/2020 22:38	5/20/2020 22:39	0:01:01	-47.60	145.19	494.08	-49.00	150.27	494.38	-143.57	0.43
548	5/20/2020 23:14	5/20/2020 23:15	0:01:01	20.51	-86.29	475.50	23.37	-83.79	475.97	-143.61	0.39
549	5/21/2020 0:05	5/21/2020 0:07	0:01:29	-31.50	92.47	489.28	-35.34	97.18	490.48	-143.78	0.22
550	5/21/2020 0:13	5/21/2020 0:14	0:01:01	-47.71	121.63	494.12	-49.09	126.72	494.43	-143.56	0.44
551	5/21/2020 0:48	5/21/2020 0:49	0:00:50	21.18	-109.62	475.66	23.56	-107.52	476.06	-143.61	0.39
552	5/21/2020 1:39	5/21/2020 1:41	0:01:20	-32.12	69.27	489.38	-35.51	73.50	490.45	-143.79	0.21
553	5/21/2020 1:47	5/21/2020 1:48	0:01:11	-47.81	98.07	494.07	-49.38	104.06	494.41	-143.56	0.44
554	5/21/2020 2:23	5/21/2020 2:24	0:00:50	21.86	-132.94	475.77	24.23	-130.81	476.18	-143.62	0.38
555	5/21/2020 3:14	5/21/2020 3:15	0:01:20	-32.73	46.09	489.53	-36.10	50.38	490.60	-143.79	0.21
556	5/21/2020 3:21	5/21/2020 3:22	0:01:01	-48.16	75.34	494.12	-49.46	80.52	494.40	-143.57	0.43
557	5/21/2020 3:57	5/21/2020 3:58	0:00:50	22.53	-156.24	475.85	24.89	-154.09	476.27	-143.63	0.37
558	5/21/2020 4:48	5/21/2020 4:49	0:01:19	-32.91	22.41	489.61	-36.27	26.72	490.67	-143.80	0.20
559	5/21/2020 4:55	5/21/2020 4:56	0:01:01	-48.26	51.79	494.13	-49.54	56.99	494.40	-143.56	0.44
560	5/21/2020 5:31	5/21/2020 5:32	0:00:50	23.21	-179.54	475.93	25.56	-177.37	476.37	-143.62	0.38
561	5/21/2020 6:22	5/21/2020 6:24	0:01:20	-33.52	-0.76	489.92	-36.84	3.62	490.96	-143.81	0.19
562	5/21/2020 6:29	5/21/2020 6:31	0:01:10	-48.35	28.24	494.25	-49.80	34.36	494.54	-143.54	0.46
563	5/21/2020 7:06	5/21/2020 7:07	0:00:49	23.88	157.16	475.94	26.21	159.36	476.39	-143.62	0.38
564	5/21/2020 7:57	5/21/2020 7:58	0:01:20	-34.12	-23.91	490.23	-37.41	-19.47	491.27	-143.82	0.18
565	5/21/2020 8:04	5/21/2020 8:05	0:01:10	-48.45	4.69	494.40	-49.88	10.83	494.68	-143.52	0.48
566	5/21/2020 8:40	5/21/2020 8:41	0:00:50	24.54	133.87	475.90	26.87	136.10	476.36	-143.63	0.37
567	5/21/2020 9:31	5/21/2020 9:32	0:01:10	-34.72	-47.05	490.45	-37.58	-43.12	491.35	-143.82	0.18
568	5/21/2020 9:38	5/21/2020 9:39	0:00:59	-48.77	-18.00	494.49	-49.95	-12.69	494.71	-143.53	0.47
569	5/21/2020 10:14	5/21/2020 10:15	0:00:50	24.74	110.16	475.95	27.06	112.39	476.42	-143.63	0.37
570	5/21/2020 11:05	5/21/2020 11:06	0:01:20	-34.89	-70.73	490.62	-38.14	-66.19	491.63	-143.83	0.17
571	5/21/2020 11:12	5/21/2020 11:13	0:00:59	-48.85	-41.54	494.60	-50.02	-36.22	494.81	-143.54	0.46
572	5/21/2020 11:49	5/21/2020 11:49	0:00:50	25.40	86.88	476.06	27.71	89.14	476.54	-143.65	0.35
573	5/21/2020 12:39	5/21/2020 12:41	0:01:09	-35.48	-93.86	490.79	-38.30	-89.85	491.66	-143.83	0.17
574	5/21/2020 12:46	5/21/2020 12:47	0:01:00	-48.94	-65.09	494.57	-50.09	-59.75	494.77	-143.52	0.48
575	5/21/2020 13:23	5/21/2020 13:24	0:00:50	26.05	63.60	476.16	28.35	65.89	476.65	-143.66	0.34
576	5/21/2020 14:14	5/21/2020 14:15	0:01:10	-36.06	-116.98	490.95	-38.85	-112.91	491.80	-143.83	0.17
577	5/21/2020 14:20	5/21/2020 14:22	0:01:10	-49.03	-88.63	494.55	-50.32	-82.36	494.75	-143.51	0.49
578	5/21/2020 14:57	5/21/2020 14:58	0:00:41	26.71	40.34	476.28	28.54	42.18	476.68	-143.67	0.33
579	5/21/2020 15:48	5/21/2020 15:49	0:01:09	-36.23	-140.65	491.02	-39.01	-136.56	491.87	-143.83	0.17
580	5/21/2020 15:55	5/21/2020 15:56	0:01:11	-49.12	-112.18	494.58	-50.39	-105.88	494.77	-143.51	0.49
581	5/21/2020 16:32	5/21/2020 16:32	0:00:41	27.36	17.08	476.38	29.18	18.95	476.79	-143.68	0.32
582	5/21/2020 17:22	5/21/2020 17:23	0:01:09	-36.81	-163.75	491.13	-39.55	-159.59	491.97	-143.82	0.18
583	5/21/2020 17:29	5/21/2020 17:30	0:01:11	-49.21	-135.71	494.52	-50.46	-129.40	494.70	-143.50	0.50
584	5/21/2020 18:06	5/21/2020 18:07	0:00:50	27.56	-6.63	476.41	29.82	-4.27	476.93	-143.69	0.31
585	5/21/2020 18:56	5/21/2020 18:58	0:01:09	-36.98	172.59	491.18	-39.71	176.77	492.01	-143.83	0.17
586	5/21/2020 19:03	5/21/2020 19:04	0:01:01	-49.49	-158.35	494.54	-50.52	-152.90	494.68	-143.50	0.50
587	5/21/2020 19:40	5/21/2020 19:41	0:00:41	28.21	-29.87	476.55	30.02	-27.96	476.98	-143.70	0.30
588	5/21/2020 20:31	5/21/2020 20:32	0:01:10	-37.55	149.51	491.35	-40.25	153.76	492.17	-143.83	0.17
589	5/21/2020 20:37	5/21/2020 20:38	0:01:00	-49.57	178.12	494.56	-50.58	-176.41	494.69	-143.50	0.50
590	5/21/2020 21:14	5/21/2020 21:15	0:00:39	28.85	-53.10	476.77	30.65	-51.17	477.21	-143.72	0.28
591	5/21/2020 22:05	5/21/2020 22:06	0:00:59	-38.11	126.45	491.57	-40.40	130.13	492.27	-143.83	0.17
592	5/21/2020 22:11	5/21/2020 22:12	0:00:59	-49.65	154.59	494.69	-50.64	160.07	494.82	-143.48	0.52
593	5/21/2020 22:49	5/21/2020 22:49	0:00:39	29.49	-76.34	476.97	31.27	-74.38	477.40	-143.73	0.27
594	5/21/2020 23:39	5/21/2020 23:40	0:01:10	-38.27	102.79	491.60	-40.92	107.13	492.42	-143.84	0.16
595	5/21/2020 23:46	5/21/2020 23:47	0:01:09	-49.73	131.06	494.75	-50.83	137.50	494.90	-143.47	0.53
596	5/22/2020 0:23	5/22/2020 0:24	0:00:39	29.67	-100.04	477.05	31.45	-98.08	477.48	-143.75	0.25
597	5/22/2020 1:14	5/22/2020 1:15	0:00:59	-38.82	79.74	491.68	-41.08	83.50	492.38	-143.83	0.17
598	5/22/2020 1:20	5/22/2020 1:21	0:01:09	-49.81	107.53	494.69	-50.88	113.99	494.83	-143.47	0.53
599	5/22/2020 1:57	5/22/2020 1:58	0:00:39	30.31	-123.26	477.20	32.08	-121.27	477.64	-143.76	0.24
600	5/22/2020 2:48	5/22/2020 2:49	0:00:59	-38.99	56.09	491.70	-41.23	59.87	492.39	-143.84	0.16



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)
601	5/22/2020 2:54	5/22/2020 2:55	0:01:10	-49.88	84.01	494.67	-50.94	90.49	494.80	-143.47	0.53
602	5/22/2020 3:32	5/22/2020 3:32	0:00:30	30.94	-146.46	477.32	32.26	-144.95	477.65	-143.77	0.23
603	5/22/2020 4:22	5/22/2020 4:23	0:01:00	-39.53	33.06	491.87	-41.74	36.91	492.55	-143.83	0.17
604	5/22/2020 4:28	5/22/2020 4:29	0:01:11	-49.96	60.50	494.67	-50.99	66.99	494.78	-143.46	0.54
605	5/22/2020 5:06	5/22/2020 5:06	0:00:39	31.13	-170.15	477.35	32.88	-168.12	477.80	-143.78	0.22
606	5/22/2020 5:56	5/22/2020 5:57	0:00:59	-39.69	9.42	492.03	-41.89	13.29	492.70	-143.84	0.16
607	5/22/2020 6:02	5/22/2020 6:03	0:01:01	-50.20	37.89	494.79	-51.04	43.48	494.87	-143.46	0.54
608	5/22/2020 6:40	5/22/2020 6:41	0:00:30	31.76	166.66	477.40	33.06	168.20	477.73	-143.79	0.21
609	5/22/2020 7:31	5/22/2020 7:32	0:01:00	-40.23	-13.59	492.33	-42.39	-9.66	492.99	-143.84	0.16
610	5/22/2020 7:37	5/22/2020 7:38	0:01:01	-50.27	14.37	494.93	-51.08	19.98	495.00	-143.47	0.53
611	5/22/2020 8:14	5/22/2020 8:15	0:00:40	31.94	142.97	477.27	33.67	145.04	477.71	-143.80	0.20
612	5/22/2020 9:05	5/22/2020 9:06	0:00:59	-40.39	-37.22	492.40	-42.54	-33.27	493.05	-143.84	0.16
613	5/22/2020 9:11	5/22/2020 9:12	0:00:59	-50.33	-9.14	494.95	-51.13	-3.51	495.01	-143.47	0.53
614	5/22/2020 9:49	5/22/2020 9:49	0:00:30	32.57	119.80	477.45	33.86	121.37	477.79	-143.82	0.18
615	5/22/2020 10:39	5/22/2020 10:40	0:00:50	-40.91	-60.21	492.67	-42.68	-56.88	493.20	-143.85	0.15
616	5/22/2020 10:45	5/22/2020 10:46	0:00:59	-50.40	-32.65	495.06	-51.17	-27.01	495.10	-143.47	0.53
617	5/22/2020 11:23	5/22/2020 11:23	0:00:30	33.18	96.63	477.60	34.46	98.22	477.95	-143.83	0.17
618	5/22/2020 12:13	5/22/2020 12:14	0:00:59	-41.06	-83.84	492.69	-43.16	-79.81	493.31	-143.85	0.15
619	5/22/2020 12:19	5/22/2020 12:20	0:01:00	-50.46	-56.17	495.01	-51.22	-50.52	495.05	-143.47	0.53
620	5/22/2020 12:57	5/22/2020 12:58	0:00:30	33.36	72.95	477.62	34.63	74.55	477.97	-143.84	0.16
621	5/22/2020 13:48	5/22/2020 13:48	0:00:50	-41.57	-106.82	492.81	-43.30	-103.42	493.31	-143.85	0.15
622	5/22/2020 13:53	5/22/2020 13:54	0:01:01	-50.52	-79.69	494.97	-51.26	-74.02	494.99	-143.46	0.54
623	5/22/2020 14:31	5/22/2020 14:32	0:00:31	33.97	49.80	477.77	35.23	51.42	478.12	-143.85	0.15
624	5/22/2020 15:22	5/22/2020 15:23	0:00:59	-41.72	-130.44	492.88	-43.78	-126.32	493.47	-143.85	0.15
625	5/22/2020 15:27	5/22/2020 15:28	0:01:01	-50.59	-103.20	494.99	-51.30	-97.52	495.00	-143.46	0.54
626	5/22/2020 16:06	5/22/2020 16:06	0:00:30	34.15	26.12	477.78	35.41	27.75	478.13	-143.86	0.14
627	5/22/2020 16:56	5/22/2020 16:57	0:00:50	-42.23	-153.39	492.96	-43.92	-149.92	493.44	-143.84	0.16
628	5/22/2020 17:02	5/22/2020 17:03	0:01:00	-50.65	-126.70	494.92	-51.34	-121.01	494.93	-143.45	0.55
629	5/22/2020 17:40	5/22/2020 17:40	0:00:31	34.75	2.99	477.94	36.00	4.65	478.30	-143.87	0.13
630	5/22/2020 18:30	5/22/2020 18:31	0:00:50	-42.38	-177.00	492.99	-44.05	-173.51	493.46	-143.85	0.15
631	5/22/2020 18:36	5/22/2020 18:37	0:00:59	-50.71	-150.20	494.89	-51.38	-144.50	494.89	-143.43	0.57
632	5/22/2020 19:14	5/22/2020 19:15	0:00:30	34.93	-20.68	478.00	36.18	-19.01	478.36	-143.89	0.11
633	5/22/2020 20:05	5/22/2020 20:05	0:00:50	-42.87	160.08	493.12	-44.51	163.62	493.58	-143.85	0.15
634	5/22/2020 20:10	5/22/2020 20:11	0:01:09	-50.76	-173.70	494.90	-51.49	-167.02	494.87	-143.41	0.59
635	5/22/2020 20:48	5/22/2020 20:49	0:00:20	35.53	-43.79	478.24	36.35	-42.67	478.48	-143.90	0.10
636	5/22/2020 21:39	5/22/2020 21:40	0:00:50	-43.01	136.47	493.23	-44.64	140.03	493.70	-143.85	0.15
637	5/22/2020 21:44	5/22/2020 21:45	0:01:10	-50.82	162.80	495.03	-51.52	169.49	495.00	-143.42	0.58
638	5/22/2020 22:23	5/22/2020 22:23	0:00:19	36.11	-66.91	478.42	36.93	-65.77	478.66	-143.91	0.09
639	5/22/2020 23:13	5/22/2020 23:14	0:00:41	-43.49	113.56	493.39	-44.78	116.44	493.76	-143.86	0.14
640	5/22/2020 23:18	5/22/2020 23:19	0:01:10	-50.87	139.29	495.10	-51.55	146.00	495.08	-143.43	0.57
641	5/22/2020 23:57	5/22/2020 23:57	0:00:20	36.28	-90.58	478.48	37.10	-89.43	478.71	-143.92	0.08
642	5/23/2020 0:47	5/23/2020 0:48	0:00:40	-43.63	89.96	493.34	-44.91	92.85	493.71	-143.86	0.14
643	5/23/2020 0:52	5/23/2020 0:54	0:01:11	-50.93	115.79	495.04	-51.58	122.52	495.00	-143.43	0.57
644	5/23/2020 1:31	5/23/2020 1:32	0:00:19	36.87	-113.67	478.65	37.67	-112.50	478.89	-143.94	0.06
645	5/23/2020 2:21	5/23/2020 2:22	0:00:50	-43.77	66.36	493.35	-45.35	70.02	493.80	-143.85	0.15
646	5/23/2020 2:27	5/23/2020 2:28	0:01:01	-51.10	93.25	495.01	-51.61	99.03	494.96	-143.43	0.57
647	5/23/2020 3:05	5/23/2020 3:06	0:00:20	37.04	-137.32	478.67	37.84	-136.15	478.90	-143.94	0.06
648	5/23/2020 3:56	5/23/2020 3:56	0:00:40	-44.24	43.48	493.48	-45.48	46.44	493.83	-143.85	0.15
649	5/23/2020 4:01	5/23/2020 4:02	0:01:01	-51.14	69.76	494.98	-51.63	75.55	494.92	-143.43	0.57
650	5/23/2020 4:40	5/23/2020 4:40	0:00:20	37.22	-160.97	478.72	38.01	-159.80	478.96	-143.95	0.05
651	5/23/2020 5:30	5/23/2020 5:31	0:00:39	-44.37	19.89	493.61	-45.60	22.86	493.95	-143.87	0.13
652	5/23/2020 5:35	5/23/2020 5:36	0:00:59	-51.19	46.26	495.06	-51.65	52.06	494.99	-143.42	0.58
653	5/23/2020 6:14	5/23/2020 6:14	0:00:20	37.79	175.97	478.79	38.57	177.16	479.02	-143.97	0.03
654	5/23/2020 7:04	5/23/2020 7:05	0:00:50	-44.51	-3.70	493.79	-46.02	0.05	494.21	-143.86	0.14
655	5/23/2020 7:09	5/23/2020 7:10	0:00:59	-51.23	22.77	495.19	-51.67	28.58	495.11	-143.43	0.57
656	5/23/2020 7:48	5/23/2020 7:48	0:00:09	38.35	152.91	478.76	38.74	153.52	478.88	-143.97	0.03
657	5/23/2020 8:38	5/23/2020 8:39	0:00:39	-44.96	-26.55	493.94	-46.15	-23.51	494.26	-143.86	0.14
658	5/23/2020 8:43	5/23/2020 8:44	0:01:00	-51.27	-0.72	495.20	-51.69	5.10	495.11	-143.43	0.57
659	5/23/2020 9:22	5/23/2020 9:23	0:00:10	38.52	129.27	478.84	38.91	129.88	478.96	-143.98	0.02
660	5/23/2020 10:13	5/23/2020 10:13	0:00:39	-45.09	-50.13	494.08	-46.27	-47.08	494.40	-143.87	0.13

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)
661	5/23/2020 10:18	5/23/2020 10:19	0:01:01	-51.31	-24.21	495.30	-51.71	-18.38	495.19	-143.43	0.57
662	5/23/2020 10:57	5/23/2020 10:57	0:00:09	39.07	106.24	479.02	39.46	106.85	479.14	-143.99	0.01
663	5/23/2020 11:47	5/23/2020 11:47	0:00:40	-45.22	-73.72	494.09	-46.39	-70.65	494.40	-143.87	0.13
664	5/23/2020 11:52	5/23/2020 11:53	0:01:01	-51.35	-47.71	495.24	-51.73	-41.87	495.12	-143.44	0.56
665	5/23/2020 12:31	5/23/2020 12:31	0:00:00	39.62	83.22	479.16	39.62	83.22	479.16	-143.99	0.01
666	5/23/2020 13:21	5/23/2020 13:22	0:00:30	-45.64	-96.54	494.15	-46.51	-94.22	494.38	-143.87	0.13
667	5/23/2020 13:26	5/23/2020 13:27	0:01:00	-51.39	-71.20	495.17	-51.74	-65.36	495.04	-143.44	0.56
668	5/23/2020 14:55	5/23/2020 14:56	0:00:40	-45.77	-120.12	494.21	-46.90	-116.99	494.49	-143.86	0.14
669	5/23/2020 15:00	5/23/2020 15:01	0:00:59	-51.42	-94.69	495.18	-51.76	-88.84	495.04	-143.44	0.56
670	5/23/2020 16:29	5/23/2020 16:30	0:00:41	-45.90	-143.69	494.18	-47.02	-140.55	494.46	-143.86	0.14
671	5/23/2020 16:34	5/23/2020 16:35	0:00:59	-51.46	-118.17	495.11	-51.77	-112.31	494.96	-143.43	0.57
672	5/23/2020 18:04	5/23/2020 18:04	0:00:41	-46.02	-167.26	494.19	-47.13	-164.10	494.46	-143.88	0.12
673	5/23/2020 18:08	5/23/2020 18:09	0:01:01	-51.49	-141.65	495.06	-51.78	-135.79	494.90	-143.43	0.57
674	5/23/2020 19:38	5/23/2020 19:38	0:00:30	-46.43	169.96	494.28	-47.25	172.35	494.48	-143.87	0.13
675	5/23/2020 19:43	5/23/2020 19:44	0:01:01	-51.52	-165.13	495.05	-51.78	-159.26	494.89	-143.43	0.57
676	5/23/2020 21:12	5/23/2020 21:13	0:00:41	-46.55	146.40	494.40	-47.61	149.62	494.66	-143.87	0.13
677	5/23/2020 21:17	5/23/2020 21:18	0:01:00	-51.55	171.39	495.18	-51.79	177.26	495.01	-143.44	0.56
678	5/23/2020 22:46	5/23/2020 22:47	0:00:40	-46.67	122.84	494.47	-47.72	126.07	494.74	-143.88	0.12
679	5/23/2020 22:51	5/23/2020 22:52	0:00:59	-51.58	147.91	495.27	-51.79	153.78	495.10	-143.45	0.55
680	5/24/2020 0:20	5/24/2020 0:21	0:00:39	-46.79	99.28	494.42	-47.83	102.52	494.68	-143.88	0.12
681	5/24/2020 0:25	5/24/2020 0:26	0:00:59	-51.61	124.42	495.20	-51.80	130.30	495.02	-143.45	0.55
682	5/24/2020 1:55	5/24/2020 1:55	0:00:29	-47.18	76.52	494.49	-47.94	78.98	494.67	-143.89	0.11
683	5/24/2020 1:59	5/24/2020 2:00	0:00:50	-51.63	100.95	495.15	-51.80	105.85	495.01	-143.45	0.55
684	5/24/2020 3:29	5/24/2020 3:29	0:00:30	-47.29	52.98	494.50	-48.04	55.44	494.68	-143.88	0.12
685	5/24/2020 3:33	5/24/2020 3:34	0:00:50	-51.66	77.47	495.11	-51.80	82.38	494.96	-143.45	0.55
686	5/24/2020 5:03	5/24/2020 5:04	0:00:30	-47.40	29.43	494.61	-48.15	31.91	494.78	-143.88	0.12
687	5/24/2020 5:08	5/24/2020 5:08	0:00:50	-51.68	54.00	495.16	-51.80	58.90	495.00	-143.44	0.56
688	5/24/2020 6:37	5/24/2020 6:38	0:00:41	-47.51	5.88	494.78	-48.48	9.22	495.01	-143.88	0.12
689	5/24/2020 6:42	5/24/2020 6:43	0:00:51	-51.70	30.52	495.29	-51.80	35.42	495.11	-143.45	0.55
690	5/24/2020 8:11	5/24/2020 8:12	0:00:41	-47.63	-17.66	494.83	-48.58	-14.31	495.04	-143.89	0.11
691	5/24/2020 8:16	5/24/2020 8:17	0:00:50	-51.71	7.05	495.29	-51.80	11.96	495.11	-143.46	0.54
692	5/24/2020 9:46	5/24/2020 9:46	0:00:31	-47.98	-40.37	495.02	-48.68	-37.84	495.17	-143.90	0.10
693	5/24/2020 9:50	5/24/2020 9:51	0:00:50	-51.73	-16.43	495.37	-51.80	-11.52	495.18	-143.48	0.52
694	5/24/2020 11:20	5/24/2020 11:20	0:00:30	-48.08	-63.92	495.00	-48.77	-61.37	495.15	-143.90	0.10
695	5/24/2020 11:24	5/24/2020 11:25	0:00:50	-51.74	-39.91	495.30	-51.79	-35.00	495.10	-143.48	0.52
696	5/24/2020 12:54	5/24/2020 12:55	0:00:30	-48.19	-87.46	494.97	-48.87	-84.90	495.11	-143.90	0.10
697	5/24/2020 12:58	5/24/2020 12:59	0:00:50	-51.76	-63.39	495.22	-51.79	-58.48	495.01	-143.48	0.52
698	5/24/2020 14:28	5/24/2020 14:29	0:00:29	-48.29	-111.00	495.01	-48.96	-108.43	495.15	-143.90	0.10
699	5/24/2020 14:32	5/24/2020 14:33	0:00:59	-51.74	-87.85	495.26	-51.78	-81.96	495.00	-143.49	0.51
700	5/24/2020 16:02	5/24/2020 16:03	0:00:30	-48.39	-134.53	494.98	-49.05	-131.95	495.11	-143.90	0.10
701	5/24/2020 16:07	5/24/2020 16:08	0:01:01	-51.76	-111.32	495.19	-51.77	-105.42	494.92	-143.50	0.50
702	5/24/2020 17:37	5/24/2020 17:37	0:00:31	-48.49	-158.05	494.96	-49.15	-155.46	495.09	-143.90	0.10
703	5/24/2020 17:41	5/24/2020 17:42	0:01:01	-51.77	-134.79	495.12	-51.76	-128.89	494.84	-143.50	0.50
704	5/24/2020 19:11	5/24/2020 19:11	0:00:30	-48.81	179.28	495.02	-49.44	-178.10	495.13	-143.90	0.10
705	5/24/2020 19:15	5/24/2020 19:16	0:01:00	-51.78	-158.25	495.10	-51.74	-152.36	494.81	-143.49	0.51
706	5/24/2020 20:45	5/24/2020 20:46	0:00:30	-48.91	155.76	495.13	-49.52	158.39	495.25	-143.90	0.10
707	5/24/2020 20:49	5/24/2020 20:50	0:00:59	-51.78	178.27	495.21	-51.73	-175.83	494.93	-143.49	0.51
708	5/24/2020 22:19	5/24/2020 22:20	0:00:31	-49.00	132.24	495.23	-49.60	134.88	495.34	-143.90	0.10
709	5/24/2020 22:23	5/24/2020 22:24	0:00:59	-51.79	154.80	495.32	-51.71	160.69	495.03	-143.49	0.51
710	5/24/2020 23:53	5/24/2020 23:54	0:00:30	-49.10	108.72	495.17	-49.69	111.37	495.28	-143.89	0.11
711	5/24/2020 23:57	5/24/2020 23:58	0:01:00	-51.80	131.33	495.24	-51.69	137.22	494.95	-143.49	0.51
712	5/25/2020 1:28	5/25/2020 1:28	0:00:29	-49.19	85.20	495.15	-49.77	87.86	495.26	-143.89	0.11
713	5/25/2020 1:32	5/25/2020 1:33	0:01:01	-51.80	107.86	495.18	-51.67	113.75	494.88	-143.48	0.52
714	5/25/2020 3:02	5/25/2020 3:02	0:00:30	-49.28	61.69	495.14	-49.85	64.36	495.25	-143.89	0.11
715	5/25/2020 3:06	5/25/2020 3:07	0:01:01	-51.80	84.40	495.13	-51.65	90.28	494.81	-143.48	0.52
716	5/25/2020 4:36	5/25/2020 4:36	0:00:30	-49.37	38.17	495.23	-49.93	40.85	495.33	-143.89	0.11
717	5/25/2020 4:40	5/25/2020 4:41	0:01:00	-51.80	60.93	495.16	-51.63	66.81	494.83	-143.48	0.52
718	5/25/2020 6:10	5/25/2020 6:11	0:00:31	-49.45	14.66	495.39	-50.01	17.35	495.49	-143.90	0.10
719	5/25/2020 6:14	5/25/2020 6:15	0:00:50	-51.80	37.46	495.28	-51.66	42.36	495.00	-143.48	0.52
720	5/25/2020 7:44	5/25/2020 7:45	0:00:19	-49.73	-7.95	495.46	-50.08	-6.15	495.52	-143.90	0.10

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)
721	5/25/2020 7:48	5/25/2020 7:49	0:00:50	-51.80	14.00	495.27	-51.64	18.90	494.99	-143.49	0.51
722	5/25/2020 9:19	5/25/2020 9:19	0:00:20	-49.81	-31.46	495.58	-50.15	-29.64	495.63	-143.90	0.10
723	5/25/2020 9:22	5/25/2020 9:23	0:00:49	-51.79	-9.47	495.35	-51.61	-4.58	495.05	-143.49	0.51
724	5/25/2020 10:53	5/25/2020 10:53	0:00:20	-49.88	-54.97	495.55	-50.23	-53.15	495.60	-143.90	0.10
725	5/25/2020 10:57	5/25/2020 10:57	0:00:50	-51.78	-32.95	495.27	-51.58	-28.06	494.96	-143.49	0.51
726	5/25/2020 12:27	5/25/2020 12:27	0:00:21	-49.96	-78.47	495.50	-50.30	-76.65	495.54	-143.90	0.10
727	5/25/2020 12:31	5/25/2020 12:32	0:00:50	-51.78	-56.42	495.17	-51.56	-51.53	494.86	-143.50	0.50
728	5/25/2020 14:01	5/25/2020 14:02	0:00:29	-50.04	-101.98	495.53	-50.52	-99.22	495.59	-143.91	0.09
729	5/25/2020 14:05	5/25/2020 14:06	0:00:50	-51.77	-79.89	495.16	-51.53	-75.00	494.84	-143.51	0.49
730	5/25/2020 15:35	5/25/2020 15:36	0:00:30	-50.12	-125.47	495.49	-50.58	-122.71	495.54	-143.91	0.09
731	5/25/2020 15:39	5/25/2020 15:40	0:00:50	-51.75	-103.35	495.09	-51.50	-98.47	494.76	-143.51	0.49
732	5/25/2020 17:09	5/25/2020 17:10	0:00:30	-50.19	-148.96	495.45	-50.65	-146.19	495.50	-143.90	0.10
733	5/25/2020 17:13	5/25/2020 17:14	0:00:49	-51.74	-126.81	495.00	-51.46	-121.94	494.66	-143.51	0.49
734	5/25/2020 18:44	5/25/2020 18:44	0:00:30	-50.26	-172.46	495.45	-50.71	-169.68	495.49	-143.90	0.10
735	5/25/2020 18:47	5/25/2020 18:48	0:00:50	-51.72	-150.28	494.97	-51.42	-145.41	494.62	-143.50	0.50
736	5/25/2020 20:18	5/25/2020 20:18	0:00:30	-50.33	164.05	495.56	-50.77	166.84	495.60	-143.89	0.11
737	5/25/2020 20:21	5/25/2020 20:22	0:00:59	-51.74	-174.72	495.14	-51.39	-168.88	494.73	-143.49	0.51
738	5/25/2020 21:52	5/25/2020 21:52	0:00:29	-50.40	140.56	495.67	-50.83	143.35	495.71	-143.89	0.11
739	5/25/2020 21:56	5/25/2020 21:56	0:00:50	-51.73	161.81	495.25	-51.43	166.68	494.92	-143.48	0.52
740	5/25/2020 23:26	5/25/2020 23:27	0:00:30	-50.47	117.07	495.61	-50.88	119.87	495.65	-143.89	0.11
741	5/25/2020 23:30	5/25/2020 23:31	0:00:50	-51.71	138.34	495.17	-51.40	143.21	494.84	-143.47	0.53
742	5/26/2020 1:00	5/26/2020 1:01	0:00:30	-50.54	93.58	495.57	-50.94	96.39	495.60	-143.89	0.11
743	5/26/2020 1:04	5/26/2020 1:05	0:00:50	-51.69	114.88	495.10	-51.36	119.74	494.76	-143.47	0.53
744	5/26/2020 2:34	5/26/2020 2:35	0:00:31	-50.60	70.10	495.55	-50.99	72.92	495.57	-143.89	0.11
745	5/26/2020 2:38	5/26/2020 2:39	0:00:50	-51.67	91.42	495.03	-51.32	96.27	494.68	-143.47	0.53
746	5/26/2020 4:09	5/26/2020 4:09	0:00:19	-50.80	47.55	495.62	-51.05	49.44	495.63	-143.89	0.11
747	5/26/2020 4:12	5/26/2020 4:13	0:00:50	-51.65	67.95	495.04	-51.28	72.80	494.68	-143.48	0.52
748	5/26/2020 5:43	5/26/2020 5:43	0:00:20	-50.86	24.07	495.77	-51.10	25.96	495.78	-143.89	0.11
749	5/26/2020 5:46	5/26/2020 5:47	0:00:50	-51.62	44.48	495.15	-51.23	49.32	494.77	-143.49	0.51
750	5/26/2020 7:17	5/26/2020 7:17	0:00:20	-50.91	0.59	495.80	-51.15	2.49	495.80	-143.89	0.11
751	5/26/2020 7:21	5/26/2020 7:21	0:00:49	-51.60	21.02	495.14	-51.19	25.85	494.76	-143.50	0.50
752	5/26/2020 8:51	5/26/2020 8:52	0:00:21	-50.97	-22.89	495.90	-51.19	-20.98	495.90	-143.88	0.12
753	5/26/2020 8:55	5/26/2020 8:56	0:00:50	-51.57	-2.44	495.20	-51.14	2.38	494.80	-143.50	0.50
754	5/26/2020 10:25	5/26/2020 10:26	0:00:20	-51.02	-46.37	495.86	-51.23	-44.47	495.85	-143.88	0.12
755	5/26/2020 10:29	5/26/2020 10:30	0:00:41	-51.54	-25.92	495.11	-51.20	-22.06	494.80	-143.48	0.52
756	5/26/2020 12:00	5/26/2020 12:00	0:00:20	-51.07	-69.85	495.79	-51.28	-67.94	495.78	-143.89	0.11
757	5/26/2020 12:03	5/26/2020 12:04	0:00:40	-51.51	-49.39	495.00	-51.15	-45.54	494.68	-143.46	0.54
758	5/26/2020 13:34	5/26/2020 13:34	0:00:19	-51.12	-93.33	495.81	-51.32	-91.42	495.80	-143.89	0.11
759	5/26/2020 13:37	5/26/2020 13:38	0:00:39	-51.48	-72.86	494.98	-51.10	-69.01	494.65	-143.46	0.54
760	5/26/2020 15:08	5/26/2020 15:08	0:00:20	-51.17	-116.80	495.77	-51.36	-114.88	495.75	-143.89	0.11
761	5/26/2020 15:11	5/26/2020 15:12	0:00:39	-51.44	-96.32	494.91	-51.06	-92.48	494.57	-143.46	0.54
762	5/26/2020 16:42	5/26/2020 16:42	0:00:21	-51.22	-140.27	495.70	-51.40	-138.35	495.69	-143.89	0.11
763	5/26/2020 16:46	5/26/2020 16:46	0:00:41	-51.41	-119.78	494.81	-51.00	-115.95	494.46	-143.46	0.54
764	5/26/2020 18:16	5/26/2020 18:17	0:00:20	-51.26	-163.73	495.69	-51.44	-161.81	495.67	-143.88	0.12
765	5/26/2020 18:20	5/26/2020 18:20	0:00:50	-51.45	-144.21	494.84	-50.95	-139.42	494.41	-143.47	0.53
766	5/26/2020 19:50	5/26/2020 19:51	0:00:20	-51.30	172.80	495.79	-51.47	174.73	495.77	-143.88	0.12
767	5/26/2020 19:54	5/26/2020 19:55	0:00:50	-51.41	-167.68	494.94	-50.89	-162.90	494.51	-143.48	0.52
768	5/26/2020 21:25	5/26/2020 21:25	0:00:19	-51.34	149.33	495.91	-51.50	151.26	495.89	-143.89	0.11
769	5/26/2020 21:28	5/26/2020 21:29	0:00:41	-51.37	168.85	495.06	-50.96	172.67	494.72	-143.49	0.51
770	5/26/2020 22:59	5/26/2020 22:59	0:00:20	-51.38	125.86	495.85	-51.54	127.80	495.82	-143.89	0.11
771	5/26/2020 23:02	5/26/2020 23:03	0:00:41	-51.33	145.39	494.98	-50.90	149.20	494.64	-143.48	0.52
772	5/27/2020 0:33	5/27/2020 0:33	0:00:21	-51.42	102.40	495.79	-51.57	104.33	495.77	-143.89	0.11
773	5/27/2020 0:36	5/27/2020 0:37	0:00:41	-51.29	121.92	494.90	-50.85	125.73	494.55	-143.46	0.54
774	5/27/2020 2:07	5/27/2020 2:07	0:00:21	-51.46	78.94	495.75	-51.60	80.88	495.72	-143.89	0.11
775	5/27/2020 2:10	5/27/2020 2:11	0:00:39	-51.25	98.46	494.81	-50.79	102.25	494.46	-143.45	0.55
776	5/27/2020 3:41	5/27/2020 3:42	0:00:20	-51.49	55.47	495.79	-51.62	57.42	495.75	-143.89	0.11
777	5/27/2020 3:45	5/27/2020 3:45	0:00:39	-51.20	74.99	494.80	-50.73	78.78	494.44	-143.45	0.55
778	5/27/2020 5:15	5/27/2020 5:16	0:00:19	-51.52	32.01	495.93	-51.65	33.95	495.89	-143.89	0.11
779	5/27/2020 5:19	5/27/2020 5:19	0:00:39	-51.16	51.52	494.89	-50.67	55.30	494.52	-143.46	0.54
780	5/27/2020 6:50	5/27/2020 6:50	0:00:20	-51.56	8.55	495.95	-51.67	10.50	495.91	-143.89	0.11

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)
781	5/27/2020 6:53	5/27/2020 6:54	0:00:41	-51.11	28.05	494.88	-50.60	31.82	494.50	-143.47	0.53
782	5/27/2020 8:24	5/27/2020 8:24	0:00:20	-51.58	-14.91	496.03	-51.69	-12.96	495.98	-143.90	0.10
783	5/27/2020 8:27	5/27/2020 8:28	0:00:30	-51.06	4.58	494.92	-50.68	7.41	494.64	-143.49	0.51
784	5/27/2020 9:58	5/27/2020 9:58	0:00:11	-51.61	-38.38	495.99	-51.66	-37.40	495.96	-143.90	0.10
785	5/27/2020 10:01	5/27/2020 10:02	0:00:29	-51.00	-18.90	494.83	-50.61	-16.07	494.54	-143.50	0.50
786	5/27/2020 11:32	5/27/2020 11:32	0:00:09	-51.64	-61.84	495.90	-51.69	-60.86	495.87	-143.91	0.09
787	5/27/2020 11:35	5/27/2020 11:36	0:00:30	-50.95	-42.37	494.71	-50.55	-39.56	494.41	-143.47	0.53
788	5/27/2020 13:06	5/27/2020 13:06	0:00:09	-51.66	-85.30	495.91	-51.71	-84.32	495.88	-143.91	0.09
789	5/27/2020 13:10	5/27/2020 13:10	0:00:30	-50.90	-65.85	494.68	-50.48	-63.04	494.38	-143.46	0.54
790	5/27/2020 14:40	5/27/2020 14:41	0:00:10	-51.68	-108.76	495.86	-51.73	-107.78	495.83	-143.91	0.09
791	5/27/2020 14:44	5/27/2020 14:44	0:00:40	-50.96	-90.26	494.70	-50.42	-86.52	494.30	-143.45	0.55
792	5/27/2020 16:15	5/27/2020 16:15	0:00:11	-51.70	-132.21	495.78	-51.74	-131.23	495.75	-143.92	0.08
793	5/27/2020 16:18	5/27/2020 16:18	0:00:39	-50.91	-113.73	494.58	-50.35	-109.99	494.18	-143.45	0.55
794	5/27/2020 17:49	5/27/2020 17:49	0:00:11	-51.72	-155.66	495.76	-51.75	-154.68	495.72	-143.92	0.08
795	5/27/2020 17:52	5/27/2020 17:52	0:00:30	-50.85	-137.19	494.53	-50.43	-134.39	494.23	-143.47	0.53
796	5/27/2020 19:23	5/27/2020 19:23	0:00:09	-51.74	-179.11	495.85	-51.76	-178.13	495.81	-143.93	0.07
797	5/27/2020 19:26	5/27/2020 19:27	0:00:31	-50.79	-160.67	494.61	-50.35	-157.88	494.31	-143.50	0.50
798	5/27/2020 20:57	5/27/2020 20:57	0:00:09	-51.75	157.43	495.97	-51.78	158.41	495.94	-143.94	0.06
799	5/27/2020 21:00	5/27/2020 21:01	0:00:30	-50.73	175.86	494.74	-50.28	178.64	494.43	-143.52	0.48
800	5/27/2020 22:31	5/27/2020 22:31	0:00:09	-51.76	133.98	495.91	-51.79	134.96	495.88	-143.94	0.06
801	5/27/2020 22:34	5/27/2020 22:35	0:00:30	-50.67	152.38	494.67	-50.21	155.16	494.36	-143.49	0.51
802	5/28/2020 0:05	5/28/2020 0:06	0:00:11	-51.78	110.53	495.84	-51.79	111.51	495.80	-143.93	0.07
803	5/28/2020 0:09	5/28/2020 0:09	0:00:29	-50.60	128.91	494.57	-50.14	131.68	494.26	-143.47	0.53
804	5/28/2020 1:40	5/28/2020 1:40	0:00:11	-51.79	87.08	495.78	-51.80	88.06	495.74	-143.92	0.08
805	5/28/2020 1:43	5/28/2020 1:43	0:00:30	-50.54	105.44	494.47	-50.06	108.20	494.15	-143.46	0.54
806	5/28/2020 3:14	5/28/2020 3:14	0:00:10	-51.79	63.63	495.79	-51.80	64.61	495.75	-143.92	0.08
807	5/28/2020 3:17	5/28/2020 3:17	0:00:30	-50.47	81.96	494.44	-49.98	84.71	494.11	-143.48	0.52
808	5/28/2020 4:48	5/28/2020 4:48	0:00:09	-51.80	40.17	495.92	-51.80	41.16	495.88	-143.91	0.09
809	5/28/2020 4:51	5/28/2020 4:51	0:00:29	-50.55	57.56	494.62	-50.07	60.31	494.30	-143.50	0.50
810	5/28/2020 6:22	5/28/2020 6:22	0:00:09	-51.80	16.73	495.93	-51.80	17.71	495.89	-143.91	0.09
811	5/28/2020 6:25	5/28/2020 6:26	0:00:30	-50.48	34.08	494.60	-50.00	36.83	494.28	-143.53	0.47
812	5/28/2020 7:56	5/28/2020 7:56	0:00:10	-51.80	-6.72	496.00	-51.80	-5.74	495.95	-143.91	0.09
813	5/28/2020 7:59	5/28/2020 8:00	0:00:30	-50.41	10.61	494.63	-49.91	13.35	494.30	-143.54	0.46
814	5/28/2020 9:30	5/28/2020 9:31	0:00:11	-51.80	-30.18	495.95	-51.79	-29.20	495.90	-143.91	0.09
815	5/28/2020 9:33	5/28/2020 9:34	0:00:31	-50.34	-12.88	494.54	-49.83	-10.15	494.20	-143.51	0.49
816	5/28/2020 11:05	5/28/2020 11:05	0:00:11	-51.80	-53.63	495.85	-51.79	-52.65	495.79	-143.91	0.09
817	5/28/2020 11:08	5/28/2020 11:08	0:00:30	-50.27	-36.36	494.41	-49.75	-33.64	494.06	-143.50	0.50
818	5/28/2020 12:39	5/28/2020 12:39	0:00:00	-51.80	-77.09	495.84	-51.80	-77.09	495.84	-143.91	0.09
819	5/28/2020 12:42	5/28/2020 12:42	0:00:30	-50.19	-59.84	494.37	-49.67	-57.13	494.02	-143.50	0.50
820	5/28/2020 14:13	5/28/2020 14:13	0:00:00	-51.79	-100.53	495.79	-51.79	-100.53	495.79	-143.91	0.09
821	5/28/2020 14:16	5/28/2020 14:16	0:00:20	-50.12	-83.32	494.29	-49.77	-81.51	494.06	-143.52	0.48
822	5/28/2020 15:22	5/28/2020 15:22	0:00:00	3.25	147.64	481.88	3.25	147.64	481.88	-143.90	0.10
823	5/28/2020 15:47	5/28/2020 15:48	0:01:20	-51.80	-126.11	476.24	-51.52	-118.26	471.80	-143.53	0.47
824	5/28/2020 15:50	5/28/2020 15:51	0:00:59	-50.38	-108.74	465.56	-49.31	-103.30	461.48	-142.98	1.02
825	5/28/2020 15:52	5/28/2020 15:52	0:00:00	-47.97	-98.13	457.17	-47.97	-98.13	457.17	-143.91	0.09
826	5/28/2020 16:31	5/28/2020 16:38	0:07:11	50.98	28.89	379.68	47.88	70.49	402.78	-142.14	1.86
827	5/28/2020 16:38	5/28/2020 16:39	0:00:11	46.82	73.82	405.11	46.54	74.63	405.69	-143.93	0.07
828	5/28/2020 17:20	5/28/2020 17:21	0:01:20	-51.80	-149.14	476.09	-51.48	-141.30	471.63	-143.55	0.45
829	5/28/2020 17:23	5/28/2020 17:24	0:00:59	-50.29	-131.81	465.36	-49.19	-126.39	461.27	-143.02	0.98
830	5/28/2020 17:25	5/28/2020 17:25	0:00:00	-47.82	-121.25	456.94	-47.82	-121.25	456.94	-143.94	0.06
831	5/28/2020 17:42	5/28/2020 18:00	0:18:20	-3.49	-68.05	377.73	46.71	-13.31	365.50	-141.52	2.48
832	5/28/2020 18:03	5/28/2020 18:03	0:00:00	50.15	-0.09	366.97	50.15	-0.09	366.97	-143.79	0.21
833	5/28/2020 18:03	5/28/2020 18:12	0:08:30	50.90	4.69	367.34	45.80	53.03	366.95	-141.74	2.26
834	5/28/2020 18:49	5/28/2020 18:57	0:08:09	-50.64	171.22	366.96	-46.92	-141.73	364.63	-140.96	3.04
835	5/28/2020 18:58	5/28/2020 18:58	0:00:31	-46.05	-139.30	364.29	-45.14	-136.95	363.94	-143.09	0.91
836	5/28/2020 19:34	5/28/2020 19:34	0:00:00	50.23	-22.94	367.01	50.23	-22.94	367.01	-143.82	0.18
837	5/28/2020 19:35	5/28/2020 19:44	0:08:30	50.96	-18.14	367.36	45.66	30.11	366.86	-141.73	2.27
838	5/28/2020 20:21	5/28/2020 20:29	0:08:00	-50.71	148.38	367.07	-47.06	-165.46	364.86	-140.99	3.01
839	5/28/2020 20:29	5/28/2020 20:30	0:00:30	-45.92	-162.22	364.42	-44.99	-159.88	364.07	-142.99	1.01
840	5/28/2020 21:06	5/28/2020 21:06	0:00:00	50.30	-45.80	366.89	50.30	-45.80	366.89	-143.85	0.15

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)
841	5/28/2020 21:07	5/28/2020 21:15	0:08:30	51.01	-40.98	367.23	45.52	7.18	366.60	-141.72	2.28
842	5/28/2020 21:52	5/28/2020 22:00	0:08:00	-50.77	125.55	367.01	-46.94	171.65	364.78	-140.96	3.04
843	5/28/2020 22:01	5/28/2020 22:01	0:00:30	-45.78	174.87	364.34	-44.84	177.20	363.99	-142.95	1.05
844	5/28/2020 22:38	5/28/2020 22:38	0:00:00	50.38	-68.64	366.92	50.38	-68.64	366.92	-143.87	0.13
845	5/28/2020 22:38	5/28/2020 22:47	0:08:31	51.07	-63.81	367.25	45.37	-15.74	366.54	-141.70	2.30
846	5/28/2020 23:24	5/28/2020 23:32	0:08:00	-50.84	102.73	366.92	-46.80	148.75	364.63	-140.94	3.06
847	5/28/2020 23:32	5/28/2020 23:33	0:00:30	-45.93	151.17	364.30	-45.01	153.51	363.95	-142.98	1.02
848	5/29/2020 0:09	5/29/2020 0:09	0:00:00	50.46	-91.46	366.91	50.46	-91.46	366.91	-143.89	0.11
849	5/29/2020 0:10	5/29/2020 0:18	0:08:20	51.13	-86.62	367.24	45.53	-39.42	366.55	-141.70	2.30
850	5/29/2020 0:56	5/29/2020 1:04	0:07:59	-50.90	79.91	366.86	-46.67	125.86	364.48	-140.94	3.06
851	5/29/2020 1:04	5/29/2020 1:05	0:00:30	-45.79	128.27	364.14	-44.86	130.60	363.79	-143.04	0.96
852	5/29/2020 1:41	5/29/2020 1:41	0:00:00	50.53	-114.28	366.96	50.53	-114.28	366.96	-143.91	0.09
853	5/29/2020 1:42	5/29/2020 1:50	0:08:21	51.18	-109.43	367.28	45.38	-62.33	366.56	-141.71	2.29
854	5/29/2020 2:27	5/29/2020 2:35	0:07:50	-50.96	57.10	366.86	-46.81	102.16	364.47	-140.97	3.03
855	5/29/2020 2:36	5/29/2020 2:36	0:00:30	-45.64	105.37	364.01	-44.70	107.68	363.66	-142.98	1.02
856	5/29/2020 3:13	5/29/2020 3:13	0:00:00	50.60	-137.10	366.99	50.60	-137.10	366.99	-143.94	0.06
857	5/29/2020 3:13	5/29/2020 3:22	0:08:21	51.23	-132.23	367.31	45.23	-85.24	366.57	-141.72	2.28
858	5/29/2020 3:59	5/29/2020 4:07	0:07:51	-51.02	34.28	366.97	-46.68	79.26	364.47	-141.00	3.00
859	5/29/2020 4:07	5/29/2020 4:08	0:00:30	-45.50	82.46	364.01	-44.55	84.76	363.64	-142.90	1.10
860	5/29/2020 4:44	5/29/2020 4:44	0:00:00	50.67	-159.92	366.85	50.67	-159.92	366.85	-143.98	0.02
861	5/29/2020 4:45	5/29/2020 4:53	0:08:21	51.28	-155.04	367.17	45.08	-108.14	366.43	-141.71	2.29
862	5/29/2020 5:31	5/29/2020 5:38	0:07:51	-51.08	11.47	367.03	-46.54	56.38	364.43	-141.03	2.97
863	5/29/2020 5:39	5/29/2020 5:40	0:00:31	-45.35	59.55	363.97	-44.39	61.84	363.60	-142.96	1.04
864	5/29/2020 6:17	5/29/2020 6:25	0:08:10	51.33	-177.83	367.03	45.24	-131.82	366.35	-141.71	2.29
865	5/29/2020 7:02	5/29/2020 7:10	0:07:51	-51.13	-11.33	367.05	-46.40	33.49	364.38	-141.00	3.00
866	5/29/2020 7:11	5/29/2020 7:11	0:00:29	-45.50	35.87	364.03	-44.55	38.17	363.66	-143.00	1.00
867	5/29/2020 7:48	5/29/2020 7:57	0:08:10	51.37	159.37	367.19	45.08	-154.72	366.46	-141.71	2.29
868	5/29/2020 8:34	5/29/2020 8:42	0:07:40	-51.18	-34.14	367.08	-46.55	9.79	364.41	-140.99	3.01
869	5/29/2020 8:42	5/29/2020 8:43	0:00:29	-45.35	12.96	363.94	-44.39	15.25	363.57	-143.01	0.99
870	5/29/2020 9:20	5/29/2020 9:28	0:08:09	51.41	136.57	367.19	44.93	-177.64	366.45	-141.71	2.29
871	5/29/2020 10:06	5/29/2020 10:13	0:07:40	-51.23	-56.94	367.00	-46.41	-13.10	364.24	-141.00	3.00
872	5/29/2020 10:14	5/29/2020 10:14	0:00:30	-45.20	-9.94	363.76	-44.23	-7.67	363.38	-142.93	1.07
873	5/29/2020 10:52	5/29/2020 11:00	0:08:09	51.45	113.78	367.18	44.77	159.46	366.41	-141.70	2.30
874	5/29/2020 11:37	5/29/2020 11:45	0:07:40	-51.29	-79.74	366.96	-46.26	-35.99	364.12	-141.03	2.97
875	5/29/2020 11:46	5/29/2020 11:46	0:00:30	-45.05	-32.85	363.63	-44.07	-30.58	363.25	-142.94	1.06
876	5/29/2020 12:23	5/29/2020 12:31	0:08:00	51.49	90.99	367.18	44.93	135.79	366.43	-141.70	2.30
877	5/29/2020 13:09	5/29/2020 13:17	0:07:40	-51.33	-102.53	366.94	-46.12	-58.87	364.03	-141.05	2.95
878	5/29/2020 13:17	5/29/2020 13:18	0:00:30	-45.20	-56.52	363.66	-44.24	-54.24	363.28	-142.96	1.04
879	5/29/2020 13:47	5/29/2020 14:09	0:21:59	38.88	27.68	361.82	30.97	134.54	350.11	-141.05	2.95
880	5/29/2020 14:19	5/29/2020 14:19	0:00:00	-0.47	160.42	299.20	-0.47	160.42	299.20	-143.91	0.09
881	5/29/2020 14:23	5/29/2020 14:24	0:00:39	-11.94	168.69	278.22	-14.01	170.26	274.42	-143.15	0.85
882	5/29/2020 14:36	5/29/2020 14:38	0:01:40	-46.72	-147.54	213.56	-49.28	-138.55	207.51	-140.89	3.11
883	5/29/2020 14:38	5/29/2020 14:51	0:13:00	-49.89	-135.68	205.82	-37.02	-64.44	188.68	-135.33	8.67
884	5/29/2020 14:52	5/29/2020 14:52	0:00:00	-35.70	-62.61	189.24	-35.70	-62.61	189.24	-143.83	0.17
885	5/29/2020 14:53	5/29/2020 14:53	0:00:11	-33.44	-59.69	190.39	-32.98	-59.13	190.65	-142.21	1.79
886	5/29/2020 15:00	5/29/2020 15:00	0:00:11	-11.82	-39.69	212.00	-11.29	-39.30	212.74	-143.85	0.15
887	5/29/2020 15:24	5/29/2020 15:24	0:00:19	50.90	39.13	351.02	51.14	41.08	352.17	-143.69	0.31
888	5/29/2020 15:25	5/29/2020 15:33	0:08:09	51.51	45.03	354.32	44.64	90.36	362.87	-141.49	2.51
889	5/29/2020 15:49	5/29/2020 15:49	0:00:39	0.86	136.64	301.61	-1.23	138.12	297.85	-143.61	0.39
890	5/29/2020 15:53	5/29/2020 15:54	0:01:01	-12.17	146.03	277.87	-15.27	148.41	272.20	-143.48	0.52
891	5/29/2020 16:06	5/29/2020 16:06	0:00:20	-46.85	-170.00	213.37	-47.42	-168.27	212.10	-143.37	0.63
892	5/29/2020 16:07	5/29/2020 16:08	0:00:50	-48.21	-165.60	210.26	-49.38	-160.96	207.32	-140.88	3.12
893	5/29/2020 16:08	5/29/2020 16:21	0:12:50	-49.98	-158.07	205.63	-37.26	-87.62	188.33	-135.32	8.68
894	5/29/2020 16:22	5/29/2020 16:22	0:00:00	-35.50	-85.17	189.04	-35.50	-85.17	189.04	-143.68	0.32
895	5/29/2020 16:22	5/29/2020 16:23	0:00:09	-33.23	-82.28	190.20	-32.77	-81.72	190.46	-142.38	1.62
896	5/29/2020 16:29	5/29/2020 16:30	0:00:11	-12.11	-62.75	211.09	-11.58	-62.35	211.82	-143.69	0.31
897	5/29/2020 16:54	5/29/2020 16:54	0:00:11	50.96	16.76	350.68	51.08	17.74	351.26	-143.68	0.32
898	5/29/2020 16:55	5/29/2020 17:03	0:08:10	51.54	22.68	353.96	44.49	67.89	362.39	-141.47	2.53
899	5/29/2020 17:18	5/29/2020 17:20	0:01:20	1.65	113.25	303.01	-2.53	116.20	295.49	-143.27	0.73
900	5/29/2020 17:23	5/29/2020 17:24	0:01:01	-12.95	123.78	276.51	-16.04	126.18	270.87	-143.45	0.55

**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)
901	5/29/2020 17:36	5/29/2020 17:36	0:00:19	-46.99	167.59	213.15	-47.55	169.33	211.89	-143.36	0.64
902	5/29/2020 17:37	5/29/2020 17:37	0:00:51	-48.33	172.01	210.05	-49.48	176.67	207.11	-140.86	3.14
903	5/29/2020 17:38	5/29/2020 17:51	0:12:50	-50.07	179.57	205.43	-37.05	-110.15	188.22	-135.33	8.67
904	5/29/2020 17:51	5/29/2020 17:51	0:00:00	-35.29	-107.72	188.94	-35.29	-107.72	188.94	-143.48	0.52
905	5/29/2020 17:52	5/29/2020 17:52	0:00:11	-33.01	-104.84	190.10	-32.54	-104.28	190.37	-141.78	2.22
906	5/29/2020 17:59	5/29/2020 17:59	0:00:11	-12.38	-85.79	210.33	-11.85	-85.39	211.05	-143.49	0.51
907	5/29/2020 18:19	5/29/2020 18:36	0:17:10	45.51	-27.74	332.18	35.63	60.33	351.55	-140.16	3.84
908	5/29/2020 18:47	5/29/2020 18:47	0:00:39	5.60	87.61	283.83	3.51	89.10	278.05	-143.47	0.53
909	5/29/2020 18:48	5/29/2020 18:50	0:02:29	1.94	90.21	273.65	-5.94	95.80	251.02	-141.91	2.09
910	5/29/2020 18:52	5/29/2020 18:55	0:03:09	-10.15	98.86	238.69	-20.01	106.60	209.32	-141.85	2.15
911	5/29/2020 18:56	5/29/2020 18:57	0:01:20	-22.05	108.37	203.21	-26.06	112.07	191.16	-142.57	1.43
912	5/29/2020 18:57	5/29/2020 18:58	0:00:29	-27.54	113.54	186.72	-29.00	115.05	182.31	-143.58	0.42
913	5/29/2020 18:59	5/29/2020 18:59	0:00:00	-30.92	117.13	176.52	-30.92	117.13	176.52	-143.96	0.04
914	5/29/2020 19:03	5/29/2020 19:04	0:00:10	-43.32	135.69	138.03	-43.69	136.46	136.84	-141.88	2.12

**Max. Exceedance: 8.68 dB**